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# ***Seismological Bulletin***

*Seismological Service  
of Canada*

**Eastern Division  
1954**

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

SEISMOLOGICAL BULLETIN

Eastern Division - 1954

This report lists the instrumental results obtained at the seismological stations of the Eastern Division, Seismological Service of Canada. These are:

Ottawa, Ontario -

Dominion Observatory, Dept. of Mines and Technical Surveys.

Halifax, Nova Scotia -

Operated by Dalhousie University for the Dominion Observatory.

Seven Falls, Quebec -

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

Shawinigan Falls, Quebec -

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

Kirkland Lake, Ontario -

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

Resolute Bay, Northwest Territories -

Owned and operated by the Dominion Observatory.  
F. Cook in charge to August 1954.  
J. Eyres in charge after August 1954.

The records of all the above stations are stored at Ottawa.

Local earthquakes are interpreted by means of travel-time curves based on rockburst studies. (See J. H. Hodgson, Publications of the Dominion Observatory, Vol. XVI, Nos. 5 and 6).

John H. Hodgson,  
Chief, Division of Seismology.

MEMORANDUM FOR THE RECORD

DATE: [Illegible]

TO: [Illegible]

FROM: [Illegible]

SUBJECT: [Illegible]

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STATION	POSITION AND ELEVATION	FOUNDATION	INSTRUMENT	T <sub>0</sub>	T <sub>g</sub>	MAGNIFICATION	DAMPING	PAPER SPEED mm/min.	TIME MARK ZERO	GROUND MOTION- TRACE UP
Halifax	44° 38' N 63° 36' W h= 46 m.	Carbonaceous slate	Benioff Z	1.0	0.2	50,000	Critical	60	End	Up
			Benioff Z	1.0	60	1 sec - 2,300 60 secs - 38	Critical	30	End	Up
			Sprengnether NS	20	20	6,000	Critical	30	End	North
			Sprengnether EW	20	20	6,000	Critical	30	End	East
Kirkland Lake	48° 08' 41'' N 80° 01' 45'' W h= 310 m.	Precambrian basement rock	Sprengnether Z	1.4	1.4	10,000	Critical	60	Start	Up
Ottawa	45° 23' 38'' N 75° 42' 57'' W h= 83 m.	Boulder clay over limestone	Milne-Shaw NS	12		300	20:1	30	End	South
			Milne-Shaw EW	12		300	20:1	30	End	West
			Benioff Z	1.0	0.2	70,000	Critical	60	End	Up
			Leet-Blumberg Z	1.5	0.06	100,000 ca.	Under- damped	60	End	Up
			Leet-Blumberg NS	1.5	0.06	100,000 ca.	"	60	End	South
Leet-Blumberg EW	1.5	0.06	100,000 ca.	"	60	End	West			
Resolute Bay	74° 41' N 94° 54' W h= 5 m. At a point 1000' N15° W of above	Early Palaeozoic limestone Permafrost	Sprengnether Z	1.4	1.4	10,000	Critical	60	End	Up
			Sprengnether NS	14.1	14.1	1,600	Critical	60	End	North
			Sprengnether EW	16.0	16.0	1,600	Critical	60	End	East
			Press Z	12.2	12.5			60	End	Up
Seven Falls	47° 07.4' N 70° 49.6' W h= 232 m.	Precambrian basement rock	Wood-Anderson EW	1.0		2,200	15:1	60	End	East
			Milne-Shaw EW	12.0		300	20:1	15	End	East
			Benioff Z	1.0	0.2	70,000	Critical	60	End	Up
Shawinigan Falls	46° 33.1' N 72° 45.8' W h= 60 m.	Precambrian basement rock	Wood-Anderson NS	1.0		2,200	15:1	60	End	North
			Willmore Z	1.0	0.25	6,000	Critical	60	End	Down



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SEISMOLOGICAL BULLETIN

JANUARY 1

U.S.C.G.S.  
8 1/2S, 124E  
Sawoe Sea  
h = 100 km

Halifax

eP' 13 23 40

Kirkland Lake

eP' 13 23 34  
ePKS 13 26 57

Ottawa

iP' 13 23 36  
iPKS 13 27 07

Resolute Bay

eP' 13 22 39

JANUARY 1

Seven Falls

iP<sub>1</sub> 19 39 57.5  
iP<sub>n</sub> 19 39 59.2  
iP<sub>1</sub>P<sub>1</sub> 19 40 00.7  
iS<sub>1</sub> 19 40 08.1  
D = 85 km  
H = 19 39 43.5

JANUARY 2

Resolute Bay

eP 01 23 49 c?

JANUARY 2

The following interpretation of the records suggests an epicentre at 38 1/2N, 82 1/2W, in the southern tip of Ohio at H = 02 25 12. However the U.S.C.G.S. does not list any earthquake in this area.

Kirkland Lake

eS<sub>1</sub> 02 30 19  
D = 1,100 km

Ottawa

eS<sub>n</sub> 02 28 38  
eS<sub>1</sub> 02 29 39  
D = 950 km

Seven Falls

eS<sub>1</sub> 02 31 29  
D = 1,350 km

JANUARY 2

U.S.C.G.S.

43N, 147E

Off coast of Hokkaido, Japan.

H = 13 52 27

Resolute Bay

eP 14 02 04

JANUARY 2

U.S.C.G.S.

54N, 165W

Fox Islands, Aleutian Island.

H = 20 17 25

Ottawa

eP 20 26 57 d  
ePP 20 28 58

Resolute Bay

eP 20 24 11 c?

Seven Falls

iP 20 27 04.5 c

JANUARY 3

U.S.C.G.S.

43 1/2N, 145E

Near east coast of Hokkaido, Japan.

H = 17 30 31

Ottawa

iP 17 43 06 c

Resolute Bay

iP 17 40 10 c

JANUARY 4

U.S.C.G.S.

9N, 85W

Near southwest coast of Costa Rica.

H = 11 16 29

Ottawa

eP 11 23 47 c

Resolute Bay

eP 11 27 23

Seven Falls

iP 11 24 10 c

JANUARY 4

U.S.C.G.S.

Bouvet Islands Region South Atlantic Ocean.

H = 12 08 49

Ottawa

iP' 12 27 53 d

Resolute Bay

iP' 12 28 20 d?

JANUARY 5

U.S.C.G.S.

43N, 147E

Off east coast of Hokkaido, Japan.

H = 03 18 00

Resolute Bay

e 03 27 39

JANUARY 5

U.S.C.G.S.

76°N, 6E

Foreshock of Spitzbergen earthquake.

Resolute Bay

e 07 23 13

JANUARY 6

U.S.C.G.S.

76N, 7E

Southwest of Spitzbergen.

H = 15 53 59

Kirkland Lake

eP 16 02 07 c

Ottawa

iP 16 02 19 d

DOMINION OBSERVATORIES

Resolute Bay	Seven Falls	Seven Falls
eP 15 59 00	eL 07 45.2	eP 01 51 17 c
eS 16 03 11		iP 01 51 18 d
eSS 16 04 16		
eL 16 05.5	JANUARY 7	
F 16.3	Ottawa	JANUARY 9
D = 2,550 km	eP 07 27 45	Ottawa
Seven Falls	e 07 28 29	iP 02 58 19 d
eP 16 01 51 c		Seven Falls
i 16 01 56 c		eP 02 58 43 d
	JANUARY 7	
JANUARY 7	Ottawa	JANUARY 9
U.S.C.G.S.	iP <sub>n</sub> 18 09 52	U.S.C.G.S.
25S, 179 1/2E	eS <sub>n</sub> 18 10 09	34 1/2N, 141E
South of Fiji Islands.	L 18 10 17	Off coast of Honshu,
H = 04 08 24	D = 148 km	Japan.
Ottawa	H = 18 09 28.5	H = 08 06 30
iP' 04 27 02 c		Resolute Bay
Resolute Bay	JANUARY 8	eP 08 17 11
eP' 04 26 55	U.S.C.G.S.	
Seven Falls	Near north coast of	JANUARY 9
iP' 04 27 09 c	Honshu, Japan.	Resolute Bay
	H = 04 13 45	eP 16 35 54 c
JANUARY 7	Resolute Bay	
Kirkland Lake	eP 04 23 53 c	JANUARY 9
eP <sub>1</sub> 05 34 01		Resolute Bay
e 05 34 02	JANUARY 8	eP 18 19 51 d
iP <sub>1</sub> P <sub>1</sub> 05 34 04.6	Ottawa	
iS <sub>1</sub> 05 34 05.6	eP <sub>n</sub> 19 54 28	JANUARY 10
iS <sub>1</sub> S <sub>1</sub> 05 34 12.8	eS <sub>n</sub> 19 54 45	U.S.C.G.S.
i 05 34 19	L 19 54 53	65 1/2N, 136 1/2W
D = 37 km	D = 148 km	Yukon, Canada.
H = 05 33 54.5	H = 19 54 04.5	H = 08 59 58
JANUARY 7	JANUARY 9	Ottawa
U.S.C.G.S.	U.S.C.G.S.	iP 09 07 17 d
About 500 miles south	5 1/2N, 83W	Resolute Bay
of the Fiji Islands.	South of Panama.	e 09 03 43
H = 06 48 50	Kirkland Lake	eP 09 03 48 d
Halifax	eP 01 51 14	e 09 04 57
eL 07 50.1	Ottawa	e 09 06 39
Resolute Bay	iP 01 50 54 c	eS 09 08 30
eP 07 03 43	Resolute Bay	eL 09 10.2
eG 07 34 15	eP 01 54 27	F 09.3
eL 07 42.0	eL 02 18.1	



DOMINION OBSERVATORIES

JANUARY 14	Seven Falls	Seven Falls
U.S.C.G.S.	eP <sub>n</sub> 19 56 44.8	eP 22 52 51
Celebes Sea	iS <sub>n</sub> 19 57 17.5	eL 23 05.3
H = 02 11 25	D = 336 km	Max.! 23 08.8
Ottawa	Shawinigan Falls	
eP' 02 30 42 c	eP <sub>n</sub> 19 56 34.5	
ePP 02 32 39	e(S <sub>n</sub> ) 19 56 58.7	JANUARY 17
Resolute Bay	D = 225 km	U.S.C.G.S.
eP 02 25 05 c		34N, 141E
ePP 02 29 09		Off coast of Honshu,
Seven Falls	JANUARY 16	Japan.
eiP' 02 30 41 c	Seven Falls	H = 03 03 57
	e 00 11 30	Resolute Bay
		e 03 14 43 d?
		e 03 14 55
JANUARY 14	JANUARY 16	
U.S.C.G.S.	Halifax	JANUARY 17
Fox Islands, Aleutian	iP <sub>n</sub> 13 36 39.5	U.S.C.G.S.
Islands.	iS <sub>n</sub> 13 37 03.5	36N, 139 1/2E
H = 19 37 38	D = 230 km	Central Honshu, Japan.
Ottawa	H = 13 36 06	Felt in Tokyo.
eP 19 47 08		H = 11 46 10
Resolute Bay	JANUARY 16	Ottawa
iP 19 44 32 d	Ottawa	iP 11 59 20 d
	iP <sub>n</sub> 18 23 20	Resolute Bay
JANUARY 15	iS <sub>n</sub> 18 23 36.5	eP 11 56 39 c
U.S.C.G.S.	iS <sub>1</sub> S <sub>1</sub> 18 23 39.5	
Kermadec Islands	e 18 23 43	JANUARY 17.
Ottawa	D = 142 km	U.S.C.G.S.
eP' 03 42 50	H = 18 22 57	52N, 178 1/2E
JANUARY 15	JANUARY 16	Rat Islands, Aleutian
Seven Falls	U.S.C.G.S.	Islands.
e(P) 14 20 20 d	49N, 129 1/2W	H = 20 43 43
	Off coast of Vancouver	Ottawa
JANUARY 15	Island, B.C.	eP 20 54 04 d
Preliminary Ottawa	H = 22 45 27	Resolute Bay
Epicentre.	Kirkland Lake	eP 20 51 07 c?
48 1/2N, 75W	eP 22 52.1	Seven Falls
H = 19 55 58	eL 23 02 47	iP 20 54 10 c
Ottawa	Ottawa	
iP <sub>n</sub> 19 56 41	eP 22 52 23 c	JANUARY 17
iS <sub>1</sub> P <sub>n</sub> P <sub>1</sub> 19 56 44	S <sub>c</sub> S 23 03 08	Kirkland Lake
eS <sub>n</sub> 19 57 14	Resolute Bay	eP 23 32 43 c
L 19 57 34	eP 22 51 34	e 23 33 10
D = 338 km	eS 22 56 23	Seven Falls
	eL 23 00.7	eP 23 32 34
	F 23.2	e 23 33 00

SEISMOLOGICAL BULLETIN

JANUARY 18 U.S.C.G.S. Banda Sea H = 10 47 07 Kirkland Lake eiP' 11 06 23 i(PP) 11 09 37 Ottawa iP' 11 06 30 d PKS 11 09 50 Resolute Bay eP' 11 05 35 d iP' 11 05 36 c Seven Falls eP' 11 06 21 e 11 06 30 d i 11 09 52	JANUARY 18 Resolute Bay eP 16 54 13 c	JANUARY 20 Seven Falls eP 09 33 31 d?
JANUARY 18 U.S.C.G.S. Near west coast of Greece. H = 14 16 05 Ottawa eP 14 27 45 d Resolute Bay eP 14 26 19 Seven Falls eP 14 26 53 d	JANUARY 18 Resolute Bay eP 19 22 11 c?	JANUARY 20 Ottawa iP 14 50 28 c Resolute Bay eP 14 45 19 c? Seven Falls eP 14 50 16 c
JANUARY 18 U.S.C.G.S. 52 1/2N, 159E Near east coast of Kamchatka. H = 14 45 10 Ottawa eP 14 56 32 d Resolute Bay eP 14 55 52 c	JANUARY 19 Resolute Bay eP 09 14 38 c?	JANUARY 20 Ottawa iP 16 27 39 c Seven Falls iP 16 27 28 c i 16 27 34 c
JANUARY 18 Halifax iP <sub>1</sub> 15 34 06 iS <sub>1</sub> 15 34 10.5 D = 35 km H = 15 34 00.5 Probably an explosion.	JANUARY 20 Ottawa eP 00 47 31 c e 00 48 46	JANUARY 20 U.S.C.G.S. 41 1/2 <sup>0</sup> N, 105 1/2W Southeastern Wyoming H = 20 50 01 Ottawa eLg 21 01 38 Resolute Bay eLg 21 07 45
	JANUARY 20 U.S.C.G.S. 8 1/2N, 103 1/2W Pacific Ocean, south of Mexico. H = 04 16 25 Halifax eS 04 32 38 eL 04 40 08 Kirkland Lake eP 04 24 40 Ottawa iP 04 24 39 d eS 04 31 04 S <sub>c</sub> S 04 34 48 SSS 04 35 11 e 04 39 00 Resolute Bay eP 04 27 19 eS 04 36 06 eS <sub>c</sub> S 04 37 14 eSSS 04 43 44 eL 04 45.5 F 05.5 Seven Falls iP 04 25 06 eS 04 32 01 eL 04 42.0	JANUARY 20 U.S.C.G.S. 41 1/2 <sup>0</sup> N, 105 1/2W Southeastern Wyoming H = 20 50 01 Ottawa eLg 21 01 38 Resolute Bay eLg 21 07 45
		JANUARY 21 Resolute Bay eP 09 15 22 c



DOMINION OBSERVATORIES

JANUARY 22 Resolute Bay eP 05 59 39 d	JANUARY 24 Resolute Bay eP <sub>1</sub> 16 59 41 eS <sub>1</sub> 16 59 44 D = 25 km H = 16 59 37	JANUARY 26 Halifax i 08 50 48 i 08 51 13
JANUARY 22 U.S.C.G.S. 54°N, 163°W Near Unimak Islands. H = 11 16 07 h = 60 km Halifax eL 11 47 10 Ottawa eP 11 25 27 i 11 25 40 Resolute Bay eP 11 22 36 c? eL 11 37.0 F 11.9	JANUARY 25 U.S.C.G.S. Near Negros, P.I. H = 03 29 28 Ottawa eP' 03 48 29 d Resolute Bay eP 03 42 51 Seven Falls eP' 03 48 28 c?	JANUARY 26 U.S.C.G.S. 6 1/2S, 152E Near coast of New Britain H = 08 58 59 Ottawa eP' 09 18 01 d Seven Falls eP' 09 18 06 d?
JANUARY 22 U.S.C.G.S. 20°S, 169°E Loyalty Islands H = 21 23 04 h = 100 km Ottawa iP' 21 41 48 c i 21 45 15 Seven Falls iP' 21 41 54 c	JANUARY 25 U.S.C.G.S. 33N, 40W North Atlantic Ocean. H = 16 03 45 Halifax i 16 08 36 d eL 16 13 28 Resolute Bay eP 16 12 39 c?	JANUARY 27 U.S.C.G.S. 56 1/2N, 157W Near coast of Alaska Peninsula. H = 10 30 00 Ottawa iP 10 38 50 d Seven Falls eP 10 39 00 c
JANUARY 23 U.S.C.G.S. 37 1/2N, 72 1/2E Tadzhik S.S.R. H = 16 06 30 Ottawa eP 16 19 44 c Seven Falls eP 16 19 27 c	JANUARY 25 Ottawa eP 23 27 22	JANUARY 27 Halifax iP <sub>n</sub> 14 36 12 iS <sub>n</sub> 14 36 35 D = 210 km H = 14 35 41
JANUARY 23 Ottawa eP 17 23 01 d	JANUARY 26 Ottawa eP 07 11 23 d	JANUARY 27 U.S.C.G.S. Near coast of Guerrero, Mexico. H = 18 16 07 h = 60 km

SEISMOLOGICAL BULLETIN

Ottawa  
iP 18 22 57 c  
Resolute Bay  
eP 10 26 00 c  
Seven Falls  
eP 18 23 29 c

JANUARY 30  
Resolute Bay  
eP<sub>1</sub> 05 21 39  
iS<sub>1</sub> 05 21 50  
i 05 21 56  
F 05.7  
D = 90 km  
H = 05 21 24.5

Seven Falls  
eS<sub>1</sub> 00 40 55

FEBRUARY 1  
U.S.C.G.S.  
Volcano Islands.  
H = 01 06 51  
Kirkland Lake  
eP 01 20 35 c?  
e 01 33 35  
F 02.2

JANUARY 28  
Resolute Bay  
eP 08 49 55 d?

JANUARY 30  
U.S.C.G.S.  
54N, 163W

JANUARY 28  
U.S.C.G.S.  
Near coast of Guerrero,  
Mexico.  
H = 22 14 54  
h = 60 km

Near Unimak Isl.,  
Alaska.  
H = 18 27 44  
Resolute Bay  
eP 18 34 28  
eL 18.2  
F 19.0

Ottawa  
eP 01 20 52 d  
i 01 23 50  
PP 01 25 22  
PPP 01 27 38  
SKS 01 31 30  
e 01 31 44  
PS 01 34 12  
SS 01 40 08  
SSS 01 44 04  
G 01 49 30

Ottawa  
iP 22 21 46 c  
i 22 21 56

Resolute Bay  
eP 22 24 46 d?  
Seven Falls  
eP 22 22 19

JANUARY 31  
Resolute Bay  
eP 08 14 17 c  
e 08 14 24

Resolute Bay  
iP 01 18 33 d  
iP<sub>c</sub>P 01 19 02  
iPP 01 21 17  
iS 01 28 17  
S<sub>c</sub>S 01 28 51  
F 03.0

JANUARY 29  
Resolute Bay  
eP<sub>1</sub> 03 43 28  
e 03 43 34  
iS<sub>1</sub> 03 43 38  
i 03 43 45  
F 03.0  
D = 83 km  
H = 03 43 15

JANUARY 31  
U.S.C.G.S.  
52N, 160E  
Off east coast of  
Kamchatka.  
H = 11 43 27  
Halifax  
eL 12 25 00  
Resolute Bay  
eP 11 51 44  
eS 11 58 27  
eL 12 07.3  
F 12.5

Seven Falls  
eP 01 20 54 c?  
e 01 24 30  
e 01 25 21  
e 01 30 23  
eSKS 01 31 43  
ePS 01 34 27  
e 01 39 55  
eSS 01 40 35

JANUARY 29  
U.S.C.G.S.  
8 1/2S, 159E  
Solomon Islands  
H = 08 00 14  
h = 100 km

FEBRUARY 1  
Ottawa  
iP<sub>n</sub> 00 38 34  
i 00 38 50  
iS<sub>n</sub> 00 39 08  
S<sub>1</sub>S<sub>1</sub> 00 39 25  
D = 350 km

FEBRUARY 1  
U.S.C.G.S.  
Volcano Islands  
aftershock  
H = 01 20 07  
Resolute Bay  
iP 01 31 52 d

Ottawa  
iP' 08 10 58 c  
Seven Falls  
iP' 08 19 03 c

DOMINION OBSERVATORIES

FEBRUARY 1 U.S.C.G.S. Volcano Islands aftershock H = 02 23 13 Resolute Bay iP 02 34 58 d	FEBRUARY 1 U.S.C.G.S. Volcano Islands aftershock Resolute Bay iP 06 32 43 d	Resolute Bay e 04 54 30  FEBRUARY 2 Kirkland Lake eP 16 59 41 Ottawa eP 16 59 37
FEBRUARY 1 U.S.C.G.S. Volcano Islands aftershock H = 04 03 11 Resolute Bay iP 04 14 56 d Seven Falls e 04 31 04	FEBRUARY 1 U.S.C.G.S. California aftershock H = 13 05 27.5 Ottawa eP 13 12 08 c Seven Falls eP 13 12 38 d	FEBRUARY 2 U.S.C.G.S. 83°N, 7°E Off northeast coast of Greenland. H = 17 45 45 Kirkland Lake eP 17 53 31 c Ottawa eP 17 53 45 c PP 17 55 34 S 18 00 12 SS 18 03 18 S <sub>c</sub> S 18 03 44 SSS 18 04 22 Resolute Bay iP 17 49 35 c iS 17 52 30 L 17 54 00 F 18 15 Seven Falls eP 17 53 26 c? eS 17 59 40
FEBRUARY 1 U.S.C.G.S. 32 1/2N, 115 1/4W Lower California H = 04 31 59.5 Kirkland Lake eP 04 38 20 eL 04 48 32 Ottawa iP 04 38 39 c Resolute Bay eP 04 40 08 Seven Falls eP 04 39 10 c e(Lg) 04 51 26	FEBRUARY 1 U.S.C.G.S. Greenland foreshock H = 14 00 44 Ottawa eP 14 08 49 c Resolute Bay iP 14 04 35 d i 14 12 40 Seven Falls eP 14 08 26  FEBRUARY 1 U.S.C.G.S. Greenland foreshock H = 15 46 00 Resolute Bay iP 15 49 50 d i 15 57 56	FEBRUARY 3 U.S.C.G.S. Off east coast of Honshu, Japan. H = 08 04 06 Resolute Bay e 08 14 53
FEBRUARY 1 U.S.C.G.S. Volcano Islands aftershock H = 05 46 41 Resolute Bay iP 05 58 25 d	FEBRUARY 1 Seven Falls eP 16 53 41 c  FEBRUARY 2 U.S.C.G.S. 6 1/2S, 81W Near coast of Peru H = 04 42 12	FEBRUARY 3 U.S.C.G.S. 45 1/2N, 148 1/2E Kurile Islands H = 18 23 53 h = 100 km

SEISMOLOGICAL BULLETIN

Kirkland Lake		Ottawa		Resolute Bay	
eP	18 35 48 d	eP'	10 38 40 c	iP	15 27 44 c
Ottawa		PP	09 40 27	S	15 35 48
iP	18 36 02 d	iPKS	09 42 16	L	15 52.0
Resolute Bay		SKS	09 45 39	Seven Falls	
iP	18 33 xx c	SKKS	09 50 04	eP	15 24 44
	Time correction	PPS	09 51 30	eS	15 29 20
	doubtful.	SS	09 56 10	eL	15 34 16
Seven Falls		SSS	10 01.3	F	16.7
eP	18 36 03 c	Resolute Bay		Shawinigan Falls	

		eP	09 33 34	i	15 24 39
		iSKS	09 44 07	e	15 32.8

FEBRUARY 3

Ottawa		iS	09 45 05
iP <sub>n</sub>	21 55 33	SS	09 52 12
iS <sub>n</sub>	21 55 57	(PSPS)	09 52 28
eL	21 56 07	L	10 08

FEBRUARY 7

U.S.C.G.S.  
15°S, 167 1/2E  
New Hebrides Islands

D = 225 km

Note: A trace, too small to read was recorded at Seven Falls.

Seven Falls

(eP')	09 38 47
iP'	09 38 54 c
e	09 41 27 c
eSKS	09 45 57
F	12.0

H = 06 15 21

h = 100 km

Kirkland Lake

eP'	06 34 09 c
Ottawa	
iP'	06 34 03 c
i	06 44 18
SS	06 52 14

FEBRUARY 4

Seven Falls	
eP	02 00 41 c

FEBRUARY 5

U.S.C.G.S.  
17 1/2N, 92 1/2W  
Chiapas, Mexico.  
H = 15 17 59  
h = 100 km

FEBRUARY 4

U.S.C.G.S.  
Off east coast of Honshu, Japan.  
H = 03 43 21

Resolute Bay	
e	03 54 09

Halifax

S	15 30 45
SS	15 33 37
SSS	15 34 04
S <sub>c</sub> S	15 35 17

Resolute Bay

e	06 33 42
e	06 44 58

Seven Falls

iP'	06 34 08 c
i	06 44 04 c

FEBRUARY 5

U.S.C.G.S.  
4 1/2S, 153E  
Off coast of New Britain.

H = 09 19 42

Halifax

iPKS	09 42 16
SKS	09 46 00
SS	09 58 47
L	10 14.4
F	11.6

Kirkland Lake

eP	15 24 32 c?
epP	15 24 41 d?
Ottawa	
eP	15 24 16 d
i	15 24 59
P <sub>c</sub> P	15 27 17
S	15 29 20
e	15 30 12
SSS	15 31 47
e	15 34 40

FEBRUARY 7

Kirkland Lake	
e	12 44 09

Ottawa

e	12 44 58
---	----------

Resolute Bay

e	12 39 00
---	----------

Seven Falls

e	12 43 54
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FEBRUARY 7

Ottawa

i	20 26 16
i(S <sub>1</sub> )	20 26 30
i(S <sub>n</sub> )	20 26 32
i	20 26 37



SEISMOLOGICAL BULLETIN

FEBRUARY 11  
U.S.C.G.S.  
39 1/2N, 101E  
Ningsia Province,  
China.

H = 00 30 16  
Kirkland Lake  
iP 00 43 30 c

Ottawa  
iP 00 43 42 c  
i 00 44 35  
PP 00 47 40  
SKS 00 54 23  
S 00 54 52  
PS 00 56 26  
PPS 00 57 00  
SS 01 01 42  
SSS 01 05 10  
G 01 09.5  
L 01 16.0

Resolute Bay  
iP 00 41 03 c  
eP<sub>c</sub>P 00 41 41  
iPP 00 43 36  
iPPP 00 45 09  
S 00 49 53  
SS 00 54 22  
L 00 58 00

Seven Falls  
iP 00 43 33 c  
iSKS 00 54 56  
F 01.6

Shawinigan Falls  
eiP 00 43 37 d?

FEBRUARY 11  
Resolute Bay  
e 01 09 37

FEBRUARY 11  
U.S.C.G.S.  
14 1/2N, 144E  
Marianas Islands.  
H = 21 04 50  
Resolute Bay  
iP 21 17 28 c

FEBRUARY 12  
U.S.C.G.S.  
Ningsia, China,  
aftershock  
H = 01 47 41  
Resolute Bay  
e 01 58 27

FEBRUARY 12  
U.S.C.G.S.  
17 1/2S, 70W  
Southern Peru  
H = 10 08 46  
h = 150 km  
Kirkland Lake  
eP 10 19 19 d?  
Ottawa  
iP 10 18 58 c

FEBRUARY 12  
Kirkland Lake  
eP 21 44 31 d  
Ottawa  
iP 21 44 40 d  
i 21 44 52  
Resolute Bay  
e 21 41 10  
Seven Falls  
e 21 41 43  
i 21 44 35 d

FEBRUARY 13  
Resolute Bay  
e 08 07 16

FEBRUARY 13  
Ottawa  
iP<sub>n</sub> 22 10 04  
i 22 10 05  
iS<sub>n</sub> 22 10 28  
e 22 10 39  
D = 225 km

FEBRUARY 14  
U.S.C.G.S.  
6 1/2S, 81W  
Near coast of northern  
Peru.

H = 06 41 44  
Kirkland Lake  
eP 06 51 13

Ottawa  
iP 06 50 54 c  
i 06 51 09  
S 06 58 18  
Resolute Bay  
e 06 54 04  
Seven Falls  
iP 06 51 11 c

FEBRUARY 14  
U.S.C.G.S.  
33 1/2N, 141E  
Off coast of Honshu,  
Japan.  
H = 14 42 02  
Resolute Bay  
e 14 52 51

FEBRUARY 14  
Ottawa  
iP<sub>n</sub> 18 11 16  
iP<sub>1</sub>P<sub>1</sub> 18 11 17.5  
eS<sub>n</sub> 18 11 33.5  
iS<sub>1</sub>S<sub>1</sub> 18 11 37  
e 18 11 41  
D = 153 km

FEBRUARY 15  
U.S.C.G.S.  
5 1/2N, 82 1/2W  
South of Panama  
H = 03 22 45  
Kirkland Lake  
eP 03 30 45 c  
iP 03 30 47 c  
Ottawa  
iP 03 30 25 d  
S 03 36 36  
SS 03 39 42  
L 03 41 36



DOMINION OBSERVATORIES

Resolute Bay		Kirkland Lake		Seven Falls	
iP	03 33 56 d	eP	20 00 23 c?	iP	01 50 28 c
L	03 57.0	Ottawa			
Seven Falls		eP	20 00 04 d		
iP	03 30 46 d?	e	20 06 36	FEBRUARY 17	
		S	20 07 28	U.S.C.G.S.	
		e	20 09 08	51 1/2N, 160E	
FEBRUARY 15		S <sub>c</sub> S	20 09 54	Off east coast of	
U.S.C.G.S.		SSS	20 13 10	Kamchatka.	
16 1/2N, 100W		L	20 16.5	H = 08 57 54	
Near coast of Mexico.		Resolute Bay		Resolute Bay	
H = 12 03 06		eP	20 03 13	e	09 06 13
Kirkland Lake		iS	20 13 23		
eP	12 10 05 c	S <sub>c</sub> S	20 13 49		
Ottawa		SS	20 18 37	FEBRUARY 17	
iP	12 10 03 c	L	20 24 00	Ottawa	
i	12 10 13	F	21 10	eP	11 30 30 c
Resolute Bay		Seven Falls		Seven Falls	
e	12 13 03	iP	20 00 20 c	iP	11 30 42 c
		eS	20 07 59	i	11 30 48 d
FEBRUARY 15		FEBRUARY 15		FEBRUARY 17	
U.S.C.G.S.		Resolute Bay		U.S.C.G.S.	
6 1/2S, 81W		e	23 17 54	46 1/2N, 151E	
Near coast of northern				Kurile Islands.	
Peru.				H = 11 36.18	
H = 15 40 37		FEBRUARY 15		h = 100 km	
Kirkland Lake		Seven Falls		Kirkland Lake	
eP	15 50 07	iP	23 33 12 c	e	01 49 51
e	15 50 15			Ottawa	
Ottawa				iP	11 48 17 c
iP	15 49 49 d	FEBRUARY 16		PP	11 52 10
Resolute Bay		Seven Falls		Resolute Bay	
e	15 53 01	iP	18 29 22 c	eP	11 45 20
Seven Falls				Seven Falls	
iP	15 50 06 d			iPP	17 52 29 d
		FEBRUARY 17			
FEBRUARY 15		U.S.C.G.S.		FEBRUARY 17	
Ottawa		Off southeast coast of		Ottawa	
iP	19 41 59 d	Kamchatka		iP <sub>n</sub>	19 56 33
		H = 01 38 50		iS <sub>n</sub>	19 56 50
FEBRUARY 15		Kirkland Lake		L	19 56 56
U.S.C.G.S.		eP	01 49 51	D = 148 km	
6 1/2S, 81W		Ottawa			
Near coast of northern		eP	01 50 15 d		
Peru.		Resolute Bay			
H = 19 50 52		iP	01 47 03 c		
		S	01 53 38		
		L	02 04 00		



DOMINION OBSERVATORIES

Shawinigan Falls	FEBRUARY 20	epP'	18 55 35 c?
iP 21 41 51 d	U.S.C.G.S.	iSKP	18 56 00 c?
	Near coast of Nicaragua	ipp!	18 56 08 c
	H = 04 27 47		PP is a very large phase
FEBRUARY 19	Kirkland Lake		
U.S.C.G.S.	eP 04 35 02	Ottawa	
18N, 101 1/2W	Ottawa	eP'	18 53 18 c
Near coast of Mexico	iP 04 34 47 c	i	18 53 30
H = 23 36 00	ipp 04 36 06	PP	18 56 13
Kirkland Lake	Resolute Bay	i	18 56 22
eP 23 42 54	e 04 38 20	PKS	18 56 46
Ottawa	Seven Falls	i	18 57 11
iP 23 42 53 d	e 04 35 21	i	18 57 39
i 23 44 05		i	18 57 57
Resolute Bay		PPP	18 59 08
e 23 45 47	FEBRUARY 20	SKS	19 00 46
Seven Falls	Resolute Bay	SKKS	19 02 26
iP 23 43 25 c	e 06 34 07	PPS	19 07 40
		e	19 11 12
		SS	19 12 32
		e	19 14 20
		SSS	19 17 18
FEBRUARY 20	FEBRUARY 20	Resolute Bay	
Resolute Bay	U.S.C.G.S.	iP	18 48 34 d
e 02 01 21	7S, 124 1/2E	ipP	18 50 33
	Flores Sea.	esP	18 51 33
	H = 18 35 05	ipp	18 53 09
	h = 600 km	epPP	18 54 54
FEBRUARY 20	Halifax	ePPP	18 57 23
U.S.C.G.S.	iP'	iSKS	18 58 23
11 1/2N, 87 1/2W	e 18 53 39	iS	18 59 09
Off coast of Nicaragua	SKP 18 56 25	sSP	19 05 08
H = 02 00 43	i 18 56 28	L	19 28 00
Kirkland Lake	sP' 18 56 48	Seven Falls	
iP 02 07 58 c	PP 18 56 55	e	18 53 19 c?
Ottawa	PKS 18 57 17	ip'	18 53 21 c
iP 02 07 41 c	i 18 58 35	isP	18 53 32
PP 02 09 04	i 18 58 43	ipP'	18 55 40 c?
PPP 02 09 28	pPKS 18 59 31	iSKP	18 56 13
PcP 02 10 14	SKS 18 59 53	ePP	18 56 21
S 02 13 12	i 19 02 48	esP'	18 56 30
e 02 17 28	SKKP 19 04 45	ePKS	18 57 07
Resolute Bay	i 19 08 41	e	19 02 28
iP 02 11 14 c	SS 19 14 23	e	19 10 10
i(S) 02 21 26	i 19 15 24	e	19 11 18
L 02 35.0	sSS 19 08 02	e(sSS)	19 17 14
Seven Falls	G 19 33 47	e(SSS)	19 18 50
iP 02 08 06 c	Kirkland Lake		
Shawinigan Falls	eP'		
iP 02 07 57 c?	i 18 53 19 c?		
	i 18 53 22 c		
	isP 18 53 29 c		

SEISMOLOGICAL BULLETIN

Shawinigan Falls	Kirkland Lake	FEBRUARY 21
eP <sup>1</sup> 18 53 17	eP 01 36 17 c	U.S.C.G.S.
i 18 53 25 c	iP 01 36 18 d	Off south coast of
e 18 53 33	Ottawa	Kamchatka.
PP 18 56 13	iP 01 36 01 d	H = 18 43 35
e 18 56 18	Resolute Bay	Resolute Bay
	e 01 39 35	e 18 52 36
	Seven Falls	
FEBRUARY 20	eP 01 36 25 c	
U.S.C.G.S.	iP 01 36 26 d	FEBRUARY 21
Windward Islands		Ottawa
Region.		iP 19 18 21 c
H = 19 53 00	FEBRUARY 21	
h = 100 km	U.S.C.G.S.	
Kirkland Lake	Northern Kurile	FEBRUARY 21
eP 20 00 30 c	H = 04 21 55	Ottawa
Ottawa	Resolute Bay	iP 20 33 40
iP 19 59 59 c	e 04 30 25	
iP <sub>c</sub> P 20 02 19		
Resolute Bay		FEBRUARY 21
iP 20 03 41 c	FEBRUARY 21	U.S.C.G.S.
Seven Falls	Ottawa	12 1/2N, 87W
iP 20 00 03 c	e(Lg) 09 02 45	Near coast of Nicaragua
i 20 00 30 c?	Seven Falls	H = 23 39 25
e 20 02 31	iP <sub>1</sub> 09 00 46	h = 60 km
Shawinigan Falls	iP <sub>1</sub> P <sub>1</sub> 09 00 49.2	Kirkland Lake
iP 20 00 02 c	iS <sub>1</sub> P <sub>1</sub> 09 00 53.1	iP 23 46 29 c
e 20 00 27	iS <sub>1</sub> 09 00 53.8	i(pp) 23 47 05 c
	D = 60 km	i 23 48 00 c
	H = 09 00 36	Ottawa
FEBRUARY 20	Shawinigan Falls	iP 23 46 11 c
U.S.C.G.S.	iP <sub>n</sub> 09 01 09.2	PP 23 47 30
28S, 177 1/2W	S <sub>n</sub> 09 01 34.2	i 23 47 33
Kermadec Islands	D = 240 km	P <sub>c</sub> P 23 48 42
H = 21 28 28		SS 23 51 26
Ottawa		e 23 52 24
eP <sup>1</sup> 21 47 17 d	FEBRUARY 21	S <sub>c</sub> S 23 56 12
ePP 21 48 29	U.S.C.G.S.	Resolute Bay
Resolute Bay	52N, 175 1/2W	iP 23 49 44 c
e 21 47 08	Andreanof Islands	Seven Falls
L 22 25 00	H = 16 09 11	iP 23 46 34 c
Seven Falls	Ottawa	iPP 23 48 06 c
eP 21 47 29	iP 16 19 28 d	Shawinigan Falls
	Resolute Bay	iP 23 46 25 c
	eP 16 16 38	
	Seven Falls	
FEBRUARY 21	eP 16 19 35 d?	FEBRUARY 22
U.S.C.G.S.		U.S.C.G.S.
Near coast of Nicaragua		34 1/2N, 141E
H = 01 29 06		Off coast of Honshu, Japan.
h = 60 km		H = 06 11 26

DOMINION OBSERVATORIES

Kirkland Lake		Resolute Bay		Seven Falls	
eP	06 24 07	eP'	12 22 42	eL	07.5
Ottawa		iPP	12 24 26		
iP	06 24 45 c	iPKS	12 26 08		
Resolute Bay		iP'P'	12 43 50	FEBRUARY 24	
iP	06 22 10 d	L	12 53 00	Resolute Bay	
eS	06 30 56	Seven Falls		e	12 25 45
L	06 36 00	e	12 21 42	Ottawa	
F	06 55 00	e	12 22 25	iP	12 27 31 c
Seven Falls		e	12 32 58 c?		
eP	06 24 46 c	Shawinigan Falls		FEBRUARY 24	
		e	12 21.5	Ottawa	
		i	12 22 25	eP	17 38 27 c
FEBRUARY 22					
U.S.C.G.S.					
Aftershock of Honshu		FEBRUARY 22		FEBRUARY 24	
quake.		Ottawa		U.S.C.G.S.	
H = 10 26 39		iP	13 14 55 d	35 1/2N, 139 1/2E	
Kirkland Lake				Honshu, Japan.	
eP	10 39 46	FEBRUARY 22		H = 17 27 52	
Ottawa		Resolute Bay		Ottawa	
iP	10 40 03	eP	15 01 59	eP	17 41 09 c
i	10 40 18				
Resolute Bay					
iP	10 37 27	FEBRUARY 22		FEBRUARY 24	
L	11 04 00	Ottawa		U.S.C.G.S.	
Seven Falls		iP	18 46 32 c	13N, 144E	
eP	10 40 05	Resolute Bay		Marianas Islands	
		iP	18 43 26	H = 19 36 15	
		Seven Falls		Resolute Bay	
		eP	18 46 34 c	iP	19 49.1 c
FEBRUARY 22					(Chronometer relay sticking)
U.S.C.G.S.		FEBRUARY 22			
66 1/2S, 26 1/2W		Resolute Bay		FEBRUARY 25	
Sandwich Islands.		iP	22 28 40 c	U.S.C.G.S.	
H = 12 03 23				39°S, 91°W	
Kirkland Lake				South Pacific	
eP'	12 22 03	FEBRUARY 23		H = 11 09 44	
ePP	12 22 54	U.S.C.G.S.		Kirkland Lake	
Ottawa		28 1/2N, 91 1/2E		eP	11 22 39 c
eP'	12 21 51 d	Southeastern Tibet		Ottawa	
i	12 22 20	H = 06 40 35		eP	11 22 27 c
PP	12 22 31	Halifax		Seven Falls	
i	12 23 42	eL	07 30.0	eP	11 22 44 c
PPP	12 25 15	Resolute Bay			
SKS	12 28 16	iP	06 52 31 d		
SKKS	12 29 22	iS	07 02 23		
PS	12 31 38	iScS	07 02 51		
PPS	12 33 15	L	07 11 00		
SS	12 37 41				
SSS	12 41 00				

SEISMOLOGICAL BULLETIN

<b>FEBRUARY 25</b>	<b>FEBRUARY 26</b>	<b>Ottawa</b>	
U.S.C.G.S.	U.S.C.G.S.	ePP	01 13 45
52 1/2N, 34W	45N, 148E	PPP	01 16 07
North Atlantic Ocean	Kurile Islands	<b>Resolute Bay</b>	
H = 11 50 42	H = 03 21 12	iP	01 07 04 d
Ottawa	h = 100 km	S	01 16 38
iP 11 56 34 d	Ottawa	L	01 18 00
<b>Resolute Bay</b>	iP 03 33 23 d		
iP 11 57 15 d	<b>Resolute Bay</b>		
<b>Seven Falls</b>	e 03 30 27	<b>FEBRUARY 28</b>	
eP 11 55 59 d		Ottawa	
		iP	05 35 10 c
<b>FEBRUARY 25</b>	<b>FEBRUARY 26</b>	<b>FEBRUARY 28</b>	
Ottawa	U.S.C.G.S.	Ottawa	
iP <sub>n</sub> 21 47 57.5	37N, 71 1/2E	iP	18 29 46 c
iS <sub>n</sub> 21 48 21.5	Hindu Kush	<b>Seven Falls</b>	
eL 21 48 32.0	H = 18 46 04	eP	18 29 46
D = 225 km	Kirkland Lake	e	18 29 55 d
	eP 18 59 13		
	Ottawa		
	iP 18 59 19 d		
<b>FEBRUARY 25</b>	<b>Seven Falls</b>	<b>MARCH 2</b>	
U.S.C.G.S.	e(?) 18 59 00	<b>Resolute Bay</b>	
5 1/2N, 83W	eP 18 59 04	e	06 03 58
South of Panama			
H = 22 15 15			
<b>Kirkland Lake</b>	<b>FEBRUARY 26</b>	<b>MARCH 3</b>	
eP 22 23 14 c	Ottawa	U.S.C.G.S.	
Ottawa	iP 19 11 18 c	5 1/2S, 142 1/2E	
iP 22 22 55 c	i 19 11 52	<b>Central New Guinea</b>	
<b>Resolute Bay</b>		H = 06 02 55	
e 22 26 29	<b>FEBRUARY 26</b>	<b>Kirkland Lake</b>	
<b>Seven Falls</b>	<b>Seven Falls</b>	eP'	06 21 56
eP 22 23 17 c	eP <sub>1</sub> 22 24 45	iP'	06 22 01 d
iP 22 23 18 d	eS <sub>1</sub> 22 25 00	iPP	06 23 45 d
<b>Shawinigan Falls</b>	D = 120 km	F	07.5
e 22 23.6	H = 22 24 25	<b>Ottawa</b>	
		iP'	06 22 04 d
<b>FEBRUARY 26</b>		PP	06 24 10
<b>Kirkland Lake</b>	<b>FEBRUARY 28</b>	PKS	06 25 28
eP 00 04 41	<b>Resolute Bay</b>	i	06 25 37
Ottawa	eL 00 30.0	PPP	06 27 06
eP 00 05 00		SS	06 41.6
<b>Resolute Bay</b>		<b>Resolute Bay</b>	
iP 00 02 26 d	<b>FEBRUARY 28</b>	eP	06 16 57
<b>Seven Falls</b>	U.S.C.G.S.	i	06 21 18
eP 00 05 02	27N, 131E	iPP	06 21 44
	<b>Ryukyu Islands Region</b>	iSKS	06 27 44
	H = 00 55 22	S	06 29 00





SEISMOLOGICAL BULLETIN

MARCH 7	Resolute Bay	Kirkland Lake
U.S.C.G.S.	iP 18 16 11 c	eP 05 50 38 c
38N, 144E	eL 18 52.3	Ottawa
Off east coast of	Seven Falls	iP 05 51 00
Honshu, Japan.	iP 18 13 05 d	eS 06 00 30
H = 23 35 00	i 18 13 22	Resolute Bay
Resolute Bay	PP 18 14 36	iP 05 47 52 c
iP 23 45 16	Shawinigan Falls	iPP 05 49 44
	iP 18 12 56	PPP 05 50 48
	i 18 13 13	iS 05 54 44

MARCH 8	MARCH 8	MARCH 8
U.S.C.G.S.	Ottawa	Seven Falls
38N, 20 1/2E	iP 20 45 19	iP 05 51 03 d
Near west coast of	Seven Falls	PP 05 53 58
Greece.	iP 20 45 26 d	S 06 00 37
H = 08 17 19	i 20 46 03	PS 06 01 21
Ottawa		Shawinigan Falls
eP 08 28 21 d		iP 05 51 02
Resolute Bay		
e 08 27 27		
Seven Falls		
eP 08 27 55 c		
Shawinigan Falls		
eP 08 28 00		

MARCH 8	MARCH 9	MARCH 9
U.S.C.G.S.	U.S.C.G.S.	U.S.C.G.S.
37 1/2N, 143E	1 1/2N, 30 1/2W	19 1/2S, 178W
Off east coast of	Atlantic Ocean, north-	Fiji Islands
Honshu, Japan	east of Brazil.	H = 10 25 02
Ottawa	H = 02 21 43	h = 350 km
iP 13 50 38 c	Kirkland Lake	
Resolute Bay	eP 02 32 16 d?	Ottawa
iP 13 47 56 d	Ottawa	eP' 10 42 58
	iP 02 31 50 d	Seven Falls
	e 02 33 06	iP' 10 43 05 c
	S 02 40 06	
	SSS 02 46 50	
	Resolute Bay	
	iP 02 34 08 c	
	eS 02 44 25	
	eSS 02 49 47	
	L 03 00	
	Seven Falls	
	iP 02 31 38 c	
	S 02 39 35	
	SSS 02 45 56	
	Shawinigan Falls	
	iP 02 31 43 d	

MARCH 8	MARCH 9	MARCH 9
U.S.C.G.S.	U.S.C.G.S.	U.S.C.G.S.
13N, 89W	Northern Columbia	Northern Columbia
Near coast of	H = 19 38 55	H = 19 38 55
El Salvador	Ottawa	Ottawa
H = 18 05 55	eP 19 46 09	eP 19 46 09
h = 60 km	Seven Falls	Seven Falls
Kirkland Lake	iP 19 46 23 d	iP 19 46 23 d
eP 18 12 54 c		
epP 18 13 11 c		
Ottawa		
iP 18 12 39 c		
i 18 12 56		
PP 18 13 52		

MARCH 8	MARCH 9	MARCH 9
U.S.C.G.S.	U.S.C.G.S.	U.S.C.G.S.
13N, 89W	50°N, 157°E	50°N, 157°E
Near coast of	Off south coast of	Off south coast of
El Salvador	Kamchatka	Kamchatka
H = 18 05 55	H = 05 39 20	H = 05 39 20
h = 60 km		
Kirkland Lake		
eP 18 12 54 c		
epP 18 13 11 c		
Ottawa		
iP 18 12 39 c		
i 18 12 56		
PP 18 13 52		

DOMINION OBSERVATORIES

MARCH 10	Resolute Bay	Resolute Bay
Seven Falls	iP 10 40 14 d	L 09 46.2
iP 11 07 22 c	Seven Falls	F 10.3
	iP 10 37 13 c	Seven Falls
	pP 10 37 30	ePS 09 21 56
MARCH 10	S 10 42 59	e 09 23 02
U.S.C.G.S.	SSS 10 45 59	PPS 09 23 30
2S, 78W	L 10 49 44	e 09 27 31
Ecuador	Shawinigan Falls	SS 09 28 24
H = 14 09 07	iP 10 37 05 c	SSS 09 32 25
h = 100 km	i 10 37 21	e 09 36 24
Kirkland Lake		G 09 38 50
e(pP) 14 18 21		L 09 42 53
Ottawa	MARCH 12	
iP 14 17 36 d	Resolute Bay	
e 14 18 00	e 03 54 46	MARCH 14
PP 14 19 30		U.S.C.G.S.
Resolute Bay		51 1/2N, 160E
e 14 20 54	MARCH 12	Off southeast coast of
Seven Falls	U.S.C.G.S.	Kamchatka.
iP 14 17 53 d	Sandwich Islands Region	H = 17 44 28
i 14 18 18	H = 11 12 10	Resolute Bay
Shawinigan Falls	Ottawa	iP 17 52 46 d
iP 14 17 46	iP' 11 30 43 d	iS 17 59 25
i 14 18 10	e 11 31 11	L 18 09.7
	iPPP 11 34 07	Seven Falls
	Resolute Bay	eS 18 04 27
	e 11 31 31	PPS 18 05 16
MARCH 11	i 11 35 01	ScS 18 05 36
Resolute Bay	Seven Falls	G 18 13.6
e 05 26 07	iP' 11 31 11 d	
	PPP 11 34 23	
MARCH 11		MARCH 16
U.S.C.G.S.		U.S.C.G.S.
14 1/2N, 90 1/2W	MARCH 13	7 1/2N, 82W
Guatemala	Seven Falls	Off coast of Panama
H = 10 30 10	eP 16 23 17	H = 01 02 57
h = 100 km		Ottawa
Kirkland Lake		eP 01 10 21 d
iP 10 37 00 c	MARCH 13	Seven Falls
e 10 37 14	Resolute Bay	iP 01 10 42 c
ipP 10 37 24 c	e 17 27 15	
Ottawa		
iP 10 36 47 c		
ipP 10 37 03	MARCH 14	
PP 10 38 03	U.S.C.G.S.	
PcP 10 39 24	16S, 179W	
S 10 42 08	Fiji Islands	
SSS 10 44 40	H = 08 52 36	
		MARCH 16
		U.S.C.G.S.
		Northern Kuriles
		H = 05 27 04
		h = 60 km

SEISMOLOGICAL BULLETIN

Ottawa		MARCH 19		MARCH 20	
iP	05 38 40 c	U.S.C.G.S.		Resolute Bay	
iP <sub>C</sub> P	05 38 56	33°3N, 116°1W		e	11 02 41
Resolute Bay		Santa Rosa Mountains,			
e	05 35 34	California.			
Seven Falls		H = 09 54 27		MARCH 20	
iP	05 38 40 d	Kirkland Lake		U.S.C.G.S.	
		eP	10 00 49 c?	47N, 154E	
		eL	10 10 22	Kurile Islands	
		Ottawa		H = 14 04 07	
MARCH 16		iP	10 01 08 c	h = 100 km	
U.S.C.G.S.		e	10 03 12	Resolute Bay	
34N, 27E		iP <sub>C</sub> P	10 03 52	iP	14 12 58 d
Eastern Mediterranean		S	10 06 30	S	14 20 13
Sea		SSS	10 09 24	L	14 33 45
H = 09 54 18		ScS	10 11 38		
Seven Falls		Resolute Bay			
iP	10 05 39 d	eP	10 02 29	MARCH 20	
		S	10 08 52	Ottawa	
		L	10 16.5	iP <sub>n</sub>	18 45 56
MARCH 16		Seven Falls		iP <sub>1</sub> P <sub>1</sub>	18 45 58
Kirkland Lake		iP	10 01 38 c	S <sub>n</sub>	18 46 13
iP	15 29 24	PP	10 03 12	L	18 46 22
Resolute Bay		S	10 07 22	D = 148 km	
e	15 32 00	SS	10 10 19		
		SSS	10 10 51		
		e	10 12 51		
MARCH 17		Shawinigan Falls		MARCH 21	
U.S.C.G.S.		iP	10 01 26	U.S.C.G.S.	
Off coast of Mexico,		L	10 12 54	52N, 158 1/2E	
near Acapulco				Near southeast coast of	
H = 13 00 50				Kamchatka	
Kirkland Lake				H = 06 09 23	
eP	13 07 58 c	MARCH 19		h = 60 km	
Ottawa		U.S.C.G.S.		Kirkland Lake	
eP	13 07 45 c	Aftershock of California		eP	06 20 20
e	13 07 54	quake.		Ottawa	
Resolute Bay		H = 10 21 17		iP	06 20 44 d
e	13 10 44	Ottawa		Resolute Bay	
Seven Falls		iP	10 27 56 d	iP	06 17 34 d
iP	13 08 27 d	Resolute Bay		S (?)	06 24 01
		e	10 29 16	Seven Falls	
		Seven Falls		eP	06 20 47 d?
		iP	10 28 28 c		
MARCH 17					
Resolute Bay		MARCH 20		MARCH 21	
e	22 27 21	Resolute Bay		U.S.C.G.S.	
		e	03 28 38	Off coast of Guatemala	
MARCH 18				H = 20 43 10	
Resolute Bay				Ottawa	
e	17 27 52			iP	20 50 12 d

DOMINION OBSERVATORIES

MARCH 21

U.S.C.G.S.  
24 1/2N, 95E  
Northwestern Burma

H = 23 42 05

h = 150 km

Mag. = 7 1/4

Kirkland Lake

eP 23 56 59 c?

iP' ! 24 00 43 c

ipP' 24 01 28 c

i(sP) 24 11 32 c

Ottawa

eP 23 56 25

iP' 24 00 04

i 24 00 22

PP 24 00 56

pPP 24 02 00

pPPP 24 04 11

SKKS 24 07 42

S 24 08 20

pS 24 09 40

sPP 24 11 24

e 24 15 42

SS 24 16 12

sSS 24 17 24

e 24 24 20

Resolute Bay

iP 23 54 06 c

ipP 23 54 42

isP 23 54 52

PP 23 57 15

iS 24 03 57

SS 24 09 09

L 24 13.0

Seven Falls

eP 23 56 18 c

iP' 24 00 20 c

ePP 24 00 46

iSKS 24 06 49

Shawinigan Falls

eP 23 56 21

P' 24 00 22

PP 24 00 44

PPS 24 11 27

e 24 14 57

MARCH 22

Resolute Bay

e 00 20 47

e 00 23 57

MARCH 22

Resolute Bay

e 07 11 19

MARCH 22

U.S.C.G.S.

27S, 176 1/2W

Kermadec Islands

H = 09 38 43

Resolute Bay

e 09 57 22

L 10 40.0

F 12.0

MARCH 22

Resolute Bay

e 16 42 25

MARCH 22

U.S.C.G.S.

17N, 95 1/2W

Southern Mexico

H = 17 10 50

h = 60 km

Kirkland Lake

iP ! 17 17 31 c

i 17 17 38 c

Ottawa

iP 17 17 22 c

PP 17 18 45

P<sub>C</sub>P 17 20 25

S 17 22 42

e 17 26 02

Resolute Bay

e 17 20 26

Seven Falls

iP 17 17 52 c

i 17 18 05 d

Shawinigan Falls

iP 17 17 42 c

MARCH 22

Resolute Bay

e 17 50 30

MARCH 22

U.S.C.G.S.

55 1/2N, 157E

Near east coast of

Kamchatka

H = 18 58 02

Ottawa

iP 19 09 04 c

PP 19 11 31

Kirkland Lake

eP 19 08 39 c?

Resolute Bay

iP 19 05 44 c

MARCH 23

Resolute Bay

e 05 36 41

MARCH 24

Kirkland Lake

eP 00 16 06

Ottawa

eP 00 16 06

Resolute Bay

e 00 16 00

MARCH 24

U.S.C.G.S.

Marianas Islands

H = 01 31 39

h = 100 km

Resolute Bay

iP 01 44 10 d

MARCH 24

Resolute Bay

e 12 35 16

SEISMOLOGICAL BULLETIN

MARCH 24	Seven Falls	MARCH 27
Ottawa	eP 09 47 57 d	U.S.C.G.S.
eP 17 33 12		8°S, 75 1/2W
Resolute Bay		Central Peru
e 17 29 50	MARCH 26	H = 18 21 05
	U.S.C.G.S.	h = 150 km
	44N, 146 1/2E	Kirkland Lake
MARCH 24	Southern Kurile Islands.	eP 18 30 48 c?
Resolute Bay	H = 10 47 12	epP 18 31 08 d?
e 23 02 22	Resolute Bay	Ottawa
	e 10 56 45	iP 18 30 12 c
		pP 18 30 44
MARCH 25		PcP 18 31 19
Resolute Bay	MARCH 26	S 18 37 36
e 18 02 08	Resolute Bay	Resolute Bay
e 18 08 32	e 17 29 00	e 18 33 20
		Seven Falls
		iP 18 30 38 c
MARCH 26	MARCH 26	ipP 18 30 59
U.S.C.G.S.	Resolute Bay	Shawinigan Falls
42N, 142E	iP 18 42 18 c	e 18 30 20
Off south coast of		i 18 30 29
Hokkaido, Japan.		ipP 18 30 49 d
H = 04 35 25	MARCH 27	
h = 60 km	Resolute Bay	
Ottawa	e 10 58 48	MARCH 27
iP 04 48 07 d		U.S.C.G.S.
Resolute Bay		9N, 84W
iP 04 45 15 c	MARCH 27	Near coast of Costa Rica
i 04 45 31	U.S.C.G.S.	H = 18 40 55
iS 04 53 45	44 1/2N, 141 1/2E	h = 100 km
Seven Falls	Near west coast of	Kirkland Lake
eP 04 48 08 c?	Hokkaido, Japan.	eP 18 48 17 d?
	H = 11 33 33	Ottawa
	Ottawa	iP 18 47 59 d
MARCH 26	iP 11 46 07 c	Resolute Bay
Resolute Bay	Resolute Bay	iP 18 51 34 d
e 07 51 25	iP 11 43 10 c	
	Seven Falls	
	iP 11 46 07 c	MARCH 28
MARCH 26	Shawinigan Falls	Seven Falls
U.S.C.G.S.	iP 11 46 06	iP <sub>1</sub> 00 58 15.5
2S, 79 1/2W		iP <sub>1</sub> P <sub>1</sub> 00 58 18.5
Near coast of Ecuador.		iS <sub>1</sub> 00 58 24.2
H = 09 39 06	MARCH 27	iS <sub>1</sub> S <sub>1</sub> 00 58 29.4
Ottawa	Ottawa	D = 67 km
iP 09 47 39 d	iP <sub>n</sub> 18 24 57	H = 00 58 04.5
Resolute Bay	iS <sub>n</sub> 18 25 14	
e 09 51 00	L 18 25 22	
	D = 148 km	



DOMINION OBSERVATORIES

MARCH 28		Ottawa		Ottawa	
Kirkland Lake		eP	20 47 07 d	eP'	04 19 51 d
eP	09 28 08 c	e	20 48 07	Resolute Bay	
Ottawa		S	20 55 48	iP	04 13 37 c
iP	09 28 04 c	S <sub>c</sub> S	20 57 00	S	04 23 55
i	09 28 10	SS	21 00 06	L	04 46 00
		SSS	21 02 38	Seven Falls	
		Resolute Bay		eP'	04 19 50 c
MARCH 28		iP	20 44 07 d		
U.S.C.G.S.		P <sub>c</sub> P	20 45 51		
53N, 168W		S	20 50 04	MARCH 29	
Fox Islands, Aleutian		L	20 53.0	U.S.C.G.S.	
Isl.		Seven Falls		37N, 3 1/2W	
H = 17 10 40		eP	20 47 13 d	Near south coast of Spain	
Kirkland Lake		eS	20 56 01	H = 06 17 05	
eP	17 20 00 c?	eSS	21 00 39	h = 650 km	
Ottawa		eL	21 08.9	Mag. = 7 1/4	
iP	17 20 28 c	Shawinigan Falls		Kirkland Lake	
Resolute Bay		eP	20 47 09	iP	06 25 44 c
iP	17 17 42 c	i	20 47 40	e(S)	06 33 40
L	17 33 45			Ottawa	
Seven Falls				iP	06 25 30 c
iP	17 20 36 c	MARCH 28		pP	06 27 26
		U.S.C.G.S.		PP	06 27 44
		52N, 175 1/2E		sP	06 28 32
MARCH 28		Near Islands, Aleutian		S <sub>c</sub> P	06 29 32
U.S.C.G.S.		Islands.		e	06 30 42
7 1/2S, 73 1/2W		H = 20 58 09		iS	06 32 18
Peru-Brazil border		h = 60 km		iS <sub>c</sub> S	06 34 10
H = 19 20 58		Kirkland Lake		sS	06 35 46
h = 100 km		eP	21 08 21	G	06 38 40
Kirkland Lake		e	21 09 33	Resolute Bay	
eP	19 30 38 c?	Ottawa		iP	06 25 42
e	19 31 09	eP	21 08 45 c	pP	06 27 25
Ottawa		e	21 09 59	iPP	06 27 45
iP	19 30 08 c	Resolute Bay		iS <sub>c</sub> P	06 29 26
Seven Falls		iP	21 05 48	iS	06 32 20
eP	19 30 22 c	Seven Falls		S <sub>c</sub> S	06 34 12
		eP	21 08 53 c	L	06 39.0
				Seven Falls	
MARCH 28				iP	06 25 02 c
U.S.C.G.S.		MARCH 29		iS	06 31 25
52N, 176E		U.S.C.G.S.		Shawinigan Falls	
Rat Islands, Aleutian		19 1/2N, 121 1/2E		iP	06 25 13 c
Islands.		Luzon Islands,		i	06 25 16 c
H = 20 36 22		Philippine Isl.		pP	06 27 15 c
Kirkland Lake		H = 04 01 10		S <sub>c</sub> P	06 29 14
eP	20 46 44 d	Kirkland Lake		eS	06 31 48
		eP'	04 19.8		

SEISMOLOGICAL BULLETIN

MARCH 29	Resolute Bay	Shawinigan Falls
Kirkland Lake	iP 16 39 48 c	eP 18 53 13
eP 14 07 24 d	Seven Falls	
Ottawa	iP 16 42 52 d	
eP 14 07 03 d		MARCH 31
i 14 07 26		Kirkland Lake
Resolute Bay	MARCH 30	eP 02 20 47
iP 14 10 19 d	U.S.C.G.S.	Ottawa
Shawinigan Falls	20N, 155W	iP 02 21 18 d
eP 14 07 15	Near northeast coast of	Resolute Bay
	Hawaii	e 02 18 09
	H = 16 40 03	Seven Falls
MARCH 30	Kirkland Lake	iP 02 21 26 c
U.S.C.G.S.	eP 16 50 50 d	
46 1/2N, 153 1/2E	Ottawa	
Kurile Islands	eP 16 51 09 d	MARCH 31
H = 10 46 48	S 17 00 18	U.S.C.G.S.
Kirkland Lake	Resolute Bay	13 1/2N, 58E
eP 10 58 32	iP 16 50 36 c	Arabian Sea
Ottawa	iS 16 59 15	H = 18 25 48
eP 10 58 52 d	L 17 09.5	Mag. = 7 1/4 - 7 1/2
Resolute Bay	Seven Falls	Kirkland Lake
iP 10 55 54 c	eP 16 51 29 d	e 18 43 53
	Shawinigan Falls	Ottawa
	eP 16 51 22 d	eP' 18 44 21
MARCH 30		i 18 44 47
U.S.C.G.S.		SKS 18 51 00
52N, 175 1/2E	MARCH 30	S 18 52 30
Rat Islands, Aleutian	U.S.C.G.S.	PS 18 54 02
Isl.	20N, 155W	PPS 18 55 12
H = 16 19 57	Near northeast coast of	e 18 57 30
Kirkland Lake	Hawaii	SS 19 00 12
eP 16 30 15 c	H = 18 41 54	SSS 19 04 00
Ottawa	Kirkland Lake	G 19 13 00
eP 16 30 40 c	eP 18 52 43 c?	Resolute Bay
Resolute Bay	Ottawa	iP 18 38 56 d
eP 16 27 42 c	eP 18 53 02 c	iPP 18 42 39
Seven Falls	S 19 02 06	PPP 18 43 09
eP 16 30 51 c	S <sub>c</sub> S 19 03 02	iS 18 49 33
	Resolute Bay	iS <sub>c</sub> S 18 50 04
	iP 18 52 27 c	PPS 18 51 15
MARCH 30	P <sub>c</sub> P 18 53 06	Seven Falls
U.S.C.G.S.	iS 19 01 05	eP 18 40 02
52N, 175 1/2E	S <sub>c</sub> S 19 02 21	e 18 43 35
Rat Islands, Aleutian Isl.	SS 19 05 09	e 18 43 50
H = 16 32 03	L 19 09 15	e 18 44 08
Kirkland Lake	Seven Falls	iP' 18 44 25
eP 16 42 20	eP 18 53 20	eSKS 18 50 43
Ottawa	eL 19 17.1	ePS 18 53 41
eP 16 42 47 d		



SEISMOLOGICAL BULLETIN

APRIL 5	H = 16 34 25	APRIL 9
U. S. C. G. S.	Seven Falls	U. S. C. G. S.
23S, 67 1/2W	eP 16 45 21 d	27N, 139 1/2E
Argentina-Bolivia- Chile border		Bonin Islands
H = 17 52 22		H = 13 55 20
h = 150 km	APRIL 8	Resolute Bay
Kirkland Lake	Seven Falls	e 14 06 51
iP 18 03 33 d	iP 04 29 16 c	
ipP 18 04 00 d		
Ottawa	APRIL 8	APRIL 10
iP 18 03 13 d	U. S. C. G. S.	U. S. C. G. S.
Seven Falls	23 1/2S, 116W	Off east coast of Kamchatka
iP 18 03 22 d	Easter Islands Region	H = 03 07 47
i 18 03 49	H = 16 39 52	Resolute Bay
	Kirkland Lake	e 03 15 44
	eP 16 51 56	
APRIL 5	Ottawa	
U. S. C. G. S.	eP 16 52 03	APRIL 10
48N, 129W	S 17 01 36	U. S. C. G. S.
Off Vancouver Island, B. C.	PS 17 02 16	New Hebrides Islands
H = 19 26 00	SS 17 06 18	H = 08 05 06
Ottawa	Seven Falls	h = 60 km
eP 19 33 04 c	eP 16 52 37 d	Ottawa
		eP' 08 24 06
		Seven Falls
		eP' 08 24 01
APRIL 6	APRIL 9	
U. S. C. G. S.	U. S. C. G. S.	
Southern Iran	Southern Peru-Bolivia border	APRIL 10
H = 14 35 10	H = 06 17 30	U. S. C. G. S.
Ottawa	h = 200 km	10 1/2N, 78W
eP 14 48 26 d	Kirkland Lake	Off north coast of Panama
Seven Falls	eP 06 27 46	H = 10 15 46
iP 14 48 10 c	Ottawa	Ottawa
	eP 06 27 25	iP 10 22 43 c
	Resolute Bay	S 10 28 26
	iP 06 30 17 c	Resolute Bay
APRIL 6	Seven Falls	e 10 26 27
U. S. C. G. S.	iP 06 27 35 d	
New Hebrides Islands		
H = 20 24 08		
Ottawa		
eP' 20 43 03 d	APRIL 9	APRIL 10
Seven Falls	U. S. C. G. S.	Resolute Bay
iP' 20 43 09 d	19 1/2N, 121 1/2E	e 13 03 11
	Off north coast of Luzon, P. I.	
	H = 07 15 03	APRIL 10
APRIL 7	Resolute Bay	Resolute Bay
U. S. C. G. S.	e 07 27 32	e 15 01 03
Rat Islands, Aleutian Isl.		

DOMINION OBSERVATORIES

APRIL 11

U.S.C.G.S.  
7S, 155E  
Solomon Islands  
H = 03 03 03

Ottawa  
iP' 03 22 01 c  
SKS 03 29 16  
PS 03 33 32  
e 03 39 22

Resolute Bay  
e 03 33 26  
L 04 10.0  
Seven Falls  
eP' 03 22 06 c

APRIL 11

U.S.C.G.S.  
Solomon Islands  
H = 03 15 51  
Ottawa  
eP' 03 34 48  
Seven Falls  
eP' 03 34 53 c

APRIL 11

U.S.C.G.S.  
Northern Chile -  
Argentine border  
H = 05 40 00  
h = 150 km  
Kirkland Lake  
iP 05 51 32 c  
e 05 52 19 c  
Ottawa  
iP 05 51 13 c  
Seven Falls  
iP 05 51 23 c

APRIL 11

U.S.C.G.S.  
12N, 58E  
Arabian Sea  
H = 10 25 27  
Kirkland Lake  
ePP 10 44 42 d

Ottawa

ePP 10 44 34  
PPP 10 46 49  
PS 10 54 00  
SS 11 00 00

Resolute Bay

eP 10 38 42  
iS 10 49 22  
SS 10 55 49  
L 11 03.0

Seven Falls

eP 10 39 49 c  
PP 10 43 53  
PPP 10 45 53  
SKS 10 49 46  
PS 10 52 44  
SS 10 58 47

APRIL 11

U.S.C.G.S.  
37N, 70 1/2E  
Hindu Kush  
H = 10 53 20  
h = 60 km

Kirkland Lake

iP 11 06 20 c

Ottawa

iP 11 06 25 c  
i 11 07 19  
iPP 11 10 17

Resolute Bay

iP 11 04 15 c  
PP 11 06 40  
PPP 11 08 19  
iS 11 13 03  
iS<sub>c</sub>S 11 14 01

Seven Falls

iP 11 06 11 c  
PP 11 09 44

APRIL 11

Ottawa  
iP 15 18 31 d

APRIL 12

Resolute Bay  
e 01 25 47

APRIL 12

Resolute Bay  
e 03 07 37

APRIL 12

Preliminary Ottawa  
Epicentre about 47N, 76W  
H = 21 22 00

Kirkland Lake

e 21 22 51  
e 21 22 54  
eS<sub>1</sub> 21 23 29  
d = 310 km

Ottawa

iP<sub>n</sub> 21 22 29 d  
iS<sub>n</sub> 21 22 50  
S<sub>1</sub>S<sub>1</sub> 21 22 57  
d = 195 km

Seven Falls

eP<sub>n</sub> 21 23 02  
S<sub>n</sub> 21 23 38  
i 21 23 51.5  
d = 385 km

Shawinigan Falls

eP<sub>n</sub> 21 22 38.6  
iS<sub>1</sub>P<sub>1</sub> 21 22 47.7  
S<sub>n</sub> 21 23 08.5  
i 21 23 12.6  
S<sub>1</sub>S<sub>1</sub> 21 23 19.2  
d = 270 km

APRIL 13

U.S.C.G.S.  
27 1/2S, 66W  
Catamarca Province,  
Argentina  
H = 07 36 23  
h = 200 km  
Kirkland Lake

iP 07 47 57 d  
epP 07 48 37  
Ottawa  
iP 07 47 37 d  
ipP 07 48 18  
sS 07 56 51

Seven Falls

iP 07 47 45 d  
ipP 07 48 26  
sS 07 57 06

SEISMOLOGICAL BULLETIN

Shawinigan Falls	Seven Falls	APRIL 17
iP 07 47 42.4 d	iP 08 05 28 c	Resolute Bay
	pP 08 05 51	e 15 05 11

APRIL 13

Resolute Bay  
e 15 19 40

APRIL 14

Resolute Bay  
iP 13 37 14 c

APRIL 17

U.S.C.G.S.  
51 1/2N, 179W  
Andreasof Islands,  
Aleutian Isl.

APRIL 13

U.S.C.G.S.  
34 1/2N, 133 1/2E  
Near south coast of  
Honshu, Japan.  
H = 15 25 48

APRIL 15

Seven Falls  
eP 05 25 21 c  
i 05 25 51

H = 20 10 37  
Kirkland Lake  
eP 20 20 41  
Ottawa  
eP 20 21 12 c  
P<sub>c</sub>P 20 22 02  
PPP 20 25 02  
e 20 28 22  
S 20 29 34  
S<sub>c</sub>S 20 31 08  
SSS 20 36 20

APRIL 14

Ottawa  
iP 04 07 09 d

APRIL 15

Resolute Bay  
iP 13 52 45 d

APRIL 14

U.S.C.G.S.  
52 1/2N, 158 1/2E  
Near east coast of  
Kamchatka  
H = 07 45 27  
Ottawa  
iP 07 56 50 c  
Resolute Bay  
iP 07 53 38 c  
Seven Falls  
eP 07 56 52 d

APRIL 16

U.S.C.G.S.  
43N, 142 1/2E  
Hokkaido, Japan  
H = 10 30 25  
h = 60 km  
Ottawa  
iP 10 43 15 c  
Resolute Bay  
iP 10 40 05 c

Resolute Bay  
Beginning lost in changing  
record  
iS 20 24 16  
L 20 27 00  
Seven Falls  
iP 20 21 14 d  
P<sub>c</sub>P 20 21 52  
PPP 20 25 11  
S 20 29 34  
PS 20 29 47  
PPS 20 29 59  
S<sub>c</sub>S 20 31 19  
SS 20 33 45  
G 20 36 59

APRIL 14

U.S.C.G.S.  
22 1/2S, 70W  
Northern Chile  
H = 07 54 24  
h = 100 km  
Kirkland Lake  
eP 08 05 37 c?  
epP 08 06 01 c  
Ottawa  
iP 08 05 18 c  
ipP 08 05 41

APRIL 17

Resolute Bay  
e 07 49 37

Shawinigan Falls  
iP 20 21 11  
i 20 21 19

APRIL 17

U.S.C.G.S.  
43N, 141E  
Hokkaido, Japan  
H = 12 09 59  
h = 60 km  
Ottawa  
eP 12 22 37  
Resolute Bay  
iP 12 19 44 d  
Seven Falls  
eP 12 22 36 d

APRIL 17

Kirkland Lake  
eP 21 04 04  
Ottawa  
eP 21 03 57  
Resolute Bay  
iP 21 02 58 d  
Seven Falls  
iP 21 03 34  
Shawinigan Falls  
iP 21 03 33 d

DOMINION OBSERVATORIES

APRIL 18	Resolute Bay	Shawinigan Falls
U.S.C.G.S.	iP 20 35 47 c	eP 08 41 02 c
31S, 178W	Seven Falls	
Kermadec Islands	iP 20 33 05 c	
H = 03 03 26	S 20 41 09	APRIL 24
Resolute Bay	Shawinigan Falls	U.S.C.G.S.
e 03 22 14	iP 20 33 00	34N, 140 1/2E
	i 20 33 18 d	Near east coast of
		Honshu, Japan.
		H = 17 33 50
APRIL 19	APRIL 22	Resolute Bay
Resolute Bay	U.S.C.G.S.	e 17 44 33
e 07 36 18	22N, 142 1/2E	
	Marianas Islands region	
	H = 14 53 22	APRIL 24
APRIL 21	Resolute Bay	U.S.C.G.S.
U.S.C.G.S.	iP 15 05 17	43N, 141 1/2E
43N, 46E	S 15 15 04	Central Hokkaido, Japan
Dagestan A.S.S.R.		H = 18 32 52
H = 09 57 40		Ottawa
Kirkland Lake		eP 18 45 32 c
eP 10 09 39	APRIL 23	Resolute Bay
Ottawa	U.S.C.G.S.	iP 18 42 37 c
eP 10 09 40	Near south coast of	
Seven Falls	Costa Rica	
iP 10 09 18 d	H = 01 21 20	
	h = 100 km	
	Ottawa	
	eP 01 28 30 d	APRIL 25
APRIL 21	Resolute Bay	U.S.C.G.S.
U.S.C.G.S.	e 01 32 06	0°Lat., 15 1/2W
Windward Islands		Mid Atlantic Ocean
H = 18 40 45		H = 00 27 54
Ottawa		Kirkland Lake
iP 18 47 33 d	APRIL 24	eP 00 39 31
Resolute Bay	U.S.C.G.S.	Ottawa
e 18 51 24	63N, 148W	eP 00 39 06 c
Seven Falls	Southern Alaska	S 00 48 23
iP 18 47 36 d	H = 08 33 04	L 00 56 20
	h = 100 km	Resolute Bay
	Kirkland Lake	e 00 40 46
	eP 08 40 28 d	iS 00 51 27
APRIL 21	iP 08 40 29 c	L 01 14.0
U.S.C.G.S.	Ottawa	Seven Falls
13S, 77W	e 08 53 10	eS 00 48 00
Near coast of Peru	L 08 54 50	L 00 55 55
H = 20 23 05	Resolute Bay	
h = 100 km	iP 08 37 48 d	APRIL 25
Kirkland Lake	pP 08 38 10	Seven Falls
eP 20 33 09	sP 08 38 18	iP <sub>1</sub> 15 56 52
Ottawa	S 08 41 44	iS <sub>1</sub> 15 56 56
eP 20 32 51 c	P <sub>c</sub> P 08 41 49	d = 25 km
P <sub>c</sub> P 20 33 38		
S 20 40 44		



SEISMOLOGICAL BULLETIN

APRIL 25

U.S.C.G.S.  
36.8N, 121.8W  
Near coast of Central  
California  
H = 20 33 26.5  
Ottawa  
eP 20 40 22  
e 20 48 35  
L 20 52.2  
Resolute Bay  
e 20 41 06  
L 20 55.0

APRIL 25

Kirkland Lake  
e 21 40 01

APRIL 26

U.S.C.G.S.  
42N, 143E  
Near south coast of  
Hokkaido, Japan  
H = 02 11 04  
Kirkland Lake  
eP 02 23 29  
Ottawa  
eP 02 23 48  
Resolute Bay  
iP 02 20 54 c

APRIL 26

U.S.C.G.S.  
1/2S, 91 1/2W  
Galapagos Islands  
H = 09 17 20  
Kirkland Lake  
eP 09 26 12  
Ottawa  
iP 09 25 59 c  
S 09 33 02  
L 09 40 30  
Resolute Bay  
iP 09 29 02  
Seven Falls  
eP 09 26 21 c  
S 09 33 38  
L 09 41 33

APRIL 26

U.S.C.G.S.  
51N, 158 1/2E  
Off southeast coast of  
Kamchatka  
H = 20 24 44  
h = 60 km  
Kirkland Lake  
iP 20 35 46 c  
Ottawa  
iP 20 36 09 c  
PP 20 38 48  
PPP 20 40 40  
S 20 45 25  
PS 20 46 10  
SS 20 50 14  
SSS 20 53 24  
L 20 57 12

Resolute Bay  
iP 20 32 58 c  
iPP 20 34 41  
iS 20 39 31  
S<sub>c</sub>S 20 42 42  
L 20 50 00  
Seven Falls  
iP 20 36 11 c  
PP 20 38 48  
PPP 20 40 34  
S 20 45 31  
SSS 20 53 31  
L 20 56 31  
Shawinigan Falls  
iP 20 36 10 c

APRIL 26

Kirkland Lake  
e 21 04.0

APRIL 27

Ottawa  
eP<sub>n</sub> 02 15 22  
eS<sub>n</sub> 02 15 47  
eL 02 15 55  
d = 238 km  
Shawinigan Falls  
eL 02 17 06

APRIL 27

U.S.C.G.S.  
6N, 82 1/2W  
South of Panama  
H = 10 06 24  
Kirkland Lake  
iP 10 14 19 c  
Ottawa  
iP 10 14 00 c  
PP 10 15 40  
PPP 10 16 08  
S 10 20 08  
SS 10 22 50  
Resolute Bay  
iP 10 17 32 c  
iS 10 26 39  
S<sub>c</sub>S 10 27 26  
L 10 34.0  
Seven Falls  
iP 10 14 21 c  
S 10 20 45  
Shawinigan Falls  
iP 10 14 14 c

APRIL 27

U.S.C.G.S.  
56S, 147E  
South of Tasmania  
H = 21 21 35  
Kirkland Lake  
eP' 21 41 26  
Ottawa  
eP' 21 41 23  
SSS 22 04 30  
G 22 10 22  
Resolute Bay  
iP' 21 41 28 d  
Seven Falls  
eP' 21 41 25 d  
PPS 21 58 46  
SS 22 04 43

APRIL 28

U.S.C.G.S.  
51 1/2N, 175E  
Near Islands, Aleutian Isl.  
H = 04 50 51  
Resolute Bay  
e 04 58 39

DOMINION OBSERVATORIES

APRIL 28		APRIL 29		APRIL 30	
Ottawa		U.S.C.G.S.		U.S.C.G.S.	
iP	17 13 57	Gulf of California		39 1/2N, 22E	
		aftershock		Central Greece	
		H = 11 34 34		H = 13 02 36	
APRIL 29		Kirkland Lake		Kirkland Lake	
U.S.C.G.S.		eP	11 41 01	eP	13 13 44.5 d?
29 1/2N, 112 1/2W		Ottawa		i	13 13 48.5 c
Gulf of California		iP	11 41 16 c	i	13 13 53 d
H = 10 49 27		S	11 46 43	eS	13 22 58
Kirkland Lake		SS	11 48 55	Ottawa	
eP	10 55 55	e	11 50 40	iP	13 13 39 d
eL	11 06 07	S <sub>c</sub> S	11 51 40	i	13 13 57
Ottawa		L	11 52 08	i	13 14 10
iP	10 56 09 c	Resolute Bay		i	13 14 40
i	10 57 07	iP	11 43 04 d	PP	13 16 12
PP	10 57 18	Seven Falls		e	13 17 00
PPP	10 57 57	eP	11 41 47	e	13 18 38
i	10 58 25	S	11 47 40	e	13 20 16
i	10 59 23	SS	11 50 16	i	13 20 30
S	11 01 35	e	11 51 34	S	13 22 42
e	11 02 55	S <sub>c</sub> S	11 52 01	e	13 23 02
SS	11 03 28	L	11 52 46	PS	13 23 32
e	11 05 34	e	11 54 07	S <sub>c</sub> S	13 23 44
S <sub>c</sub> S	11 06 36	Shawinigan Falls		SS	13 27 02
iL	11 07 03	iP	11 41 36	e	13 27 28
Resolute Bay		L	11 52 54	SSS	13 30 24
iP	10 57 57 d			G	13 32 06
PcP	10 59 24	APRIL 29		Resolute Bay	
PP	10 59 48	Shawinigan Falls		iP	13 12 40 d
PPP	11 00 46	eL	14 01 18	iP <sub>c</sub> P	13 13 30
iS	11 04 52			ePP	13 14 34
S <sub>c</sub> S	11 08 11	APRIL 30		iPPP	13 16 09
Seven Falls		U.S.C.G.S.		iS	13 20 49
iP	10 56 40 c	53N, 162E		S <sub>c</sub> S	13 22 34
PP	10 58 09	Off east coast of		L	13 27 00
PPP	10 58 27	Kamchatka		Seven Falls	
PcP	10 59 04	03 H = 00 03 10		eP	13 13 13
S	11 02 31	Kirkland Lake		PP	13 15 28
i	11 03 52	eP	00 14 01	S	13 21 53
SSS	11 05 17	Ottawa		PS	13 22 31
i	11 06 27	eP	00 14 24	S <sub>c</sub> S	13 23 05
S <sub>c</sub> S	11 06 53	Resolute Bay		SS	12 26 33
L	11 07 35	iP	00 11 13 d	e	13 28 25
e	11 09 12			SSS	13 29 09
Shawinigan Falls				G	13 30 48
eP	10 56 29			Shawinigan Falls	
e	10 56 50			eP	13 13 25



DOMINION OBSERVATORIES

S	15 50 28	PPP	17 22 26	Seven Falls	
e	15 50 44	S	17 26 14	eP	16 56 06
PS	15 51 06	e	17 27 13	Shawinigan Falls	
SS	15 54 50	SSS	17 29 25	eP	16 56 14
SSS	15 58 26	e	17 31 15		
L	16 05 04	Shawinigan Falls			
Resolute Bay		eP	17 20 27 c	MAY 4	
iP	15 37 56 c			U.S.C.G.S.	
P <sub>c</sub> P	15 39 09			52N, 159 1/2E	
iPP	15 39 41	MAY 3		Off southeast coast of	
PPP	15 40 23	U.S.C.G.S		Kamchatka	
iS	15 44 33	31N, 98 1/2E		H = 17 35 05	
L	15 48 00	Sikang province, China		Ottawa	
F	16	H = 18 20 26		iP	17 46 36 d
Seven Falls		Resolute Bay		Resolute Bay	
iS	15 50 33	e	18 32 03	e	17 43 20
G	16 00 30				
Shawinigan Falls					
eP	15 41 09	MAY 4		MAY 4	
		U.S.C.G.S.		U.S.C.G.S.	
		36N, 141E		74N, 81W	
MAY 3		Near east coast of		Devon Island region	
U.S.C.G.S.		Honshu, Japan		H = 17 51 22	
12N, 86W		H = 06 24 47		Kirkland Lake	
Near coast of		Resolute Bay		eP	17 57 01
Nicaragua		e	06 35 18	Ottawa	
H = 17 13 32				eP	17 57 21
h = 150 km				PP	17 58 21
Halifax		MAY 4		PPP	17 58 42
iP	17 20 42 c	U.S.C.G.S.		P <sub>c</sub> P	18 00 28
Kirkland Lake		39 1/2N, 22E		i	18 03 01
iP	17 20 29 c	Central Greece		i	18 06 18
ipP	17 21 05 c	H = 16 43 22		Resolute Bay	
Ottawa		Kirkland Lake		iP	17 52 21 d
iP	17 20 12 c	eP	16 54 28	iS	17 52 42
i	17 20 41	Ottawa		Seven Falls	
PP	17 21 35	eP	16 54 22 c	eS	18 02 38
PPP	17 21 51	Resolute Bay		Shawinigan Falls	
P <sub>c</sub> P	17 22 40	e	16 53 05	e	18 03 03
S	17 25 30			e	18 05 53
sS	17 26 32				
SSS	17 28 04	MAY 4			
Resolute Bay		U.S.C.G.S.		MAY 4	
iP	17 23 44 c	40N, 21E		Kirkland Lake	
isP	17 24 21	Central Greece		e	18 01.9
isS	17 33 10	H = 16 45 33			
Seven Falls		Kirkland Lake			
iP	17 20 36	eP	16 56 39	MAY 4	
i	17 21 10	Ottawa		Resolute Bay	
PP	17 22 08	iP	16 56 29 c	iP	18 22 18 c

SEISMOLOGICAL BULLETIN

MAY 5  
 U.S.C.G.S.  
 27 1/2N, 112 1/2W  
 Gulf of California  
 foreshock  
 H = 11 01 14  
 Ottawa  
 eS 11 13 30  
 eL 11 18 46  
 Seven Falls  
 e 11 14 26  
 L 11 21.2

MAY 5  
 Resolute Bay  
 e 11 47 37

MAY 5  
 U.S.C.G.S.  
 27 1/2N, 112 1/2W  
 Gulf of California  
 H = 13 09 46  
 Halifax  
 iP 13 17 43 c  
 iS 13 24 00  
 SS 13 27 15  
 SSS 13 27 50  
 G 13 29.0  
 Kirkland Lake  
 eP 13 16 19  
 eL 13 26 45  
 Ottawa  
 iP 13 16 32 d  
 PP 13 17 49  
 PPP 13 18 28  
 P<sub>c</sub>P 13 19 15  
 S 13 22 00  
 S<sub>c</sub>S 13 27 04  
 L 13 27 43  
 Resolute Bay  
 eP 13 18 28  
 iP<sub>c</sub>P 13 19 46  
 iPP 13 20 20  
 iS 13 25 27  
 iS<sub>c</sub>S 13 28 09  
 L 13 34.0

Seven Falls  
 iP 13 17 10  
 PP 13 18 30  
 S 13 22 58  
 SS 13 25 41  
 SSS 13 26 26  
 S<sub>c</sub>S 13 27 41  
 L 13 29 26  
 Shawinigan Falls  
 eL 13 28.7

MAY 5  
 U.S.C.G.S.  
 50N, 156 1/2E  
 Off south coast of  
 Kamchatka  
 H = 17 13 12  
 Kirkland Lake  
 eP 17 24 29 d?  
 Ottawa  
 iP 17 24 52 d  
 e 17 25 06  
 Resolute Bay  
 eP 17 21 46  
 iS 17 28 33

MAY 6  
 U.S.C.G.S.  
 50N, 155 1/2E  
 Off south coast of  
 Kamchatka  
 H = 09 02 14  
 h = 100 km  
 Kirkland Lake  
 iP 09 13 25 c  
 Ottawa  
 iP 09 13 46 c  
 S 09 23 10  
 e 09 23 44  
 Resolute Bay  
 iP 09 10 40 c  
 iPP 09 12 30  
 isS 09 17 22  
 Seven Falls  
 iS 09 22 15  
 SS 09 27 06  
 Shawinigan Falls  
 eP 09 13 48

MAY 7  
 U.S.C.G.S.  
 Peru-Brazil border  
 H = 00 23 00  
 h = 150 km  
 Kirkland Lake  
 eP 00 32 21  
 Ottawa  
 iP 00 32 01 c

MAY 7  
 U.S.C.G.S.  
 43N, 146E  
 Off east coast of Hokkaido,  
 Japan  
 H = 02 19 37  
 h = 60 km  
 Resolute Bay  
 iP 02 29 09 c

MAY 9  
 U.S.C.G.S.  
 71N, 12W  
 Near Jan Mayen Island  
 H = 14 14 32  
 Ottawa  
 eP 14 22 02 c  
 S 14 28 06  
 e 14 30 11  
 SS 14 31 00  
 Resolute Bay  
 iP 14 19 35  
 iS 14 23 52  
 L 14 26.3  
 Seven Falls  
 eS 14 27 16

MAY 9  
 U.S.C.G.S.  
 24 1/2N, 125E  
 Ryukyu Islands  
 H = 20 44 15  
 Resolute Bay  
 eP 20 56 15

DOMINION OBSERVATORIES

MAY 10		MAY 11		Resolute Bay	
Ottawa		U.S.C.G.S.		iP	14 56 19 c
iP	07 00 10 c	41N, 141E		sPP	14 59 20
		Off north coast of		PPP	15 00 13
		Honshu, Japan		iS	15 04 20
MAY 10		H = 22 50 02		i	15 04 52
U.S.C.G.S.		Resolute Bay		iScS	15 06 05
26N, 125E		iP	23 00 01 c	L	15 20.0
Ryukyu Islands				Seven Falls	
H = 07 58 48				eP	14 53 39
Resolute Bay		MAY 12		PP	14 55 09
iP	08 10 40 c	U.S.C.G.S.		PPP	14 55 32
		Near east coast of		S	14 59 21
		Mindanao, P.I.		SSS	15 02 36
		H = 06 22 14		e	15 03 36
MAY 10		Ottawa		Shawinigan Falls	
U.S.C.G.S.		iP'	06 41 18 c	eP	14 53 28 c
17 1/2S, 179W		Resolute Bay		i	14 53 30 d
Fiji Islands		e	06 35 41	eS	14 59 02
H = 14 30 38					
h = 600 km					
Ottawa		MAY 12		MAY 14	
iP'	14 48 09 d	Resolute Bay		U.S.C.G.S.	
e(SKKS)	14 54 42	e	17 50 45	36N, 137E	
				Near coast of Honshu,	
				Japan	
MAY 11				H = 22 39 25	
U.S.C.G.S.		MAY 13		h = 250 km	
Arctic ocean northwest		U.S.C.G.S.		Halifax	
of Spitsbergen		17N, 95 1/2W		iP	22 52 34 d
H = 04 26 45		Oaxaca, Mexico		pP	22 53 33
Ottawa		H = 14 46 38		sP	22 54 00
iP	04 35 24 c	h = 100 km		PP	22 56 38
Resolute Bay		Halifax		pPP	22 57 30
iP	04 30 52 c	iP	14 53 59	sPP	22 57 57
		PP	14 55 35	SKS	23 02 42
		S	14 59 51	S	23 03 36
		G	15 02.9	i	23 04 35
MAY 11		Kirkland Lake		SP	23 04 56
Ottawa		iP	14 53 15 c	(pPS)	23 05 27
iP <sub>n</sub>	17 55 47	eS	14 58 36	i	23 06 05
eS <sub>n</sub>	17 56 19	Ottawa		sSP	23 06 39
L	17 56 39	iP	14 53 09 c	SS	23 11 57
d = 330 km		i	14 53 50	Kirkland Lake	
Shawinigan Falls		PP	14 54 27	iP	22 51 59 d
i	17 55 33	PPP	14 54 52	i(pP)	22 53 25 c
i	17 56 03	iS	14 58 28	Ottawa	
		sS	14 58 56	iP	22 52 16 d
		SSS	15 01 08	PP	22 55 55

SEISMOLOGICAL BULLETIN

PPP	22 57 34	MAY 18	MAY 18
pPPP	22 58 09	U.S.C.G.S.	Halifax
SKS	23 02 25	10 1/2S, 75 1/2W	iP <sub>1</sub> 20 44 23
S	23 03 00	Central Peru	iS <sub>1</sub> 20 44 27.5
PS	23 04 16	H = 05 11 05	d = 37.5 km
PPS	23 04 50	Kirkland Lake	Probably blast
pPS	23 05 25	eP 05 21 03	
SS	23 09 28	Ottawa	
G	23 17 14	iP 05 20 44 c	MAY 19
Resolute Bay		P <sub>c</sub> P 05 21 38	U.S.C.G.S.
iP	22 49 37 d	S 05 28 20	3 1/2N, 126E
iP <sub>c</sub> P	22 50 09	Shawinigan Falls	Molucca Passage
ipP	22 50 34	eP 05 20 53	H = 06 31 05
isP	22 51 00		h = 100 km
pPP	22 53 21		Ottawa
iS	22 57 53	MAY 18	iP' 06 50 04 d
isPS	23 00 54	U.S.C.G.S.	PP 06 52 06
Seven Falls		25N, 125E	Resolute Bay
iP	22 52 15 d	Ryukyu Islands	e 06 44 48
pP	22 53 22	H = 10 13 55	
PP	22 56 03	Resolute Bay	
S	23 03 01	e 10 25 52	MAY 19
PPS	23 05 58		U.S.C.G.S.
sSS	23 11 08		46 1/2N, 7 1/2E
SSS	23 14 53	MAY 18	Southern Switzerland
Shawinigan Falls		Kirkland Lake	H = 09 34 56
iP	22 52 15 d	eP 16 02 44	Kirkland Lake
			eP 09 44.6
			Ottawa
			eP 09 44 27
MAY 15		MAY 18	
Kirkland Lake		Halifax	
e	13 16 37	iP <sub>1</sub> 16 29 06	
Ottawa		iS <sub>1</sub> 16 29 10.5	
e	13 18 47	d = 37.5	MAY 19
		Probably blast	U.S.C.G.S.
			5S, 151E
			New Britain
			H = 23 07 12
MAY 15		MAY 18	Halifax
Kirkland Lake		Halifax	iP' 23 26 29 d
eP	23 31 11	iP <sub>1</sub> 20 27 29.5	Ottawa
		iS <sub>1</sub> 20 27 35	iP' 23 26 13 c
		d = 45 km	Resolute Bay
		Probably blast	e 23 21 09
			Shawinigan Falls
			eP' 23 26 15
MAY 16		MAY 18	
Resolute Bay		Halifax	
e	03 57 02	iP <sub>1</sub> 20 34 41	MAY 20
		i 20 34 45	Kirkland Lake
		iS <sub>1</sub> 20 34 46.5	eP 02 36 23
		d = 47 km	
		Probably blast	
MAY 17		MAY 18	
Resolute Bay		Halifax	
e	17 09 10	iP <sub>1</sub> 20 34 41	
		i 20 34 45	
		iS <sub>1</sub> 20 34 46.5	
		d = 47 km	
		Probably blast	





SEISMOLOGICAL BULLETIN

MAY 26

U.S.C.G.S.  
48 1/2N, 156E  
Kurile Islands  
H = 18 57 30  
Kirkland Lake  
eP 19 08 56  
Ottawa  
eP 19 09 19 d  
Resolute Bay  
iP 19 06 13 c

MAY 28

U.S.C.G.S.  
About 400 miles off  
coast of Liberia  
H = 06 52 38  
Kirkland Lake  
eP 07 04 26  
Ottawa  
iP 07 04 04 d

MAY 29

U.S.C.G.S.  
Central Chile-Argentina  
border  
H = 14 57 36  
h = 150 km  
Kirkland Lake  
iP 15 09 47 d  
Ottawa  
iP 15 09 30 d

MAY 26

Halifax  
iP 22 11 45 c  
Ottawa  
iP 22 12 25 c  
Shawinigan Falls  
eP 22 12 10

MAY 28

U.S.C.G.S.  
Central Greece  
H = 07 43 00  
Ottawa  
iP 07 54 01 c

MAY 29

Halifax  
iP 16 41 05 c

MAY 27

U.S.C.G.S.  
32N, 131 1/2E  
Near east coast of  
Kyushu, Japan  
H = 06 50 09  
Resolute Bay  
iP 07 01 18 c

MAY 28

U.S.C.G.S.  
Off coast of Guerrero,  
Mexico  
H = 08 01 00  
Kirkland Lake  
eP 08 08 07  
Ottawa  
iP 08 08 04 c

MAY 29

Ottawa  
iP<sub>1</sub> 21 55 17.5  
iS<sub>1</sub> 21 55 28.0  
d = 85 km

MAY 27

Kirkland Lake  
eP 16 36 52  
Ottawa  
iP 16 36 59 c  
i 16 38 30  
i 16 39 45

MAY 28

Resolute Bay  
e 10 15 38

MAY 30

U.S.C.G.S.  
11 1/2S, 78W  
Near coast of Peru  
H = 04 41 00  
Ottawa  
iP 04 50 48 d

MAY 27

Halifax  
eP 20 44 19  
i 20 44 21

MAY 29

U.S.C.G.S.  
18S, 178W  
Fiji Islands  
H = 05 37 21  
h = 550 km  
Ottawa  
iP' 05 54 57 c  
PP 05 55 46  
sPS 06 08 04  
SS 06 10 44

MAY 30

Halifax  
iP<sub>n</sub> 11 18 34.5  
iS<sub>1</sub> 11 18 58.0  
G 11 19 00  
d = 170 km

MAY 30

U.S.C.G.S.  
Celebes Sea  
H = 19 46 56  
Kirkland Lake  
eP' 20 05 37 c?  
Ottawa  
iP' 20 05 45 c  
iPKS 20 08 59

DOMINION OBSERVATORIES

MAY 31		JUNE 2	Resolute Bay
U.S.C.G.S.		Kirkland Lake	iP 07 02 26 c
8S, 118 1/2E		eP 19 47 41	iS 07 12 06
Flores Sea			L 07 27 00
H = 15 48 48			Seven Falls
h = 150 km		JUNE 3	eS 07 07 12
Halifax		Halifax	e 07 09 14
eP' 16 08 11 d		iP 21 33 10 d	SS 07 10 47
PP 16 11 30			L 07 13 16
SS 16 30 00			Shawinigan Falls
Kirkland Lake		JUNE 4	eP 06 59 38
eP' 16 08 02		U.S.C.G.S.	
PP 16 10 48		45N, 148E	
PKS 16 11 34		Kurile Islands	JUNE 4
Ottawa		H = 00 45 18	Ottawa
iP' 16 08 03 c		Kirkland Lake	iP 07 32 50
i 16 08 08		eP 00 57 18	
PP 16 10 52		Ottawa	
PKS 16 11 41		iP 00 57 38 c	JUNE 4
i 16 16 15		Resolute Bay	U.S.C.G.S.
SS 16 19 28		iP 00 54 39 c	Java Sea
			H = 10 41 37
			Ottawa
MAY 31		JUNE 4	eP' 11 01 04 c
Ottawa		U.S.C.G.S.	
iP 22 38 14 c		1/2S, 91 1/2W	
		Galapagos Islands	JUNE 4
		H = 06 50 42	U.S.C.G.S.
JUNE 1		Halifax	Gulf of California
U.S.C.G.S.		iP 06 59 48 c	H = 20 42 25
12S, 74W		ePP 07 01 48	Halifax
Central Peru		ePPP 07 02 56	eS 16 16 00
H = 20 32 38		iPS 07 07 14	SS 16 19.1
Halifax		iPPS 07 07 29	e1 16 22.0
e 20 42 26		S <sub>C</sub> S 07 09 42	Kirkland Lake
iP <sub>C</sub> P 20 43 22		SSS 07 12 28	eP 16 08 22
Kirkland Lake		Kirkland Lake	eL 16 18.8
eP 20 42 46 c		iP 06 59 35 c	Ottawa
Ottawa		e 07 00 56	eP 16 08 31 d
iP 20 42 26 c		e 07 01 32	S 16 14 00
iP <sub>C</sub> P 20 43 04		Ottawa	SSS 16 16 30
S 20 50 18		iP 06 59 21 c	S <sub>C</sub> S 16 18 50
Shawinigan Falls		P <sub>C</sub> P 07 00 33	L 16 19 10
eP 20 42 35		PP 07 01 17	Resolute Bay
		PPP 07 02 06	eL 16 28 00
		S 07 06 24	
		PS 07 06 38	
		SS 07 10 00	
		G 07 12 00	

SEISMOLOGICAL BULLETIN

JUNE 4

U.S.C.G.S.  
Kermadec Islands  
H = 16 56 46  
Halifax  
iP' 17 15 51 c  
Ottawa  
iP' 17 15 36 c

JUNE 4

U.S.C.G.S.  
Gulf of California  
H = 20 42 25  
Halifax  
eL 21 03.0  
Kirkland Lake  
eL 21 00.2  
Ottawa  
eP 20 49 08 d  
e 20 52 07  
L 20 59 40  
Seven Falls  
e 21 01 56

JUNE 4

Ottawa  
eP 21 21 36 d

JUNE 5

U.S.C.G.S.  
18N, 102 1/2W  
Near coast of Guerrero,  
Mexico  
H = 01 48 20  
Halifax  
iP 01 56 11 d  
Kirkland Lake  
eP 01 55 17  
Ottawa  
iP 01 55 16 c  
e 01 56 38  
Resolute Bay  
e 01 59 21  
eL 02 19.0

JUNE 5

U.S.C.G.S.  
22S, 69W  
Northern Chile  
H = 04 31 26  
h = 200 km  
Kirkland Lake  
eP 04 42 25 c?  
Ottawa  
iP 04 42 05 c

JUNE 5

U.S.C.G.S.  
36N, 139 1/2E  
Central Honshu, Japan  
H = 13 14 24  
h = 60 km  
Resolute Bay  
iP 13 24 56 c

JUNE 5

U.S.C.G.S.  
39 1/2N, 21 1/2E  
Central Greece  
H = 14 05 32  
Halifax  
eP 14 15 45

JUNE 5

Halifax  
eP<sub>1</sub> 20 51 47  
iS<sub>1</sub> 20 51 50  
d = 25 km

JUNE 5

Halifax  
e 21 11 54  
Ottawa  
iP 21 11 39 d

JUNE 5

Halifax  
iP 21 15 06 c

JUNE 6

U.S.C.G.S.  
3 1/2S, 136 1/2E  
Western New Guinea  
H = 16 50 33  
Halifax  
eP' 17 09 57  
PKS 17 13 33  
SKKS 17 19 28  
SS 17 30 24  
SSS 17 35 44

Kirkland Lake  
eP' 17 09 45  
Ottawa  
iP' 17 09 48 d  
i 17 09 54  
PP 17 11 58  
PKS 17 13 15  
PPP 17 14 30  
SS 17 29 26

Resolute Bay  
eP 17 04 37  
iS 17 15 18  
eL 17 45 00

Seven Falls  
ePKS 17 13 20  
SKS 17 17 16  
PS 17 22 15  
SS 17 29 15  
L 17 44 09

JUNE 6

U.S.C.G.S.  
32N, 140E  
Off south coast of  
Honshu, Japan  
H = 21 58 37  
Ottawa  
eP 22 12 07 d  
Resolute Bay  
iP 22 09 35 c

JUNE 7

U.S.C.G.S.  
3 1/2S, 152 1/2E  
New Britain region  
H = 10 15 33  
h = 540 km

DOMINION OBSERVATORIES

Halifax		JUNE 9		JUNE 11
iP'	10 33 44 c	Halifax		U.S.C.G.S.
PP	10 35 43	iP <sub>1</sub>	17 00 12.5	52N, 172 1/2E
e	10 36 31	i	17 00 16.5	Near Islands, Aleutian
e	10 42 14	iS <sub>1</sub>	17 00 17.2	Isl.
SS	10 52 33			H = 16 55 45
Kirkland Lake				h = 60 km
eP'	10 33 33	JUNE 9		Halifax
Ottawa		Ottawa		iP
iP'	10 33 39 d	iP	21 39 26 d	17 07 07.5 c
PP	10 35 13			eL
i	10 35 29			17 32.0
pPP	10 36 28	JUNE 10		Kirkland Lake
sPP	10 37 12	U.S.C.G.S.		eP
SKKS	10 41 28	33 1/2N, 38W		17 06 09 c?
S	10 42 28	North Atlantic Ocean		Ottawa
PS	10 44 28	H = 04 39 38		iP
SPP	10 45 40	Halifax		17 06 32 c
PPS	10 46 44	eP	04 44 32	Resolute Bay
SS	10 51 14	Kirkland Lake		iP
sSS	10 53 38	eP	04 46 29	17 03 29 c
Resolute Bay		Ottawa		Seven Falls
iP	10 28 30 c	iP	04 46 01 d	eP
pP	10 30 20			17 06 38
eP'	10 32 21			
ePP	10 32 40	JUNE 10		JUNE 12
iSKS	10 38 23	Halifax		U.S.C.G.S.
iS	10 39 22	iP <sub>1</sub>	15 32 24	18S, 179W
pS	10 41 48			Fiji Islands
Seven Falls				H = 05 35 13
e	10 45 49	JUNE 10		h = 550 km
SS	10 50 55	Halifax		Halifax
Shawinigan Falls		iP <sub>1</sub>	18 54 27	iP'
iP'	10 33 37 d	iS <sub>1</sub>	18 54 29.2	05 53 05 c
		d = 20 km		Kirkland Lake
				e
				05 52 44
				Ottawa
				iP'
				05 52 49 d
				PP
				05 53 36
				i
				05 53 46
				pPP
				05 55 32
JUNE 8		JUNE 10		JUNE 12
Halifax		U.S.C.G.S.		Kirkland Lake
eL	17 27.0	29 1/2N, 139 1/2E		eP
		South of Honshu		19 42 41 d
		H = 22 37 56		
		h = 400 km		JUNE 13
JUNE 9		Resolute Bay		Kirkland Lake
U.S.C.G.S.		iP	22 48 35 c	eP
18 1/2N, 121 1/2E		iS	22 57 16	01 04 25
Luzon, P.I.		SP	22 57 58	
H = 10 02 50				JUNE 13
Resolute Bay				Kirkland Lake
iP	10 15 29 c			e(P)
				17 41 10

SEISMOLOGICAL BULLETIN

Ottawa		PP	13 40 55	JUNE 16	
e(P)	17 44 36 d	PPP	13 41 14	iP <sub>1</sub>	15 34 29.5
		i	13 43 52	iS <sub>1</sub>	15 34 32.5
		iS	13 45 59		d = 25 km
JUNE 14		sS(?)	13 46 55		
Kirkland Lake		SS	13 49 40		
eP	10 14 23	G	13 51 00	JUNE 16	
		Kirkland Lake		Halifax	
		iP	13 39 13 d	eP	21 46 50
JUNE 14		e(pP)	13 39 30		
Halifax		i(sP)	13 39 43		
iP <sub>1</sub>	15 06 43	Ottawa		JUNE 17	
iS <sub>1</sub>	15 06 45	iP	13 38 50 d	U.S.C.G.S.	
d = 17 km		sP	13 39 20	56N, 154 1/2W	
		P <sub>c</sub> P	13 40 01	Off south coast of	
		PP	13 40 55	Kodiak Island	
JUNE 14		sPP	13 41 20	H = 01 42 22	
U.S.C.G.S.		S <sub>c</sub> P	13 43 40	Halifax	
Sandwich Islands		P <sub>c</sub> S	13 43 50	iP	01 51 53 d
H = 16 18 45		S	13 45 56	S	01 59 36
Kirkland Lake		sS	13 46 45	SS	02 03 44
eP'	16 37 30	S <sub>c</sub> S	13 48 17	SSS	02 06 00
Ottawa		SS	13 49 25	Kirkland Lake	
iP'	16 37 22 d	sSS	13 50 00	iP	01 50 35 d
Resolute Bay		G	13 50 50	e	01 52 15
iP'	16 38 16	Resolute Bay		eL	02 06 35
		iP	13 42 02 d	Ottawa	
		i	13 42 33	iP	01 51 05 d
JUNE 14		iS	13 51 58	P <sub>c</sub> P	01 52 32
Resolute Bay		iPS	13 52 57	PP	01 52 58
iP	13 40 31 c	Seven Falls		PPP	01 53 52
		iP	13 39 05 d	S	01 58 04
		sP	13 39 37	PS	01 58 18
JUNE 14		PP	13 41 05	S <sub>c</sub> S	02 02 01
Kirkland Lake		sPP	13 41 34	Resolute Bay	
eP	19 52 56	e	13 41 50	iP	01 48 25 d
		S	13 46 27	iPP	01 49 21
		sS	13 47 17	iS	01 53 16
JUNE 15		Shawinigan Falls		L	01 55 00
U.S.C.G.S.		iP	13 39 01	Seven Falls	
5S, 77W				iP	01 51 14 d
Northern Peru				P <sub>c</sub> P	01 52 36
H = 13 29 59		JUNE 16		PP	01 53 10
h = 100 km		iP <sub>1</sub>	14 37 16	i	01 53 16
Halifax		iS <sub>1</sub>	14 37 19	S	01 58 20
iP	13 38 53 d	d = 25 km		S <sub>c</sub> S	02 01 02
pP	13 39 20			e	02 02 22
e	13 39 52			e	02 03 04
P <sub>c</sub> P	13 40 07			L	02 07.1

DOMINION OBSERVATORIES

Shawinigan Falls	Seven Falls	Halifax
iP 01 51 10	eP' 18 14 01 d	ePP 21 08 13 d
	i 18 14 10	Ottawa
	ePP 18 16 50	iP' 21 04 48 d
JUNE 17	e 18 17 02	iPP 21 07 48
U.S.C.G.S.	iPKS 18 17 40	Seven Falls
Kodiak Isl. aftershock	i 18 17 44	ePP 21 07 55
H = 18 39 03		
Resolute Bay		
e 18 45 04	JUNE 18	JUNE 20
	Halifax	U.S.C.G.S.
	eP 20 54 34 c?	1/2N, 18W
JUNE 17		Mid Atlantic Ocean
Ottawa	JUNE 18	H = 22 07 54
iP <sub>n</sub> 19 46 21	Halifax	Kirkland Lake
S <sub>n</sub> 19 46 45	iP 21 03 19	eP 22 19 20
L 19 46 56	i 21 03 34.5	iP <sub>c</sub> P 22 19 42 d
d = 230 km	i 21 03 43	Ottawa
H = 19 45 47	i 21 03 45.5	iP 22 18 55 d
	Local Earthquake ?	P <sub>c</sub> P 22 19 18
JUNE 18		
U.S.C.G.S.	JUNE 18	JUNE 20
Kodiak Isl. aftershock	Halifax	Ottawa
H = 02 01 46	i 21 20 49 c	eP 22 47 26
Resolute Bay		
e 02 07 55		
JUNE 18	JUNE 19	JUNE 21
Halifax	U.S.C.G.S.	U.S.C.G.S.
i 12 36 36.5	30 1/2N, 130E	23S, 68 1/2W
i 12 36 38.5	Off south coast of	Northern Chile
i 12 36 48	Kyushu, Japan	H = 01 48 44
i 12 36 52.5	H = 01 56 30	h = 150 km
i 12 36 59	Resolute Bay	Halifax
	iP 02 07 52 c	iP 01 59 27 c
	eS 02 17 14	i 01 59 39
JUNE 18		e 01 59 56
U.S.C.G.S.	JUNE 20	e 02 00 03
Sunda Strait	Kirkland Lake	pP 02 00 18
H = 17 54 40	e 05 32 49	sP 02 00 42
Kirkland Lake	e 05 33 19 c	e 02 00 53
eP' 18 14 08		iS 02 08 10
ePP 18 16 35	JUNE 20	sS 02 09 15
i(PKS) 18 17 37 d	U.S.C.G.S.	sSS 02 13 45
Ottawa	5S, 146E	Kirkland Lake
iP' 18 14 11	Near north coast of	eP 01 59 53
PP 18 17 13	New Guinea	eS 02 09 03
PKS 18 17 45	H = 20 45 47	Ottawa
	h = 60 km	iP 01 59 33 c
		P <sub>c</sub> P 02 00 02
		i 02 00 15
		i 02 01 42





DOMINION OBSERVATORIES

Ottawa		JUNE 30		Halifax	
iP	01 21 21 c	U.S.C.G.S.		iP'	03 04 11.5 c
		24N, 109W		PP	03 05 40
		Gulf of California		PS	03 15 31
JUNE 30		H = 15 18 20		PPS	03 17 35
Kirkland Lake		Kirkland Lake		SS	03 22 30
e	07 44 32	eP	15 25 01	e	03 31 50
Ottawa		e(S <sub>C</sub> S)	15 36 05	Kirkland Lake	
e(S <sub>n</sub> )	07 42 41.0	Ottawa		e	03 03.8
e(S <sub>1</sub> S <sub>1</sub> )	07 43 02.0	iP	15 25 11 d	e	03 04.8
i	07 43 15.5			Ottawa	
i	07 43 17.0			iP'	03 03 59 c
i	07 43 19.0	JUNE 30		PP	03 05 19
d = 405 km		Kirkland Lake		e	03 06 30
Seven Falls		e	15 50 14	PPP	03 08 06
iP <sub>1</sub>	07 41 16			e	03 10 16
iS <sub>1</sub>	07 41 23			SKKS	03 12 14
d = 52 km		JUNE 30		PS	03 15 10
H = 07 41 07		Ottawa		SS	03 21 42
Shawinigan Falls		iP	22 29 59 d	SSS	03 26 00
iP	07 41 41			Resolute Bay	
i	07 42 04			eP	02 58 05
i	07 42 06	JULY 1		ePP	03 01 36
		U.S.C.G.S.		eS	03 08 34
JUNE 30		52N, 159 1/2E		eL	03 37.2
U.S.C.G.S.		Off east coast of		Seven Falls	
7N, 37E		Kamchatka		eP'	03 03 57
Southwestern Ethiopia		H = 03 15 16		PP	03 05 05
H = 13 26 50		Ottawa		PPP	03 07 32
Halifax		iP	03 26 40 d	SS	03 21 11
e(SS)	13 57 32	Resolute Bay		G	03 33 16
eL	14 11 28	eP	03 23 31	Shawinigan Falls	
				eP'	03 04 01
		JULY 1			
JUNE 30		U.S.C.G.S.		JULY 2	
U.S.C.G.S.		23 1/2N, 122E		U.S.C.G.S.	
51 1/2N, 158E		Off east coast of		5S, 77W	
Near southeast coast of		Formosa		Northern Peru	
Kamchatka		H = 05 23 57		H = 09 06 19	
H = 15 05 26		Resolute Bay		Kirkland Lake	
Halifax		iP	05 36 04	eP	09 15 47 c
eL	15 40.7			Ottawa	
Ottawa		JULY 2		iP	09 15 26 c
iP	15 16 54 d	U.S.C.G.S.		eS	09 22 36
Resolute Bay		13N, 124 1/2E		Seven Falls	
iP	15 13 38 d	Southeastern Luzon, P.I.		eP	09 15 40
L	15 45	H = 02 45 08			

SEISMOLOGICAL BULLETIN

<b>JULY 2</b>	i	23 04 15	Seven Falls
U.S.C.G.S.	i	23 09 05	e 16 47 08
38.2N, 116.4W	sSS	23 12 30	
South central Nevada	Kirkland Lake		
H = 10 43 13	eP'	22 50 34	<b>JULY 4</b>
Ottawa	ipP'	22 50 45 c	Seven Falls
eP 10 49 30	i	22 50 46 d	iP <sub>n</sub> 18 36 15.5
e 10 59 02	isP'	22 50 48 c	i 18 36 17.5
Resolute Bay	ePP	22 53 32 c?	S <sub>n</sub> 18 36 32.0
e 11 03 55	Ottawa		i <sub>n</sub> 18 36 36.0
	eP'	22 50 40 c	d = 140 km
	i	22 50 45	H = 18 35 50.5
<b>JULY 2</b>	i	22 50 52	
Halifax	PP	22 53 48	
e 21 24 22 c	PKS	22 54 25	<b>JULY 5</b>
	PPP	22 56 44	Halifax
	PS	23 04 08	iP <sub>1</sub> 01 30 46.5
<b>JULY 3</b>	PPS	23 04 36	iS <sub>1</sub> 01 30 48.0
U.S.C.G.S.	Resolute Bay		d = 17 km
3 1/2S, 29E	eP	22 45 53	
Belgian Congo	iPP	22 50 32	<b>JULY 5</b>
H = 00 32 53	ePPP	22 52 53	U.S.C.G.S.
Halifax	Seven Falls		50 1/2N, 156 1/2E
eL 01 18	eP'	22 50 39 c	Near south coast of
	PP	22 53 40	Kamchatka
	PKS	22 54 08	H = 13 52 18
<b>JULY 3</b>	i	22 54 38	h = 60 km
U.S.C.G.S.	SKS	22 57 43	Halifax
19 1/2N, 121 1/2E	SS	23 11 51	iP 14 04 20
Luzon, P.I.	SSS	23 17 45	epP 14 04 36
H = 21 15 00	Shawinigan Falls		esP 14 04 47
Resolute Bay	eP'	22 50 42	Ottawa
eP 21 27 29 c	e	22 53 23	iP 14 03 51 d
eS 21 37 46			PP 14 06 38
	<b>JULY 4</b>		Resolute Bay
<b>JULY 3</b>	U.S.C.G.S.		eP 14 00 43 d
U.S.C.G.S.	44.9N, 110.8W		eS 14 07 26
6 1/2S, 105 1/2E	Yellowstone Park		eSS 14 10 54
Near southwest coast	H = 16 32 50		Seven Falls
of Java	Kirkland Lake		iP 14 03 53 d
H = 22 31 25	eP	16 37 45	i 14 04 06
h = 100 km	e(S)	16 43 57	
Halifax	Ottawa		<b>JULY 5</b>
eP' 22 50 45	eP	16 38 31	Halifax
i 22 50 52	PP	16 39 08	iP <sub>1</sub> 22 14 50
SKP 22 53 50	e	16 44 08	iS <sub>1</sub> 22 14 51.5
sPP 22 54 30	e	16 45 40	d = 15 km
pPKS 22 54 50	Resolute Bay		
	e	16 48.7	

DOMINION OBSERVATORIES

<b>JULY 6</b>	S	08 26 34	<b>JULY 6</b>
U.S.C.G.S.	e	08 28 16	U.S.C.G.S.
3S, 148E	e	08 30 56	Fallon, Nevada, after-
Bismarck Sea	SSS	08 34 44	shock
H = 04 00 13			H = 13 15 11
Halifax			Resolute Bay
eL 04 59			eP 13 22 20
Ottawa	<b>JULY 6</b>		
eP' 04 19 13	U.S.C.G.S.		
PP 04 20 50	46N, 153E		
Seven Falls	Kurile Islands		<b>JULY 6</b>
eP' 04 19 17	H = 10 14 00		U.S.C.G.S.
	Resolute Bay		Arctic ocean, 200
	iP 10 23 10		miles west of
			Spitzbergen
			H = 15 47 02
<b>JULY 6</b>	<b>JULY 6</b>		Resolute Bay
U.S.C.G.S.	U.S.C.G.S.		eP 15 51 24
46 1/2N, 153 1/2E	39 1/2N, 118 1/2W		
Kurile Islands	Near Fallon, Nevada		<b>JULY 6</b>
H = 08 04 42	H = 11 13 19		U.S.C.G.S.
h = 100 km			Near coast of
Halifax	Halifax		Guatemala
iP 08 17 04 c	iP 11 21 00 c		H = 15 56 25
pP 08 17 24	PP 11 22 37		h = 150 km
sPP 18 20 56	S 11 27 10		Ottawa
PPP 18 22 12	SS 11 29 06		eP 16 03 00 d
S 18 27 24	SSS 11 30 13		
SS 18 33 02	eL 11 32		
SSS 18 36 03	Kirkland Lake		
G 18 39	eP 11 19 18 d?		
Kirkland Lake	Ottawa		<b>JULY 6</b>
eP 08 16 14 c?	eP 11 19 44 c		U.S.C.G.S.
e 08 16 23 c	Resolute Bay		Fallon, Nevada, after-
Ottawa	eP 11 20 29 c		shock
eP 08 16 36 d	eS 11 26 18		H = 22 07 41
PP 08 19 36	e 11 32 44		Halifax
PPP 08 21 31	Seven Falls		iP 22 15 24 c
Resolute Bay	iP 11 20 12 c		PP 22 17 00
eP 08 13 36 c	i 11 20 16		iS 22 21 30
esP 08 14 20	PP 11 21 35		iSS 22 24 34
iPP 08 15 33	P <sub>c</sub> P 11 22 33		eL 22 27
ePPP 08 16 41	i 11 24 30		Kirkland Lake
iS 08 20 55	S 11 25 49		eP 22 13 44 d?
eS <sub>c</sub> S 08 23 15	SS 11 28 25		eS 22 19 40
iSS 08 24 28	SSS 11 29 03		Ottawa
eL 08 25	S <sub>c</sub> S 11 30 15		eP 22 14 08
Seven Falls	L 11 31.2		PP 22 15 05
eP 08 16 35 d	Shawinigan Falls		i 22 16 17
i 08 16 38	eP 11 20 02		P <sub>c</sub> P 22 16 58
PP 08 16 34	e 11 28 18		S 22 19 22
	(S <sub>c</sub> S) 11 30 44		SS 22 21 10
	e 11 31 06		

SEISMOLOGICAL BULLETIN

SSS	22 21 40	JULY 8	Ottawa
e	22 24 00	U.S.C.G.S.	iP 18 41 17 c
S <sub>c</sub> S	22 24 32	Fallon, Nevada,	PP 18 44 42
Resolute Bay		aftershock	Resolute Bay
eP	22 14 54 c	H = 19 31 57	iP 18 38 28
ePP	22 16 28	Halifax	eP <sub>c</sub> P 18 39 14
iS	22 20 43	eP 19 39 40	ePP 18 40 49
eSS	22 22 49	eL 19 53	Seven Falls
eL	22 25.5		iP 18 41 16 c
Seven Falls		JULY 8	
eP	22 14 35 d	Resolute Bay	JULY 10
PP	22 15 55	e 19 51 28	U.S.C.G.S.
S	22 20 09	i 19 52 36	38S, 73 1/2W
SSS	22 22 42	e 19 53 59	Near coast of Central
S <sub>c</sub> S	22 25 34		Chile
L	22 25 54		H = 16 00 40
Shawinigan Falls		JULY 9	Halifax
eP	22 14 25	U.S.C.G.S.	e 16 13 08
S	22 19 50	16S, 174 1/2W	Kirkland Lake
SS	22 22 08	Tonga Island	eP 16 13 24 d?
S <sub>c</sub> S	22 25 14	H = 12 20 38	i(pP) 16 13 32 c
		h = 100 km	Ottawa
		Resolute Bay	iP 16 13 09 d
		eS 12 45 02	i 16 13 17
		eSP 12 46 08	
JULY 7			JULY 10
U.S.C.G.S.			Halifax
Northern Kurile Islands			iP <sub>1</sub> 19 06 09
H = 01 21 24			iS <sub>1</sub> 19 06 13
Ottawa			d = 35 km
eP 01 33 12		JULY 9	
Resolute Bay		U.S.C.G.S.	
eP 01 30 21		43 1/2N, 147E	
		Off east coast of	
		Hokkaido, Japan	
		H = 15 38 18	
JULY 8		Ottawa	JULY 10
Resolute Bay		eP 15 50 48	U.S.C.G.S.
e 02 33 09		Resolute Bay	37N, 70 1/2E
e 02 34 19		eP 15 47 53 d	Hindu Kush
			h = 200 km
			H = 22 56 53
JULY 8		JULY 9	Halifax
Halifax		U.S.C.G.S.	iP 23 09 29 c
iP <sub>n</sub> 07 25 49.5		41N, 138 1/2E	i 23 13 01
S <sub>1</sub> P <sub>n</sub> P <sub>1</sub> 07 25 52.5		Off northwest coast of	Kirkland Lake
iS <sub>n</sub> 07 26 09.5		Honshu, Japan	eP 23 09 39 c?
iS <sub>1</sub> 07 26 12.5		H = 18 28 22	Ottawa
iS <sub>1</sub> S <sub>1</sub> 07 26 14		Halifax	eP 23 09 46 d
d = 175 km		iP 18 41 37 c	PP 23 13 28
		Kirkland Lake	
		iP 18 41 00 c	

DOMINION OBSERVATORIES

Resolute Bay		JULY 13		JULY 16	
iP	23 07 36	U.S.C.G.S.		Ottawa	
iP <sub>c</sub> P	23 07 49	Northern Kurile		e	09 26 12
esP	23 08 46	Islands			
eS	23 16 25	H = 22 07 40			
		Ottawa		JULY 16	
		eP	22 19 22	U.S.C.G.S.	
JULY 11		Resolute Bay		40N, 144 1/2E	
Ottawa		eP	22 16 17	Off east coast of	
e	05 15 06	eS	22 23 16	Honshu, Japan	
e	05 16 04			H = 12 41 38	
		JULY 15		Kirkland Lake	
JULY 12		U.S.C.G.S.		eP	12 54 11
U.S.C.G.S.		13S, 177W		Ottawa	
46N, 153E		Wallis Island region		iP	12 54 29 c
Kurile Islands		H = 00 03 44		Resolute Bay	
H = 17 30 10		Halifax		eP	12 51 42 d
Resolute Bay		eL	00 54		
eP	17 41 18 d	Resolute Bay		JULY 17	
eS	17 48 40	eS	00 29 30	Halifax	
		e	00 33 39	iP <sub>1</sub>	23 33 19
JULY 13		eSS	00 36 19	iS <sub>1</sub>	23 33 21
U.S.C.G.S.		eSSS	00 49 59	d = 17 km	
3S, 151E		G	00 53.1		
New Britain region				JULY 18	
H = 08 04 44		JULY 15		Ottawa	
Halifax		U.S.C.G.S.		eP	00 51 26 d
e	08 24.0	54N, 138W			
e(SSS)	08 57	Queen Charlotte		JULY 18	
eG	09 07	Islands region		U.S.C.G.S.	
Ottawa		H = 13 24 35		Revilla Gigedo Islands	
iP'	08 23 46 c	Ottawa		region	
i	08 23 54	e	13 44 01	H = 00 56 50	
PP	08 25 13	L	13 46 40	Ottawa	
SKKS	08 32 04	Resolute Bay		eP	01 04 06 c
SS	08 41 00	e	13 38 17		
SSS	08 45.5	e	13 38 28		
Resolute Bay		Seven Falls		JULY 18	
eP	08 18 34	eL	13 44 49	Resolute Bay	
L	08 57.7	Shawinigan Falls		e	01 28 12
Seven Falls		e	13 44 29		
eP'	08 23 50 c				
		JULY 16		JULY 18	
		Ottawa		U.S.C.G.S.	
		eP	03 11 31 c	55N, 161 1/2E	
				Near east coast of	
				Kamchatka	
				H = 06 34 35	

SEISMOLOGICAL BULLETIN

Halifax		JULY 18	Ottawa
iP	06 46 11 c	U.S.C.G.S.	eP 02 26 12 d
eL	07 10	37 1/2N, 23E	Seven Falls
Kirkland Lake		Near south coast of	eP 02 26 22 d
iP	06 45 17 c	Greece	
Ottawa		H = 13 18 55	
iP	06 45 41 c	Ottawa	JULY 19
PP	06 48 04	eP 13 30 08 d	Halifax
Resolute Bay			iP <sub>1</sub> 21 08 46.5
eP	06 42 22 c		iS <sub>1</sub> 21 08 48.5
ePP	06 43 57	JULY 18	d = 17 km
eP <sub>C</sub> P	06 44 21	U.S.C.G.S.	
eS	06 48 33	38 1/2N, 20 1/2E	
eL	06 54.8	Near west coast of	JULY 20
Seven Falls		Greece	Halifax
eP	06 45 43	H = 14 42 38	eP 07 16 34
		Halifax	Kirkland Lake
		eP 14 52 50 d	eP 07 17 44
JULY 18		Ottawa	Ottawa
U.S.C.G.S.		eP 14 53 37 d	iP 07 17 23 d
35 1/2N, 140 1/2E		Seven Falls	Seven Falls
Near east coast of		eP 14 53 11 c	eP 07 17 08 d
Honshu, Japan			
H = 09 07 44			
Halifax		JULY 18	JULY 20
eS	09 32 29	U.S.C.G.S.	Ottawa
eL	09 47	30S, 180	iP 11 16 08 c
Kirkland Lake		Kermadec Islands	
eP	09 20 33	H = 19 53 22	
Ottawa		h = 400 km	JULY 20
iP	09 20 51 c	Ottawa	Ottawa
PP	09 24 24	eP' 20 11 30 d	i 17 56 07 c
PPP	09 26 29	Seven Falls	
SKS	09 31 20	eP' 20 11 37 d	
S	09 31 48		JULY 20
PS	09 33 00		Ottawa
SS	09 38 08		e 19 25 25
Resolute Bay		JULY 19	
eP	09 18 12	Seven Falls	
ePP	09 20 44	e(P) 00 20 03	
ePPP	09 21 47	i 00 20 12	JULY 20
eS	09 26 48		Ottawa
iS <sub>C</sub> S	09 28 03	JULY 19	iP <sub>n</sub> 19 59 44.0
eSS	09 31 03	U.S.C.G.S.	P <sub>1</sub> P <sub>1</sub> 19 59 46.0
Seven Falls		Near coast of northern	S <sub>n</sub> 20 00 02.0
eP	09 20 55	Chile	i 20 00 03.0
		H = 02 15 16	S <sub>1</sub> 20 00 04.5
		h = 60 km	L 20 00 19.0
			d = 157 km
			H = 19 59 19



DOMINION OBSERVATORIES

<b>JULY 20</b>		<b>JULY 23</b>		<b>JULY 23</b>	
Kirkland Lake		U.S.C.G.S.		Halifax	
eP 22 29 35 c		30 1/2S, 71 1/2W		eP 20 46 41	
Ottawa		Central Chile		e 20 47 10	
eP 22 29 21 d		H = 04 33 30		Ottawa	
Seven Falls		h = 60 km		iP 20 46 47 d	
e 22 29 47		Halifax		i 20 47 16	
		eS 04 54 46			
		eG 05 04 30			
<b>JULY 21</b>		Kirkland Lake		<b>JULY 24</b>	
U.S.C.G.S.		eP 04 45 30 c?		U.S.C.G.S.	
27 1/2N, 101E		i 04 45 31.5 d		New Hebrides Isl.	
Szechwan province,		Ottawa		H = 09 41 16	
China		iP 04 45 13 c		Ottawa	
H = 04 38 51		i 04 47 24		eP' 10 00 07 d	
Resolute Bay		PP 04 48 14			
eL 05.3		S 04 54 52			
F 05.8		S <sub>c</sub> S 04 55 14		<b>JULY 24</b>	
		PPS 04 55 46		Ottawa	
		Resolute Bay		e 12 45 12	
<b>JULY 21</b>		e(PP) 04 52 02			
Ottawa		eS 04 59 39		<b>JULY 25</b>	
iP <sub>n</sub> 19 57 41		epPS 05 01 28		U.S.C.G.S.	
S <sub>n</sub> 19 58 05		eL 05 06.2		10N, 72 1/2W	
L 19 58 16		Seven Falls		Northwestern Venezuela	
d = 230 km		iP 04 45 22 c		H = 11 00 15	
H = 19 57 07		pP 04 45 33		Kirkland Lake	
		S 04 55 09		eP 11 07 42	
		S <sub>c</sub> S 04 55 32		Ottawa	
<b>JULY 22</b>		Shawinigan Falls		iP 11 07 15 d	
Seven Falls		iP 04 45 19		i 11 07 29	
iP <sub>1</sub> 07 34 51.5					
P <sub>1</sub> P <sub>1</sub> 07 34 53.5					
S <sub>1</sub> 07 35 02.5		<b>JULY 23</b>		<b>JULY 25</b>	
S <sub>n</sub> 07 35 05.5		Ottawa		Resolute Bay	
d = 90 km		eP 14 14 48		e 15 10.5	
				i 15 10 37	
				e 15 12 51	
<b>JULY 22</b>		<b>JULY 23</b>			
Ottawa		Ottawa		<b>JULY 26</b>	
iP 12 23 10 d		iP <sub>n</sub> 19 57 36.5		Ottawa	
		i 19 57 37.5		e 00 59 40	
		S <sub>n</sub> 19 58 01.0			
<b>JULY 22</b>		L 19 58 10.0			
Ottawa				<b>JULY 26</b>	
iP 18 27 46 d		<b>JULY 23</b>		Ottawa	
i 18 33 30		Ottawa		e 08 58 08	
		e(P) 20 31 06		e 09 08 44	

SEISMOLOGICAL BULLETIN

JULY 26	SKS	20 38 48	Shawinigan Falls
Ottawa	i	20 39 00	eP 22 17 50
e 15 55 39	PPS	20 40 02	
	SS	20 44 20	
	Resolute Bay		JULY 27
JULY 26	eSKS	20 41 14	U.S.C.G.S.
Ottawa	eS	20 43 16	12 1/2N, 44W
e 16 23 07	ePS	20 45 10	Mid Atlantic Ocean,
	eSSS	20 56 04	aftershock
	eL	21.0	H = 06 46 44
JULY 26	Seven Falls		Halifax
Ottawa	eP	20 28 37	eL 07 04
i 17 17 48 d	S	20 39 13	Kirkland Lake
	i	20 39 19	eP 06 55 19
	Shawinigan Falls		Ottawa
JULY 26	iP	20 28 33 c	iP 06 54 47 d
Kirkland Lake	(SKS)	20 38 51	PP 06 56 35
eP 18 16 31			PPP 06 57 07
			S 07 01 18
			SS 07 04 50
			L 07 07.5
JULY 26	U.S.C.G.S.		Seven Falls
U.S.C.G.S.	12 1/2N, 44W		eP 06 54 36 d
1 1/2S, 79W	Mid Atlantic Ocean		PP 06 56 14
Central Ecuador	H = 22 09 57		PPP 06 56 43
H = 19 09 00	Halifax		
Ottawa	eP	22 17 08	JULY 27
iP 19 17 29 d.	eS	22 23 00	Ottawa
Seven Falls	eL	22 27 00	iP <sub>n</sub> 19 27 54
eP 19 17 47	Kirkland Lake		S <sub>n</sub> 19 28 26
	eP	22 18 31	L 19 28 46
	Ottawa		d = 315 km
JULY 26	eP	22 18 00	H = 19 27 09
U.S.C.G.S.	PP	22 19 43	Seven Falls
41S, 73W	i	22 20 07	i(P <sub>n</sub> ) 19 27 58
Central Chile	PPP	22 20 30	Shawinigan Falls
H = 20 15 45	S	22 24 35	iP <sub>n</sub> 19 27 45.6
Halifax	SS	22 28 00	iS <sub>n</sub> 19 28 09.8
iP 20 28 27 c	L	22 30 40	d = 230 km
i 20 28 52	Resolute Bay		
iS 20 38 57	eP	22 21.0	JULY 27
eL 20 54	eS	22 30 12	U.S.C.G.S.
Kirkland Lake	eL	22 44.5	Mid Atlantic Ocean,
iP 20 28 42 c	Seven Falls		aftershock
e 20 29 05	eP	22 17 49 c	H = 20 57 45
Ottawa	PP	22 19 32	Halifax
iP 20 28 27 c	e	22 19 56	eL 21 14
i 20 30 41	PPP	22 20 18	
PPP 20 33 40	S	22 24 26	
S 20 38 33	e	22 27 52	
	L	22 29 56	

DOMINION OBSERVATORIES

Kirkland Lake		Kirkland Lake		S <sub>1</sub>	19 59 14
eP	21 06 27	eP	03 45 37 d	e	19 59 31
Ottawa		i	03 45 38 c	d = 420 km	
eP	21 05 56 c	Ottawa		H = 19 57 16	
e	21 12 35	iP	03 46 00 d	Seven Falls	
Seven Falls		PP	03 48 46	eP <sub>n</sub>	19 58 13.0
eP	21 05 47	PPP	03 50 40	e	19 58 45.0
		S	03 55 43	e	19 58 48.5
		Resolute Bay		iS <sub>n</sub>	19 58 50.5
JULY 28		iP	03 42 55	i	19 59 03.5
Ottawa		ePP	03 44 46	iS <sub>1</sub>	19 59 11.0
eP	16 05 01	iS	03 49 49	e	19 59 16.0
		e	03 53 25	d = 410 km	
		eSSS	03 54 04	H = 19 57 17	
JULY 29		eL	03 57.9	Shawinigan Falls	
U.S.C.G.S.		Seven Falls		e(P <sub>1</sub> )	19 58 24.7
16 1/2S, 70 1/2W		eP	03 46 02 d	eS <sub>n</sub>	19 58 56.6
Southern Peru		e	03 46 26		
H = 03 23 46		S	03 55 38		
h = 100 km		Shawinigan Falls		JULY 29	
Halifax		iP	03 46 02	U.S.C.G.S.	
eP	03 33 43			17 1/2N, 92 1/2W	
esP	03 34 19	JULY 29		Tabasco, Mexico	
e	03 34 41	U.S.C.G.S.		H = 22 23 54	
Kirkland Lake		Western Switzerland		Halifax	
eP	03 34 18	H = 04 42 27		eL	22 42
epP	03 34 45	Seven Falls		Kirkland Lake	
Ottawa		eP	04 51 34	eP	22 30 27
iP	03 33 58 c			Ottawa	
e	03 42 28	JULY 29		eP	22 30 18
Seven Falls		U.S.C.G.S.		e	22 38 10
eP	03 34 07 c	28S, 179W		Seven Falls	
i	03 34 34	Kermadec Island		eP	22 30 50
iP <sub>c</sub> P	03 34 56	region			
JULY 29		H = 06 27 59		JULY 30	
U.S.C.G.S.		Halifax		U.S.C.G.S.	
49 1/2N, 158E		eP'	06 47 04 d	35 1/2S, 97 1/2W	
Off south coast of		Ottawa		Pacific Ocean, south-	
Kamchatka		eP'	06 46 46 d	east of Easter Island	
H = 03 34 20				H = 08 46 11	
Halifax		JULY 29		h = 100 km	
eP	03 46 29	Kirkland Lake		Halifax	
e	03 46 44	e	20 00 51	eP	08 58 47
e	03 46 54	Ottawa		iS	09 09 11
eS	03 56 32	eP <sub>n</sub>	19 58 13	PS	09 10 16
eL	04 14	eS <sub>n</sub>	19 58 53	SS	09 15 00
		e	19 59 07	Kirkland Lake	
				eP	08 58 42

SEISMOLOGICAL BULLETIN

<b>Ottawa</b>		<b>Seven Falls</b>		<b>AUGUST 2</b>
eP	08 58 30 c	eP	01 13 18 c	U.S.C.G.S.
S	09 08 54	e	01 13 55	39 1/2N, 118 1/2W
PS	09 09 50	i	01 14 05	Near Fallon, Nevada
SS	09 14 20	i	01 15 11	H = 10 18 53
G	09 21 00	PP	01 17 13	Halifax
<b>Seven Falls</b>		PPP	01 19 24	eL 10 40.1
eP	08 58 45 d	S	01 24 35	Kirkland Lake
e	08 59 41	G	01 38 29	e 10 24.9
S	09 09 16	<b>Shawinigan Falls</b>		<b>Ottawa</b>
PS	09 10 20	eP	01 13 26 d?	eP 10 25 22 d
e	09 12 17			Resolute Bay
SS	09 15 10			eP 10 26 03
<b>Shawinigan Falls</b>		<b>JULY 31</b>		eL 10 38.5
eP	08 58 41	U.S.C.G.S.		
S	09 09 10	Bolivia-Chile border		<b>AUGUST 2</b>
		H = 23 22 27		<b>Ottawa</b>
		h = 100 km		iP 11 48 59 d
<b>JULY 31</b>		<b>Ottawa</b>		<b>Seven Falls</b>
U.S.C.G.S.		eP 23 33 19 c		iP 11 48 46 d
39N, 104E		<b>Seven Falls</b>		
Ningsia province, China		eP 23 33 29 c		
H = 00 59 57				<b>AUGUST 2</b>
<b>Halifax</b>		<b>AUGUST 1</b>		U.S.C.G.S.
eP	01 13 26	U.S.C.G.S.		37S, 99 1/2W
SKS	01 24 04	20S, 69 1/2W		Southeast of Easter
S	01 24 36	Northern Chile		Island
PS	01 26 04	h = 100 km		H = 23 28 33
SS	01 31 20	H = 06 00 48		Kirkland Lake
SSS	01 35 05	<b>Ottawa</b>		e 23 41 18
<b>Kirkland Lake</b>		iP 06 11 51 c		<b>Ottawa</b>
eP	01 13 13			eP 23 41 08 d
<b>Ottawa</b>				e 23 51 40
iP	01 13 26 d	<b>AUGUST 1</b>		Resolute Bay
PP	01 17 17	U.S.C.G.S.		e 24 06 38
e	01 18 39	Loyalty Islands		eL 24 21
PPP	01 19 25	H = 21 32 11		<b>Shawinigan Falls</b>
SKS	01 24 02	Halifax		eP 23 41 18
e	01 25 30	i 21 54 25 d		
SS	01 31 00	<b>Ottawa</b>		<b>AUGUST 3</b>
<b>Resolute Bay</b>		iP' 21 51 09 c		Halifax
eP	01 10 46 d?			e 01 07 59 c
eP <sub>c</sub> P	01 11 24	<b>AUGUST 2</b>		
i	01 12 54	Kirkland Lake		
ePP	01 13 03	eP 09 09 22		<b>AUGUST 3</b>
e	01 13 34			Halifax
ePPP	01 14 40			iP <sub>1</sub> 14 08 07
eS <sub>c</sub> S	01 20 54			iS <sub>1</sub> 14 08 09
eSSS	01 26 33			d = 17 km

DOMINIÓN OBSERVATORIOS

<b>AUGUST 3</b>	<b>Ottawa</b>	<b>AUGUST 5</b>
U.S.C.G.S.	iP 03 59 26 c	U.S.C.G.S.
40N, 25E	Seven Falls	Dodecanese Islands
Northern Greece	iP 03 59 01 c	H = 20 39 05
H = 18 18 11		Halifax
Halifax	<b>AUGUST 5</b>	eP 20 50 01
eP 18 28 36	U.S.C.G.S.	Kirkland Lake
eL 18 48	52N, 176E	eP 20 50 49
Ottawa	Rat Islands, Aleutian	Ottawa
iP 18 29 21 c	Isl.	eP 20 50 43 c
S 18 38 24	H = 08 49 52	Shawinigan Falls
Resolute Bay	h = 60 km	eP 20 50 30
eP 18 28 17 d	Halifax	Seven Falls
eS 18 36 11	eP 09 01 02	iP 20 50 22 d
eL 18 45	eS 09 10 20	
Shawinigan Falls	eSS 09 14 40	<b>AUGUST 5</b>
iP 18 29 06 c	eSSS 09 18 37	Ottawa
Seven Falls	eL 09 22.5	i(P) 22 50 56 c
iP 18 28 56 c	Kirkland Lake	e 22 51 17
P <sub>c</sub> P 18 29 42	eP 09 00 04	
	Ottawa	<b>AUGUST 6</b>
<b>AUGUST 4</b>	iP 09 00 28 c	Halifax
U.S.C.G.S.	i 09 02 28	eL 00 49
54N, 169W	S 09 09 09	Ottawa
Fox Islands, Aleutian	S <sub>c</sub> S 09 10 20	e(P) 00 03 31
Isl.	G 09 16 10	e 00 05 31
H = 13 52 25	Resolute Bay	Resolute Bay
h = 200 km	eP 08 57 30 c	e 00 11 43
Ottawa	i(pP) 08 57 54 d	eL 00 37.5
eP 14 01 49	ePP 08 59 13	
e 14 09 16	eS 09 03 40	<b>AUGUST 6</b>
Resolute Bay	eL 09.1	Halifax
eL 14 10	Shawinigan Falls	iP <sub>n</sub> 07 44 43
e 14 16 00	eP 09 00 22	iS <sub>1</sub> 07 45 06
	e 09 02 10	iS <sub>1</sub> S <sub>1</sub> 07 45 07.5
<b>AUGUST 4</b>	Seven Falls	d = 160 km
U.S.C.G.S.	eP 09 00 34 c	
Kurile Islands	P <sub>c</sub> P 09 01 29	<b>AUGUST 6</b>
H = 21 35 18		U.S.C.G.S.
Ottawa	<b>AUGUST 5</b>	26 1/2N, 23E
eP 21 47 37	Ottawa	Near south coast of
<b>AUGUST 5</b>	P <sub>n</sub> 14 47 28.5	Greece
U.S.C.G.S.	P <sub>1</sub> P <sub>1</sub> 14 47 30.0	Ottawa
North central Greece	S <sub>n</sub> 14 47 45.5	iP 11 44 59 d
H = 03 48 27	L 14 47 54.0	
	d = 150 km	

SEISMOLOGICAL BULLETIN

<b>AUGUST 6</b>	Halifax	e	19 39 13
U.S.C.G.S.	eP 09 47 47	SS	19 41.5
1S, 23 1/2W	sP or	SSS	19 44.3
Mid Atlantic Ocean	P <sub>c</sub> P 09 48 25	Resolute Bay	
H = 16 19 45	Kirkland Lake	eP	19 24 47 d
Halifax	eP 09 48 13	i	19 24 48 c
eP 16 29 41	epP 09 48 52	ePP	19 26 30
eS 16 37 40	Ottawa	iS	19 31 10
eSSS 16 43 45	eP 09 47 52 d	e(S <sub>c</sub> S)	19 34 45
Kirkland Lake	P <sub>c</sub> P 09 48 30	Shawinigan Falls	
eP 16 30 57	S <sub>c</sub> S 09 57 26	iP	19 28 02 d?
Ottawa	Resolute Bay	i	19 28 11 d
eP 16 30 31	eS 10 02 40	e	19 31 55
S 16 39 20	Shawinigan Falls	Seven Falls	
S <sub>c</sub> S 16 40 28	eP 09 48 01	iP	19 28 03 d
Resolute Bay	P <sub>c</sub> P 09 48 38 d	i	19 28 15
eP 16 32 32 c	Seven Falls	S	19 37 14
eSKS 16 42 50	eP 09 48 02 d	i	19 37 28
eL 17 02.1	P <sub>c</sub> P 09 48 40	PS	19 37 57
Shawinigan Falls			
eP 16 30 25 d?			
Seven Falls	<b>AUGUST 7</b>	<b>AUGUST 9</b>	
eP 16 30 25	Kirkland Lake	U.S.C.G.S.	
S 16 39 01	eP 11 45 51	Southern Kurile Islands	
	i 11 46 00 d	H = 21 24 13	
		h = 150 km	
<b>AUGUST 6</b>		Ottawa	
Ottawa	<b>AUGUST 9</b>	eP	21 36 22
e(P) 16 59 11	53N, 161E	e	21 37 04
	Off east coast of	iPP	21 39 20
	Kamchatka		
<b>AUGUST 6</b>	H = 19 16 48	<b>AUGUST 10</b>	
U.S.C.G.S.	H = 60 km	U.S.C.G.S.	
41N, 16E	Halifax	Oaxaca, Mexico	
Southern Italy	iP 19 28 30 c	H = 01 00 38	
H = 19 21 14	iS 19 38 11	Ottawa	
Ottawa	iSSS 19 46 23	iP	01 07 23 d
eP 19 31 41	eL 19 52.3	i	01 07 30
Seven Falls	Kirkland Lake	i	01 07 36
eP 19 31 16	eP 19 27 37 d	Shawinigan Falls	
	i 19 27 38 d	i	01 07 42
	ipP 19 27 49 d		
<b>AUGUST 7</b>	Ottawa		
U.S.C.G.S.	iP 19 28 01 d	<b>AUGUST 10</b>	
18 1/2S, 69W	i 19 28 13	U.S.C.G.S.	
Bolivia - Chile border	PP 19 30 41	32 1/2S, 178W	
H = 09 37 24	PPP 19 32 22	Kermadec Islands	
h = 100 km	S 19 37 09	H = 13 44 52	
	PPS 19 38 02		

DOMINION OBSERVATORIES

Halifax		Shawinigan Falls		Ottawa	
eL	14 54	iP	23 29 38 c	eP'	23 15 27
Resolute Bay				PKS	23 18 52
eL	14 32			Resolute Bay	
		AUGUST 12		e	23 20 49
		U.S.C.G.S.		eL	23 45.5
AUGUST 11		2N, 118E			
U.S.C.G.S.		Near east coast of		AUGUST 15	
19 1/2N, 69 1/2W		Borneo		U.S.C.G.S.	
Near north coast of		H = 23 42 32		Salta province, Argentina	
Dominican Republic		Halifax		H = 05 38 35	
H = 11 12 36		eL	25 02	Ottawa	
h = 100 km		Resolute Bay		iP	05 49 59 c
Halifax		eL	24 36	Seven Falls	
eP	11 18 15			eP	05 50 07 d
isP	11 18 30			e	05 50 54
iS	11 23 05	AUGUST 14			
Kirkland Lake		U.S.C.G.S.		AUGUST 15	
eP	11 18 42 c	51N, 160 1/2E		U.S.C.G.S.	
Seven Falls		Off southeast coast of		Near east coast of	
eP	11 18 47	Kamchatka		Kamchatka	
S	11 24 07	H = 01 36 43		H = 05 40 10	
		Kirkland Lake		Kirkland Lake	
		eP	01 47 36	eP	05 50 36 d
AUGUST 12		Ottawa		e	05 51 06
Halifax		iP	01 48 09 d	Ottawa	
eP <sub>1</sub>	15 31 55	PP	01 50 44	iP	05 51 31 d
iS <sub>1</sub>	15 32 13	PPP	01 52 15	i	05 51 42
d = 155 km		Resolute Bay		ePP	05 54 08
		iP	01 45 00 d	Seven Falls	
		eL	02 01	iP	05 51 33 d
AUGUST 12		Seven Falls			
eP <sub>1</sub>	15 33 06	iP	01 48 13 d		
iS <sub>1</sub>	15 33 24				
		AUGUST 14		AUGUST 16	
AUGUST 12		Ottawa		Ottawa	
U.S.C.G.S.		e(P)	20 58 12	eP	05 14 08
53N, 159E				e	05 21 02
Near east coast of					
Kamchatka		AUGUST 14		AUGUST 16	
H = 23 18 14		Ottawa		Ottawa	
Halifax		iP	22 04 10 d	e	22 32 17
eP	23 30 05	e	22 18 36	Resolute Bay	
Kirkland Lake				iP	22 16 18
eP	23 29 13			i(S)	22 16 43
Ottawa		AUGUST 14		Appears to be local shock	
iP	23 29 36 c	U.S.C.G.S.			
Resolute Bay		Ceram Sea			
iP	23 26 13 c	H = 22 56 08			
i	23 27 57				



SEISMOLOGICAL BULLETIN

AUGUST 17

Ottawa  
 iP 16 04 35 d  
 e 16 07 31

AUGUST 17

Shawinigan Falls  
 eP 16 42 00

AUGUST 17

Kirkland Lake  
 eP 19 47 23

AUGUST 18

U.S.C.G.S.  
 21 1/2S, 176W  
 Tonga Islands  
 H = 04 42 20  
 h = 150 km  
 Kirkland Lake  
 e(P') 05 00 27  
 e 05 01 06  
 e 05 06 56

Ottawa  
 eP' 05 00 43 d  
 PP 05 01 17  
 i 05 01 25  
 sPP 05 02 00  
 SKS 05 07 10  
 SKKS 05 08 12  
 S 05 09 00  
 SP 05 10 16  
 PS 05 10 48  
 PPS 05 11 48  
 e 05 15 40  
 SS 05 16 42

Resolute Bay  
 isP 04 57 11  
 isPP 05 00 56  
 iSKKS 05 06 54  
 eS 05 07 41  
 epS 05 08 10  
 isSP 05 11 05  
 eSS 05 14 49  
 eL 05 37.0

Shawinigan Falls

ePP 05 01 21  
 Seven Falls  
 eP' 05 00 50 d  
 e 05 01 23  
 PP 05 01 31  
 sPP 05 01 51  
 i 05 02 02  
 SKS 05 07 24  
 SKKS 05 08 34  
 S 05 09 31  
 PS 05 11 18  
 PPS 05 12 15  
 e 05 13 15

AUGUST 18

U.S.C.G.S.  
 350 miles northwest of  
 the Galapagos Islands  
 H = 15 04 48  
 Kirkland Lake  
 e 15 13 16  
 Ottawa  
 eP 15 13 07 d  
 Resolute Bay  
 eL 15 38.0

AUGUST 18

U.S.C.G.S.  
 Off southeast coast of  
 Kamchatka  
 H = 17 58 06  
 Ottawa  
 e 18 09 51

AUGUST 18

Ottawa  
 eP 23 00 12 d

AUGUST 19

U.S.C.G.S.  
 Near north coast of  
 Turkey  
 H = 21 03 23

Seven Falls

eP 21 14 44

AUGUST 20

Ottawa  
 i(P) 17 38 11 c  
 i 17 38 21  
 i 17 38 28

AUGUST 20

U.S.C.G.S.  
 70 1/2N, 15W  
 Jan. Mayen foreshock  
 H = 19 21 33

Resolute Bay

eL 19 33.4  
 Seven Falls  
 eP 19 28 31

AUGUST 20

U.S.C.G.S.  
 Jan. Mayen foreshock  
 H = 20 24 15

Resolute Bay

eP 20 28 53  
 eS 20 33 31  
 eL 20 35.8

Seven Falls

eP 20 31 12

AUGUST 20

Resolute Bay  
 e 21 16.0

AUGUST 20

Resolute Bay  
 e(S) 21 56 38  
 eL 21 59.2

AUGUST 20

Resolute Bay  
 eL 22 20.9

DOMINION OBSERVATORIES

AUGUST 20  
 U.S.C.G.S.  
 Jan Mayen foreshock  
 H = 22 59 16  
 Ottawa  
 eP 23 06 40  
 Resolute Bay  
 eP 23 04 10  
 eS 23 08 26  
 eL 23 10.8  
 Seven Falls  
 eP 23 06 12

AUGUST 21  
 U.S.C.G.S.  
 Jan Mayen foreshock  
 H = 00 25 35  
 Ottawa  
 eP 00 33 03 d  
 e 00 33 29  
 S 00 39 02  
 e 00 39 30  
 SS 00 42 04  
 Resolute Bay  
 eP 00 30 32  
 ePP 00 31 03  
 eS 00 34 46  
 eL 00 37.0  
 Seven Falls  
 eP 00 32 41  
 e 00 33 02

AUGUST 21  
 U.S.C.G.S.  
 Jan Mayen foreshock  
 H = 04 13 14  
 Resolute Bay  
 eS 04 22 29  
 eL 04 25.1  
 Seven Falls  
 eP 04 20 11

AUGUST 21  
 Resolute Bay  
 e 06 31 27

AUGUST 21  
 U.S.C.G.S.  
 7N, 126 1/2E  
 Near east coast of  
 Mindanao, P.I.  
 H = 06 38 33  
 Ottawa  
 eP<sup>1</sup>. 06 57 34  
 Seven Falls  
 eP<sup>1</sup> 06 57 35 d  
 e 06 57 53

AUGUST 21  
 Kirkland Lake  
 eP 07 10 44  
 Ottawa  
 iP 07 10 27 c  
 Seven Falls  
 iP 07 10 36 d  
 e 07 11 04

AUGUST 21  
 U.S.C.G.S.  
 Jan Mayen foreshock  
 H = 07 19 46  
 Ottawa  
 eP 07 27 11 d  
 S 07 33 12  
 Resolute Bay  
 eP 07 24 47  
 eS 07 28 45  
 iSS 07 29 22  
 eL 07 31.6  
 Seven Falls  
 eP 07 26 46 c

AUGUST 21  
 Resolute Bay  
 e 09 02 11  
 e 09 03 42

AUGUST 21  
 Resolute Bay  
 e 10 59 44  
 e 11 00 19

AUGUST 21  
 Resolute Bay  
 e 13 02.4

AUGUST 21  
 U.S.C.G.S.  
 Jan Mayen foreshock  
 H = 13 05 05  
 Resolute Bay  
 eP 13 10 07  
 eS 13 14 23  
 eL 13 16.9  
 Seven Falls  
 eP 13 12 03

AUGUST 21  
 Resolute Bay  
 e 14 12 50

AUGUST 21  
 U.S.C.G.S.  
 Jan Mayen foreshock  
 H = 17 40 05  
 Ottawa  
 eP 17 47 27  
 ePPP 17 49 30  
 e 17 49 41  
 S 17 53 33  
 Resolute Bay  
 eP 17 45 06  
 eS 17 49 16  
 eL 17 51.9  
 Seven Falls  
 iP 17 47 05 c

AUGUST 21  
 U.S.C.G.S.  
 72N, 13W  
 Jan Mayen Islands region  
 H = 22 51 00  
 Kirkland Lake  
 eP 22 58 20  
 Ottawa  
 eP 22 58 28 d  
 PPP 23 00 40  
 S 23 04 32

SEISMOLOGICAL BULLETIN

Resolute Bay	AUGUST 22	AUGUST 23
eP 22 56 02	U.S.C.G.S.	Seven Falls
eS 23 00 19	Jan Mayen aftershock	eP 10 15 25 c
eL 23 02.9	H = 12 39 38	
Shawinigan Falls	Ottawa	AUGUST 23
eP 22 58 11	eP 12 47 04 d	U.S.C.G.S.
Seven Falls	S 12 53 04	Jan Mayen aftershock
iP 22 58 03 c	Resolute Bay	H = 11 39 18
i 22 58 05	eP 12 44 39	Resolute Bay
P <sub>C</sub> P 23 00 33	eS 12 48 55	eP 11 44 18
L 23 11 44	eL 12 51.2	eS 11 48 31
	Seven Falls	eL 11 50.5
	iP 12 46 37 c	Seven Falls
AUGUST 22		eP 11 46 18 c
U.S.C.G.S.	AUGUST 22	
Jan Mayen aftershock	U.S.C.G.S.	
H = 02 51 42	Samoa Islands region	AUGUST 23
Ottawa	H = 14 09 05	Ottawa
eP 02 59 07 c	Ottawa	eP 12 11 47 d
Resolute Bay	iP 14 22 50 c	Resolute Bay
iP 02 56 42 d		e 12 15 21
eS 03 00 56		eL 12 35
eL 03 03.6		Seven Falls
Seven Falls	AUGUST 22	eP 12 12 08 d
eP 02 58 40 c	U.S.C.G.S.	
	Jan Mayen aftershock	
	H = 18 21 12	
AUGUST 22	Ottawa	AUGUST 23
Resolute Bay	eP 18 28 39 d	Ottawa
eP 08 51 52	Resolute Bay	eP 12 11 47 d
eS 08 56 04	e 18 34.6	
eL 08 58.2	Seven Falls	
	eP 18 28 09 d	AUGUST 23
		U.S.C.G.S.
AUGUST 22		61N, 148 1/2W
U.S.C.G.S.	AUGUST 22	Kenai Peninsula, Alaska
Jan Mayen aftershock	Resolute Bay	H = 14 57 34
H = 10 08 02	eP 23 57 12	Kirkland Lake
Ottawa	eS 24 01 24	eP 15 05 20
eP 10 15 26 c	eL 24 03.8	Ottawa
Resolute Bay		eP 15 05 40
eP 10 13 02		PP 15 07 17
eS 10 17 16	AUGUST 23	P <sub>C</sub> P 15 07 29
eL 10 19.4	U.S.C.G.S.	PPP 15 07 40
Seven Falls	Jan Mayen aftershock	e 15 15 38
eP 10 14 59 c	H = 09 32 37	Resolute Bay
	Resolute Bay	iP 15 02 43 d
	eP 09 37 39	eS 15 07 01
	eS 09 41 56	eL 15 10.5
	eL 09 44.5	

DOMINION OBSERVATORIES

Seven Falls		Shawinigan Falls		Ottawa	
eP	15 05 48	eP	05 58 13 d?	iP'	18 59 18 d
eL	15 21 10	e(Lg)	06 08 36	Shawinigan Falls	
		Seven Falls		iP'	18 59 21 d?
		eP	05 58 24 d		
		PP	05 59 45		
AUGUST 23		PPP	06 00 15	AUGUST 26	
Ottawa		P <sub>C</sub> P	06 01 15	U.S.C.G.S.	
iP <sub>n</sub>	16 19 26.0	eS	06 03 54	New Britain aftershock	
P <sub>1</sub> P <sub>1</sub>	16 19 27.5	e	06 04 51	H = 19 17 22	
S <sub>n</sub>	16 19 43.5	e	06 05 25	Ottawa	
L	16 19 52.0	SS	06 06 19	iP	19 36 20 d
d = 150 km		e	06 07 25	Resolute Bay	
		G	06 08 41	eL	20 09.2
				Shawinigan Falls	
				eP'	19 36 22
AUGUST 23					
Kirkland Lake		AUGUST 24			
e	19 44 32	Ottawa			
Ottawa		iP	06 25 35 d	AUGUST 27	
iP <sub>n</sub>	19 36 52	Shawinigan Falls		U.S.C.G.S.	
i	19 36 53	eP	06 25 18	24N, 143E	
S <sub>n</sub>	19 37 16	Seven Falls		Volcano Islands	
e	19 37 29	iP	06 25 17 d	H = 10 55 00	
				h = 100 km	
				Halifax	
				eL	11 43
AUGUST 24				Ottawa	
U.S.C.G.S.		AUGUST 24		ePP	11 13 05
39.5N, 118.5W		Shawinigan Falls		SKKS	11 19 22
Near Fallon, Nevada		iP	22 03 20 c	SKKS	11 19 40
H = 05 51 31.5		S	22 03 21	PS	11 22 04
Kirkland Lake		eL	22 03 23	Resolute Bay	
eP	05 57 29 d?	d = 10 km		iP	11 06 34 d
eLg	06 06 36	May be blast		iPP	11 09 00
Ottawa				iS <sub>C</sub> S	11 16 09
eP	05 57 56 d			e	11 19 04
PP	05 59 08	AUGUST 25		eL	11 31.0
PPP	05 59 20	U.S.C.G.S.			
P <sub>C</sub> P	06 00 35	Fallon, Nevada, after-			
S	06 03 18	shock			
SS	06 05 31	H = 02 17 13			
G	06 08 00	Resolute Bay			
Resolute Bay		eL	02 36.5		
iP	05 58 40 d				
iPP	05 59 53				
ePPP	06 00 12	AUGUST 26			
eP <sub>C</sub> P	06 01 15	U.S.C.G.S.			
iS	06 04 34	5S, 153E			
eSS	06 06 33	Off east coast of New			
eL	06 09.6	Britain			
		H = 18 40 20			

SEISMOLOGICAL BULLETIN

AUGUST 27

Ottawa  
*iP<sub>n</sub>* 17 26 24.5  
*P<sub>1</sub>P<sub>1</sub>* 17 26 26.0  
*S<sub>n</sub>* 17 26 41.0  
*S<sub>1</sub>S<sub>1</sub>* 17 26 44.5  
*e* 17 26 49.0  
*d* = 140 km

Shawinigan Falls

*i* 15 25 37  
*i* 15 27 40  
*i* 15 27 44  
 Seven Falls  
*iP<sub>n</sub>* 15 25 22  
*e(S)* 15 27 08  
*e* 15 27 12  
*e* 15 27 31  
*L* 15 27 38

AUGUST 29

U.S.C.G.S.  
 39 1/2N, 118 1/2W  
 Fallon aftershock  
*H* = 03 58 05  
 Halifax  
*eL* 04 19  
 Ottawa  
*eP* 04 04 41  
 Resolute Bay  
*eL* 04 18

AUGUST 28

U.S.C.G.S.  
 24N, 142E  
 Volcano Islands  
*H* = 03 47 58  
*h* = 60 km  
 Resolute Bay  
*iP* 03 59 36 c

AUGUST 28

U.S.C.G.S.  
 300 miles south of  
 Tierra del Fuego  
*H* = 23 04 25

AUGUST 30

Shawinigan Falls  
*e* 23 35 26

AUGUST 28

U.S.C.G.S.  
 37N, 141E  
 Near east coast of  
 Honshu, Japan  
*H* = 10 01 20  
 Kirkland Lake  
*e* 10 14 10

Halifax

*eL* 23 53  
 Ottawa  
*eP* 23 18 35  
*PP* 23 22 45  
*S* 23 29 04  
*PS* 23 31 46

AUGUST 30

U.S.C.G.S.  
 44N, 147 1/2E  
 Kurile Islands  
*H* = 07 57 23  
*h* = 60 km

Halifax

*eP* 08 10 10  
*iS* 08 20 46  
*e* 08 21 05  
*eG* 08 32 47  
*eL* 08 38

Ottawa

*iP* 10 14 30 d  
*i* 10 14 45  
 Resolute Bay  
*eP* 10 11 46 c  
 Shawinigan Falls  
*i* 10 14 31

Resolute Bay

*iP'* 23 23 40 d  
*eL* 24 10.6

Kirkland Lake

*eP* 08 09 26  
*i* 08 09 36

Ottawa

*iP* 08 09 46 c  
*i* 08 10 02  
*PP* 08 13 38  
*S* 08 20 00

AUGUST 28

Halifax  
*iP<sub>n</sub>* 15 24 12.5  
*iS<sub>1</sub>* 15 25 07.5  
*d* = 375 km

AUGUST 29

U.S.C.G.S.  
 39 1/2N, 118 1/2W  
 Fallon aftershock  
*H* = 03 41 06

Resolute Bay

*eL* 08 27.0  
 Shawinigan Falls  
*eP* 08 09 40

Kirkland Lake

*eP* 15 26 44  
*e* 15 29 37

Halifax

*eL* 04 02  
 Resolute Bay  
*eL* 04 00.2

Seven Falls

*eP* 08 10 03  
*S* 08 20 05

Ottawa

*iP<sub>n</sub>* 15 26 07  
*e* 15 26 31  
*e* 15 27 09  
*e* 15 27 54  
*e(S)* 15 28 12

AUGUST 30

Halifax  
*e(P)* 15 28 04 c

DOMINION OBSERVATORIES

<b>AUGUST 30</b>	<b>Kirkland Lake</b>	<b>Ottawa</b>
U.S.C.G.S.	e 05 20	eP' 19 10 06 d
49 1/2N, 155 1/2E	<b>Ottawa</b>	e 19 23 00
<b>Kurile Islands</b>	eP 05 25 14 c	SS 19 27 04
H = 21 15 52	PP 05 26 24	<b>Resolute Bay</b>
<b>Kirkland Lake</b>	PPP 05 26 31	eL 19 23.7
eP 21 27 14	PcP 05 28 06	<b>Shawinigan Falls</b>
<b>Ottawa</b>	S 05 30 29	eP 19 10 11 d?
iP 21 27 36 c	e 05 34 48	
	<b>Resolute Bay</b>	
	eL 05 37.4	
<b>AUGUST 31</b>		<b>SEPTEMBER 2</b>
<b>Ottawa</b>		<b>Ottawa</b>
e(P) 18 31 41 c		iP <sub>n</sub> 20 37 44
i 18 33 27	<b>SEPTEMBER 1</b>	i 20 37 45
	U.S.C.G.S.	S <sub>n</sub> 20 38 08
	Fallon, Nevada,	eL 20 38 19
	aftershock	d = 230 km
<b>AUGUST 31</b>	H = 11 29 25	
<b>Halifax</b>	<b>Resolute Bay</b>	
i(P) 20 28 18	eL 11.8	<b>SEPTEMBER 3</b>
		<b>Ottawa</b>
		iP <sub>n</sub> 14 22 51
<b>AUGUST 31</b>		i 14 22 53
U.S.C.G.S.	<b>SEPTEMBER 1</b>	S <sub>n</sub> 14 23 08
39 1/2N, 118 1/2W	U.S.C.G.S.	e 14 23 16
Near Fallon, Nevada	Northern Kurile Islands	d = 145 km
H = 22 20 32	H = 12 25 40	
<b>Halifax</b>	<b>Ottawa</b>	
eS 22 34 18	iP 12 37 35 c	<b>SEPTEMBER 3</b>
eG 22 39.6	<b>Shawinigan Falls</b>	<b>Halifax</b>
<b>Kirkland Lake</b>	eP 12 37 37 d?	iP <sub>1</sub> 15 19 41.0
eP 22 26 33		iS <sub>1</sub> 15 19 47.0
<b>Ottawa</b>		d = 25 km
iP 22 26 59 d	<b>SEPTEMBER 2</b>	
PcP 22 29 48	U.S.C.G.S.	
S 22 32 02	42N, 20E	<b>SEPTEMBER 4</b>
<b>Resolute Bay</b>	Albania - Yugoslavia	U.S.C.G.S.
eP 22 27 43	border	3S, 139 1/2E
eS 22 33 30	H = 01 54 32	<b>Northern New Guinea</b>
	<b>Ottawa</b>	H = 03 28 32
	iP 02 05 18 c	h = 60 km
<b>SEPTEMBER 1</b>		<b>Halifax</b>
U.S.C.G.S.		eP' 03 47 48
39 1/2N, 118 1/2W	<b>SEPTEMBER 2</b>	ePKS 03 51 15
Near Fallon, Nevada	U.S.C.G.S.	e(SKKS) 03 57 45
H = 05 18 46.5	10S, 166E	iSS 04 07 55
<b>Halifax</b>	<b>Santa Cruz Isl.</b>	iSSS 04 13 00
eL 05 39	H = 18 51 29	e 04 20 10
	h = 100 km	eG 04 25

SEISMOLOGICAL BULLETIN

Kirkland Lake	SEPTEMBER 4	ePS	08 13 50
eP' 03 47 28	U.S.C.G.S.	e	08 15 32
Ottawa	11 1/2S, 166E	eSS	08 19 56
eP' 03 47 31 c	Santa Cruz Islands	eL	08 35.4
PKKS 03 51 02	H = 13 11 49	Seven Falls	
SKKS 03 56 30	Halifax	SKS	08 11 24
PS 03 59 16	eL 14 15	SKKS	08 12 50
SS 04 06 46	Ottawa	G	08 37 09
Resolute Bay	eP' 13 30 56	Shawinigan Falls	
eP' 03 45 56	Resolute Bay	eP	08 04 19
ePP 03 46 34	eL 14 02.2		
eSKS 03 53 01			
ePS 03 55 59			
eSS 04 01 15			
eL 04 12.6			
Shawinigan Falls			
e 03 47 38 c?			

SEPTEMBER 4  
 Kirkland Lake  
 eP 20 22 14

SEPTEMBER 6  
 Ottawa  
 iP<sub>n</sub> 12 41 54  
 i 12 41 56  
 S<sub>n</sub> 12 42 10  
 eL 12 42 19  
 d = 130 km

SEPTEMBER 4  
 U.S.C.G.S.  
 28N, 83 1/2E  
 Nepal foreshock  
 H = 06 43 46  
 Resolute Bay  
 iP 06 55 42 d

SEPTEMBER 4  
 Ottawa  
 eP 21 19 37

SEPTEMBER 6  
 U.S.C.G.S.  
 21N, 121E  
 Off north coast of  
 Luzon, P.I.  
 H = 16 46 58  
 Halifax  
 eL 17 42  
 Resolute Bay  
 iP 16 59 23 c  
 eL 17 36.7

SEPTEMBER 4  
 U.S.C.G.S.  
 28N, 83 1/2E  
 Nepal  
 H = 06 45 14  
 Resolute Bay  
 iP 06 57 10 c  
 eL 07 30.4

SEPTEMBER 5  
 U.S.C.G.S.  
 19S, 176E  
 Fiji Isl.  
 H = 07 45 31  
 Halifax  
 eP' 08 04 35  
 iSKS 08 11 40  
 iSKKS 08 13 22  
 iPS 08 16 26  
 e(SS) 08 22.3  
 eSSS 08 28 10  
 Ottawa  
 eP' 08 04 17 c  
 PP 08 05 23  
 SKS 08 11 13  
 SKKS 08 12 20  
 S 08 13 22  
 PS 08 15 14  
 PPS 08 16 40  
 SS 08 21 36  
 SSS 08 25 12  
 Resolute Bay  
 eSKS 08 10 37  
 eSKKS 08 11 38  
 eS 08 12 09

SEPTEMBER 6  
 U.S.C.G.S.  
 51N, 158E  
 Near southeast coast of  
 Kamchatka  
 H = 18 30 48  
 h = 60 km  
 Halifax  
 iP 18 42 44 c  
 isP 18 43 02  
 iS 18 52 34  
 iS<sub>c</sub>S 18 52 55  
 eSS 18 59 10  
 eSSS 19 01 50  
 eL 19 09

SEPTEMBER 4  
 U.S.C.G.S.  
 21 1/2N, 122 1/2E  
 Southeast of Formosa  
 H = 08 53 20  
 Resolute Bay  
 eS 09 15 13  
 eL 09 32.1



DOMINION OBSERVATORIES

Kirkland Lake		SEPTEMBER 7		SEPTEMBER 8	
eP	18 41 52	U.S.C.G.S.		U.S.C.G.S.	
i	18 41 55 d	Luzon, P.I. aftershock		Southern Peru	
i	18 42 09 c	H = 00 35 13		H = 17 31 03	
i	18 42 10 d	Resolute Bay		h = 100 km	
Ottawa		eP	00 47 33 c	Kirkland Lake	
iP	18 42 16 d	eL	01 17.8	eP	17 41 25 d?
PP	18 45 01			e	17 41 54
PPP	18 46 50			Ottawa	
S	18 51 38	SEPTEMBER 7		eP	17 41 05 d
e	18 52 04	U.S.C.G.S.		Shawinigan Falls	
PPS	18 52 44	17S, 179E		eP	17 41 13 c?
SS	18 56 08	Fiji Islands			
Resolute Bay		H = 07 14 59			
iP	18 39 07 d	h = 600 km		SEPTEMBER 8	
i	18 40 48	Ottawa		Halifax	
iPP	18 40 58	eP'	07 32 30 c	e	18 20 59
iS	18 45 48				
esS	18 46 11				
iSS	18 49 15	SEPTEMBER 7		SEPTEMBER 8	
eL	18 55.5	Ottawa		Shawinigan Falls	
Seven Falls		iP <sub>n</sub>	18 21 02	iP <sub>1</sub>	18 30 12.2
eP	18 42 21	i	18 21 04	iS <sub>1</sub>	18 30 23.6
eS	18 51 47	S <sub>n</sub>	18 21 19	S <sub>n</sub>	18 30 26.3
e	18 52 12	eL	18 21 28	S <sub>1</sub> S <sub>1</sub>	18 30 27.3
PPS	18 52 49	d = 145 km		d = 85 km	
G	19 01 35			H = 18 29 57	
Shawinigan Falls					
eP	18 42 18	SEPTEMBER 8		SEPTEMBER 8	
i	18 42 20 d	Kirkland Lake		Halifax	
e	18 43 32	e	01 33 58	i	19 01 01 d
i	18 43 35 d	Ottawa			
		e(S)	01 32 37.5		
		e	01 32 59.5		
SEPTEMBER 6		e	01 33 05.0	SEPTEMBER 8	
Kirkland Lake		Seven Falls		Halifax	
eP	19 10 03 c	e	01 30 56	iP <sub>1</sub>	20 17 38.5
iP	19 10 04 d	e	01 31 05	iS <sub>1</sub>	20 17 39.5
		Note: No time marks on		Probably blast	
		Short-period			
SEPTEMBER 7		vertical. Follow-			
U.S.C.G.S.		ing intervals		SEPTEMBER 8	
21N, 121E		could be read.		Halifax	
Luzon, P.I. aftershock		P <sub>n</sub> -S <sub>n</sub>	23 Sec.	iP <sub>1</sub>	21 02 47.5
H = 00 11 46		P <sub>n</sub> -S <sub>1</sub>	30 Sec.	iS <sub>1</sub>	21 02 49.5
Resolute Bay		d = 225 km		d = 17 km	
eP	00 24 10	Shawinigan Falls			
eL	00 55.1	eP <sub>n</sub>	01 31 53		
		eS <sub>n</sub>	01 32 31		
		eS <sub>1</sub>	01 32 38		

SEISMOLOGICAL BULLETIN

SEPTEMBER 9

U.S.C.G.S.  
36N, 1 1/2E  
Northern Algeria  
H = 01 04 37

Halifax

iP 01 13 28 c  
iPP 01 15 25  
iPPP 01 16 00  
iS 01 20 32  
i 01 21 12  
eSS 01 24 20  
eSSS 01 27 49

Kirkland Lake

eP 01 14 39 c?  
i 01 14 43 c  
i ! 01 14 43.5 d

Ottawa

iP 01 14 27 c  
i(pP) 01 14 52  
P<sub>c</sub>P 01 15 22  
PP 01 16 47  
PPP 01 18 06  
S 01 22 24  
PPS 01 23 06  
S<sub>c</sub>S 01 24 22  
SS 01 26 14  
SSS 01 28.5

Resolute Bay

iP 01 14 26 c  
iPP 01 16 34  
ePPP 01 18 00  
eS 01 22 23  
e 01 24 18  
eSS 01 26 26  
eL 01 32.0

Seven Falls

eP 01 13 58  
e(pP) 01 14 21  
PP 01 16 05  
S 01 21 31  
S<sub>c</sub>S 01 23 51  
SS 01 25 18

Shawinigan Falls

eP 01 14 10  
i 01 14 12 d

SEPTEMBER 9

U.S.C.G.S.  
20 1/2S, 177W

Tonga Islands

H = 01 02 16  
h = 200 km

Ottawa

iP' 01 20 30 d  
i 01 20 39  
PP 01 21 13

SEPTEMBER 9

Ottawa

eP 01 43 38

SEPTEMBER 9

U.S.C.G.S.

Algerian aftershock  
H = 01 49 48

Ottawa

iP 01 59 38 d

SEPTEMBER 9

U.S.C.G.S.

Algerian aftershock  
H = 02 52 22

Ottawa

eP 03 02 11 c

Resolute Bay

eP 03 02 13  
eL 03 32.7

SEPTEMBER 9

U.S.C.G.S.

Central Nicaragua  
H = 03 43 55

Kirkland Lake

eP 03 51 02

Ottawa

iP 03 50 45 d

SEPTEMBER 9

U.S.C.G.S.

Algerian aftershock  
H = 09 28 41

Kirkland Lake

eP 09 38 42

Ottawa

iP 09 38 31 c

Resolute Bay

eP 09 38 30

SEPTEMBER 10

U.S.C.G.S.

Algerian aftershock  
H = 05 44 04

Kirkland Lake

eP 05 54 05

Ottawa

eP 05 53 52 d

P<sub>c</sub>P 05 54 49

PPP 05 57 27

S 06 01 47

S<sub>c</sub>S 06 03 43

SSS 06 08 16

Resolute Bay

eP 05 53 52

ePPP 05 57 24

iS 06 02 00

eSS 06 05 52

eL 06 12.5

Shawinigan Falls

eP 05 53 35 d

eP<sub>c</sub>P 05 54 40

SEPTEMBER 10

Shawinigan Falls

eP 16 14 46.5

S 16 14 48.5

Probably blast

SEPTEMBER 11

Kirkland Lake

iP<sub>n</sub> 18 56 43

iS<sub>n</sub> 18 57 18

iS<sub>1</sub> 18 57 30

i 18 57 37

d = 330 km

H = 18 55 57

DOMINION OBSERVATORIES

Ottawa		SEPTEMBER 12		SEPTEMBER 13	
iP <sub>n</sub>	18 56 25	Ottawa		Resolute Bay	
i	18 56 26	iP	17 32 04 c	e	12 10 20
i	18 56 30			e	12 13 23
S <sub>n</sub>	18 56 46			i	12 15 06
d = 190 km		SEPTEMBER 12		May be local shock	
Seven Falls		U.S.C.G.S.			
eP <sub>n</sub>	18 56 43	23 1/2S, 178W			
i	18 56 50	Tonga Island region		SEPTEMBER 13	
S <sub>n</sub>	18 57 21	H = 02 00 26		U.S.C.G.S.	
e	18 57 32	h = 150 km		Luzon, P.I. aftershock	
S <sub>1</sub>	18 57 38	Kirkland Lake		H = 18 12 37	
d = 390 km		eP'	02 28 22	Resolute Bay	
Shawinigan Falls		Ottawa		eP	18 24 58 d?
iP <sub>n</sub>	18 56 31.8	iP'	02 28 18 c		
e	18 56 33.8	PP	02 29 01		
eS <sub>n</sub>	18 56 55.6	e	02 29 40	SEPTEMBER 13	
iS <sub>n</sub>	18 56 56.8	SKS	02 34 44	U.S.C.G.S.	
iS <sub>1</sub>	18 56 59.4	SKKS	02 35 42	Luzon, P.I. aftershock	
The U.S.C.G.S. has		S	02 36 36	H = 18 19 16	
supplied the following		SS	02 37 22	Resolute Bay	
additional readings		PS	02 38 20	eP	18 31 37 c
Buffalo		PPS	02 39 23		
iP	18 57 13	e	02 40 02		
Fayetteville		SS	02 44 27	SEPTEMBER 14	
eP	19 03 20	SSS	02 48 36	U.S.C.G.S.	
Dallas		G	02 55 08	Luzon, P.I. aftershock	
iP	19 07 11	Resolute Bay		H = 00 48 18	
Cleveland		esP	02 24 46	Resolute Bay	
iP	18 58 50	ePP	02 28 36	eP	01 00 39 d
		eSKS	02 34 26	eL	01 34.4
		iS	02 35 54		
SEPTEMBER 12		iSS	02 43 25		
U.S.C.G.S.		eL	02 55.0	SEPTEMBER 14	
41N, 143E		Seven Falls		U.S.C.G.S.	
Off south coast of		SKS	02 34 57	Ryukyu Isl. region	
Hokkaido, Japan		SKKS	02 36 09	H = 07 20 07	
H = 07 43 50		S	02 37 12	Resolute Bay	
Kirkland Lake		PS	02 39 02	eP	07 32 02 c
eP	07 56 20	e	02 39 49	eL	07 58.6
Ottawa		SS	02 45 15		
eP	07 56 37 c	Shawinigan Falls			
PP	08 00 06	eP'	02 28 25	SEPTEMBER 14	
S	08 07 16	PP	02 29 17	U.S.C.G.S.	
Resolute Bay				Oaxaca, Mexico	
iP	07 53 47 c			H = 16 21 59	
iS	08 01 51	SEPTEMBER 13		Kirkland Lake	
eSS	08 05 47	Ottawa		eP	16 28 51 d?
eL	08 12.1	iP	02 39 20 c	i	16 28 51.5 c
				i	16 29 01 c

SEISMOLOGICAL BULLETIN

Ottawa  
iP 16 28 47 c  
i 16 28 57

Shawinigan Falls  
iP<sub>n</sub> 17 49 07.4  
S<sub>n</sub> 17 49 30.3  
iS<sub>1</sub> 17 49 32.6  
d = 200 km

Shawinigan Falls  
iP' 18 13 45

SEPTEMBER 14

Ottawa  
iP 18 04 10 d

SEPTEMBER 16

Resolute Bay  
eL 05 11.2

SEPTEMBER 15

Halifax  
iP<sub>1</sub> 01 24 18  
iS<sub>1</sub> 01 24 24

SEPTEMBER 15

U.S.C.G.S.  
18S, 178 1/2W

SEPTEMBER 16

Halifax  
iP<sub>1</sub> 15 03 38  
iS<sub>1</sub> 15 03 40  
d = 15 km

SEPTEMBER 15

U.S.C.G.S.  
4 1/2S, 82W  
Near coast of Peru  
H = 06 38 04  
h = 60 km  
Kirkland Lake  
eP 06 47 13 c  
Ottawa  
iP 06 46 54 c

Fiji Islands  
H = 17 56 08  
h = 600 km  
Halifax  
iP' 18 13 57 c  
ipP' 18 16 42  
i 18 21 32  
iS 18 22 35  
iSP 18 24 10  
iPS 18 25 30  
isS 18 26 20  
i 18 27 00  
isPS 18 28 05  
e 18 29 25  
iSS 18 31 16  
isSS 18 34 20  
eSSS 18 35 15

SEPTEMBER 17

U.S.C.G.S.  
4 1/2S, 153 1/2E  
New Ireland region  
H = 01 13 08  
Halifax  
eL 02 12  
Ottawa  
eP' 01 32 05  
i 01 32 27  
PP 01 33 48  
SKKS 01 40 04  
PS 01 43 24  
SS 01 50 02

SEPTEMBER 15

U.S.C.G.S.  
26N, 110W  
Gulf of California  
H = 13 20 15  
Kirkland Lake  
e 13 36 10  
e 13 40 55  
Ottawa  
eP 13 26 59 d  
Resolute Bay  
eL 13 46.4

Kirkland Lake  
eP' 18 13 35  
e 18 14 14  
Ottawa  
iP' 18 13 41 d  
PP 18 14 31  
pPP 18 16 25  
SKKS 18 20 36  
S 18 21 24  
SP 18 23 14  
PS 18 24 22  
sPS 18 26 44  
e 18 27 50  
SS 18 29.5

Resolute Bay  
eSKS 01 37 24  
ePS 01 39 56  
eSS 01 45 11  
eL 02 00.3

SEPTEMBER 15

Ottawa  
iP<sub>n</sub> 17 49 15  
eS<sub>n</sub> 17 49 45  
i 17 49 51  
L 17 50 08  
d = 310 km

Resolute Bay  
iSKS 18 19 07  
iS 18 20 26  
ePS 18 23 30  
esPS 18 25 28  
eL 18 45.0  
Seven Falls  
eSKKS 18 20 58

SEPTEMBER 17

U.S.C.G.S.  
24 1/2N, 122E  
Near northeast coast  
of Formosa  
H = 07 33 21  
Ottawa  
ePP 07 52 15  
Resolute Bay  
iP 07 45 24 c  
eS 07 55 12  
eL 08 11.1

DOMINION OBSERVATORIES

SEPTEMBER 17

U.S.C.G.S.  
 21 1/2S, 176 1/2W  
 Tonga Islands region  
 H = 11 03 14  
 h = 250 km  
 Halifax  
 iP' 11 21 43 c?  
 epP' 11 22 50 d?  
 e 11 23 57  
 epPP 11 24 05  
 i(sPP) 11 24 30  
 i 11 30 56  
 i 11 31 48  
 iPS 11 32 55  
 i 11 34 21  
 isPS 11 34 39  
 i 11 35 28  
 iSS 11 39 35  
 i 11 39 52  
 isSS 11 41 07  
 i 11 41 40  
 Ottawa  
 iP' 11 21 27 d  
 PP 11 22 13  
 e 11 23 14  
 e 11 23 38  
 PPP 11 24 15  
 SKS 11 28 00  
 SKKS 11 28 56  
 S 11 29 42  
 PS 11 31 42  
 PPS 11 32 42  
 i 11 33 10  
 SS 11 37 44  
 e 11 39 20  
 SSS 11 41 40  
 G 11 48 42  
 Resolute Bay  
 eP 11 17 15 c?  
 eP' 11 21 16  
 iPP 11 21 46  
 epPP 11 22 56  
 iSKS 11 27 34  
 iS 11 29 00  
 iSP 11 30 42  
 iPS 11 31 06  
 iPPS 11 32 23  
 eSS 11 36 45  
 eSSS 11 40 47  
 eL 11 52.0

Seven Falls

ePP 11 22 44  
 e 11 24 03  
 SKS 11 28 04  
 S 11 29 54  
 PS 11 32 19  
 PPS 11 33 23  
 SS 11 38 31  
 e 11 39 53  
 Shawinigan Falls  
 e(P') 11 21 31  
 e 11 22 34  
 e 11 32 11

SEPTEMBER 17

Resolute Bay  
 iP 12 01 38 d

SEPTEMBER 17

Ottawa  
 eP 11 32 16  
 i 11 33 32  
 e 11 36 01

SEPTEMBER 17

U.S.C.G.S.  
 Bonin Islands  
 H = 14 45 00  
 Resolute Bay  
 eP 14 56 22

SEPTEMBER 17

Halifax  
 e 18 58 35

SEPTEMBER 17

U.S.C.G.S.  
 Colombia-Venezuela  
 border  
 H = 19 01 52  
 Ottawa  
 eP 19 09 18

SEPTEMBER 17

Halifax  
 e 21 56 37

SEPTEMBER 18

U.S.C.G.S.  
 16N, 60W  
 Leeward Isl. region  
 H = 04 55 20  
 Ottawa  
 eP 05 01 52 d

SEPTEMBER 18

U.S.C.G.S.  
 14N, 145E  
 Marianas Islands  
 H = 15 31 06  
 Resolute Bay  
 iP 15 43 41 d

SEPTEMBER 18

U.S.C.G.S.  
 Kurile Islands  
 H = 18 24 50  
 Kirkland Lake  
 eP 18 36 17  
 Ottawa  
 eP 18 36 41 d

SEPTEMBER 18

Kirkland Lake  
 eP 20 22 14

SEPTEMBER 20

U.S.C.G.S.  
 53N, 35 1/2W  
 North Atlantic Ocean  
 H = 00 10 09  
 Halifax  
 eP 00 14 50  
 eL 00 23  
 Ottawa  
 eP 00 15 59 d  
 eL 00 25.0

SEISMOLOGICAL BULLETIN

Resolute Bay		Shawinigan Falls		Ottawa	
eL	00 27.0	e	03 59 23	iP	21 55 22 d
Seven Falls		iPKS	04 02 55 d	iP <sub>C</sub> P	21 55 34
eP	00 15 19			PP	21 58 23
eL	00 23.1			S	22 05 00
Shawinigan Falls		SEPTEMBER 21		SS	22 10 08
iP	00 15 32 d	U.S.C.G.S.		SSS	22 13 46
		Marianas Islands		Resolute Bay	
		H = 09 41 50		eP	21 52 19 c
SEPTEMBER 20		Resolute Bay		ePP	21 54 12
U.S.C.G.S.		iP	09 54 22 d	iS	21 59 14
1 1/2S, 120 1/2E				eS <sub>C</sub> S	22 01 44
Celebes		SEPTEMBER 21		eL	22 06.1
H = 00 39 28		Halifax		Seven Falls	
Halifax		iP <sub>1</sub>	17 35 56.0	eS	22 05 08
eP'	00 59 05	iS <sub>1</sub>	17 36 01.5	Shawinigan Falls	
ePKS	01 02 24	d = 37 km		eP	21 55 24
ePPS	01 14 20			eP <sub>C</sub> P	21 55 38
eG	01 41				
eL	01 51				
Kirkland Lake		SEPTEMBER 22		SEPTEMBER 25	
eP'	00 58 45 c?	Halifax		U.S.C.G.S.	
Ottawa		iP <sub>n</sub>	04 20 14.0	17N, 100W	
iP'	00 58 53 c	iS <sub>1</sub> P <sub>n</sub> P <sub>1</sub>	04 20 17	Near coast of Mexico	
PP	01 01 26	i	04 20 18.5	H = 07 05 48	
PKS	01 02 17	iS <sub>1</sub> P <sub>1</sub>	04 20 20	Ottawa	
SKS	01 06 02	i	04 20 27.5	eP	07 12 44 d
SKKS	01 08 10	iS <sub>1</sub>	04 20 36.5	Resolute Bay	
Resolute Bay		iS <sub>1</sub> S <sub>1</sub>	04 20 38.5	eL	07 36.8
eSKS	01 04 11	d = 170 km			
ePS	01 07 00			SEPTEMBER 25	
eL	01 32.0			Kirkland Lake	
		SEPTEMBER 22		eP	11 34 16
SEPTEMBER 21		Shawinigan Falls		Resolute Bay	
U.S.C.G.S.		e	11 16 10	eP	11 33 43 d?
Sumbawa Islands				eL	12 01.9
H = 03 40 22		SEPTEMBER 23			
h = 150 km		U.S.C.G.S.		SEPTEMBER 25	
Halifax		49N, 156E		Resolute Bay	
iP'	03 59 40 c	Kurile Isl. region		eL	12 24.0
Kirkland Lake		H = 21 43 36		Halifax	
eP'	03 59 26	Halifax		eL	12 23
e	04 02 44	iP	21 55 50 c		
Ottawa		iS	22 05 54	SEPTEMBER 25	
iP'	03 59 30 c	iSSS	22 14 18	Resolute Bay	
i	03 59 38	eL	22 27	eL	12 23
PKS	04 02 54	Kirkland Lake		SEPTEMBER 25	
		eP	21 55 00 d?	U.S.C.G.S.	
				19N, 70W	
				Dominican Republic	
				H = 19 22 17	







SEISMOLOGICAL BULLETIN

Shawinigan Falls	OCTOBER 3	OCTOBER 3
eP' 03 14 24	U.S.C.G.S.	U.S.C.G.S.
i 03 14 32.6	10S, 165 1/2E	Eastern Wyoming
	Santa Cruz Islands	H = 08 51 23
	H = 02 47 17	Resolute Bay
OCTOBER 1	Halifax	eP 08 58 24
Ottawa	ePP 03 08 22	
e(P) 03 24 47	iPS 03 18 17	
	ePPS 03 20 11	OCTOBER 3
	eSS 03 25 30	U.S.C.G.S.
OCTOBER 1	e 03 33 14	54N, 168 1/2E
U.S.C.G.S.	eL 03 42 25	Komandorski Islands
Solomon Isl. region	Ottawa	H = 08 50 45
H = 03 41 34	eP' 03 06 09 d	Ottawa
Ottawa	PP 03 07 21	eP 09 01 17
eP' 04 00 27	e 03 08 49	PcP 09 01 36
	SKS 03 13 16	
	SKKS 03 14 24	
OCTOBER 1	PS 03 17 00	OCTOBER 3
U.S.C.G.S.	PPS 03 18 08	U.S.C.G.S.
14 1/2S, 173W	SS 03 23 40	60 1/2N, 151W
Samoa Isl.	Resolute Bay	Kenai Peninsula, Alaska
H = 06 50 24	ePP 03 05 43	H = 11 18 46
Halifax	eSKS 03 11 54	h = 100 km
eL 07 50	eSKKS 03 12 42	Halifax
	eS 03 13 21	iP 11 27 44 c
	ePS 03 14 44	i 11 28 04
OCTOBER 2	eSS 03 20 14	i 11 28 07
U.S.C.G.S.	eL 03 36.0	i 11 28 12
29N, 140E	Seven Falls	i 11 28 17
Bonin Islands region	PS 03 17 32	i 11 28 23
H = 10 00 52	e 03 18 59	ipPP 11 30 00
h = 450 km	SS 03 24 31	i 11 34 15
Resolute Bay	SSS 03 29 07	iS 11 34 56
iP 10 11 25 d	L 03 43 29	i 11 35 18
		i 11 37 47
		eSS 11 38 30
		esSS 11 39 00
OCTOBER 2	OCTOBER 3	
U.S.C.G.S.	Ottawa	Kirkland Lake
10 1/2S, 75W	eP 03 16 37 c	iP 11 26 23 d
Central Peru		Ottawa
H = 19 48 50		iP 11 26 56 d, N.W
Ottawa	OCTOBER 3	i 11 27 10
eP 19 58 30	Resolute Bay	PP 11 28 36
	eP 05 16 36 c	S 11 33 12
		e 11 35 58
		SS 11 36 46
		L 11 38 54

DOMINION OBSERVATORIES

Resolute Bay		OCTOBER 4	OCTOBER 6
iP	11 23 57 d	U.S.C.G.S.	U.S.C.G.S.
ipP	11 24 15 d	25N, 122E	52N, 160 1/2E
iPP	11 24 39 d	Formosa	Off southeast coast of
iS	11 28 07	H = 01 33 21	Kamchatka
eL	11 31.1	Resolute Bay	H = 08 20 09
Seven Falls		eL	02 15.8
iP	11 27 10		Resolute Bay
PcP	11 28 58		eP
PP	11 29 03		08 28 14
i	11 29 15	OCTOBER 4	eL
PPP	11 29 46	U.S.C.G.S.	08 42.6
e	11 32 57	27 1/2N, 125 1/2E	
S	11 33 49	Ryukyn Islands region	OCTOBER 7
PS	11 34 03	H = 08 12 18	U.S.C.G.S.
PPS	11 34 10	h = 100 km	Off east coast of New
SS	11 37 11	Resolute Bay	Guinea
SSS	11 37 57	iP	H = 19 18 08
L	11 39 04	08 23 52 d	Ottawa
Shawinigan Falls			eP'
iP	11 26 47 d	OCTOBER 4	19 37 14
i	11 27 04	U.S.C.G.S.	
i	11 27 28	11S, 166E	OCTOBER 8
i	11 29 00	Santa Cruz Islands	U.S.C.G.S.
e	11 41 18	H = 09 32 56	31 1/2S, 71 1/2W
e	11 42 02	Halifax	Central Chile
e	11 42 31	eL	H = 09 14 53
		10 28	h = 100 km
		Ottawa	Kirkland Lake
		eP'	eP
		09 51 49	09 26 56
		Resolute Bay	e
		eSS	09 27 06
		10 06 33	Ottawa
		eL	eP
		10 22.9	09 26 39 d
			i
			09 26 49
OCTOBER 3		OCTOBER 5	OCTOBER 8
U.S.C.G.S.		U.S.C.G.S.	U.S.C.G.S.
1S, 127 1/2E		33N, 141E	44 1/2N, 148E
Molucca Islands		Off south coast of	Kurile Islands
H = 23 21 36		Honshu, Japan	H = 10 46 04
Halifax		H = 04 18 13	Ottawa
eL	24 21	Resolute Bay	eP
Ottawa		eP	04 29 01 d?
eP'	23 40 54 d		10 58 27 d
PP	23 43 22		Resolute Bay
i	23 44 16		eP
PKS	23 44 33		10 55 31 d
Resolute Bay		OCTOBER 5	
eP	23 35 47 c	U.S.C.G.S.	
eSSS	23 59 13	55N, 109E	OCTOBER 9
eL	24 14.7	Lake Baikal, U.S.S.R.	Resolute Bay
Shawinigan Falls		H = 11 28 17	eP
e	23 44 06	Resolute Bay	23 40 19
		eP	11 37 07

SEISMOLOGICAL BULLETIN

<p>OCTOBER 10 U.S.C.G.S. 7N, 78W Near coast of Columbia H = 23 21 40 Ottawa eP        23 29 03 e        23 29 12</p>	<p>OCTOBER 13 U.S.C.G.S. 4N, 83W South of Panama H = 06 02 10 Ottawa eP        06 09 59 c</p>	<p>OCTOBER 16 U.S.C.G.S. 71N, 14W Jan Mayen Isl. region H = 00 28 11 Resolute Bay eP        00 33 12 c eS        00 37 21 eL        00 39.7</p>
<p>OCTOBER 11 Resolute Bay eP        13 32 26</p>	<p>OCTOBER 14 U.S.C.G.S. 7S, 128E Banda Sea H = 01 35 00 Ottawa eP'       01 54 05 e        01 55 09 PKS       01 57 40 e        01 58 02 PPS       02 08 36 SSS       02 20 04 Resolute Bay i        01 51 52 iPP       01 53 49 iSKS      02 00 07 iPS       02 03 16 eSS       02 09 19 eSSS      02 13 11 eL        02 27.0</p>	<p>OCTOBER 16 U.S.C.G.S. Jan Mayen aftershock H = 01 02 19 Resolute Bay eP        01 07 25</p>
<p>OCTOBER 11 U.S.C.G.S. 52N, 162E Near southeast coast of Kamchatka H = 16 11 45 Kirkland Lake eP        16 22 39 Ottawa eP        16 23 02 c Resolute Bay eP        16 19 52 d Shawinigan Falls eP        16 23 09</p>	<p>OCTOBER 15 Resolute Bay eP        01 04 49</p>	<p>OCTOBER 16 Resolute Bay eP        03 06 47 d</p>
<p>OCTOBER 11 U.S.C.G.S. New Hebrides Isl. H = 17 11 17 h = 150 km Ottawa iP'       17 29 55 d</p>	<p>OCTOBER 15 Resolute Bay iP        01 20 34 c</p>	<p>OCTOBER 16 Halifax iP<sub>n</sub>       06 46 12 iS<sub>1</sub>       06 47 04 d = 370 km Ottawa iP<sub>n</sub>       06 48 08 c i        06 50 17 i        06 50 31 iS        06 50 36 SS        06 50 53 Seven Falls eP<sub>n</sub>       06 47 21 e        06 47 27 e        06 47 37 eS        06 49 09 i        06 49 12 i        06 49 28 i        06 49 35</p>
<p>OCTOBER 12 Resolute Bay eP        17 32 33 c</p>	<p>OCTOBER 15 Halifax iP<sub>n</sub>       19 35 25.8           19 35 29.0 (S<sub>1</sub>P<sub>1</sub>)    19 35 31 iS<sub>1</sub>       19 35 49 d = 180 km</p>	<p>Shawinigan Falls iP        06 47 38 eS        06 49 41</p>
<p>OCTOBER 12 U.S.C.G.S. Northern Algeria H = 19 23 30</p>		

DOMINION OBSERVATORIES

OCTOBER 16	Shawinigan Falls	Resolute Bay
U.S.C.G.S.	eP 23 03 32	eP 14 06 57
Jan Mayen aftershock	eL 23 16 18	
H = 20 15 32		
Resolute Bay	OCTOBER 19	OCTOBER 20
eP 20 20 39	Halifax	Resolute Bay
i 20 23 05	iP 05 41 21 c	eP 19 12 06
eS 20 24 55		
eL 20 27.2		
OCTOBER 17	OCTOBER 19	OCTOBER 20
Kirkland Lake	Resolute Bay	U.S.C.G.S.
eP 15 13 51 d?	eP 17 02 45	31N, 141E
Ottawa		South of Honshu, Japan
iP 15 13 32 c	OCTOBER 19	H = 23 41 43
	U.S.C.G.S.	Resolute Bay
	57 1/2N, 32 1/2W	eP 23 52 48 c?
OCTOBER 17	North Atlantic Ocean	eL 24 18 55
U.S.C.G.S.	H = 17 48 14	
31 1/2N, 116 1/2W	Halifax	OCTOBER 21
Lower California	i 17 53 31 d	U.S.C.G.S.
H = 22 57 18	Kirkland Lake	41S, 80 1/2E
Halifax	eP 17 54 24 c	South Indian Ocean
iS 23 11 44	Ottawa	H = 00 10 07
i(PPS) 23 12 29	eP 17 54 20	Halifax
iSS 23 15 16	eS 17 59 02	iSS 00 53 50
eG 23 18	e 18 00 02	iSSS 00 59 27
Ottawa	SSS 18 01 30	eL 01 21
iP 23 04 13 d	eL 18 02 50	Kirkland Lake
i 23 05 17	Resolute Bay	e 00 30 12
PP 23 05 32	eP 17 54 11	Ottawa
PPP 23 05 53	iPP 17 54 52	eP <sub>2</sub> ' 00 31 09
P <sub>C</sub> P 23 06 51	eS 17 59 02	e 00 39 30
S 23 09 42	eSS 18 00 45	PPS 00 47 04
e 23 11 14	eL 18 02.6	SS 00 55 14
iSS 23 11 52	Seven Falls	Resolute Bay
e 23 13 02	eP 17 53 44	eP' 00 29 49 c
ScS 23 14 36	SS 17 58 33	e 00 30 01
L 23 15 08	eL 18 00 57	ePSKS 00 43 40
Resolute Bay	Shawinigan Falls	eSS 00 52 27
eP 23 05 35	eP 17 54 02	eSSS 00 57 55
eS 23 12 15	ePP 17 55 03	eL 01 23.3
eSS 23 15 25		
eL 23 19.0		
Seven Falls	OCTOBER 20	OCTOBER 21
eP 23 04 55	U.S.C.G.S.	U.S.C.G.S.
e 23 15 27	Central Formosa	14N, 90 1/2W
eL 23 16 20	H = 13 54 51	Guatemala
		H = 06 51 48
		h = 60 km

SEISMOLOGICAL BULLETIN

Halifax		OCTOBER 21	Shawinigan Falls
iPP	07 00 43	U.S.C.G.S.	eP 09 51 17
iS	07 04 55	10S, 75W	e 10 03 06
eSS	07 08 05	Central Peru	
eL	07 10	H = 20 03 00	
Kirkland Lake		h = 100 km	OCTOBER 24
eP	06 58 41 c?	Kirkland Lake	U.S.C.G.S.
iP	06 58 42 d	eP 20 12 58	Lower California
i	06 58 58 d	Ottawa	aftershock
Ottawa		eP 20 12 28 c	H = 11 21 18
eP	06 58 28	Resolute Bay	Ottawa
i	06 58 46	eP 20 15 32	eP 11 28 17
PPP	07 00 12		
S	07 03 52		
e	07 04 28	OCTOBER 23	OCTOBER 27
e	07 05 24	U.S.C.G.S.	Ottawa
SS	07 06 05	45N, 148E	iP 02 51 17 d
SSS	07 06 30	Kurile Islands	
e	07 06 54	H = 00 45 08	
L	07 10 30	h = 100 km	OCTOBER 27
Resolute Bay		Resolute Bay	U.S.C.G.S.
eP	07 01 55	eP 00 54 13	51N, 176 1/2W
eS	07 10 01		Andreanof Islands
ePS	07 10 36		H = 03 22 54
eSS	07 13 58	OCTOBER 24	Ottawa
eL	07 20.2	U.S.C.G.S.	eP 03 33 16 d
Seven Falls		31 1/2N, 116W	
e	06 59 01	Lower California	
eS	07 04 37	H = 09 44 05	OCTOBER 27
SS	07 06 53	Halifax	U.S.C.G.S.
e	07 08 30	eG 10 04	40N, 77E
L	07 09 53	Kirkland Lake	Sinkiang province, China
Shawinigan Falls		eL 10 01.1	H = 21 48 41
eP	06 58 47	Ottawa	Resolute Bay
e	06 59 02	eP 09 50 55 d	eP 21 59 30 c
eS	07 04 22	PP 09 52 10	
e	07 09 39	PPP 09 52 35	
		P <sub>c</sub> P 09 53 32	OCTOBER 27
		S 09 56 22	U.S.C.G.S.
		SSS 09 59 38	Kodiak Islands region
		S <sub>c</sub> S 10 01 18	H = 23 52 06
		L 10 02 04	Resolute Bay
OCTOBER 21		Resolute Bay	eP 23 58 19
Shawinigan Falls		eP 09 52 01	
e	16 06 30	e 09 52 19	
e	16 06 41	e 09 57 29	
		eL 10 05.9	OCTOBER 29
		Seven Falls	Resolute Bay
		eP 09 51 24	eP 15 57 42
		e 10 00 45	
OCTOBER 21		eL 10 04 03	
Halifax			
i(P)	16 38 36		

DOMINION OBSERVATORIES

OCTOBER 30  
 U.S.C.G.S.  
 50N, 157E  
 Northern Kurile  
 Islands  
 H = 16 05 02  
 Resolute Bay  
 iP 16 13 38 c

OCTOBER 30  
 U.S.C.G.S.  
 38N, 104E  
 Ningsia province, China  
 H = 21 56 50  
 Resolute Bay  
 iP 22 07 45 d

OCTOBER 30  
 U.S.C.G.S.  
 40N, 46E  
 Azerbaijan, S.S.R.  
 Ottawa  
 eP 23 55 42 c  
 Seven Falls  
 eP 23 55 22  
 Resolute Bay  
 eP 23 55 48

OCTOBER 31  
 U.S.C.G.S.  
 18 1/2S, 170E  
 New Hebrides Isl.  
 H = 23 12 52  
 Halifax  
 eL 23 13  
 Ottawa  
 eP' 23 31 46 c  
 Resolute Bay  
 ePS 23 41 25  
 eSS 23 47 29  
 eL 24 06.8

NOVEMBER 1  
 U.S.C.G.S.  
 14N, 92W  
 Off coast of  
 Guatemala  
 H = 20 56 22  
 h = km  
 Kirkland Lake  
 eP 21 03 23 c?  
 Ottawa  
 iP 21 03 10 c  
 P<sub>c</sub>P 21 05 44  
 S 21 08 38  
 SS 21 11 04  
 S<sub>c</sub>S 21 13 22  
 L 21 15 10  
 Resolute Bay  
 eL 21 32.0  
 Shawinigan Falls  
 e 21 03 29  
 e 21 03 37  
 eP<sub>c</sub>P 21 06 04

NOVEMBER 2  
 U.S.C.G.S.  
 7 1/2S, 119E  
 Sumbawa Isl. region  
 H = 08 24 08  
 Halifax  
 eP' 08 43 52  
 i 08 47 18  
 eSKS 08 51 10  
 eSKKS 08 53 41  
 ePS 08 58 25  
 iSS 09 05 34  
 e(SSS) 09 11 55  
 Kirkland Lake  
 eP' 08 43 38  
 ePP 08 46 23 d?  
 Ottawa  
 iP' 08 43 43 c  
 i 08 45 21  
 i 08 45 35  
 PP 08 46 38  
 i 08 47 01  
 PKS 08 47 18  
 PPP 08 50 05  
 SKS 08 50 52  
 SKKS 08 53 40

e 08 56 00  
 PS 08 57 04  
 PPS 08 59 03  
 SS 09 05 06  
 Resolute Bay  
 ePP 08 43 35  
 eSKS 08 49 19  
 ePS 08 52 55  
 eSS 08 58 45  
 eSSS 09 03 09  
 eL 09 20.0  
 Seven Falls  
 eP' 08 44 04  
 e 08 46 25  
 PP 08 47 23  
 PKS 08 47 56  
 Shawinigan Falls  
 eP' 08 43 43  
 PP 08 46 50  
 PKS 08 47 16

NOVEMBER 2  
 U.S.C.G.S.  
 38N, 104E  
 Ningsia province,  
 China  
 H = 10 05 26  
 Resolute Bay  
 eL 10 32.4

NOVEMBER 2  
 Shawinigan Falls  
 e 16 23 03

NOVEMBER 2  
 Kirkland Lake  
 iP 20 47 04 c?

NOVEMBER 3  
 Resolute Bay  
 iP 18 19 18 c



SEISMOLOGICAL BULLETIN

- NOVEMBER 5  
U.S.C.G.S.  
39 1/2N, 142E  
Near coast of northern  
Honshu, Japan  
H = 09 10 24  
Resolute Bay  
iP 09 20 34 d
- NOVEMBER 5  
U.S.C.G.S.  
Northern Kurile Isl.  
H = 13 07 05  
Resolute Bay  
eP 13 15 48
- NOVEMBER 5  
U.S.C.G.S.  
52 1/2N, 160 1/2E  
Off east coast of  
Kamchatka  
H = 22 46 44  
Kirkland Lake  
eP 22 57 41  
Ottawa  
iP 22 58 15 d  
Resolute Bay  
iP 22 54 51 c  
eL 23 11.1
- NOVEMBER 6  
U.S.C.G.S.  
23 1/2N, 124E  
Southern Ryukyu Islands  
H = 13 07 14  
Resolute Bay  
iP 13 19 21 c
- NOVEMBER 7  
U.S.C.G.S.  
52 1/2N, 160 1/2E  
Near coast of  
Kamchatka  
H = 07 06 00
- Resolute Bay  
eP 07 14 14
- NOVEMBER 7  
Kirkland Lake  
iP=H= 07 25 16  
Large rockburst  
Shawinigan Falls  
eP<sub>n</sub> 07 27 01.4  
eS<sub>n</sub> 07 27 59.2  
e 07 28 20.5  
e 07 28 25.0
- NOVEMBER 8  
Resolute Bay  
eP 00 54 32
- NOVEMBER 8  
Resolute Bay  
eP 20 19 04  
e 20 21 50  
e 20 23 47
- NOVEMBER 8  
Resolute Bay  
eP 21 59 43
- NOVEMBER 9  
U.S.C.G.S.  
43N, 142E  
Hokkaido, Japan  
H = 11 35 22  
Ottawa  
eP 11 48 01 c  
Resolute Bay  
iP 11 45 07 d
- NOVEMBER 9  
Halifax  
eL 18 09
- NOVEMBER 9  
Halifax  
iP 19 37 12 d
- NOVEMBER 10  
U.S.C.G.S.  
56 1/2N, 160E  
Kamchatka  
H = 07 24 52  
h = 100 km  
Halifax  
iP 07 36 15 d  
iPP 07 36 46 c  
Kirkland Lake  
e 07 35 52  
Ottawa  
iP 07 35 46 c  
i 07 36 16  
Resolute Bay  
iP 07 32 29 d
- NOVEMBER 11  
U.S.C.G.S.  
Persian Gulf  
H = 05 14 10  
Ottawa  
e(P) 05 27 45  
Resolute Bay  
eP 05 26 15 c
- NOVEMBER 12  
U.S.C.G.S.  
31 1/2N, 116W  
Lower California  
H = 12 26 47  
Halifax  
iP 12 34 48 d  
i 12 34 51  
iPP 12 36 30  
iS 12 41 15  
iSS 12 44 26  
eL 12 48 40  
Kirkland Lake  
eP 12 33 17 c





SEISMOLOGICAL BULLETIN

Halifax		NOVEMBER 18		NOVEMBER 19
iP'	17 35 41 d	U.S.C.G.S.		Kirkland Lake
Resolute Bay		39N, 142E		eP 14 58 12
iP	17 29 24 d	Honshu, Japan		e 14 58 44
e(pP)	17 32 14	H = 20 44 55		Ottawa
		Kirkland Lake		iP 14 57 53 d
		eP 20 57 35		i 14 58 25
		Ottawa		
		iP 20 57 53 d		
NOVEMBER 18		Resolute Bay		NOVEMBER 20
U.S.C.G.S.		iP 20 55 07 c		Resolute Bay
49N, 155E		eL 21 16.4		eP 04 13 37
Kurile Islands				
H = 05 20 04				
h = 100 km				
Halifax		NOVEMBER 19		NOVEMBER 20
eP 05 32 10		U.S.C.G.S.		U.S.C.G.S.
iS 05 42 15		41N, 131 1/2E		22S, 69W
eSSS 05 51 00		Sea of Japan		Northern Chile
eL 06 01 10		H = 05 56 03		H = 07 01 52
Kirkland Lake		h = 600 km		h = 150 km
eP 05 31 20		Halifax		Kirkland Lake
Ottawa		iP 06 08 22 c		eP 07 12 59 c?
eP 05 31 43 c		iS 06 18 39		Ottawa
P <sub>c</sub> P 05 31 55		i(sS) 06 22 08		iP 07 12 34 c
pP 05 32 09		iSS 06 25 15		
S 05 41 22		eSSS 06 28 20		
SSS 05 50 00				
Resolute Bay		Kirkland Lake		NOVEMBER 20
iP 05 28 38 c		iP 06 07 50 c		Ottawa
ePP 05 30 36		epP 06 09 50 d?		iP <sub>n</sub> 14 17 39
eS 05 35 34		ePP 06 11 26 c?		eS <sub>n</sub> 14 17 56
eSS 05 40 11		e(SKS) 06 17 42		L 14 18 04
eL 05 43.1		Ottawa		d = 150 km
Shawinigan Falls		eP 06 08 06 c		
iP 05 31 44 d?		i 06 08 26		
		i 06 09 57		
		sP 06 11 25		NOVEMBER 20
		PP 06 11 55		Ottawa
NOVEMBER 18		S 06 18 11		iP <sub>n</sub> 19 18 19.0
Halifax		sS 06 21 35		i 19 18 20.5
i 06 58 11		SS 06 24 36		S <sub>n</sub> 19 18 36.0
e 06 59 07				L 19 18 44.0
		Resolute Bay		d = 150 km
		iP 06 05 20 c		
		iP <sub>c</sub> P 06 05 59		
		eS 06 12 52		
NOVEMBER 18		iS <sub>c</sub> S 06 14 16		
Seven Falls		SS 06 18 00		
e(S <sub>1</sub> ) 13 14 40				
i 13 14 41		Seven Falls		NOVEMBER 21
F 13 14 59		eP 06 08 05		Resolute Bay
Local shock ?		S 06 18 10		eP 03 41 05
Benioff not operating		sS 06 21 42		e 03 44 13
				e 03 46 08
				e 03 46 40

DOMINION OBSERVATORIES

NOVEMBER 21	NOVEMBER 22	Kirkland Lake
U.S.C.G.S.	Ottawa	eP 10 10 36 c?
2S, 126E	iP <sub>n</sub> 20 04 04.0	Ottawa
Ceram Sea	i 20 04 05.5	iP 10 11 00 d
H = 04 48 32	S <sub>n</sub> 20 04 21.5	i 10 11 25
Ottawa	L 20 04 29.0	Resolute Bay
eP' 05 07 47	d = 150 km	iP 10 07 48 c
Resolute Bay		eL 10 24.0
ePP 05 06 55		
	NOVEMBER 23	NOVEMBER 23
NOVEMBER 21	U.S.C.G.S.	U.S.C.G.S.
U.S.C.G.S.	Assam-China border	52 1/2N, 160E
29S, 178W	H = 02 30 48	Off coast of Kamchatka
Kermadec Islands	Resolute Bay	H = 10 17 35
H = 07 37 27	eP 02 42 40	h = 60 km
Halifax		Halifax
i(P') 07 56 59		iP 10 29 22 d
e 08 18 34	NOVEMBER 23	Kirkland Lake
e 08 32 11	Halifax	eP 10 28 29 c?
eL 08 38.5	iP <sub>1</sub> 03 43 04	Ottawa
Ottawa	iS <sub>1</sub> 03 43 19	iP 10 28 53 d
iPP 07 57 46	d = 120 km	i 10 29 20
i 08 02 29		Resolute Bay
SKS 08 03 11	NOVEMBER 23	iP 10 25 42 c
SKKS 08 04 32	U.S.C.G.S.	ipP 10 26 06
e 08 05 30	72N, 1 1/2W	eL 10 42
PS 08 07 24	Jan Mayen Island region	Seven Falls
SS 08 13 40	H = 04 25 33	e(P) 10 29 10
Resolute Bay	Resolute Bay	
eP' 07 56 01	eP 04 30 57	NOVEMBER 23
eS 08 05 09	eL 04 38.7	U.S.C.G.S.
ePS 08 06 59		38N, 15E
eSS 08 13 33	NOVEMBER 23	Near north coast of
eL 08 31.5	U.S.C.G.S.	Sicily
	Northern Kurile Isl.	H = 12 59 36
NOVEMBER 21	H = 06 24 10	Ottawa
U.S.C.G.S.	Resolute Bay	eP 13 10 17
51N, 159 1/2E	eP 06 32 55	Resolute Bay
Near south coast of		eP 13 09 35 c
Kamchatka		
H = 16 15 26	NOVEMBER 23	NOVEMBER 23
Resolute Bay	U.S.C.G.S.	U.S.C.G.S.
eP 16 23 45	53N, 159 1/2E	19 1/2S, 69W
	Off coast of Kamchatka	Chile-Bolivia border
NOVEMBER 21	H = 09 59 45	H = 15 52 29
Resolute Bay	h = 60 km	
e 21 04 00		
i 21 07 32		

SEISMOLOGICAL BULLETIN

Kirkland Lake		NOVEMBER 24	iPPP	11 25 36
iP	16 03 30 d	U.S.C.G.S.	iS	11 29 38
i!	16 03 30.5 c	20S, 169E	eL	11 33
Ottawa		Loyalty Islands	Seven Falls	
eP	16 03 10 d	H = 00 33 42	eP	11 24 11
		Ottawa	pP	11 24 30
		eP'	PP	11 25 44
			PPP	11 26 15
NOVEMBER 23			S	11 30 15
Halifax		NOVEMBER 24	SS	11 32 52
e(P)	19 10 53	Halifax	SSS	11 33 28
		iP <sub>1</sub>	e	11 34 53
NOVEMBER 23		iS <sub>1</sub>	L	11 37 30
Halifax		d = 17 km	Shawinigan Falls	
e(P)	19 29 04		eP	11 23 56
			i!	11 24 04 d
			i	11 24 30
NOVEMBER 23		NOVEMBER 25	e	11 24 53
Halifax		Halifax	e	11 24 24
iP <sub>n</sub>	19 39 58.5	i(P)	e	11 26 12
iS <sub>1</sub>	19 40 21.5		e	11 36 48
d = 175 km			e	11 36 41
		NOVEMBER 25		
		U.S.C.G.S.		
		40 1/2N, 126W		
NOVEMBER 23		Off Cape Mendocino,	NOVEMBER 25	
U.S.C.G.S.		California	U.S.C.G.S.	
52N, 160 1/2E		H = 11 16 36	Off coast of Hokkaido,	
Off southeast coast of		Halifax	Japan	
Kamchatka		iP	H = 12 05 00	
H = 21 12 55		iP <sub>c</sub> P	Ottawa	
h = 60 km		iS	eP	12 17 40
Halifax		iPS	ipP	12 17 55
iP	21 24 43 c	Ottawa	Resolute Bay	
ipP	21 24 55 d	iP	iP	12 14 43 c
eL	21 54	PP	Shawinigan Falls	
Kirkland Lake		i	iP	12 17 55 d
eP	21 23 44	PPP		
Ottawa		P <sub>c</sub> P		
eP	21 24 15 d	e		
epP	21 24 43	S	NOVEMBER 25	
ePP	21 27 04	e	U.S.C.G.S.	
Resolute Bay		SS	15N, 94 1/2W	
eP	21 21 00 c?	SSS	Off coast of Chiapas,	
i	21 21 15 c	S <sub>c</sub> S	Mexico	
e	21 26 37	L	H = 20 48 50	
eS	21 27 30	Resolute Bay	Halifax	
eL	21 32	eP	ePP	20 58 07
		i	eS	21 02 40
		i	eL	21 08

DOMINION OBSERVATORIES

Ottawa		NOVEMBER 27		NOVEMBER 30
eP	20 55 33	U.S.C.G.S.		Resolute Bay
ePPP	20 57 10	12N, 87W		eP 20 33 00
SSS	21 04 02	Near coast of		eL 20 40.0
S <sub>c</sub> S	21 06 02	Nicaragua		
L	21 06 24	H = 16 02 22		
Resolute Bay		Halifax		DECEMBER 2
eP	20 58 55 d?	eP 16 09 43		U.S.C.G.S.
eS	21 07 16	eS 16 15 45		Off east coast of
eL	21 21.2	eL 16 22.5		Kamchatka
		Kirkland Lake		H = 17 15 01
		eP 16 09 31		Resolute Bay
		Ottawa		eP 17 23 10
		eP 16 09 14 c		
		i 16 09 23		DECEMBER 2
NOVEMBER 25		Shawinigan Falls		U.S.C.G.S.
U.S.C.G.S.		eP 16 09 28		12N, 86 1/2W
21 1/2S, 179E		e 16 09 44		Near coast of Nicaragua
Fiji Isl. region				H = 23 13 29
H = 21 33 38				h = 100 km
h = 650 km				Halifax
Ottawa				iP 23 20 47 d
iP'	21 51 14 d	NOVEMBER 29		Kirkland Lake
PP	21 52 26	U.S.C.G.S.		iP 23 20 33 d?
pP'	21 53 51	53 1/2N, 160E		Ottawa
S	21 59 20	Near east coast of		eP 23 20 16 c
e	22 03 20	Kamchatka		Resolute Bay
sS	22 03 34	H = 01 39 02		eP 23 23 50 c
SS	22 07 20	Halifax		
Resolute Bay		iP 01 50 49 c		DECEMBER 3
eP'	21 51 01	Kirkland Lake		U.S.C.G.S.
ePP	21 51 45	iP 01 49 55 c		Off coast of Nicaragua
eS	21 58 13	Ottawa		H = 02 10 45
		iP 01 50 20 c		Kirkland Lake
		Resolute Bay		eP 02 18 05 d
		iP 01 47 03 c		Ottawa
		i 01 47 15 c		eP 02 17 47 d
		i 01 48 14 c		Resolute Bay
		i(PP) 01 48 54		eP 02 21 21
		Shawinigan Falls		
		eP 01 50 20 c		DECEMBER 3
NOVEMBER 27				Resolute Bay
U.S.C.G.S.				eP 06 48 34
21S, 68W		NOVEMBER 30		
Chile-Bolivia border		Resolute Bay		
H = 08 03 09		eP 06 48 34		
Halifax				
iP	08 13 44 d			
Kirkland Lake				
iP	08 14 46 d			
i	08 14 46.5 c			
Ottawa				
iP	08 14 01 d			

SEISMOLOGICAL BULLETIN

DECEMBER 3

U.S.C.G.S.  
44N, 127W  
Off coast of Oregon  
H = 08 46 02

Halifax

iP 08 54 22 c  
eL 09 08 35

Ottawa

eP 08 53 15 c  
eS 08 58 48  
eL 09 04.5

Resolute Bay

eP 08 52 50 c  
ePP 08 53 52  
eS 08 58 18  
eL 09 01

DECEMBER 3

U.S.C.G.S.  
67 1/2N, 136W  
Yukon, Canada  
H = 19 09 02

Ottawa

i 19 28 31  
e 19 29 16

Resolute Bay

eP 19 12 35  
eS 19 15 11  
eL 19 17

Shawinigan Falls

i 19 27 46 c  
i 19 28 45 c

DECEMBER 3

U.S.C.G.S.  
41 1/2N, 74 1/2E  
Kirgiz, S.S.R.  
H = 21 38 12

Resolute Bay

eP 21 48 49  
e 21 49 04  
eL 22 11.3

Shawinigan Falls

i 21 51 06 d?

DECEMBER 3

Shawinigan Falls  
i 22 03 46 d

DECEMBER 3

U.S.C.G.S.  
5N, 125 1/2E  
Near south coast of  
Mindanao, P.I.  
H = 22 06 20  
h = 250 km

Seven Falls

iP' 22 24 56 d

DECEMBER 3

U.S.C.G.S.  
3 1/2S, 148E  
Bismarck Sea  
H = 22 27 38

Ottawa

iP' 22 46 32 d

Seven Falls

iP' 22 46 34 d

DECEMBER 4

Resolute Bay  
e 01 35 49  
e 01 36 08

DECEMBER 4

Shawinigan Falls  
i 02 04 16 c?

DECEMBER 4

U.S.C.G.S.  
5S, 152 1/2E  
New Britain region  
H = 07 00 29

Halifax

iP' 07 19 43 c  
iPKS 07 23 02  
eL 07 56

Kirkland Lake

eP' 07 19 21

Ottawa

iP 07 19 27 c  
PP 07 20 59  
SKS 07 26 27  
SKKS 07 28 04  
PS 07 30 48  
PPS 07 32 26  
SS 07 38 12

Resolute Bay

iP 07 14 21 d  
ePP 07 18 24  
iSKS 07 24 56  
ePS 07 27 20  
eSS 07 32 38  
eL 07 46

Shawinigan Falls

iP' 07 19 29 d  
ePP 07 21 01

DECEMBER 4

U.S.C.G.S.  
20N, 69W  
Near north coast of  
Dominion Republic  
H = 18 10 23

Ottawa

eP 18 16 10 d  
e 18 16 49  
PP 18 17 01  
PPP 18 17 21  
S 18 20 52

Resolute Bay

eP 18 20 11

Seven Falls

eP 18 16 15  
PP 18 17 18  
PPP 18 17 29  
e 18 21 39

Shawinigan Falls

iP 18 16 13

DECEMBER 4

U.S.C.G.S.  
11N, 61W  
Near Trinidad  
H = 18 31 07



DOMINION OBSERVATORIES

Halifax		DECEMBER 6	DECEMBER 7
iP	18 37 51 c	U.S.C.G.S.	U.S.C.G.S.
epP	18 38 26	3 1/2S, 151E	54N, 164 1/2W
esP	18 38 32	New Ireland region	Near Unimak Island,
i	18 39 00	H = 02 51 40	Alaska
ePP	18 39 14	Halifax	H = 06 21 33
iS	18 43 12	eL 03 48.5	Resolute Bay
isS	18 43 48	Ottawa	eP 06 28 08
i	18 44 12	eP' 03 10 45 c	eL 06 43.2
eL	18 47 00	Resolute Bay	
Kirkland Lake		eP 03 05 29	DECEMBER 7
eP	18 38 47 c?	eSS 03 24 02	Resolute Bay
Ottawa		eL 03 36	e 09 25 15
eP	18 38 14 c		i 09 25 34
PP	18 39 34	DECEMBER 6	Probably local
e	18 39 49	Shawinigan Falls	disturbance
PPP	18 40 02	i 03 49 37	
P <sub>C</sub> P	18 40 20	e 03 49 50	
e	18 43 23		DECEMBER 7
S	18 43 50		U.S.C.G.S.
G	18 46 20		3 1/2N, 125 1/2E
Resolute Bay		DECEMBER 6	Celebes Sea region
iP	18 41 57 d	Resolute Bay	H = 14 48 30
ipP	18 42 13 c	eP 03 53 16	h = 100 km
isP	18 42 20 c		Ottawa
ePP	18 44 17 c	DECEMBER 6	eP' 15 07 31 d
epPP	18 44 25 c	U.S.C.G.S.	Resolute Bay
ePPP	18 46 19	54 1/2N, 161E	eP 15 02 02
iS	18 50 42	Near east coast of	
epS	18 51 09	Kamchatka	DECEMBER 7
eS <sub>C</sub> S	18 51 46	H = 11 56 24	Ottawa
eSS	18 54 57	Kirkland Lake	iP <sub>n</sub> 20 48 08
eSSS	18 58 15	eP 12 07 08 d?	i 20 48 10
eL	19 00	Ottawa	S <sub>n</sub> 20 48 25
Seven Falls		iP 12 07 32 d	L 20 48 34
eP	18 38 14 d	Resolute Bay	d = 150 km
e	18 39 10	eP 12 04 14	
PP	18 39 42		DECEMBER 8
e	18 39 58	DECEMBER 6	Halifax
P <sub>C</sub> P	18 40 36	U.S.C.G.S.	iP 04 31 31.0
S	18 44 01	11S, 166E	Probably local
sS	18 44 36	Santa Cruz Islands	disturbance
G	18 46 48	H = 23 45 51	
Shawinigan Falls		Ottawa	
iP	18 38 18 d	iP' 24 04 39 c	DECEMBER 9
		Resolute Bay	Resolute Bay
DECEMBER 5		eL 24 38.6	eP 12 26 09
Resolute Bay			
e	00 39 46		



SEISMOLOGICAL BULLETIN

DECEMBER 9	Seven Falls	Resolute Bay
U.S.C.G.S.	iP 13 06 45 c	iP 13 03 36 d?
15 1/2S, 76W	S 13 11 53	i(PPP) 13 05 01
Off coast of Peru	L 13 15 21	iS 13 09 01
H = 14 13 27	Shawinigan Falls	eL 13 12
Ottawa	eP 13 06 35	Seven Falls
iP 14 23 40 d		iP 13 02 37 c
Resolute Bay		i 13 02 44
eP 14 26 34 c	DECEMBER 10	pP 13 02 53
Seven Falls	Resolute Bay	PPP 13 03 35
iP 14 23 52 d	e 16 35 53	e 13 04 16
Shawinigan Falls		e 13 05 04
i 14 23 50 c		S 13 07 03
	DECEMBER 11	Shawinigan Falls
DECEMBER 9	U.S.C.G.S.	iP 13 02 50 c
U.S.C.G.S.	1 1/2S, 13 1/2W	e 13 03 00
12N, 144E	Off coast of Liberia	e 13 07 29
Marianas Islands	H = 03 32 15	
H = 14 30 26	Kirkland Lake	DECEMBER 12
Resolute Bay	eP 03 44 11	U.S.C.G.S.
eP 14 43 11 d?	Ottawa	Kermadec Islands
	iP 03 43 41 c	H = 10 39 32
		Resolute Bay
		eP' 10 58 31
DECEMBER 10	DECEMBER 11	
U.S.C.G.S.	U.S.C.G.S.	DECEMBER 12
18 1/2N, 81 1/2W	52 1/2N, 32W	eP 13 37 38
West of Jamaica	North Atlantic Ocean	
H = 13 00 27	H = 12 57 07	DECEMBER 13
Halifax	Halifax	U.S.C.G.S.
eP 13 06 36	Beginning lost in	Southern Kurile Islands
iPP 13 07 31	changing records	H = 01 29 50
iS 13 11 54	iS 13 06 08	Resolute Bay
eG 13 13 05	iSS 13 06 50	iP 01 39 14 d?
Kirkland Lake	iSSS 13 07 08	
eP 13 06 48 c	Kirkland Lake	DECEMBER 13
Ottawa	eP 13 03 30 c?	Preliminary Ottawa
iP 13 06 21 c	i 13 03 30.5 d	epicentre
PP 13 07 12	Ottawa	44.7N, 74.5W
S 13 11 05	iP 13 03 12 c	H = 03 53 53.5
e 13 11 36	pP 13 03 37	Halifax
SS 13 12 24	PP 13 04 14	e(S <sub>1</sub> ) 03 57 53
L 13 14 00	sPP 13 04 37	d = 850 km
Resolute Bay	e 13 05 33	Kirkland Lake
eP 13 10 20 c	P <sub>c</sub> P 13 06 16	e 03 56 06.5
eS 13 18 11	S 13 08 05	e 03 56 21
eSS 13 22 17	sS 13 08 38	eS <sub>1</sub> 03 56 33
eSSS 13 23 15	SSS 13 10 20	d = 570 km
eL 13 27		





DOMINION OBSERVATORIES

DECEMBER 19	DECEMBER 21	S	20 08 56
Resolute Bay	Resolute Bay	P <sub>c</sub> S	20 09 20
e 18 11 37	e 03 00 20	SS	20 11 30
		S <sub>c</sub> S	20 13 45
		L	20 14 30
DECEMBER 20	DECEMBER 21	Resolute Bay	
U.S.C.G.S.	U.S.C.G.S.	iP	20 03 33 c
Central Argentina	3 1/2S, 145 1/2E	i(PP)	20 04 52
Chile border	Bismarck Sea	iPPP	20 05 22
H = 01 38 01	H = 11 57 19	iS	20 09 15
h = 100 km	Halifax	eSS	20 11 25
Kirkland Lake	eL 13 01	eL	20 13.0
iP 01 50 10 c	Resolute Bay	Seven Falls	
Ottawa	eL 12 41	iP	20 03 44 c
iP 01 49 53 c		PP	20 05 10
e 01 50 11		P <sub>c</sub> P	20 06 00
		S	20 09 30
DECEMBER 20	DECEMBER 21	e	20 10 22
Resolute Bay	U.S.C.G.S.	SS	20 11 45
e 03 35 20	Near coast of	SSS	20 12 16
	Guatemala	S <sub>c</sub> S	20 14 04
	H = 10 06 10	L	20 14 53
	h = 150 km	Shawinigan Falls	
DECEMBER 20	Ottawa	eP	20 03 28
Ottawa	eP 10 12 44 c	e	20 04 47
iP 09 03 20 d		e(S <sub>c</sub> S)	20 13 34
		e	20 15 31
DECEMBER 20	DECEMBER 21		
U.S.C.G.S.	U.S.C.G.S.		
Fallon, Nevada,	40.9N, 123.9W		
aftershock	Humboldt county,		
H = 17 36 47	California		
Resolute Bay	H = 19 56 27.5		
eP 17 43 56	Halifax		
eL 17.9	iP 20 04 31 c		
	i 20 06 03		
	iPP 20 06 15		
	iS 20 11 04		
	iSS 20 14 24		
	eL 20 19.4		
DECEMBER 21	Kirkland Lake		
U.S.C.G.S.	iP 20 02 51 c		
20N, 121 1/2E	Ottawa		
Off north coast of	iP 20 03 20 c		
Luzon, P.I.	(pP) 20 03 42		
H = 01 22 17	PP 20 04 31		
Resolute Bay	(sPP) 20 05 20		
eP 01 34 43	P <sub>c</sub> P 20 05 45		
	e 20 08 26		
	e 20 08 38		
		DECEMBER 21	
		U.S.C.G.S.	
		22 1/2N, 146E	
		Marianas Islands region	
		H = 22 04 05	
		Resolute Bay	
		eP 22 15 55	
		eL 22 47.3	
		DECEMBER 22	
		U.S.C.G.S.	
		5 1/2S, 154 1/2E	
		Soloman Islands	
		H = 04 18 16	
		Ottawa	
		eP' 04 37 14 d	

SEISMOLOGICAL BULLETIN

DECEMBER 23 Halifax eP 14 37 35	DECEMBER 24 U.S.C.G.S. 16 1/2N, 96W Oaxaca, Mexico H = 12 26 11 Kirkland Lake eP 12 33 03 Ottawa iP 12 32 56 d i 12 33 04 Resolute Bay eP 12 36 08 Seven Falls eP 12 33 33 d	DECEMBER 26 U.S.C.G.S. El Salvador H = 18 10 35 h = 200 km Resolute Bay eP 18 20 31
DECEMBER 23 U.S.C.G.S. 38N, 21E Near west coast of Greece H = 16 27 16 Ottawa iP 16 38 25 c Resolute Bay eP 16 37 27 c eL 16 58 Seven Falls iP 16 37 57 c i 16 38 07 Shawinigan Falls iP 16 38 08	DECEMBER 24 Resolute Bay e 20 08 06	DECEMBER 26 Resolute Bay e 19 14 43 c e 19 19 30
DECEMBER 24 U.S.C.G.S. Santa Cruz Island H = 00 56 17 h = 150 km Ottawa iP' 01 14 46 d Seven Falls iP' 01 14 50 d	DECEMBER 25 Kirkland Lake e 01 38 01 Ottawa e(P) 01 38 35 c Resolute Bay e 01 37 50	DECEMBER 27 U.S.C.G.S. 19S, 178W Fiji Islands H = 05 32 45 h = 500 km Resolute Bay eP' 05 49 58
DECEMBER 24 U.S.C.G.S. Bonin Islands H = 02 34 53 Resolute Bay eP 02 46 09	DECEMBER 25 Resolute Bay e 17 50 52	DECEMBER 27 U.S.C.G.S. 5 1/2S, 130E Banda Sea H = 06 47 23 Kirkland Lake eP' 07 06 37 Ottawa eP' 07 06 45 d Resolute Bay eP 07 01 39 Seven Falls eP' 07 06 44 d i 07 06 46
DECEMBER 24 Resolute Bay e 12 05 15	DECEMBER 26 U.S.C.G.S. 30N, 141 1/2E South of Honshu, Japan H = 03 41 01 h = 200 km Resolute Bay eP 03 51 51 e(pP) 03 52 46 ePS 04 01 46 eL 04 15	DECEMBER 27 Ottawa i(P) 07 09 55 d

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Seven Falls i(P) 07 09 56 d	Resolute Bay eP 01 14 29 c? eSKS 01 25 07 ePS 01 27 31	Resolute Bay eP 02 28 05 c? eL 02 49
DECEMBER 27 U.S.C.G.S. 30 1/2N, 141E Off south coast of Honshu, Japan H = 07 19 16	ePPS 01 28 20 eSS 01 33 14 eSSS 01 37 21 eL 01 48	Seven Falls eP' 02 33 16 d Shawinigan Falls eP' 02 33 15
Resolute Bay eP 07 30 25	Seven Falls eP' 01 19 39 c i 01 20 20 PP 01 21 56 PKS 01 23 30 PPP 01 24 49 SKS 01 26 53 SKKS 01 28 38 e 01 30 54 PS 01 31 50 PPS 01 33 01 SS 01 38 26 e 01 40 10 SSS 01 42 38	DECEMBER 28 Halifax iP <sub>1</sub> 02 35 20 iS <sub>1</sub> 02 35 28 d = 65 km H = 02 35 09.5
DECEMBER 27 U.S.C.G.S. 12N, 146 1/2E Marianas Islands region H = 19 03 06	Shawinigan Falls iP' 01 19 38	DECEMBER 28 Kirkland Lake eP 02 35 42 c? e 02 35 50 Seven Falls eP 02 35 33 c i 02 35 41 Shawinigan Falls eP 02 35 30
Resolute Bay eP 19 15 39 d i 19 15 39.5 c	DECEMBER 28 U.S.C.G.S. 5S, 152 1/2E New Britain region H = 01 00 37 Halifax eP' 01 19 51 ePKS 01 23 13 ePPP 01 25 23 eSKS 01 27 00 eSS 01 38 42 e(SSS) 01 41 55 Kirkland Lake eP' 01 19 30 Ottawa iP' 01 19 36 d i 01 20 18 PP 01 21 16 PPP 01 23 49 SKS 01 26 38 SKKS 01 28 06 SS 01 37 40 SSS 01 42 12	DECEMBER 28 U.S.C.G.S. 300 miles off south coast of Honshu, Japan H = 02 47 20 Resolute Bay eL 03 30.0
DECEMBER 28 U.S.C.G.S. 5S, 152 1/2E New Britain region H = 01 00 37 Halifax eP' 01 19 51 ePKS 01 23 13 ePPP 01 25 23 eSKS 01 27 00 eSS 01 38 42 e(SSS) 01 41 55 Kirkland Lake eP' 01 19 30 Ottawa iP' 01 19 36 d i 01 20 18 PP 01 21 16 PPP 01 23 49 SKS 01 26 38 SKKS 01 28 06 SS 01 37 40 SSS 01 42 12	DECEMBER 28 U.S.C.G.S. New Britain aftershock H = 01 09 20 Ottawa eP' 01 28 17 c Resolute Bay e 01 31 16 Seven Falls eP' 01 28 20 d Shawinigan Falls iP' 01 28 19	DECEMBER 28 U.S.C.G.S. 300 miles off south coast of Honshu, Japan H = 02 47 20 Resolute Bay eL 03 30.0
DECEMBER 28 U.S.C.G.S. 5S, 152 1/2E New Britain region H = 01 00 37 Halifax eP' 01 19 51 ePKS 01 23 13 ePPP 01 25 23 eSKS 01 27 00 eSS 01 38 42 e(SSS) 01 41 55 Kirkland Lake eP' 01 19 30 Ottawa iP' 01 19 36 d i 01 20 18 PP 01 21 16 PPP 01 23 49 SKS 01 26 38 SKKS 01 28 06 SS 01 37 40 SSS 01 42 12	DECEMBER 28 U.S.C.G.S. New Britain aftershock H = 02 14 13 Halifax iP' 02 33 28 c Ottawa eP' 02 33 13 d	DECEMBER 28 Resolute Bay e 07 21 10 e 07 29 58 DECEMBER 28 Kirkland Lake eP 07 17 54 c e 07 18 02 c Ottawa iP 07 17 38 d







DOMINION OBSERVATORIES

Resolute Bay

eP 14 35 34

DECEMBER 31

Resolute Bay

e 17 10 46

DECEMBER 31

Resolute Bay

e 21 44 03

e 21 44 31



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QUEEN'S PRINTER AND CONTROLLER OF STATIONERY  
OTTAWA, 1956**