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# SEISMOLOGICAL SERIES

of the

# DOMINION OBSERVATORY

**Seismological Bulletin**

**April - June**

**1959**

**Seismological Service  
of Canada**

**OTTAWA, CANADA**

Department of Mines and Technical Surveys

**DOMINION OBSERVATORIES**

1960

SEISMOLOGICAL BULLETIN

APRIL - JUNE - 1959

NOTES

1. I. G. Y. microseismic data starting page 153.
2. Earthquakes in the Canadian arctic may be found in their respective chronological position in the bulletin with epicentre locations found on pages 148 and 149.
3. Earthquakes in Eastern Canada and Adjacent areas may be found in their respective chronological position in the bulletin with epicentre locations found on page 150.
4. Earthquakes in Western Canada and Adjacent areas may be found in their respective chronological position in the bulletin with epicentre locations found on pages 151 and 152.
5. Seven Falls no time signals from April 5 to May 5. The approximate corrections is +5 seconds per day.

DOMINION OBSERVATORIES

APRIL 1  
U. S. C. G. S.  
27 1/2N, 21W  
Canary Islands  
H = 00 34 18  
Mag 6 1/4

Banff  
eP 00 45 40 c  
Halifax  
iP 00 41 39 d  
eP 00 41 39.5 c  
i 00 42 18  
iPP 00 43 08  
ePPP 00 43 39  
eS 00 47 30  
e 00 48 53  
eSS 00 50 05  
eL 00 52.6

Ottawa  
eP 00 42 50  
PcP 00 44 25  
Resolute  
iP 00 44 23.5 d  
iS 00 52 28  
ScS 00 54 15  
SS 00 56 25  
eL 00 59 09

Seven Falls  
eP 00 42 24  
PP 00 44 13  
Shawinigan Falls  
eP 00 42 35 c  
Victoria  
eP 00 46 23

APRIL 1  
Resolute  
eP 04 25 29

APRIL 1  
Victoria  
eP 06 15 31.

APRIL 1  
Resolute  
eP 11 13 16

APRIL 1  
U. S. C. G. S.  
Near east coast  
of Kamchatka  
H = 12 19 29  
Resolute  
eP 12 27 03  
eP P 12 29 08  
e<sup>c</sup> 12 33 28

APRIL 1  
U. S. C. G. S.  
48S, 98 1/2E  
Indian Ocean  
H = 14 11 30  
Resolute  
eP' 14 31 29

APRIL 1  
U. S. C. G. S.  
18 1/2S, 169E  
New Hebrides Islands  
H = 14 48 34  
h = 200 km  
Horseshoe Bay  
eP 15 01 18  
Lillooet  
eP 15 01 26  
Resolute  
eP' 15 06.7

APRIL 1  
Resolute  
eP 16 51 58

APRIL 1  
U. S. C. G. S.  
40N, 120W  
California  
H = 18 18 28  
Mag 6

Banff  
eP 18 21 24  
Horseshoe Bay  
eP 18 20 57  
Lillooet  
eP 18 21 13  
Ottawa  
eP 18 25 08  
Resolute  
iP 18 25 40 d  
i 18 25 44  
e 18 37 39  
eL 18 38 42  
Seven Falls  
eP 18 25 33  
Shawinigan Falls  
eP 18 25 25  
Victoria  
eP 18 20 56

APRIL 1  
Resolute  
eP 22 47.5

APRIL 1  
U. S. C. G. S.  
6S, 154E  
Solomon Islands  
H = 23 33 45  
h = 100 km  
Ottawa  
eP' 23 52 31  
Resolute  
eP 23 47 30  
eG 24 16.0

APRIL 2  
Resolute  
eP 00 03 38  
e 00 04 03

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APRIL 2 Resolute eP 02 03 12	APRIL 2 U. S. C. G. S. Tonga Islands H = 21 48 20 Banff eP 22 01 19 Horseshoe Bay eP 22 00 56 Resolute eP 21 56 37	APRIL 3 Resolute iP 03 50 11.5 c
APRIL 2 U. S. C. G. S. 26N, 125E Ryukyu Islands region H = 04 02 31 Resolute iP 04 14 23 c	APRIL 2 Resolute eP 23 33 04	APRIL 3 U. S. C. G. S. 51N, 179E Rat Islands, Aleutian Islands H = 05 19 05 Resolute eP 05 26 46 (eS) 05 32 35.5 (eL) 05 40.5
APRIL 2 U. S. C. G. S. 40N, 29E Northwestern Turkey H = 04 34 20 Resolute eP 04 44 28 Seven Falls eP 04 45 22	APRIL 3 51 1/2N, 179E Rat Islands, Aleutian Islands H = 01 27 06 Banff eP 01 34 40 Horseshoe Bay eP 01 34 10 Lillooet eP 01 34 24 (c) e 01 36 48 Resolute iP 01 34 46.5 c P <sub>c</sub> P 01 36 50 eS 01 40 35 eL 01 44.0 Seven Falls eP 01 37 49 Shawinigan Falls eP 01 37 44 Victoria eP 01 34 13	APRIL 3 U. S. C. G. S. 24N, 122E Near east coast of Formosa H = 05 48 45 h = 200 km Resolute eP 06 00 28
APRIL 2 Resolute eP 06 25 34.5	APRIL 3 Resolute iP 12 53 12 c	APRIL 3 Resolute eP 14 55 47 c
APRIL 2 U. S. C. G. S. 8S, 129E Timor Island H = 12 00 51 Resolute eP 12 15 20 e 12 19 24	APRIL 3 Resolute eP 16 17 53	APRIL 3 Resolute eP 18 55 28
APRIL 2 U. S. C. G. S. 20 1/2N, 121E Batan Island region H = 19 21 34 Resolute iP 19 33 59 c iP 19 34 05 eS 19 44 10 eL 19 49.5	APRIL 3 Resolute eP 02 46 16	

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<p>APRIL 3 U. S. C. G. S. 4S, 81W Near coast of Northern Peru H = 19 33 50 Resolute eP 19 45 54</p>	<p>APRIL 4 Resolute eP 04 02 57</p>	<p>Horseshoe Bay eP 13 34 27.4 eS 13 34 39.5 D = 100 km</p>
<p>APRIL 3 Resolute eP 21 25 12 e 21 26 48</p>	<p>APRIL 4 Resolute eP 05 04 30</p>	<p>Lillooet iP 13 34 45.2 eS 13 35 09.4 D = 218 km</p>
<p>APRIL 4 Resolute eP 01 58 20</p>	<p>APRIL 4 Resolute iP 11 00 50 c</p>	<p>Victoria eP 13 34 27.4 eS 13 34 38.8 D = 97 km</p>
<p>APRIL 4 Resolute eP 02 05 21.1 d iS 02 05 38.1 D = 139 km</p>	<p>APRIL 4 48°58'N, 121°54'W East of Sumas District H = 13 29 23 Mag 2.7 Alberni eP 13 29 57.2 eS 13 30 23.1 D = 228 km</p>	<p>APRIL 4 Resolute eP 19 00 44</p>
<p>APRIL 4 48°40'N, 123°42'W Gulf Islands H = 02 04 58 Mag 2.2 Alberni iP 02 05 21.1 d iS 02 05 38.1 D = 139 km</p>	<p>Banff eS 13 31 24.4 e 13 31 44.8 D = 521 km</p>	<p>APRIL 4 U. S. C. G. S. 54N, 161E Near east coast of Kamchatka H = 19 04 59 Resolute eP 19 12 56 eL 19 22.6</p>
<p>Horseshoe Bay iP 02 05 11.5 D = 75 km</p>	<p>Horseshoe Bay iP 13 29 40.9 D = 112 km</p>	<p>APRIL 4 48.7N, 123.6W Northwest of Victoria H = 20 25 38</p>
<p>Victoria iP 02 05 04.3 c, N, W iS 02 05 08.8 D = 18 km</p>	<p>Lillooet iP 13 29 53.3 iS 13 30 16.6 D = 194 km</p>	<p>Alberni eP 20 25 59.6 eS 20 26 13.6 D = 118 km</p>
<p>APRIL 4 U. S. C. G. S. Brazil-Peru border H = 03 08 44 Resolute eP 03 17 40 e 03 21 18</p>	<p>Victoria eP 13 29 42.4 eS 13 29 58.7 D = 121 km</p>	<p>Horseshoe Bay iP 20 25 54.3 c D = 85 km</p>
<p>APRIL 4 U. S. C. G. S. Brazil-Peru border H = 03 08 44 Resolute eP 03 17 40 e 03 21 18</p>	<p>APRIL 4 48°50'N, 122°12'W East of Bellingham H = 13 34 11 Mag 2.0 Alberni eP 13 34 (39.3) D = 171 km</p>	<p>Victoria iP 20 25 45.5 iS 20 25 51.0 D = 30 km</p>

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APRIL 4

Resolute  
eP 23 30 11  
e 23 33 55

APRIL 4

Resolute  
iP 05 20 50.5 c  
e 05 36.0

APRIL 5

U. S. C. G. S.  
52 1/2N, 169 1/2W  
Fox Islands,  
Aleutian Islands  
H = 05 37 18

Resolute  
eP 05 44 25.5  
P<sub>c</sub>P 05 46 49  
eL 05 53.8

APRIL 5

Resolute  
eP 10 45 23 c

APRIL 5

U. S. C. G. S.  
44N, 7E  
Southeastern France  
H = 10 47 52

Resolute  
eP 10 56 55  
eS 11 04.3  
eL 11 08.4

Seven Falls  
eP 10 57 (07)  
Victoria  
eP 10 59 51

APRIL 5

Resolute  
eP 11 50 17 d

APRIL 5

U. S. C. G. S.  
46N, 151E  
Kurile Islands  
H = 19 59 58  
Resolute  
iP 20 09 12 c

APRIL 5

U. S. C. G. S.  
6N, 77 1/2W  
Near west coast  
of Colombia  
H = 20 32 48  
Resolute  
eP 20 43.8

APRIL 5

Resolute  
eP 21 17 18

APRIL 5

U. S. C. G. S.  
15 1/2S, 167 1/2E  
New Hebrides Islands  
H = 21 05 54  
h = 150 km

Resolute  
(eP') 21 24 06  
e 21 26 20  
Seven Falls  
iP' 21 24 (29) c

APRIL 5

Resolute  
iP 21 35 25  
e 21 35 41

APRIL 5

U. S. C. G. S.  
5 1/2S, 146E  
Near north coast of  
New Guinea  
H = 23 29 25

Ottawa  
eP' 23 48 19

Resolute

eP 23 43 23  
PP 23 47 30  
SKS 23 54 15  
PS 23 56 45  
SS 24 02 32  
Seven Falls  
eP' 23 48 (21)

APRIL 5

Resolute  
iP 23 59 25 c  
e 23 59 45  
e 24 03.6

APRIL 6

Resolute  
eP 03 13 39

APRIL 6

Resolute  
eP 03 49.4

APRIL 6

Resolute  
eP 04 31 31

APRIL 6

U. S. C. G. S.  
50 1/2N, 177W  
Andreanof Islands,  
Aleutian Islands  
H = 05 24 11  
Ottawa  
eP 05 34 38

DOMINION OBSERVATORIES

Resolute		Ottawa		APRIL 8	
eP	05 31 48	eP'	14 32 09	Resolute	
P <sub>c</sub> P	05 33 53	Resolute		eP	00 48 25
eS	05 38.1	eP	14 27 20	e	00 50 22
eL	05 46.2	P'	14 31 15	e	01 13.5
Seven Falls		PP	14 32 06		
eP	05 34 (46)	SKS	14 38 02	APRIL 8	
		PS	14 41 35	U. S. C. G. S.	
APRIL 6		SS	14 47 37	32 1/2S, 179 1/2E	
Resolute		PSPS	14 48 10	Kermadec Islands	
eP	07 35 24	APRIL 6		region	
e	07 (40.0)	Resolute		H = 01 23 26	
APRIL 6		eP	22 41.2	h = 400 km	
Resolute				Mag 6 - 6 1/4	
eP	13 31 11.5	APRIL 6		Ottawa	
		U. S. C. G. S.		iP'	01 41 37 d
APRIL 6		13N, 146 1/2W		i	01 44 20 d
U. S. C. G. S.		Mariana Islands		SKP	01 44 33 d
2 1/2N, 72W		region		PKKP	01 51 36 d
Colombia		H = 23 58 52		Resolute	
H = 13 52 04		Horseshoe Bay		iP'	01 41 32 c
Resolute		eP	24 00 17	PP	01 43 09
eP	14 03 47	Resolute		pPP	01 44 30
iP	14 03 58 c	eP	24 11 28 c	(SKKS)	01 49 17
eS	14 13.1	eS	24 21.9	PKKP	01 51 45
				SP	01 52.2
APRIL 6		APRIL 7		SKSP	01 52 5
Resolute		U. S. C. G. S.		SPP	01 54 20
eP	14 17 47	Northern Mariana		sSS	02 01 20
e	14 18 27	Islands region		G	02 13.0
		H = 05 43 54		Seven Falls	
APRIL 6		Resolute		iP'	01 41 (45) c
U. S. C. G. S.		iP	05 55 51.5 d	Shawinigan Falls	
10S, 120 1/2 E		iP	05 55 52 c	eP'	01 41 42 d
Sumba Island		i	05 56 25	PKKP	01 51 28
H = 14 12 36		APRIL 8		APRIL 8	
Mag 6 1/4		Resolute		Resolute	
Halifax		eP	00 36 32	iP	03 26 13
iP'	14 32 19 c			e	03 29 05
iPP	14 35 37 c			APRIL 8	
ePPS	14 47.9			Resolute	
eSS	14 54.9			eP	06 01 06

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APRIL 8  
 Resolute  
 eP 08 00 00

Shawinigan Falls  
 eP 11 57 54

Ottawa  
 eP<sub>2</sub>' 06 38 49  
 Resolute  
 eP' 06 38 01

APRIL 8  
 U. S. C. G. S.  
 17S, 174 1/2W  
 Tonga Islands region  
 H = 08 01 36  
 h = 100 km  
 Banff  
 eP 08 13 56 d  
 Horseshoe Bay  
 eP 08 13 36  
 Ottawa  
 PKKP 08 31 26  
 Resolute  
 PP 08 15 29  
 Victoria  
 eP 08 13 47 c

APRIL 8  
 Canadian Arctic  
 H = 19 18 21.7  
 h = 22 km  
 Mag 1.6  
 Resolute  
 eP<sub>n</sub> 19 18 52.5  
 eP<sub>1</sub> 19 18 56.5  
 eS<sub>n</sub> 19 19 17  
 eS<sub>1</sub> 19 19 22.4  
 D = 215 km

APRIL 8  
 Resolute  
 iP' 06 38 10 d  
 PP 06 41 07  
 e 06 41 47  
 SKKS 06 48 04  
 SKSP 06 51 27  
 (PPS) 06 53 24  
 SS 07 00 13  
 PSPS 07 00 36  
 SSS 07 05 08  
 Seven Falls  
 eP<sub>2</sub>' 06 38 (35)  
 Shawinigan Falls  
 eP<sub>2</sub>' 06 38 43  
 Victoria  
 eP 06 39 18

APRIL 8  
 Resolute  
 eP 19 50 30

APRIL 9  
 Seven Falls  
 eP 07 52 (09)

APRIL 8  
 Resolute  
 eP 11 44 21

APRIL 9  
 U. S. C. G. S.  
 14 1/2S, 167 1/2E  
 New Hebrides  
 Islands  
 H = 04 43 58  
 h = 100 km  
 Resolute  
 ePP 05 02 15.5  
 SKS 05 08 36  
 G 05 27 40

APRIL 9  
 U. S. C. G. S.  
 44 1/2N, 149E  
 Kurile Islands  
 H = 12 24 20  
 h = 60 km  
 Resolute  
 iP 12 33 39.5 c  
 iP 12 33 40 d

APRIL 8  
 U. S. C. G. S.  
 50 1/2S, 73W  
 Southern Chile-  
 Argentina border  
 H = 11 44 25  
 Halifax  
 eP 11 57 49 c  
 ePP 12 01 42  
 eSKS 12 08 24  
 ePS 12 10 25  
 Ottawa  
 eP 11 57 53  
 Resolute  
 eP 12 03 28.5 c  
 PP 12 05 22  
 (PS) 12 15.2  
 SS 12 22 40  
 SSS 12 27.3  
 eL 12 41.5

APRIL 9  
 U. S. C. G. S.  
 36S, 77E  
 Indian Ocean,  
 Kerguelen Islands  
 region  
 H = 06 18 34  
 Halifax  
 iP<sub>1</sub>' 06 38 14 c  
 eSS 07 01 10  
 eSSS 07 06 39  
 L 07 21.3

APRIL 9  
 U. S. C. G. S.  
 50 1/2N, 180  
 Andreanof Islands,  
 Aleutian Islands  
 H = 12 45 32  
 Resolute  
 eP 12 53 14  
 P<sub>c</sub>P 12 55 17.5



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APRIL 9

Resolute  
eP 13 07 02  
e 13 21.5

APRIL 9

U. S. C. G. S.  
25N, 95E  
India-Burma border  
H = 17 08 30  
Resolute  
eP 17 20 41

APRIL 9

U. S. C. G. S.  
7N, 82W  
South of Panama  
H = 17 36 10  
Mag 6 1/4 - 6 1/2  
Halifax  
eP 17 44 00  
iS 17 50 08  
eSS 17 52.7  
Horseshoe Bay  
eP 17 45 39  
Ottawa  
eP 17 43 35  
S 17 49 32  
Resolute  
eP 17 47 08.5  
iS 17 56 07  
S<sub>C</sub>S 17 57 05  
iL 18 03.7

Seven Falls  
eP 17 43 (54)  
S 17 50 (15)  
SS 17 53 (00)

Shawinigan Falls  
eP 17 43 53

Victoria  
eP 17 45 39  
eS 17 53 15

APRIL 9

Resolute  
iP 19 36 51

APRIL 10

Resolute  
iP 00 02 45 c  
e 00 04 26

APRIL 10

Resolute  
eP 01 00.9  
e 01 01 30

APRIL 10

U. S. C. G. S.  
25S, 178 1/2E  
South of Fiji Islands  
H = 05 47 34  
h = 600 km

Halifax  
esP 06 05 36  
iP' 06 05 37 d  
pP' 06 08 00  
SPP 06 18 42  
(P'P') 06 26 38

Horseshoe Bay  
eP 05 59 39  
eS 06 09 52

Lillooet  
eP 05 (58) (07)  
pP 06 (00) (23)

Ottawa  
iP' 06 05 19

Resolute  
eP 06 01 22  
iP' 06 05 09 (c)  
PP 06 06 13

e 06 07 20  
i 06 07 49 d  
iSKS 06 11 00

e 06 12 10  
eS 06 13 00  
e 06 14 31

SP 06 14 54  
SPP 06 15 55  
PS 06 16 04

SS 06 21 16  
sSS 06 24 53  
SSS 06 25 42

Seven Falls

eP' 06 05 (25)  
i 06 08 (04)  
PKKP 06 15 (25)

Shawinigan Falls

eP' 06 05 25  
PP 06 07 00  
i 06 08 04  
PKKP 06 15 31  
sSP 06 19 21

Victoria

iP 05 59 39 (c)  
pP 06 01 53  
eSKKS 06 09 14  
iS 06 09 49  
e 06 10 43

APRIL 10

Ottawa  
eP 07 58 11  
Resolute  
eP 07 58 02 c

APRIL 10

Resolute  
eP 13 55 50

APRIL 11

Resolute  
eP 00 05 42 (c)  
e 00 33.5

APRIL 11

Resolute  
eP 08 33 04.5

APRIL 11

U. S. C. G. S.  
9 1/2N, 83W  
Costa Rica-Panama  
border  
H = 09 25 08

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Ottawa  
 eP 09 32 16  
 Resolute  
 eP 09 35 54 (d)  
 eS 09 44 37  
 SS 09 49 14  
 eL 09 51.7  
 Shawinigan Falls  
 eP 09 32 (38)  
 Shawinigan Falls  
 eP 09 32 30

Ottawa  
 eP 14 53 43  
 Resolute  
 eP 14 57 25 c  
 eS 15 06.5  
 eL 15 17 44  
 Shawinigan Falls  
 eP 14 54 02  
 Victoria  
 eP 14 56 24

APRIL 12  
 West of Vancouver  
 Island  
 H = 03 07 35  
 Mag 3.5  
 Alberni  
 eP 03 08 25.2  
 D = 358 km  
 Horseshoe Bay  
 eP 03 08 39.9  
 D = 480 km

APRIL 11  
 U. S. C. G. S.  
 1S, 128E  
 Spice Islands  
 H = 11 28 50  
 Ottawa  
 eP' 11 48 12  
 Resolute  
 eP 11 42 49  
 PP 11 47 03  
 SKS 11 53.5  
 eS 11 54 31  
 SS 12 01 20  
 G 12 11 12  
 Shawinigan Falls  
 eP' 11 48 11

APRIL 11  
 Resolute  
 eP 16 44 40  
 APRIL 11  
 Resolute  
 eP 17 44 37

APRIL 12  
 Samoa Islands region  
 H = 06 04 18  
 Resolute  
 eP 06 18 10  
 e 06 18 28  
 e 06 29.1

APRIL 11  
 Resolute  
 eP 14 29 16  
 e 14 35 06  
 Victoria  
 eP 14 28 39

APRIL 11  
 U. S. C. G. S.  
 15S, 173 1/2W  
 Samoa Islands  
 region  
 H = 17 55 53  
 Resolute  
 eP 18 09 48  
 SKS 18 20.5  
 eS 18 21.5  
 PS 18 23.0  
 SS 18 28.4  
 PSPS 18 29.1  
 eL 18 38.3

APRIL 12  
 U. S. C. G. S.  
 Chile-Bolivia border  
 H = 08 10 44  
 Ottawa  
 eP 08 21 45  
 Resolute  
 eP 08 24 24  
 Seven Falls  
 eP 08 21 (53)  
 Shawinigan Falls  
 eP 08 21 52

APRIL 11  
 U. S. C. G. S.  
 7N, 71 1/2W  
 Colombia-Venezuela  
 border  
 H = 14 46 16  
 Banff  
 eP 14 56 05  
 Horseshoe Bay  
 eP 14 56 28

APRIL 11  
 Resolute  
 eP 19 15 (27)  
 APRIL 11  
 Resolute  
 eP 23 34 39  
 e 23 35 28

APRIL 12  
 U. S. C. G. S.  
 17 1/2N, 95W  
 Mexico  
 H = 09 54 51  
 h = 100 km  
 Mag 6 1/4  
 Banff  
 eP 10 02 01 d  
 epP 10 02 08  
 e 10 02 36

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Halifax		Resolute		Halifax	
iP	10 02 05 c	eP	11 11 23 c	ePP	21 13 58
i	10 02 29 d	eP	11 11 24 d	eSKS	21 19.5
ePP	10 03 29			eSKKS	21 20.7
e	10 03 43			e	21 21.6
i	10 04 45	APRIL 12		ePS	21 23.3
e	10 04 55	Resolute		Horseshoe Bay	
eS	10 07 51	eP	12 38 13	eP	21 06 02
SS	10 10.1			Resolute	
Horseshoe Bay				eP	21 07.9
eP	10 02 14	APRIL 12		iP	21 08 08 c
Ottawa		U. S. C. G. S.		PP	21 12 02
iP	10 01 15 c	4 1/2S, 134E		SKS	21 18 35
pP	10 01 40	Near coast of		PS	21 21 04
PP	10 02 16	New Guinea		SS	21 26.4
PPP	10 02 35	H = 15 22 33		L	21 40.5
S	10 06 24	h = 100 km		Victoria	
e	10 09 23	Ottawa		eP	21 05 59 (d)
e	10 10 24	eP'	15 41 49	e	21 06 11
e	10 11 14	Resolute		eS	21 16 08
eS <sub>c</sub> S	10 11 40	eP	15 36 32	eL	21 29.4
L	10 16 08	PP	15 40 51		
Resolute		SKS	15 47 13		
iP	10 04 33.5 c	PS	15 50 09	APRIL 12	
sP	10 05 11	Shawinigan Falls		Resolute	
PPP	10 08 02	eP'	15 41 51	eP	23 32 49
iS	10 12 25				
sS	10 13 15	APRIL 12		APRIL 13	
S <sub>c</sub> S	10 14 12	Resolute		Resolute	
Seven Falls		eP	16 00 28	eP	00 27 32
iP	10 01 (44) c			e	00 29 21
PP	10 03 (01)				
S	10 07 (18)				
Shawinigan Falls		APRIL 12		APRIL 13	
iP	10 01 35 c	Resolute		Banff	
pP	10 02 00	eP	20 43 20	eP	05 08 34.0
S	10 06 57			e	05 09 02.2
Victoria		APRIL 12		eS	05 09 15.1
eP	10 02 12	U. S. C. G. S.		Local shock	
		15 1/2S, 173W			
APRIL 12		Samoa Islands		APRIL 13	
U. S. C. G. S.		region		Resolute	
24 1/2N, 122E		H = 20 54 00		eP	06 27 10
Near east coast of		Mag 6 - 6 1/4			
Formosa		Alberni			
H = 10 59 21		eP	21 05 58		
		Banff			
		eP	21 06 29		

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APRIL 13  
Resolute  
IP 14 36 33

APRIL 13  
Resolute  
eP 16 08 02 c  
e 16 10 25  
e 16 11 28

APRIL 13  
Resolute  
eP 17 00 37  
e 17 02 52

APRIL 13  
U. S. C. G. S.  
23N, 93 1/2E  
India-Burma border  
H = 18 31 57  
Resolute  
eP 18 44 24.5 d  
IP 18 44 40

APRIL 13  
41°55'N, 73°16'W  
Near Pine Mountain,  
Conn.  
H = 21 20 18.5  
Mag 3.4  
Montreal  
S<sub>1</sub> 21 22 12  
L 21 22 35  
D = 400 km  
Ottawa  
S<sub>1</sub> 21 22 21  
L 21 22 46  
D = 435 km  
Shawinigan Falls  
S<sub>1</sub> 21 22 44.5  
D = 516 km

APRIL 13  
U. S. C. G. S.  
50 1/2N, 180  
Andreanof Islands,  
Aleutian Islands  
H = 22 32 34  
Resolute  
eP 22 40 22  
e 22 40 32  
P<sub>c</sub>P 22 42 20  
eS 22 46.5  
eL 22 51.4  
Seven Falls  
eP 22 43 (19)  
Shawinigan Falls  
eP 22 43 18

APRIL 13  
Resolute  
eP 23 29 34

APRIL 14  
Banff  
eP 00 26 06

APRIL 14  
U. S. C. G. S.  
Gulf of California  
foreshock  
H = 02 51 13  
Resolute  
eP 03 00 15

APRIL 14  
U. S. C. G. S.  
24N, 109 1/2W  
Gulf of California  
H = 02 53 04  
Mag 5 1/4 - 5 1/2  
Ottawa  
eP 02 59 53  
Resolute  
eP 03 02 06  
eS 03 09 24  
SS 03 13 20  
eL 03 16.3

Shawinigan Falls  
eP 03 00 19

APRIL 14  
Resolute  
eP 03 10 45

APRIL 14  
Resolute  
eP 03 18 25

APRIL 14  
Resolute  
eP 03 50 27

APRIL 14  
Resolute  
eP 06 17 32  
e 06 20 27

APRIL 14  
U. S. C. G. S.  
Northern Chile  
H = 06 19 46  
Resolute  
(SKS) 06 43 58  
eL 07 05.2  
Seven Falls  
eP 06 31 (17)  
Shawinigan Falls  
eP 06 31 18

APRIL 14  
U. S. C. G. S.  
Gulf of California  
aftershock  
H = 06 45 04  
Resolute  
eP 06 54 15  
P<sub>c</sub>P 06 55 31

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APRIL 14

U. S. C. G. S.  
57 1/2N, 155W  
Alaska Peninsula  
H = 07 20 28  
H = 60 km

Alberni

eP 07 24 57  
Banff  
eP 07 25 36 c  
Halifax  
eP 07 29 56

Horseshoe Bay

eP 07 29 04  
Ottawa  
eP 07 29 03 d

Resolute

iP 07 26 13.5 c  
iS 07 31 06  
eL 07 33 33

Seven Falls

eP 07 29 (10)  
i 07 29 (30)  
P<sub>c</sub>P 07 30 (32)

Shawinigan Falls

eP 07 29 08  
i 07 29 27  
P<sub>c</sub>P 07 30 30

Victoria

eP 07 25 10 d, N, W  
eS 07 29 05

APRIL 14

Resolute  
eP 09 52 20

APRIL 14

Resolute  
eP 10 11.8  
e 10 14.2

APRIL 14

Resolute  
iP 15 43 57  
i 15 45.5

APRIL 14

Resolute  
eP 18 12 06  
iP 18 12 22 c

APRIL 14

Resolute  
eP 18 45 17  
eP 18 45 25  
e 18 47 50

APRIL 14

Resolute  
eP 19 27 41

APRIL 14

Resolute  
eP 19 32 10

APRIL 14

Resolute  
iP 21 02 44 c  
e 21 04.3  
e 21 07.3

APRIL 14

Resolute  
eP 21 47 38  
e 21 57.1

APRIL 14

47.7N, 121.8W  
Southeast of  
Seattle  
H = 21 55 50  
Mag 2.9  
Alberni  
eP 21 56 37.5  
D = 336 km  
Horseshoe Bay  
iP 21 56 26.2  
iS 21 56 53.7  
D = 255 km

Victoria

iP 21 56 18.7 c, N, (E)  
e 21 56 39.8  
iS 21 56 41.1  
D = 183 km

APRIL 15

U. S. C. G. S.  
41 1/2N, 143E  
Near south coast of  
Hokkaido, Japan  
H = 00 15 21

Halifax

eS 00 39 23

Ottawa

eP 00 28 07

Resolute

iP 00 25 16 c  
iS 00 33 16  
S<sub>c</sub>S 00 35 03  
SS 00 37 07  
L 00 39.2

Seven Falls

eP 00 28 (09)

Shawinigan Falls

eP 00 28 07

APRIL 15

Resolute  
iP 01 28 47 (c)

APRIL 15

U. S. C. G. S.  
51N, 177W  
Andreanof Islands,  
Aleutian Islands  
H = 17 02 45  
Ottawa  
eP 17 13 09  
Seven Falls  
eP 17 13 (14)  
Shawinigan Falls  
eP 17 13 12

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APRIL 15	APRIL 16	Resolute
U.S.C.G.S.	U.S.C.G.S.	eP 16 26 29.5
54N, 160 1/2E	23 1/2S, 179E	P <sub>C</sub> P 16 26 32
Near east coast of	South of Fiji Islands	eS 16 36.9
Kamchatka	H = 07 27 27	pS 16 37.3
H = 19 11 20	h = 550 km	SSS 16 46.3
Halifax	Ottawa	G 16 49.3
eP 19 23 02.5	eP' 07 45 15	Victoria
e 19 23 15.0 d	Resolute	iP 16 26 16 d
Horseshoe Bay	eP' 07 45 02 c	
eP 19 19 41	Seven Falls	
Ottawa	eP' 07 45 (19)	APRIL 16
iP 19 22 32 c		47°07'N, 70°20'W
Resolute	APRIL 16	About 10 miles south-
iP 19 19 18 c	Resolute	east of Bonsecours,
eS 19 25 43	eP 08 07 13	Que.
eL 19 29 03	e 08 08 01	H = 16 36 24.8
Seven Falls		Mag 3.5
eP 19 22 (32)	APRIL 16	Montreal
Shawinigan Falls	Resolute	P <sub>1</sub> 16 37 15
eP 19 22 33	eP 11 07 02.5	i 16 37 47
Victoria		S <sub>1</sub> 16 37 52.5
eP 19 19 44		D = 308 km
	APRIL 16	Ottawa
APRIL 15	Resolute	S <sub>1</sub> 16 38 32
Resolute	eP 11 16 56	D = 456 km
iP 20 21 04 c		Seven Falls
	APRIL 16	P <sub>1</sub> 16 36 30.4
APRIL 15	Resolute	S <sub>1</sub> 16 36 34.9
U.S.C.G.S.	eP 15 06 04	D = 36.9 km
23S, 180		Shawinigan Falls
Fiji Islands region	APRIL 16	P <sub>1</sub> 16 36 56
H = 23 52 40	U.S.C.G.S.	S <sub>1</sub> 16 37 21
h = 600 km	12 1/2S, 143E	D = 197 km
Resolute	Mariana Islands region	APRIL 16
eP' 24 10 10	H = 15 13 56	Resolute
	h = 100 km	eP 19 27 17
APRIL 16	Mag 6 1/2	
Resolute	Banff	APRIL 16
eP 04 38 29 c	eP 16 26 37	Resolute
e 04 39 39	Horseshoe Bay	eP 20 44.8
	eP 16 26 15 c	e 20 46.8
APRIL 16		
Resolute		
eP 06 53.0		
e 06 55.8		

DOMINION OBSERVATORIES

APRIL 17	Resolute	eP	06 31 39	APRIL 19	U. S. C. G. S.
	eP	00 57 54			Yukon, Canada
					H = 06 43 29
APRIL 17	U. S. C. G. S.	SS	06 44 59		Mag 5.0 (Ott.)
	21S, 178W	eL	07 03.0	Resolute	
	Fiji Islands	Seven Falls		eP <sub>n</sub>	06 47 32
	H = 10 31 35	eP'	06 36 (50)	iS <sub>n</sub>	06 50 37
	h = 500 km			i	06 52 20
	Resolute			Lg	06 52 40
	eP'	APRIL 18		D = 1930 km	
		Resolute		Banff	
		iP	09 01 54.5 c	eP	06 48 18
APRIL 17	Resolute	APRIL 18		APRIL 19	Canadian Arctic
	eP	Resolute			H = 07 29 28
	iP	eP	11 50 46		h = 0 (?)
					Mag 2.9
APRIL 17	Resolute	APRIL 18		Resolute	
	eP	Resolute		P <sub>n</sub>	07 30 26
	iP	eP	16 43 40	P <sub>1</sub>	07 30 35
				i	07 30 41
APRIL 17	Resolute			S <sub>n</sub>	07 31 10
	eP			S <sub>1</sub>	07 31 25
				D = 425 km	
APRIL 17	Resolute	APRIL 18		APRIL 19	U. S. C. G. S.
	eP	49°11'N, 123°53'W			45S, 82W
		Gabriola Islands			Pacific Ocean
		H = 14 16 20			H = 07 26 15
		Mag 2.2		Mag 6	
APRIL 17	Resolute	Alberni		Ottawa	
	eP	iP	14 16 32.5	eP	07 39 25
	e	iS	14 16 42.6	Resolute	
		D = 72 km		eP'	07 45 06
		Horseshoe Bay		PS	07 56 16
		iP	14 16 28.9	SS	08 02 24
		S	14 16 36	L	08 14.4
		D = 49 km			
APRIL 18	Resolute	Victoria		APRIL 19	U. S. C. G. S.
	eP	iP	14 16 34.3		40N, 43E
		S	14 16 45.6		Eastern Turkey
		D = 83 km			H = 08 59 17
APRIL 18	U. S. C. G. S.	APRIL 19		Resolute	
	4 1/2S, 153 1/2E	Victoria		eP	09 09 42
	New Ireland region	eP	04 40 54		
	H = 06 18 00				
	h = 100 km				

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APRIL 19	Resolute	Victoria
U. S. C. G. S.	eP 17 49 05 c	eP 01 55 37.9
24 1/2N, 142E	e 18 05.5	eS 01 55 42.4
Volcano Islands		D = 36 km
H = 14 51 03		
Resolute	APRIL 19	
eP 15 02 44 d	U. S. C. G. S.	APRIL 20
	16S, 172W	U. S. C. G. S.
	Samoa Islands region	6S, 149 1/2E
	H = 19 43 04	New Britain
APRIL 19	Banff	H = 03 27 52
U. S. C. G. S.	eP 19 55 41	h = 100 km
.58N, 152 1/2W	Resolute	Mag 6
Near Kodiak Island,	eP 19 57.0	Halifax
Alaska	eP 19 57 09	e(SS) 04 07 04
H = 15 03 26	e 20 19.0	eL 04 32.3
Mag 6 1/4	e 20 30.2	Ottawa
Alberni		iP' 03 46 49 D
eP 15 07 41		Resolute
Banff	APRIL 20	eP 03 41 45 c
eP 15 08 23 d	48°48'N, 123°10'W	PP 03 45 58
Halifax	Gulf Islands	pPP 03 46 17
eL 15 32.3	H = 00 27 22	sS 03 54.1
Horseshoe Bay	Mag 2.1	PS 03 55.1
eP 15 07 50 N,W	Alberni	pPS 03 55 18
eS 15 11 42	eP 00 27 44.4	sSS 04 01.3
eL 15 12.5	eS 00 28 00.7	Seven Falls
Ottawa	D = 137 km	eP' 03 46 (52)
eP 15 11 52	Horseshoe Bay	Shawinigan Falls
P <sub>c</sub> P 15 13 27	iP 00 27 34.3	eP' 03 46 50
Resolute	D = 74 km	
eP 15 09 05.5	Victoria	APRIL 20
iP 15 09 06.5 d	eP 00 27 27.8	Resolute
iS 15 13 41	eS 00 27 31.9	eP 03 57 45
iL 15 14 06	D = 33 km	
Shawinigan Falls		
eP 15 11 56	APRIL 20	APRIL 20
Victoria	48°46'N, 123°21'W	U. S. C. G. S.
eP 15 07 55 c	Gulf Islands	8 1/2N, 83W
i 15 08 08	H = 01 55 33	Costa Rica
eS 15 11 40	Mag 2	H = 04 21 10
eL 15 13.0	Alberni	Ottawa
	eP 01 55 53.5	eP 04 28 27
APRIL 19	Horseshoe Bay	Resolute
U. S. C. G. S.	iP 01 55 44.4	eP 04 32 02 c
37 1/2N, 21E	iS 01 55 53.7	eP 04 32 02.5 d
Near west coast of	D = 77 km	iS 04 40 57
Greece		SS 04 45.3
H = 17 38 50		



DOMINION OBSERVATORIES

Seven Falls eP 04 28 (48)	Resolute P <sub>1</sub> 08 43 56 d	Seven Falls eP 12 52 (09)
Shawinigan Falls eP 04 28 40	S <sub>1</sub> 08 44 02.5 D = 53.3 km	P <sub>c</sub> P 12 52 (50)
		Shawinigan Falls eP 12 52 06
		P <sub>c</sub> P 12 52 47
APRIL 20 U. S. C. G. S. 54N, 157 1/2E Near east coast of Kamchatka H = 19 26 01	APRIL 21 U. S. C. G. S. 45N, 152 1/2E Kurile Islands H = 10 02 30	Victoria eP 12 48 14
Resolute eP 19 33 53 d	Resolute iP 10 11 48 c	APRIL 21 Resolute eP 12 55 26 c
iP 19 33 53.5 c	iP 10 11 51	
P <sub>c</sub> P 19 35 47	iP 10 12 03	APRIL 21 Resolute eP 13 49 58
	SS 10 23.3	e 14 11.2
		e 14 13.2
APRIL 20 Resolute eP 23 08 39 d	APRIL 21 Resolute eP 10 33 03	
iP 23 08 39.5 c		APRIL 21 Resolute eP 15 44.8
APRIL 21 Resolute eP 00 39 10	APRIL 21 Resolute iP 11 08 27 c	
		APRIL 21 Resolute eP 16 49.9
APRIL 21 Resolute eP 01 45 11	APRIL 21 Resolute eP 11 25 24	e 16 51.2
	e 11 27 52	
APRIL 21 Resolute eP 07 18 03	APRIL 21 U. S. C. G. S. 56N, 162 1/2W Bristol Bay H = 12 42 50	APRIL 21 Resolute eP 20 07 48
	Horseshoe Bay eP 12 47 58	e 20 07 53
APRIL 21 Resolute eP 07 31 44	i 12 48 11	e 20 12.4
	Ottawa iP 12 52 02 d	e 20 15.2
APRIL 21 Canadian Arctic H = 08 43 47.5 Mag 2.0	iP <sub>c</sub> P 12 52 43	
	Resolute eP 12 49 11	APRIL 21 Resolute eP 20 54 58
	P <sub>c</sub> P 12 52 01	e 20 57 10
	eL 12 55 12	

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APRIL 22	Alberni	APRIL 22
Resolute	eP 11 00 43	Resolute
eP 02 46 38	Banff	eP 19 09 18
e 02 48 16	eP 11 01 24	
	Horseshoe Bay	
	iP 11 00 50	
APRIL 22	Lillooet	APRIL 22
U. S. C. G. S.	iP 11 00 (46) d	U. S. C. G. S.
Hindu Kush region	Ottawa	11 1/2N, 86 1/2W
H = 03 36 49	eP 11 04 43 d	Near coast of
h = 200 km	S 11 12 23	Nicaragua
Resolute	Resolute	H = 19 01 41
eP 03 47 45	iP 11 01 55 c	Ottawa
e 03 47 50	PP 11 03 08	eP 19 08 35 c
	iP <sub>c</sub> P 11 04 29	Resolute
	iS 11 07 17	eP 19 12 09 c
	eL 11 09 26	PPP 19 16 09
APRIL 22	Seven Falls	eS 19 20 50
48°45'N, 123°15'W	eP 11 04 (51)	Seven Falls
Gulf Islands	Shawinigan Falls	eP 19 08 (59)
H = 07 14 44	eP 11 04 48 d	Shawinigan Falls
Mag 2.3	Victoria	eP 19 08 51
Alberni	eP 11 00 54	Victoria
iP 07 15 05.3		eP 19 10 21
iS 07 15 23.1		
D = 132 km		
Horseshoe Bay	APRIL 22	APRIL 22
iP 07 14 55.3	Resolute	U. S. C. G. S.
iS 07 15 05.0	iP 11 08 07 (c)	36 1/2S, 97 1/2W
D = 70 km	i 11 12 08	Pacific Ocean
Victoria		H = 20 26 46
iP 07 14 49.2		Mag 5 3/4 - 6
iS 07 14 53.2	APRIL 22	Ottawa
D = 32 km	Resolute	eP 20 39 17
	eP 11 35 24.5	Resolute
	(P <sub>c</sub> P) 11 37 59	eP 20 41.4
APRIL 22		eP' 20 45 (14)
Resolute		eS 20 53 36
eP 07 45.1	APRIL 22	SS 21 01 37
e 07 48.1	U. S. C. G. S.	L 21 12.0
	7 1/2N, 72W	Seven Falls
APRIL 22	Venezuela-Colombia	eP 20 39 (31)
U. S. C. G. S.	border	Shawinigan Falls
54N, 167W	H = 17 24 05	iP 20 39 26 c
Fox Islands,	Ottawa	
Alutian Islands	eP 17 31 26	
H = 10 55 05	Resolute	
Mag 6	eP 17 35 09 c	
	Shawinigan Falls	
	eP 17 31 36	

DOMINION OBSERVATORIES

APRIL 23		APRIL 24		Horseshoe Bay
Resolute		Resolute		eP 18 11 25
iP 06 09 30 c		iP 07 29 43 c		eSKS 18 21 20
				eS 18 22 36
APRIL 23		APRIL 24		Ottawa
Resolute		U. S. C. G. S.		eP' 18 16 54
eP 12 22 (30)		11 1/2N, 86 1/2W		PKS 18 20 26
		Near coast of		Resolute
APRIL 23		Nicaragua		eP 18 13.2
Resolute		H = 09 31 33		iP' 18 16 49 c
eP 19 01 38		Mag 6 1/4 - 6 1/2		PP 18 18 02
		Horseshoe Bay		e 18 19 29
APRIL 23		iP 09 40 18 d		SKS 18 23 38
Resolute		Ottawa		SKKS 18 25 00
eP 19 38 47		eP 09 38 29		eS 18 26 02
		Resolute		PKKP 18 27 11
APRIL 23		iP 09 42 02 c		PS 18 27 36
Resolute		PP 09 44 24		PPS 18 29.3
eP 19 38 47		PPP 09 46 02		SS 18 33 58
		eS 09 50 30		P'P' 18 38.0
APRIL 23		SS 09 54.9		SSS 18 38 46
U. S. C. G. S.		Seven Falls		Seven Falls
37 1/2N, 80 1/2W		eP 09 38 (52) c		eP' 18 17 (00)
Virginia-West		Shawinigan Falls		Shawinigan Falls
Virginia border		iP 09 38 43 c		eP' 18 16 58
H = 20 58 41		Victoria		PP 18 18 41
Ottawa		eP 09 40 15 d		PKS 18 20 30
eP 21 00 47				Victoria
e 21 03 05				eP 18 11 21
Resolute		APRIL 24		eSKS 18 21 51
e 21 14.5		Resolute		eS 18 22 32
e 21 15 28		eP 15 32 45		eL 18 40.9
e 21 18 10		e 15 33 34		
e 21 18 43				APRIL 24
Seven Falls				Resolute
eP 21 01 (31)				eP 22 59.2
Shawinigan Falls		APRIL 24		
eP 21 01 17		U. S. C. G. S.		APRIL 25
		31S, 178W		Resolute
APRIL 23		Kermadec Islands		eP 00 16 21
Resolute		H = 17 57 58		
eP 22 36 08		Mag 6 3/4 - 7		APRIL 25
		Alberni		U. S. C. G. S.
APRIL 23		eP 18 11 20		37N, 28 1/2E
Resolute		e 18 22 32		Turkey
iP 22 47 39		Halifax		H = 00 26 40
		i 18.5 c		
		i 18.6		

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Horseshoe Bay eP 00 39 42	APRIL 25 Resolute	Resolute eP <sub>n</sub> 07 27 17
Ottawa eP 00 38 13 d	iP 22 59 33	eP <sub>1</sub> 07 27 29
Resolute iP 00 37 05.5 d	iP 22 59 44	eS <sub>n</sub> 07 28 03.5
eS 00 45 26	e 23 18.5	eS <sub>1</sub> 07 28 24.5
SS 00 49 36	e 23 24.1	D = 460 km
Shawinigan Falls eP 00 37 59 d	APRIL 26 U. S. C. G. S.	APRIL 26 Resolute
Victoria eP 00 39 45	16S, 171 1/2W	eP 12 12 17
	Samoa Islands region	
	H = 05 17 47	
APRIL 25 U. S. C. G. S.	Resolute	APRIL 26 U. S. C. G. S.
Dodecanese Islands	eP 05 31 42	China-Burma border
H = 01 05 37	eL 06 04.5	region
Ottawa eP 01 17 15	APRIL 26 Resolute	H = 12 34 49
Resolute eP 01 16 06 d	eP 05 34 11	Resolute
Shawinigan Falls eP 01 17 00		eP 12 47 02.5
		e 13 02.1
		e 13 08.0
APRIL 25 U. S. C. G. S.	APRIL 26 U. S. C. G. S.	APRIL 26 U. S. C. G. S.
19 1/2N, 66W	19 1/2S, 169 1/2E	46 1/2N, 13E
Puerto Rico region	New Hebrides	Italy-Austria border
H = 06 06 04	Islands	H = 14 45 16
Resolute	Resolute	Resolute
eP 06 15 53.5	(PP) 06 06 03	eP 14 54 12
		eL 15 15.6
APRIL 25 Resolute	APRIL 26 U. S. C. G. S.	APRIL 26 U. S. C. G. S.
eP 12 13 50 d	Off coast of Chile	25N, 122 1/2E
	H = 06 21 56	Near northeast coast
	Seven Falls	of Formosa
	eP 06 33 (49)	H = 20 40 38
		h = 150 km
APRIL 25 Resolute	APRIL 26 Canadian Arctic	Mag 7 1/2 - 7 3/4
eP 20 46 10	H = 07 26 15	Alberni
	h = 15 km	iP 20 53 02 d,E,S
	Mag 2.9	eS 21 03 18
		Banff
		iP 20 54 20 d

DOMINION OBSERVATORIES

Horseshoe Bay		APRIL 27		Ottawa	
eP	20 53 05	Resolute		eP'	13 06 21
iS	21 03 21	iP	00 16 55.5	Resolute	
i	21 04 05			eP	13 01 01
i	21 04 24			e	13 02 49
eSS	21 07 05	APRIL 27			
Ottawa		Resolute			
P	20 54 47	iP	05 23 33 c	APRIL 27	
e	20 58 21			U. S. C. G. S.	
PP	20 59 20			33 1/2N, 93E	
e	20 59 53	APRIL 27		Tsinghai Province,	
e	21 03 19	Resolute		China	
SKS	21 05 16	eP	07 22.6	H = 13 09 20	
PS	21 08 24	e	07 22 51	Resolute	
PPS	21 09 16			eP	13 20 48
SS	21 14 30			eS	13 30 16
Resolute		APRIL 27			
iP	20 52 21.5 c	U. S. C. G. S.			
IPP	20 54 32	7S, 129E		APRIL 27	
isPP	20 56 30	Banda Sea		Resolute	
iS	21 02 05	H = 09 48 09		eP	18 14 (04)
eSS	21 07 19	Ottawa			
Saskatoon		eP'	10 07 23	APRIL 28	
iP	20 53 38	PKS	10 10 49	U. S. C. G. S.	
ePP	20 57 03	Resolute		4S, 135E	
eS	21 03 33	eP	10 02 32	Western New Guinea	
i	21 03 59	(eP')	10 06 37	H = 01 44 21	
i	21 04 29	(PP)	10 06 52	Resolute	
Seven Falls		e	10 12 55	eP	01 58 26
eP	20 54 (42)	e	10 13.7	SS	02 17.3
e	20 58 (46)	PS	10 16.1	eL	02 27.5
PP	20 59 (25)	Seven Falls			
SKS	21 05 (02)	eP'	10 07 (32)		
Shawinigan Falls		PKS	10 10 (51)	APRIL 28	
eP	20 54 45	Shawinigan Falls		U. S. C. G. S.	
SKS	21 05 17	eP'	10 07 28	15N, 93W	
Victoria		PKS	10 10 50	Mexico-Guatemala	
iP	20 53 07 (c, N, E)			border	
i(P <sub>c</sub> P)	20 53 16	APRIL 27		H = 11 09 30	
PP	20 56 24	Resolute		Mag 6 1/2 - 6 3/4	
iS	21 03 24	eP	10 17 49	Alberni	
i	21 03 41			eP	11 17 36
e	21 03 58			eS	11 24 09
eSS	21 09.7	APRIL 27		Banff	
G	21 22	U. S. C. G. S.		iP	11 17 14 d
		1/2S, 124E		Halifax	
		Celebes region		iP	11.3 c
		H = 12 47 27			
		h = 200 km			

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Horseshoe Bay	Seven Falls	APRIL 29
iP 11 17 30 c, NW	eP 14 29 (04)	Resolute
iS 11 23 58		eP 05 46 21
eSS 11 27 09		
Ottawa	APRIL 28	
iP 11 16 14 c	Resolute	APRIL 29
S 11 21 31	eP 14 31 36	Resolute
Resolute		eP 14 <sup>40</sup> 42 55 c
iP 11 19 37 c		
PPP 11 23 19	APRIL 28	
iS 11 27 50	U. S. C. G. S.	APRIL 29
Saskatoon	52N, 173W	U. S. C. G. S.
eP 11 17 09	Andreanof Islands,	16 1/2N, 145E
i 11 28 25	Aleutian Islands	Mariana Islands
Seven Falls	H = 17 11 15	H = 15 35 45
eP 11 16 (41)	Ottawa	Resolute
Shawinigan Falls	eP 17 21 24	eP 15 48 11
eP 11 16 32	Resolute	
Victoria	P <sub>c</sub> P 17 20 53	
eP 11 17 27 d, S, E	eS 17 24 36	APRIL 29
iS 11 23 50		Resolute
i 11 24 07		eP 18 14 08
eSS 11 27.5	APRIL 28	
iL 11 32.6	Resolute	
	eP 17 30 25	APRIL 29
APRIL 28		Resolute
U. S. C. G. S.		iP 19 54 00 d
5S, 152 1/2E	APRIL 28	
New Britain	U. S. C. G. S.	
H = 13 00 57	36N, 141E	APRIL 29
h = 100 km	Near east coast of	Resolute
Ottawa	Honshu, Japan	eP 23 44 56
iP' 13 19 45 d	H = 22 01 04	
Resolute	Resolute	
iP 13 14 38 c	eP 22 11 35	APRIL 30
Seven Falls	eL 22 30.0	Resolute
eP' 13 19 (47)		eP 00 13 15
	APRIL 29	
APRIL 28	U. S. C. G. S.	APRIL 30
U. S. C. G. S.	28N, 55E	Resolute
Rat Islands,	Southern Iran	iP 07 14 35 c
Aleutian Islands	H = 00 23 50	
H = 14 18 10	Resolute	
Ottawa	eP 00 35 36	APRIL 30
eP 14 28 50		Resolute
Resolute		eP 07 33 23
iP 14 25 55 c		

DOMINION OBSERVATORIES

APRIL 30	Resolute	eP	22 44 55	MAY 1	Resolute	eP	09 29 36
	eP	09 03 18	i	22 48 24			
	e	09 03 30	i	22 48 28			
			i	22 48 35			
			i	22 48 40	MAY 1		
APRIL 30	Resolute	i	22 49 12	Resolute	iP	13 13 45	
	eP	11 18 54	e	22 51 17	i	13 16 48	
			Seven Falls				
			eP	22 48 07			
APRIL 30	Resolute			MAY 1			
	eP	11 38 27 (d)		U. S. C. G. S.			
	e	11 42 20		5S, 154E			
				Solomon Island region			
				H = 14 56 57			
				h = 60 km			
APRIL 30	U. S. C. G. S.		Resolute		Resolute	eP	15 10 40
	55 1/2S, 26W		eP	07 33 20			
	Sandwich Island		eS	07 45.2			
	H = 13 25 35		e	07 47.4			
	Horseshoe Bay		SS	07 52.2	MAY 1		
	eP	13 44 48	eL	08 02.4	Resolute	eP	16 55 50 c
	e	13 48 00					
	Ottawa						
	eP'	13 44 35	MAY 1		MAY 2		
	Resolute		Seven Falls		U. S. C. G. S.		
	eP'	13 44 48.5 (d)	P	08 12 (25)	32N, 136 1/2E		
	iP'	13 45 01 d			South of Honshu,		
	PP	13 47 49	MAY 1		Japan		
	(iPP)	13 48 23	U. S. C. G. S.		H = 05 25 33		
	SKSP	13 58 26	36 1/2N, 52E		Resolute	eP	05 36 33
	SS	14 06.0	Near north coast of				
	Seven Falls		Iran				
	eP'	13 44 (34)	H = 08 23 57		MAY 2		
	Victoria		Resolute		Resolute	eP	06 07 03.5 c
	eP	13 44 48 c	eP	08 34 52	e	06 07 30	
			eS	08 43 39			
APRIL 30	U. S. C. G. S.						
	Arctic Ocean, west		MAY 1		MAY 2		
	of Spitsbergen		Resolute		Resolute	eP	06 31 26
	H = 22 40 20		eP	08 58 09.5			
	Ottawa						
	eP	22 48 36			MAY 2		
					Resolute	eP	11 45 52.5





DOMINION OBSERVATORIES

Ottawa		MAY 4		MAY 5	
iP	07 26 57 d	U. S. C. G. S.		Resolute	
PP	07 29 32	29N, 92E		eP	11 23 24 d
PPP	07 31 26	Tibet			
S	07 36 00	H = 17 18 33			
PS	07 36 48	Resolute		MAY 5	
SS	07 40 06	eP	17 30 26 d	U. S. C. G. S.	
SSS	07 44 00			34 1/2N, 71 1/2E	
Resolute		MAY 4		Afghanistan	
iP	07 23 44 c	Resolute		H = 11 40 08	
iP	07 23 44.5 d	eP	20 08 20	Resolute	
iP	07 23 45 c			iP	11 51 24 c
Saskatoon		MAY 4			
iP	07 25 00	Resolute			
iS	07 32 21	eP	20 18 08		
eSS	07 35.8	e	20 18 42		
eL	07 40.0	e	20 19 05	MAY 5	
Seven Falls		MAY 4		U. S. C. G. S.	
eP	07 27 (00) d	Resolute		53N, 159E	
Shawinigan Falls		iP	23 19 09 c	Kamchatka aftershock	
eP	07 26 57			H = 19 04 16	
S	07 36 05			Mag 6	
Victoria		MAY 5		Alberni	
iP	07 24 10 d, N, W	Resolute		eP	19 12 39
i	07 29 23	eP	00 41 40	Banff	
iS	07 30 44			eP	19 13 09.1
L	07 34.0			Halifax	
P'P'	07 54.9	MAY 5		iP	19 16 06 c
		Resolute		eS	19 25 40
		eP	03 04 55	eSSS	19 33.9
				eL	19 35.0
				Horseshoe Bay	
MAY 4				eP	19 12 43
Resolute		MAY 5		Ottawa	
eP	10 33 28	U. S. C. G. S.		eP	19 15 37
		9S, 78 1/2W		Resolute	
MAY 4		Near coast of Peru		iP	19 12 19 d
Resolute		H = 05 30 15		PP	19 14 05
eP	11 31 06 d	Resolute		iS	19 18 48
		eP	05 42 48 (c)	eL	19 21.9
				Seven Falls	
				eP	19 15 38
MAY 4		MAY 5		S	19 25 03
Resolute		Resolute		Victoria	
eP	12 58 24	eP	06 15 35 d	eP	19 12 48
		e	06 15 46	eS	19 19 43
		MAY 5			
		Resolute			
		eP	09 20 51 c		
		e	09 22 19		

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MAY 5  
Resolute  
eP 20 32 59

MAY 6  
Resolute  
eP 03 08 19

MAY 6  
Resolute  
eP 06 59 11

MAY 6  
U. S. C. G. S.  
51 1/2N, 176W  
Andreanof Islands,  
Aleutian Islands  
H = 07 44 25  
Resolute  
eP 07 51 52  
e 07 52 10  
P<sub>1</sub>P 07 54 05  
eS<sub>c</sub> 07 57 45  
eL 08 02.3

MAY 6  
Resolute  
eP 10 01 13.5 c

MAY 6  
Resolute  
eP 13 30 44

MAY 6  
Resolute  
eP 14 03 58

MAY 6  
Resolute  
eP 14 23 32 c  
e 14 42.4

MAY 6  
Resolute  
eP 16 44 43

MAY 6  
U. S. C. G. S.  
18S, 179W  
Fiji Islands  
H = 17 29 26  
h = 600 km  
Resolute  
eP 17 42 38

MAY 6  
Resolute  
iP 19 03 29 c  
i 19 03 38  
i 19 03 46

MAY 6  
U. S. C. G. S.  
3S, 128E  
Ceram Island  
H = 18 52 22  
Ottawa  
PKS 19 15 09  
Resolute  
eP 19 06 30  
SKS 19 17.1  
PS 19 20.0  
SS 19 25 40  
Shawinigan Falls  
PKS 19 15 09

MAY 6  
Resolute  
eP 22 03.5

MAY 7  
U. S. C. G. S.  
3 1/2S, 148 1/2E  
Bismarck Sea  
H = 00 03 24  
Mag 6 - 6 1/4  
Halifax  
eL 00 54.2  
Resolute  
eP 00 17 11  
e 00 27 52  
eS 00 28 48  
SS 00 35 35

MAY 7  
Resolute  
eP 04 10.0

MAY 7  
U. S. C. G. S.  
3 1/2S, 149 1/2E  
Bismarck Sea  
H = 09 03 46  
Resolute  
eS 09 29 10  
e 09 31 13  
SS 09 36 03

MAY 7  
Resolute  
eP 10 31 06  
e 10 33 16

MAY 7  
Resolute  
eP 10 37 20

MAY 7  
Resolute  
eP 10 48 45  
e 10 50 26

DOMINION OBSERVATORIES

MAY 7

U.S.C.G.S.  
3 1/2S, 150E  
Bismarck Sea  
H = 11 17 16  
Resolute  
eP 11 31.1  
eS 11 42.7  
PS 11 44.2  
SS 11 49 32

MAY 7

Resolute  
eP 14 36 54

MAY 7

Resolute  
eP 15 44 43

MAY 7

Resolute  
eP 16 26 33  
e 16 31 10  
e 16 39 38  
e 16 46.5

MAY 7

U.S.C.G.S.  
North Atlantic Ocean  
H = 18 10 49  
Resolute  
eP 18 20 54  
eP 18 21 11.5 c  
e 18 21 19  
e 18 29.6  
e 18 33.5  
Shawinigan Falls  
eP 18 17 49

MAY 7

Resolute  
eP 18 26 05

MAY 7

U.S.C.G.S.  
8 1/2S, 123 1/2E  
Flores Islands  
H = 20 22 41  
Resolute  
eP 20 37 16  
P' 20 41 15  
PS 20 51.3  
SS 20 57.8  
eL 21 07.3  
Shawinigan Falls  
eP' 20 42 12

MAY 7

Resolute  
eP 21 54 59

MAY 8

Resolute  
eP 01 04 23

MAY 8

U.S.C.G.S.  
26 1/2N, 127 1/2E  
Ryukyu Islands  
H = 05 15 17  
Resolute  
eP 05 27 00 c  
i 05 27 14

MAY 8

U.S.C.G.S.  
53 1/2N, 159 1/2E  
Near east coast of  
Kamchatka  
H = 06 46 18  
Ottawa  
eP 06 57 32  
Resolute  
eP 06 54 18 d  
i 06 54 26  
eS 07 00 50  
eL 07 03.8

Shawinigan Falls

eP 06 57 37

MAY 8

Resolute  
eP 10 04 20 c  
e 10 06.7  
e 10 19.4  
Shawinigan Falls  
eP 10 00 58

MAY 8

Resolute  
eP 10 16 46  
Shawinigan Falls  
eP 10 13 25

MAY 8

U.S.C.G.S.  
53 1/2N, 160 1/2E  
Near east coast of  
Kamchatka  
H = 11 34 50  
h = 60 km  
Mag 6  
Alberni  
eP 11 43 01  
Banff  
eP 11 43 28.9  
Halifax  
iP 11 46 29 c  
Horseshoe Bay  
eP 11 43 06  
Ottawa  
eP 11 45 59  
S 11 55 04  
Resolute  
iP 11 42 44 c  
PP 11 44 25  
P<sub>c</sub>P 11 44 36  
iS 11 49 05  
eL 11 52.3  
Seven Falls  
eP 11 46 01  
S 11 55 12

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Shawinigan Falls	MAY 9	MAY 9
iP 11 46 00 c	Banff	U. S. C. G. S.
Victoria	eP 00 10 05.6	5 1/2S, 146E
eP 11 43 10	Resolute	Near north east of
	eP 00 09 09 c	New Guinea
	e 00 23.1	H = 08 42 07
MAY 8		Resolute
Resolute		eP 08 56.1
eP 14 13 10 c	MAY 9	
e 14 16 00	47.5°N, 122.7°W	
	South west of Seattle	MAY 9
	H = 00 24 51	Resolute
MAY 8	Mag 2.4	iP 10 37 08 c
U. S. C. G. S.	Horseshoe Bay	
45 1/2N, 150 1/2E	iP 00 25 23.7	
Kurile Islands	iS 00 25 50.1	MAY 9
H = 15 28 58	D = 211 km	U. S. C. G. S.
Resolute	Victoria	52 1/2N, 168 1/2W
eP 15 38 16	iP 00 25 11.2	Fox Islands,
eL 15 50 30	eS 00 25 29.2	Aleutian Islands
	D = 125 km	H = 12 46 22
		Resolute
MAY 8		eP 12 53 25
Resolute	MAY 9	P <sub>c</sub> P 12 55 51
eP 17 33 06 (c)	Resolute	
	eP 04 16 47 d	
	iP 04 16 47.5 c	MAY 9
MAY 8		Resolute
U. S. C. G. S.		eP 14 35 36.5
51N, 175W	MAY 9	
Andreanof Islands,	Resolute	
Aleutian Islands	eP 08 29 37	MAY 9
H = 22 13 44		Resolute
Ottawa		eP 15 44.2
eP 22 24 06 d	MAY 9	
Resolute	Resolute	
eP 22 21 17	eP 08 33 20 c	MAY 9
e 22 23 23		Resolute
e 22 33.3		eP 16 10.2
e 22 34.4	MAY 9	
	Resolute	
MAY 8	eP 08 40 08	MAY 9
Resolute	e 08 46.2	Resolute
eP 23 49 08 (c)		eP 16 23 52
		e 16 46.2

DOMINION OBSERVATORIES

MAY 9 Resolute eP 16 54 48	MAY 10 Resolute eP 01 43 13 d	MAY 10 U.S.C.G.S. 44 1/2N, 150E Kurile Islands H = 10 49 08 Resolute iP 10 58 27 c P <sub>c</sub> P 10 59 36
MAY 9 Resolute eP 18 40 32 (c) e 18 50.8	MAY 10 48°46'N, 123°22'W Gulf Islands H = 02 04 16 Mag 2.7 Alberni iP 02 04 36.3 iS 02 04 53.9 D = 128 km Horseshoe Bay iP 02 04 27.4 D = 72 km Victoria iP 02 04 20.6 iS 02 04 24.1 iS <sub>N</sub> 02 04 24.8 D = 29 km	MAY 10 Resolute eP 14 04 27.5
MAY 9 Resolute eP 23 00 31	MAY 10 Resolute eP 14 58 46	MAY 10 Resolute eP 16 56 25.5 e 16 59 02
MAY 9 U.S.C.G.S. 45N, 149E Kurile Islands H = 23 57 03 Banff eP 24 07 03.7 Ottawa eP 24 09 22 Resolute eP 24 06 24 c iP 24 06 25 d eS 24 13 48 SS 24 17.5 eL 24 18.5 Seven Falls eP 24 09 25 Shawinigan Falls eP 24 09 23	MAY 10 Resolute eP 05 59 30 e 06 01 32	MAY 10 Resolute eP 19 46 41
MAY 10 50.4N, 115.1W Rocky Mountain Range Southeast of Banff H = 01 05 32 Mag 3 Banff eP 01 05 46.2 eS 01 05 57.2 D = 91 km	MAY 10 Resolute eP 07 42 05	MAY 11 Resolute eP 01 51 52 d
	MAY 10 Resolute eP 07 42 05	MAY 11 Resolute eP 08 51 12
	MAY 10 U.S.C.G.S. 48 1/2N, 148E Sea of Okhotsk H = 09 44 02 h = 400 km Resolute iP 09 52 19 P <sub>c</sub> P 09 53 32 S <sub>c</sub> P 09 56 51	MAY 11 Resolute eP 16 02.1 e 16 05.2

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MAY 11

U. S. C. G. S.  
53 1/2N, 160E  
Kamchatka  
H = 16 28 49

Banff  
eP 16 37 11

Horseshoe Bay  
eP 16 38 15

Ottawa  
iP 16 40 05

Resolute  
iP 16 36 51 c

i 16 37 12

i 16 37 21

P<sub>c</sub>P 16 38 40

eS 16 43 14

eL 16 46.4

Shawinigan Falls  
iP 16 40 07 c

Victoria  
eP 16 37 18

MAY 11

Ottawa  
iP 17 29 04 c  
i 17 29 12 c

MAY 11

48°36'N, 123°02'W  
Gulf Islands  
H = 20 53 46  
Mag 1.3  
Horseshoe Bay  
eP 20 54 00.3  
eS 20 54 11.2  
D = 90 km  
Victoria  
iP 20 53 50.6  
iS 20 53 53.9  
D = 26 km

MAY 12

Canadian Arctic  
H = 00 08 22.4

Mag 1.2

Resolute  
iP<sub>1</sub> 00 08 29  
iS<sub>1</sub> 00 08 34  
D = 41 km

MAY 12

U. S. C. G. S.  
32 1/2N, 79E  
Tibet - India border  
H = 00 35 46

Resolute  
eP 00 47 19  
eL 01 15.4

MAY 12

Resolute  
eP 01 30 45  
e 01 32 54

MAY 12

U. S. C. G. S.  
7 1/2N, 77W  
Panama - Colombia  
border  
H = 03 42 47  
Banff  
eP 03 52 40.2  
Horseshoe Bay  
eP 03 52 34  
Ottawa  
eP 03 50 07 c  
Resolute  
eP 03 53 46 c  
eL 04 10.6  
Shawinigan Falls  
eP 03 50 19 c  
Victoria  
eP 03 52 31

MAY 12

U. S. C. G. S.  
54 1/2N, 168E  
Komandorskie Islands  
H = 04 57 35  
Mag 6 1/2

Alberni  
eP 05 05 16  
eS 05 11 28

Banff  
iP 05 05 44.5

Halifax  
eP 05 09 05  
iS 05 18 13  
iSS 05 26 22  
eL 05 29.0

Ottawa  
eP 05 08 25 c  
S 05 17 13  
SSS 05 24 44

Resolute  
iP 05 05 11 d  
PP 05 06 45  
iS 05 11 17  
iL 05 14 14

Seven Falls  
eP 05 08 32  
S 05 17 18  
SSS 05 24 48

Shawinigan Falls  
eP 05 08 28 c

Victoria  
eP 05 05 24 c  
iPP 05 06 59  
iS 05 11 39  
esS 05 12 36  
SS 05 15.0  
eL 05 18.4

MAY 12

U. S. C. G. S.  
9 1/2S, 159E  
Solomon Islands  
H = 08 06 01  
h = 100 km  
Resolute  
eP 08 20 00

DOMINION OBSERVATORIES

MAY 12	MAY 12	MAY 12
U. S. C. G. S.	U. S. C. G. S.	U. S. C. G. S.
23 1/2S, 64 1/2W	20 1/2S, 63 1/2W	51 1/2N, 177W
Salta Province, Argentina	Bolivia	Andreanof Islands,
H = 09 46 51	H = 10 14 00	Aleutian Islands
Mag 6 3/4	Banff	H = 21 40 22
Alberni	eP 10 26 31	Alberni
eP 09 59 56	Ottawa	eP 21 47 01
Banff	eP 10 24 55	Halifax
iP 09 59 36.9	Resolute	eP 21 51 28
Halifax	eP 10 27 35	eS 22 00 26
eP 09 57 50 d	PP 10 31.5	eSS 22 05 37
iP 09 57 50.5 c	Seven Falls	L 22 13.1
iS 10 06 42	eP 10 25 01	Ottawa
iS <sub>c</sub> S 10 07 48	Shawinigan Falls	iP 21 50 47 d
Horseshoe Bay	eP 10 25 01	Resolute
iP 09 59 51 d	Victoria	eP 21 47 54
Ottawa	eP 10 26 43	PP 21 49 32
iP 09 57 59 c		e 21 49 43
PP 10 02 17	MAY 12	P <sub>c</sub> P 21 50 02
S 10 07 04	Ottawa	eS 21 54 01
Resolute	eP 11 35 01	eL 21 56.3
eP 10 00 37 c	Resolute	S <sub>c</sub> S 21 58 00
PP 10 04 35	eP 11 38 26	eL 21 58.3
SKS 10 11 17		Shawinigan Falls
iS 10 12 08	MAY 12	eP 21 50 50 d
PS 10 13 38	Resolute	Victoria
e 10 14 19	eP 12 02 (21)	eP 21 47 10
PKKP 10 17 02	e 12 04 04	eS 21 52 36
SS 10 18 50		
S <sub>c</sub> S, S <sub>c</sub> S 10 24 17	MAY 12	MAY 12
iL 10 28.0	Resolute	U. S. C. G. S.
Seven Falls	eP 12 45 39 c	51 1/2N, 177W
eP 09 58 06	e 12 48 18	Andreanof Islands,
S 10 07 17		Aleutian Islands,
Shawinigan Falls		H = 21 59 56
iP 09 58 04 c	MAY 12	Mag 6
i 09 58 54	Resolute	Alberni
Victoria	eP 14 55 20	eP 22 06 35
eP 09 59 46 c		Horseshoe Bay
eSKS 10 10 18		eP 22 06 38
eS 10 10 26		Ottawa
e 10 10 40		eP 22 10 21 d
		Resolute
		eP 22 07 28 c
		P <sub>c</sub> P 22 09 36
		iS 22 13 24
		S <sub>c</sub> S 22 17 35

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Seven Falls  
 eP 22 10 25  
 Shawinigan Falls  
 eP 22 10 25  
 Victoria  
 eP 22 06 43  
 eS 22 12 13

MAY 12  
 Resolute  
 iP 22 44 18 c

MAY 13  
 Resolute  
 eP 11 33 50

MAY 13  
 Resolute  
 eP 12 45.9

MAY 13  
 Resolute  
 eP 13 48 16

MAY 13  
 Resolute  
 eP 16 30 16

MAY 13  
 Canadian Arctic  
 H = 16 56 43.4  
 Mag 3.0  
 Resolute  
 iP<sub>1</sub> 16 57 02.5 d  
 iS<sub>1</sub> 16 57 17  
 D = 119 km

MAY 14  
 U. S. C. G. S.  
 Northern Sumatra  
 H = 00 48 40  
 Resolute  
 eP' 01 05 52  
 e 01 13 30  
 e 01 16.4

MAY 14  
 Resolute  
 eP 05 31 50

MAY 14  
 U. S. C. G. S.  
 Crete foreshock  
 H = 06 27 02  
 Resolute  
 eP 06 37 32  
 Shawinigan Falls  
 eP 06 38 15

MAY 14  
 U. S. C. G. S.  
 35 1/2N, 24 1/2E  
 Crete  
 H = 06 36 57  
 Mag 6 1/2  
 Banff  
 iP 06 49 42.5  
 Halifax  
 iP 06 47 38 d  
 i 06 47 49 c  
 e 06 49 05  
 ePP 06 50 09  
 iS 06 56 19  
 eS<sub>C</sub>S 06 57 32  
 eSS 07 00 27  
 eSSS 07 03 25  
 Horseshoe Bay  
 eP 06 49 59  
 Ottawa  
 iP 06 48 23 d  
 S 06 57 48  
 Resolute  
 iP 06 47 26 d  
 iS 06 55 59  
 S<sub>C</sub>S 06 57 17  
 eL 07 06 20

Seven Falls  
 eP 06 48 00  
 S 06 57 02  
 Shawinigan Falls  
 eP 06 48 00  
 Victoria  
 eP 06 50 05

MAY 14  
 U. S. C. G. S.  
 19S, 170E  
 New Hebrides Islands  
 H = 09 33 22  
 Ottawa  
 eP' 11 00 43  
 Resolute  
 (sP) 10 57 16  
 Shawinigan Falls  
 eP' 11 00 47

MAY 14  
 Resolute  
 eP 11 36 57

MAY 14  
 U. S. C. G. S.  
 19S, 170E  
 New Hebrides Islands  
 H = 11 49 20  
 h = 100 km  
 Ottawa  
 eP' 12 08 06  
 Resolute  
 eP' 12 07 42  
 SP 12 17 40  
 SS 12 23.8  
 Shawinigan Falls  
 eP' 12 08 10



DOMINION OBSERVATORIES

MAY 14  
 U. S. C. G. S.  
 19S, 170E  
 New Hebrides Islands  
 H = 13 19 32  
 h = 150 km  
 Resolute  
 eP' 13 37 50  
 SP 13 47 50  
 SS 13 54 00  
 Shawinigan Falls  
 eP' 13 38 17

MAY 14  
 47° 00'N, 70° 19'W  
 About nine miles south of  
 Bonsecours, Quebec  
 H = 14 23 40.3  
 Mag 2.5  
 Montreal  
 S<sub>1</sub> 14 25 06  
 D = 304 km  
 Seven Falls  
 P<sub>1</sub> 14 23 46.9  
 S<sub>1</sub> 14 23 51.9  
 D = 41 km  
 Shawinigan Falls  
 S<sub>1</sub> 14 24 34.6  
 D = 194 km

MAY 14  
 Resolute  
 eP 16 26 16

MAY 14  
 Resolute  
 eP 16 49.8

MAY 14  
 Resolute  
 eP 17 42 55

MAY 14  
 U. S. C. G. S.  
 40N, 24 1/2E  
 Aegean Sea  
 H = 19 22 18  
 Resolute  
 eP 19 32 17  
 e 19 45.4  
 e 19 48.7  
 e 19 50 21

MAY 14  
 Resolute  
 eP 21 25 01

MAY 14  
 Resolute  
 eP 21 30 17  
 e 21 30 38  
 e 21 35.5  
 e 21 36.3  
 e 21 38.5  
 e 21 45.8

MAY 14  
 Resolute  
 eP 23 31 18

MAY 15  
 U. S. C. G. S.  
 54N, 158 1/2E  
 Kamchatka  
 H = 01 30 35  
 Resolute  
 eP 01 38 36  
 P<sub>c</sub>P 01 40 27

MAY 15  
 Canadian Arctic  
 H = 06 24 18.6  
 Mag 2.1  
 Resolute  
 P<sub>1</sub> 06 24 39  
 S<sub>1</sub> 06 24 54.5  
 D = 127 km

MAY 15  
 U. S. C. G. S.  
 14N, 93W  
 Near coast of Mexico  
 H = 07 49 30  
 h = 100 km  
 Banff  
 iP 07 57 11  
 Resolute  
 eP 07 59 35 (c)  
 eS 08 07 55  
 S<sub>c</sub>S 08 09 26  
 G 08 14.5

MAY 15  
 Resolute  
 eP 12 13 09 c

MAY 15  
 Resolute  
 eP 12 44 14

MAY 15  
 Resolute  
 eP 13 18 04.5

MAY 15  
 Resolute  
 eP 13 59 36

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MAY 15	MAY 16	Victoria
U. S. C. G. S.	U. S. C. G. S.	eP 06 29 16
Oaxaca, Mexico	65 1/2N, 156W	eS 06 39.4
H = 14 42 48	Alaska	eL 06 57
Banff	H = 04 58 25	
eP 14 49 59	Resolute	
Ottawa	eP 05 03 12	MAY 16
eP 14 49 36	eS 05 07 04	U. S. C. G. S.
Resolute	Shawinigan Falls	4 1/2S, 153 1/2E
iP 14 52 40.5 c	eP 05 06 51	New Britain region
eS 15 00.5		H = 07 31 18
Shawinigan Falls		h = 60 km
eP 14 49 55	MAY 16	Resolute
	Resolute	ePP 07 48 39
	eP 05 21 13	
MAY 15		
Resolute	MAY 16	MAY 16
eP 18 47 45	U. S. C. G. S.	Banff
e 18 53 (08)	4 1/2S, 153 1/2E	eP 08 12 56.5
e 19 03.4	New Britain	i 08 30 54.8
e 19 04.4	H = 06 16 23	Resolute
	h = 60 km	iP 08 12 01.5 c
	Mag 6 3/4	i 08 13 11
MAY 15	Alberni	
Resolute	eP 06 29 10	MAY 16
eP 20 25 05	Banff	Resolute
e 20 47.4	iP 06 29 39	eP 08 28 48
e 20 52.0	Halifax	
	ePP 06 37 44	
MAY 15	ePKS 06 38 50	MAY 16
Resolute	ePS 06 47 51	Resolute
(eP) 22 10 23	eSS 06 55 06	eP 10 13 47
e 22 16 20	Horseshoe Bay	
e 22 18 20	eP 06 29 20	
e 22 19 18	Ottawa	
	eP' 06 35 17	MAY 16
	PKKP 06 45 21	Resolute
MAY 15	Resolute	eP 12 03 27
Resolute	eP 06 30 05	e 12 04 52
eP 22 31 04	PP 06 34.2	
	PPP 06 36.3	MAY 16
	SKS 06 40 34	Resolute
	PS 06 43 10	eP 14 37 27
	PKKP 06 46.8	
	Seven Falls	
	eP' 06 35 20	
	Shawinigan Falls	
	eP' 06 35 16	

DOMINION OBSERVATORIES

MAY 16	MAY 17	Resolute
Resolute	U. S. C. G. S.	1P 07 31 51.5
eP 14 52 05	54N, 159 1/2E	P <sub>c</sub> P 07 33 52
	Near east coast of	eS 07 38 16
	Kamchatka	eL 07 40.7
	H = 19 15 42	Shawinigan Falls
MAY 16	Resolute	eP 07 34 58 d
Resolute	eP 19 23 44 c	Victoria
eP 15 56 03	P <sub>c</sub> P 19 25 32	eP 07 31 38
MAY 17	MAY 18	MAY 18
U. S. C. G. S.	Resolute	Resolute
47 1/2N, 113W	eP 03 56.6	eP 10 02 21
Northwestern Montana	e 04 00 42	
H = 10 56 52		
Alberni	MAY 18	MAY 18
eP 10 58 44.3	U. S. C. G. S.	Resolute
D = 905 km	36S, 148E	eP 10 04 03
Banff	Southeastern Australia	e 10 04 14
iP 10 57 54.7	H = 06 12 56	
D = 453 km	Ottawa	MAY 18
Horseshoe Bay	iP <sub>1</sub> ' 06 32 37 d	Resolute
eP <sub>1</sub> 10 58 47.4	P <sub>2</sub> ' 06 32 42	eP 13 51.4
e 10 59 59.6	Resolute	e 14 42.3
D = 795 km	iP' 06 32 10	
Resolute	iP' 06 32 15	
eP 11 03.1	Seven Falls	
Victoria	eP' 06 32 46	MAY 18
eP 10 58 33.7	Shawinigan Falls	Resolute
D = 792 km	eP' 06 32 46	eP 15 07 07
MAY 17	MAY 18	MAY 18
U. S. C. G. S.	Resolute	U. S. C. G. S.
Northern Mariana	eP 07 29 02	New north Island,
Islands region		New Zealand
H = 10 57 27		H = 19 00 33
Resolute		Resolute
eP 11 09 21		eP' 19 19 32
e 11 11 25		
e 11 11 43	MAY 18	
e 11 11 48	U. S. C. G. S.	
	52 1/2N, 173 1/2E	
	Near Islands	
	Aleutian Islands	
	H = 07 24 11	
MAY 17	Alberni	
Resolute	eP 07 31 30	
eP 18 41 38.5	Horseshoe Bay	
	eP 07 31 34	





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MAY 21		MAY 21		MAY 22	
U.S.C.G.S.		U.S.C.G.S.		U.S.C.G.S.	
28S, 69W		39 1/2N, 118W		40S, 176E	
Northern Chile		Western Nevada		North Island,	
Argentina border		H = 17 51 40		New Zealand	
H = 11 34 23		Mag 4 3/4		H = 06 57 00	
h = 60 km		Resolute		Ottawa	
Mag 6		eP	17 58 49	iP'	07 16 14
Halifax				i	07 16 31
iP	11 45 50 d	MAY 21		PP	07 18 30
e	11 54 41	Resolute		PKS	07 19 32
eS	11 55 17	eP	22 22 49	Resolute	
e	11 55 39			eP'	07 16 11.5 (c)
eL	12 05 03			(PKS)	07 19 24
Horseshoe Bay		MAY 21		SS	07 35.5
P	11 46 25	U.S.C.G.S.		Shawinigan Falls	
Ottawa		Fox Islands,		eP'	07 16 19
eP	11 45 54 c	Aleutian Islands		PKS	07 19 39
P <sub>c</sub> P	11 46 08	H = 22 31 50			
S <sub>c</sub>	11 55 20	Resolute		MAY 22	
Resolute		eP	22 38 49 c	U.S.C.G.S.	
eP	11 48 24			25 1/2N, 95 1/2E	
e	11 48 40	MAY 22		Northern Burma	
PP	11 52 30	Canadian Arctic		H = 08 31 00	
SKS	11 59.1	H = 00 46 20.1		Resolute	
eS	12 00 08	Mag 1.4		eP	08 43 16(c)
PS	12 01.5	Resolute		PP	08 46.3
(PKKP)	12 04 15	P <sub>1</sub>	00 46 30.0	SSS	09 01 50
SS	12 07.3	S <sub>1</sub>	00 46 37.5	G	09 04.3
Seven Falls		D = 61.5 km			
eP	11 46 04 d			MAY 22	
S	11 55 48	MAY 22		Resolute	
S <sub>c</sub> S	11 56 03	Resolute		eP	11 51 01.
Shawinigan Falls		eP	01 39 38 c		
eP	11 46 01 c			MAY 22	
P <sub>c</sub> P	11 46 14	MAY 22		Resolute	
Victoria		U.S.C.G.S.		eP	23 43 04
eP	11 47 21	51 1/2N, 159E			
		Off southeast coast		MAY 23	
MAY 21		of Kamchatka		Resolute	
Resolute		H = 04 41 57		eP	05 30 25
eP	15 57 59	Resolute			
		eP	04 50 15		
		eS	04 57 04		
		eL	05 00 29		

DOMINION OBSERVATORIES

MAY 23		MAY 24		MAY 24
Resolute		Resolute		U. S. C. G. S.
eP	10 06 19	eP	06 40.5	44 1/2N, 149E
		e	06 41 03	Kurile Islands
				H = 14 00 10
MAY 23		MAY 24		Resolute
Resolute		Resolute		eP
eP	21 38 37	eP	10 37 49	14 09 33
		e	10 37 55.5	
MAY 23		MAY 24		MAY 24
Canadian Arctic				U. S. C. G. S.
H = 22 17 54.7		MAY 24		17 1/2N, 97W
Mag 1.8		Ottawa		Oaxaca, Mexico
Resolute		eP	10 54 07	H = 19 17 40
P <sub>1</sub>	22 18 21			h = 100 km
S <sub>1</sub>	22 18 41			Mag 6 3/4 - 7
D = 164 km				Alberni
		MAY 24		eP
		U. S. C. G. S.		19 25 01 d
		20 1/2N, 90 1/2E		eS
		Bhutan-India Border		19 30 56
		H = 11 28 18		Halifax
		Resolute		iP
		iP	11 40 26 c	19 25 02 c
		i	11 40 36	ipP
		eS	11 50.3	19 25 23
		S <sub>c</sub> S	11 51.3	isP
				19 25 48
				iPP
				19 26 32
				iP <sub>c</sub> P
				19 27 02
				iS
				19 30 52
				iG
				19 33 50
				Horseshoe Bay
				P
				19 24 53 d
				e
				19 27 16
				S
				19 30 42
				Ottawa
				iP
				19 24 10
				S
				19 29 26
				Resolute
				iP
				19 27 20 d
				PPP
				19 30 55
				iS
				19 35 09
				SS
				19 39 00
				Seven Falls
				eP
				19 24 41
				S
				19 30 11
				Shawinigan Falls
				eP
				19 24 21
				S
				19 30 02
				Victoria
				eP
				19 24 49 d,S,E
				e
				19 26 26
				iS
				19 30 36
				eL
				19 36.9

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MAY 25 Resolute eP 07 48 53	MAY 26 Resolute eP 02 17 51.5 c	MAY 26 U.S.C.G.S. 37 1/2N, 70E Afghanistan - Tadzhik border H = 06 36 00 Resolute eP 06 47 00 (d) P <sub>c</sub> P 06 47 30 eS 06 56.1 S <sub>c</sub> S 06 57.1
MAY 25 Resolute eP 10 47 23.5	MAY 26 U.S.C.G.S. 27 1/2N, 126 1/2E Ryukyu Islands region H = 04 13 01 h = 100 km Mag 6 1/2 - 6 3/4 Horseshoe Bay eP 04 25 09	
MAY 25 Resolute iP 10 59 19 c	Ottawa eP' 04 30 37	MAY 26 Resolute eP 09 06.9
MAY 25 Resolute eP 11 09 07 c	Resolute iP 04 24 33 d PP 04 27 24 iS 04 33 59 sS 04 34 32 SS 04 39.1 SSS 04 42.4 Victoria eP 04 25 13 d	MAY 26 Resolute eP 13 34 16 d e 13 38 35 e 13 40.4
MAY 25 U.S.C.G.S. 18 1/2N, 147E Mariana Islands H = 17 06 24 Resolute eP 17 18 36	MAY 26 U.S.C.G.S. 17N, 61W Leeward Islands H = 05 27 36 Ottawa eP 05 33 56 T 05 40 24	MAY 26 Resolute eP 20 09 25 e 20 11 15
MAY 25 Resolute eP 17 46 02	Resolute iP 05 37 51 d i 05 38 05 e 05 38 30 P <sub>c</sub> P 05 38 42 Shawinigan Falls eP 05 33 59	MAY 27 U.S.C.G.S. 33N, 141E South of Honshu, Japan H = 04 51 45 Resolute eP 05 02 34.5 c eL 05 28.2
MAY 25 U.S.C.G.S. 27N, 94E Eastern India H = 19 20 48 Resolute eP 19 32 49 c	MAY 26 Resolute iP 06 33 42 c	
MAY 25 Resolute eP 21 28 36 c		MAY 27 Resolute eP 05 55 40 d



DOMINION OBSERVATORIES

MAY 27  
Resolute  
eP 06 13 35

MAY 27  
Resolute  
eP 10 25 02

MAY 27  
Resolute  
eP 10 35.4  
e 10 36.4

MAY 27  
Resolute  
iP 11 25 54 d

MAY 27  
U.S. C. G. S.  
23 1/2N, 120 1/2E  
Formosa  
H = 13 49 47  
Resolute  
eP 14 01 55.5 (c)

MAY 27  
Resolute  
eP 15 36 49

MAY 27  
Canadian Arctic  
H = 19 28 38.5  
Mag 2.0  
Resolute  
iP<sub>1</sub> 19 28 45.6  
iS<sub>1</sub> 19 28 51.0  
D = 44.3 km

MAY 27  
U.S. C. G. S.  
46N, 21E  
Hungary-Romania  
border  
H = 20 38 26  
Resolute  
eP 20 47 37  
e 20 47 44  
eL 21 02.1

MAY 27  
U.S. C. G. S.  
13N, 124 1/2E  
Luzon, Philippine  
Islands  
H = 21 55 25  
Resolute  
eP 22 08 23 c  
e 22 10 41  
eL 22 32.2

MAY 28  
U.S. C. G. S.  
Colombia  
H = 04 06 15  
Resolute  
eP 04 17 43.5

MAY 28  
Resolute  
eP 04 43 25

MAY 28  
Canadian Arctic  
H = 05 42 54.5  
Mag 2.7  
Resolute  
e 05 43 59  
P<sub>1</sub> 05 44 07  
(S<sub>n</sub>) 05 44 37  
S<sub>1</sub> 05 45 03  
D = 450 km

MAY 28  
U.S. C. G. S.  
17N, 147E  
Mariana Islands  
H = 07 35 30  
h = 100 km  
Resolute  
eP 07 47 36

MAY 28  
Resolute  
iP 09 09 59 d

MAY 28  
U.S. C. G. S.  
13N, 124E  
Luzon, Philippine  
Islands  
H = 15 14 29  
Resolute  
eP 15 27 29  
iP 15 27 30  
eS 15 38.3  
SS 15 44.3  
eL 15 51.3

MAY 28  
Resolute  
eP 19 24 10

MAY 28  
U.S. C. G. S.  
4S, 141 1/2E  
New Guinea  
H = 22 27 15  
h = 100 km  
Resolute  
eP 22 41 04

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MAY 28

Ottawa  
 iP 22 58 06 d  
 i 22 58 29  
 Resolute  
 eP 22 54.6  
 e 22 58 58  
 Seven Falls  
 eP 22 58 06  
 i 22 58 29

MAY 29

Resolute  
 eP 01 03 44

MAY 29

46° 32'N, 76° 43'W  
 About 40 miles northwest  
 of Maniwaki, Quebec  
 H = 02 16 48.8  
 Mag 3.0  
 Montreal  
 P<sub>1</sub> 02 17 31.9  
 i 02 17 34.6  
 S<sub>1</sub> 02 18 04.4  
 D = 266 km  
 Ottawa  
 P<sub>1</sub> 02 17 12.6  
 i 02 17 17  
 S<sub>1</sub> 02 17 30.7  
 L 02 17 36.7  
 D = 148.5 km  
 Seven Falls  
 e 02 18 37.2  
 S<sub>1</sub> 02 18 51.2  
 i 02 19 04.2  
 D = 453 km

MAY 29

U. S. C. G. S.  
 19S, 169 1/2E  
 New Hebrides Islands  
 H = 10 42 48  
 h = 100 km  
 Mag 6 1/2  
 Halifax  
 eP' 11 01 51 c  
 iPKS 11 05 06 c  
 e 11 05 38  
 e 11 17 13  
 Horseshoe Bay  
 P 10 55 46  
 Ottawa  
 eP' 11 01 33  
 Resolute  
 eP 10 57 12  
 P' 11 01 10  
 pPP 11 02 10  
 pPPP 11 04 39  
 SKS 11 07 39  
 SKKS 11 08 15  
 eS 11 09 16  
 pPS 11 11 36  
 PSP 11 12 15  
 PKKP 11 12 26  
 SS 11 17.0  
 sSS 11 17 44  
 SSS 11 21.3  
 G 11 28.1  
 Seven Falls  
 eP' 11 01 38  
 Victoria  
 iP 10 55 45 c

MAY 29

U. S. C. G. S.  
 21N, 146 1/2E  
 Mariana Islands  
 H = 12 28 06  
 Resolute  
 eP 12 40 01 d  
 e 12 40 13  
 e 12 40 36

MAY 29

U. S. C. G. S.  
 21 1/2N, 145 1/2E  
 Mariana Islands  
 H = 17 52 42  
 Resolute  
 eP 18 04 37.5  
 iP 18 04 38 c  
 eL 18 29.5

MAY 29

U. S. C. G. S.  
 50 1/2N, 157E  
 Near south coast of  
 Kamchatka  
 H = 18 29 27  
 Horseshoe Bay  
 P 18 38 15  
 Ottawa  
 eP 18 41 17  
 Resolute  
 iP 18 27 58 c  
 eL 18 48.4  
 Seven Falls  
 eP 18 41 19  
 Victoria  
 eP 18 38 19

MAY 29

Resolute  
 iP 19 22 46 c

MAY 30

Canadian Arctic  
 H = 02 44 07.1  
 h = 18 km  
 Mag 1.8  
 Resolute  
 P<sub>n</sub> 02 44 34.5  
 P<sub>1</sub> 02 44 36.7  
 S<sub>n</sub> 02 44 56.5  
 S<sub>1</sub> 02 44 59.2  
 D = 183 km

DOMINION OBSERVATORIES

MAY 30  
Resolute  
eP 12 33 43.5

MAY 30  
Resolute  
eP 12 50 28.5  
iP 12 50 29 c  
e 13 03.5  
e 13 31 04

MAY 31  
Resolute  
eP 01 20 52 d

MAY 31  
Resolute  
eP 03 03 07

MAY 31  
U. S. C. G. S.  
20N, 80W  
Cayman Islands  
H = 05 36 25  
Ottawa  
eP 05 42 08  
Resolute  
eP 05 46 03  
iP 05 46 13  
eS 05 53.8  
SS 05 57.5  
eL 05 59.2  
Seven Falls  
eP 05 42 30

MAY 31  
U. S. C. G. S.  
6 1/2S, 155E  
Solomon Islands  
H = 09 28 09  
Mag 6 1/2  
Halifax  
iP' 09 47 21 d  
ePKS 09 50 41  
e 09 51 10  
ePS 09 59 25  
eL 10 28.3

Horseshoe Bay  
eP 09 41 05.3  
Ottawa  
eP' 09 47 03  
Resolute  
eP 09 42 04  
ePP 09 45.4  
e 09 50 46  
eSKS 09 52 39  
ePS 09 55 08  
Seven Falls  
eP' 09 47 09  
Victoria  
e 09 41 05

MAY 31  
Resolute  
eP 09 58 34  
e 10 00 43  
e 10 10.2

MAY 31  
U. S. C. G. S.  
46 1/2N, 27E  
Romania  
H = 12 15 51  
Resolute  
eP 12 25 08  
eS 12 32.5

MAY 31  
U. S. C. G. S.  
37 1/2N, 49E  
Northwestern Iran  
H = 13 01 44  
Resolute  
eP 13 12 28

MAY 31  
51.7N, 130.2W  
South of Queen  
Charlotte Islands  
H = 15 01 08  
Mag 4.4  
Alberni  
eP 15 02 12.6  
e 15 02 26.0  
eS<sub>n</sub> 15 03 15.8  
D = 474 km  
Horseshoe Bay  
P 15 02 23.4  
S 15 03 41.0  
D = 564 km

Resolute  
eP 15 07 02  
e 15 09 16  
eS 15 11.7  
e 15 12 16  
eSS 15 13.2  
e 15 15.9  
e 15 17.1

Victoria  
eP 15 02 30.2  
e 15 02 51.3  
eS<sub>n</sub> 15 03 58.9  
D = 620 km

MAY 31  
South west of  
Queen Charlotte Islands  
H = 16 14 45  
Mag 3.6  
Horseshoe Bay  
eP 16 16 00.7  
Victoria  
eP 16 16 07.2

MAY 31  
Alberni  
eP 16 30 30.9  
Horseshoe Bay  
eP 16 36 03.2  
e(S) 16 57 22.6  
Resolute  
eP 16 41.8  
e 16 46.4  
e 16 49.5

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Victoria eP 16 36 15.3	Ottawa eP' 17 26 10 d	Resolute eP 02 10 07 PP 02 14.2 Seven Falls eP' 02 15 26
MAY 31 U. S. C. G. S. 21 1/2N, 146 1/2E Mariana Islands H = 17 17 41 Resolute eP 17 29 35 e 17 29 47	JUNE 1 Ottawa iP 18 15 08 c	JUNE 2 U. S. C. G. S. 21N, 121E Batan Islands region H = 02 37 46 Resolute eP 02 50 04 iP 02 50 13 d PP 02 53 08 e 02 53 45 PPP 02 55.3 eS 03 00 20 SS 03 05.7
JUNE 1 U. S. C. G. S. 4S, 154 1/2E Solomon Islands region H = 05 31 31 h = 400 km. Resolute eP 05 44 32 Seven Falls eP' 05 49 43	JUNE 1 Resolute eP 20 33 10 d	JUNE 2 Resolute eP 03 17 41 Victoria eP 03 05 48
JUNE 1 U. S. C. G. S. 6 1/2S, 155E Solomon Islands H = 12 32 26 h = 400 km Resolute eP 12 45 43 PP 12 50 04 SKS 12 55 40 PS 12 59.0	JUNE 1 Resolute eP 22 58 38 eP 22 58 41	JUNE 2 Resolute eP 03 41 52
JUNE 1 U. S. C. G. S. 6 1/2S, 155 1/2E Solomon Islands H = 17 07 23 h = 100 km Halifax e 17 29 47 epPPP 17 31 45 e 17 54 01 eG 18 07.4	JUNE 2 U. S. C. G. S. 31 1/2N, 131 1/2E Near coast of Kyushu, Japan H = 00 47 17 Resolute iP 00 58 28.5 c i 00 58 42 eS 01 07 34 Victoria eP 00 59 09	JUNE 2 U. S. C. G. S. 25S, 176W Tonga Islands region H = 03 23 12 Resolute eP' 03 41 52
JUNE 1 U. S. C. G. S. 0, 123 1/2E Off south coast of Minahasa, North Celebes H = 01 56 32 h = 200 km Ottawa eP' 02 15 26	JUNE 2 U. S. C. G. S. 25 1/2S, 176W Tonga Islands region H = 03 31 55 Horseshoe Bay P 03 44 49 Resolute eP' 03 50 32 PP 03 51 09 e 03 51 30	

DOMINION OBSERVATORIES

Victoria eP 03 44 47	JUNE 2 U. S. C. G. S. 21 1/2N, 121 1/2E Batan Islands region H = 05 42 34 Resolute eP 05 54 53 c	JUNE 3 U. S. C. G. S. 4N, 77W Near west coast of Colombia H = 03 43 42 Halifax eP 03 51 42 eS 03 57 59 Horseshoe Bay eP 03 53 51 Ottawa iP 03 51 33 Resolute iP 03 55 05 d eS 04 04 14 S <sub>C</sub> S 04 05.2 SS 04 09 05 SSS 04 12.4 eL 04 12 45 Seven Falls eP 03 51 50 Victoria eP 03 53 49 d
JUNE 2 U. S. C. G. S. 25S, 176W Tonga Islands region H = 03 48 13 Resolute eP 04 06 52	JUNE 2 48.7N, 122.0W Northwest Washington H = 08 34 55 Horseshoe Bay P 08 35 14.7 D = 121 km Victoria eP 08 35 12.8 eS 08 35 26.2 D = 109 km	
JUNE 2 U. S. C. G. S. 25 1/2S, 176W Tonga Islands region H = 03 52 06 Resolute eP' 04 10 45 eP' 04 10 52	JUNE 2 Resolute e 17 36 49	
JUNE 2 U. S. C. G. S. 21N, 121 1/2E Batan Island region H = 04 57 18 Resolute eP 05 09 38 iP 05 09 41.5 i 05 09 46.5 eS 05 19 52 SS 05 25.3	JUNE 2 U. S. C. G. S. 23N, 121 1/2E Near east coast of Formosa H = 19 13 30 Resolute eP 19 25 40 eS 19 35.6 S <sub>C</sub> S 19 36.6	JUNE 3 U. S. C. G. S. 52 1/2N, 170W Fox Islands, Aleutian Islands H = 05 43 28 Halifax eP 05 54 04 (d) Ottawa iP 05 53 21 d Resolute eP 05 50 32.5 P <sub>C</sub> P 05 52 56 eS 05 56.3 eL 05 58 26 Seven Falls eP 05 53 29
JUNE 2 U. S. C. G. S. 43S, 72W Chile-Argentina border H = 05 42 26 h = 150 km Halifax iP 05 55 05 c Ottawa iP 05 55 05 c Resolute eP' 06 01 01 c Seven Falls eP 05 55 13	JUNE 3 Resolute eP 02 17 18	
		JUNE 3 Resolute eP 08 35 45

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JUNE 3

U. S. C. G. S.  
55 1/2N, 163E  
Near east coast of  
Kamchatka  
H=08 36 04  
Resolute  
eP 08 43 45.5  
eS 08 50 01  
eL 08 52 48

JUNE 3

Resolute  
iP 11 51 02.5 c

JUNE 3

U. S. C. G. S.  
Colombia aftershock  
H = 22 17 45  
Resolute  
eP 22 29 03.5

JUNE 4

U. S. C. G. S.  
9N, 84 1/2W  
Near coast of  
Costa Rica  
H = 01 57 49  
Ottawa  
eP 02 05 02  
Resolute  
eP 02 08 33

JUNE 4

Resolute  
eP 07 41 32

JUNE 4

Resolute  
eP 10 45 51

JUNE 4

Resolute  
iP 11 03 55.5 d

JUNE 4

U. S. C. G. S.  
59 1/2N, 153W  
Cook Inlet  
H = 12 31 56  
h = 100 km  
Mag 5 1/2  
Halifax  
iP 12 41 01 c  
e(S) 12 48 26  
Horseshoe Bay  
P 12 36 22 d  
Ottawa  
eP 12 40 13  
Resolute  
iP 12 37 17 d  
pP 12 37 40  
sP 12 37 51  
eS 12 42 04  
sS 12 42 30  
e 12 45 11  
Victoria  
eP 12 36 27  
e 12 36 36  
e 12 37 48

JUNE 5

U. S. C. G. S.  
7S, 155 1/2E  
Solomon Islands  
H = 05 58 40  
h = 150 km  
Resolute  
PS 06 25.5  
e 06 36.2  
G 06 41 -

JUNE 5

Ottawa  
eP 06 08 12

JUNE 5

Resolute  
eP 09 45.1  
eP 09 45 12

JUNE 5

Resolute  
iP 14 05 34 c

JUNE 5

U. S. C. G. S.  
3 1/2N, 126 1/2E  
Molucca Passage  
H = 18 28 57  
Resolute  
eP 18 42 36.5 c

JUNE 5

Resolute  
eP 19 54 50 c

JUNE 5

Ottawa  
eP 20 00 46  
Resolute  
eP 19 57 30 c

JUNE 5

U. S. C. G. S.  
12N, 86 1/2W  
Near coast of  
Nicaragua  
H = 20 37 15  
h = 100 km  
Halifax  
eP 20 44 30  
eS 20 50 28  
esS 20 50 49  
Ottawa  
eP 20 44 02 c  
Resolute  
iP 20 47 35.5 (c)  
iP 20 47 36 d  
sPP 20 50 39  
PPP 20 51 22  
eS 20 56.1  
sS 20 56.6  
Victoria  
eP 20 45 45

DOMINION OBSERVATORIES

JUNE 5  
Resolute  
iP 21 49 14 d

JUNE 5  
Southeast of Victoria  
H = 22 37 34  
Mag 1.3  
Alberni  
S - P = 21.5"  
D = 175 km  
Victoria  
eP 22 37 39.4  
eS 22 37 43.4  
D = 32 km

JUNE 6  
H = 00 31 33  
Mag 2.3  
Alberni  
S - P = 25.6"  
D = 205 km  
Victoria  
eP 00 31 47.0  
S 00 31 57.5  
D = 86 km

JUNE 6  
Resolute  
eP 01 38 36.5 d

JUNE 6  
Resolute  
eP 01 56 30  
e 02 00 17  
e 02 07.2

JUNE 6  
Resolute  
eP 02 10 16

JUNE 6  
Resolute  
eP 05 26 05  
e 05 28 10.5

JUNE 6  
Resolute  
eP 07 32 08

JUNE 6  
U. S. C. G. S.  
15S, 173 1/2W  
Samoa Islands region  
H = 10 15 36  
Resolute  
eS 10 41.6  
ePPS 10 43 -

JUNE 6  
U. S. C. G. S.  
16 1/2N, 93 1/2W  
Near coast of Chiapas  
Mexico  
H = 11 28 13  
Resolute  
eP 11 38 13 c  
e 11 38 22  
eS 11 46.5

JUNE 6  
Resolute  
eP 20 21 45  
e 20 22 12

JUNE 6  
U. S. C. G. S.  
6 1/2S, 155 1/2E  
Solomon Islands  
H = 20 51 19  
Ottawa  
iP' 21 10 15  
Resolute  
eP 21 05 14  
PP 21 09 37

JUNE 7  
U. S. C. G. S.  
10 1/2N, 126E  
Samar, Philippine  
Islands  
H = 03 45 21  
Resolute  
eP 03 58 28.5  
PP 04 02 07  
eS 04 09.4

JUNE 7  
Resolute  
eP 05 40 56 c

JUNE 7  
Resolute  
eP 06 55 52.5

JUNE 7  
Resolute  
eP 07 03 21

JUNE 7  
Resolute  
eP 08 45 20  
e 08 45 32.5

JUNE 7  
U. S. C. G. S.  
Samar, Philippine  
Islands  
H = 08 34 32  
Resolute  
eP 08 47 41  
PP 08 53 23  
(SKS) 08 58.2  
eS 08 58.6

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JUNE 7

U. S. C. G. S.  
1/2N, 18W  
Atlantic Ocean  
H = 13 39 38  
Halifax  
eP 13 49 56  
eS 13 58 02  
eSSS 14 04.5  
Ottawa  
eP 13 50 41  
Resolute  
eP 13 52 26 (d)  
iP 13 52 c  
eS 14 03 08  
SS 14 08.8  
SSS 14 12.1  
eL 14 15.2  
Seven Falls  
eP 13 50 28

JUNE 8

Resolute  
eP 12 14 43

JUNE 8

U. S. C. G. S.  
14 1/2S, 76W  
Near coast of Peru  
H = 14 12 05  
h = 60 km  
Resolute  
eP 14 25 00 c

JUNE 9

Resolute  
eP 04 47 30 d

JUNE 9

Resolute  
eP 11 31 43 d

JUNE 9

Ottawa  
eP 13 29 31 d

JUNE 9

Resolute  
eP 14 44 19 c

JUNE 9

U. S. C. G. S.  
33S, 179 1/2W  
Kermadec Islands region  
H = 14 53 30  
Ottawa  
eP' 15 12 25  
Resolute  
eP' 15 12 20 c  
Seven Falls  
eP' 15 12 31

JUNE 9

Resolute  
eP 16 57 11

JUNE 9

Resolute  
eP 17 38 28.5

JUNE 9

U. S. C. G. S.  
58S, 9 1/2W  
About 600 miles south-  
west of Bouvet Island  
H = 23 10 38  
Resolute  
eP' 23 30 11  
SS 23 52.3

JUNE 10

Resolute  
eP 01 14 35 c

JUNE 10

Resolute  
eP 02 23.3

JUNE 10

U. S. C. G. S.  
36N, 24E  
Crete  
H = 04 16 01  
Halifax  
iP 04 26 40 d  
Ottawa  
iP 04 27 26 d  
Resolute  
iP 04 26 31 d  
eS 04 35 04  
eL 04 42.2  
Seven Falls  
eP 04 27 02

JUNE 10

Resolute  
eP 04 37 04

JUNE 10

Resolute  
iP 06 52 41 d

JUNE 10

Resolute  
eP 07 20 44.5

JUNE 10

U. S. C. G. S.  
13 1/2N, 120E  
Mindoro, Philippine  
Islands  
H = 09 49 53  
h = 100 km  
Resolute  
iP 10 02 43 c  
iP 10 02 43.5 d

JUNE 11

Victoria  
eP 00 07 41



DOMINION OBSERVATORIES

JUNE 11  
Ottawa  
eP 04 47 53 d

JUNE 11  
Resolute  
eP 08 45 46

JUNE 11  
Seven Falls  
eP 16 04 58

JUNE 11  
Resolute  
eP 18 26 15.5 c

JUNE 11  
Southern Greece  
H = 21 09 30  
Ottawa  
eP 21 20 37  
Resolute  
eP 21 19 43 c  
Seven Falls  
eP 21 20 11

JUNE 11  
U. S. C. G. S.  
21 1/2S, 69 1/2W  
Northern Chile  
H = 23 32 47  
Ottawa  
eP 23 43 50  
P<sub>c</sub>P 23 44 10  
Seven Falls  
eP 23 43 59  
P<sub>c</sub>P 23 44 19

JUNE 12  
U. S. C. G. S.  
51 1/2N, 175W  
Fox Islands,  
Aleutian Islands  
H = 00 45 56

Ottawa  
eP 00 55 55  
Resolute  
eP 00 53 13  
e 00 55 28  
e 00 55 37  
eS 00 59 28  
eL 01 01 46

JUNE 12  
Resolute  
eP 06 15 25

JUNE 12  
Resolute  
eP 07 30 09  
e 07 31 46

JUNE 12  
48.7N, 127.2W  
West of Vancouver  
Island  
H = 08 21 03  
Mag 3.1  
Alberni  
S - P = 22.6  
D = 184 km  
Victoria  
eP 08 21 44.1  
eS 08 22 16.6  
D = 280 km

JUNE 12  
Resolute  
eP 13 17 01.5  
e 13 17 43

JUNE 12  
Resolute  
iP 13 21 20 d  
i 13 22 15  
i 13 22 50

JUNE 12  
Resolute  
eP 14 23 19

JUNE 12  
Resolute  
eP 20 46 41

JUNE 12  
U. S. C. G. S.  
Off coast of Peru  
H = 22 25 53  
Resolute  
eP 22 38 32  
eP 22 38 43

JUNE 13  
Resolute  
eP 01 04 37

JUNE 13  
Resolute  
iP 01 12 23 c

JUNE 13  
Resolute  
eP 06 36 10 c

JUNE 13  
U. S. C. G. S.  
36N, 32E  
Near south coast of  
Turkey  
H = 12 02 00  
Ottawa  
eP 12 13 47  
Resolute  
iP 12 12 35 c  
Seven Falls  
eP 12 13 25  
Shawinigan Falls  
eP 12 13 36

SEISMOLOGICAL BULLETIN - 1959

<b>JUNE 13</b>		<b>Halifax</b>		<b>Shawinigan Falls</b>
U. S. C. G. S.		iP	00 22 34 d	iP 00 22 45 d
Kermadec Islands		iP <sub>c</sub> P	00 23 04	S 00 31 32
H = 12 58 07		ipPP	00 25 21	<b>Victoria</b>
Resolute		iS	00 31 06	iP 00 24 23 d, S, E
eP' 13 16 52 c		i	00 31 16	pP 00 24 56
		isS	00 31 51	sP 00 25 18
		i	00 32 17	S 00 34 40
<b>JUNE 13</b>		i	00 33 14	sS 00 35 20
Resolute		i(SS)	00 35 09	e 00 36 29
eP 16 15 01		isSS	00 36 21	L 00 54 24
e 16 36.2		<b>Horseshoe Bay</b>		
		P	00 24 (23) d	
		S	00 34 (43)	<b>JUNE 14</b>
<b>JUNE 13</b>		<b>Lillooet</b>		U. S. C. G. S.
Resolute		iP	00 24 25 d	39 1/2N, 120 1/2W
eP 19 55 06		e	00 24 44	California
		pP	00 24 59	H = 01 26 34
		SP	00 25 20	Resolute
		e	00 25 56	eP 01 33 47.5 c
<b>JUNE 13</b>		<b>Ottawa</b>		
U. S. C. G. S.		iP	00 22 38 d	
46 1/2N, 13E		S	00 31 18	<b>JUNE 14</b>
Austria-Italy border		e	00 33 15	Resolute
H = 21 56 40		SS	00 35 22	eP 04 50 14 (c)
Resolute		e	00 36 16	
eP 22 05.7		<b>Resolute</b>		
		eP	00 25 20	<b>JUNE 14</b>
<b>JUNE 13</b>		iP	00 25 21 d	Resolute
U. S. C. G. S.		sP	00 25 55	eP 07 27 15
Southern Peru		ePP	00 29.3	e 07 27 23
H = 22 16 24		sPP	00 29 54	
Resolute		i	00 33 39	<b>JUNE 14</b>
eP 22 29 27		SKS	00 35 40	Saskatoon
		iS	00 36 28	P 08 11 55
		SP	00 37 49	
		pPS	00 38 40	
<b>JUNE 14</b>		SS	00 42 57	
U. S. C. G. S.		<b>Saskatoon</b>		<b>JUNE 14</b>
20 1/2S, 68W		iP	00 23 59	U. S. C. G. S.
Southwestern Bolivia		S	00 33 57	20S, 173 1/2W
H = 00 11 57		<b>Seven Falls</b>		Tonga Islands
h = 100 km		eP	00 22 48 d	H = 14 56 57
Mag 7 1/4 - 7 1/2		P <sub>c</sub> P	00 23 23	Resolute
Alberni		S	00 31 34	PPS 15 22.1
eP 00 - - d, S, E		i	00 32 27	eL 15 55.4
		i	00 33 23	

DOMINION OBSERVATORIES

JUNE 14  
Resolute  
eP 16 26 13 c  
eP 16 26 26

JUNE 14  
U. S. C. G. S.  
27N, 143 1/2E  
Bonin Islands  
H = 16 47 04  
Resolute  
eP 16 58 27.5

JUNE 14  
Resolute  
eP 18 43 (59)

JUNE 14  
U. S. C. G. S.  
64N, 152W  
Alaska  
H = 20 48 42  
Ottawa  
eP 20 56 56  
Resolute  
eP 20 53 32  
eS 20 57 32  
eL 20 59.4  
Shawinigan Falls  
eP 20 56 58

JUNE 14  
Resolute  
eP 21 07 12

JUNE 14  
Resolute  
eP 21 28 57  
e 21 31 59

JUNE 14  
Resolute  
eP 23 42 26 c  
e 23 50.2  
e 23 52.5  
e 23 55.3

JUNE 15  
U. S. C. G. S.  
25N, 122 1/2E  
Near northeast coast of  
Formosa  
H = 02 38 48  
Resolute  
iP 02 50 46 d  
i 02 51 16  
eS 03 00.4  
eL 03 14.1

JUNE 15  
Resolute  
eP 06 51 43.5  
e 07 02.4  
e 07 05.4  
e 07 08.0

JUNE 15  
Resolute  
eP 07 42 37 d  
e 07 45 06  
e 07 48.3  
e 07 51.3  
e 07 53.5

JUNE 15  
Resolute  
eP 08 55 51  
e 08 56 12  
e 09 02.3

JUNE 15  
Resolute  
eP 10 55 19.5

JUNE 15  
Resolute  
eP 14 39 54

JUNE 15  
Resolute  
eP 15 39 01

JUNE 15  
Resolute  
eP 22 39 41

JUNE 15  
48.9N, 124.1W  
Southern Vancouver  
Island  
H = 23 18 37  
Mag 2.1  
Alberni  
S - P = 7.7  
D = 63 km  
Victoria  
P 23 18 48.3  
S 23 18 56.9  
D = 71 km

JUNE 16  
U. S. C. G. S.  
42 1/2N, 124E  
Bulgaria  
H = 00 32 17  
Resolute  
eP 00 42 00

JUNE 16  
Victoria  
P 07 54 51

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JUNE 16

U. S. C. G. S.  
15N, 93 1/2W  
Off coast of Chiapas,  
Mexico  
H = 08 02 05  
h = 60 km  
Lillooet  
eP 08 04 55  
Ottawa  
IP 08 08 57  
Resolute  
eP 08 12 05 d  
e 08 12 27  
eS 08 20 13  
SS 08 24.5  
eL 08 26.5  
Shawinigan Falls  
eP 08 09 25

JUNE 16

U. S. C. G. S.  
15 1/2N, 99 1/2W  
Off coast of Oaxaca,  
Mexico  
H = 12 45 55  
Resolute  
eP 12 56 00  
e 13 08.8  
e 13 16.0  
e 13 20.0

JUNE 16

Resolute  
IP 14 18 44

JUNE 16

U. S. C. G. S.  
51N, 177W  
Andreanof Islands,  
Aleutian Islands  
H = 14 43 45  
Resolute  
eP 14 51 16.5  
P<sub>c</sub>P 14 53 24 (d)  
eS 14 57 30  
eL 15 05.2

JUNE 16

Resolute  
eP 20 46 54

JUNE 16

48°34'N, 123°48'W  
Southern Vancouver  
Island  
H = 21 48 38  
Mag 1.4  
Alberni  
P 21 48 54.1  
S 21 49 07.5  
D = 109 km  
Victoria  
P 21 48 42.1d,SE  
S 21 48 45.4  
e 21 48 56.7  
D = 27 km

JUNE 17

U. S. C. G. S.  
34 1/2N, 98 1/2W  
Southwestern Oklahoma  
H = 10 27 07  
Ottawa  
eP 10 31 44  
L 10 37 38  
Shawinigan Falls  
eP 10 32 06  
L 10 38 08

JUNE 17

U. S. C. G. S.  
12 1/2S, 167 1/2E  
Santa Cruz Island  
H = 20 46 03  
h = 200 km  
Resolute  
PP 21 04 03

JUNE 17

Resolute  
eP 21 15 35  
e 21 15 55

JUNE 18

U. S. C. G. S.  
55S, 129W  
Pacific Ocean  
H = 06 50 45  
Resolute  
eP' 07 10.0  
(PKS) 07 13 20  
PPPS 07 25.4  
SS 07 29 49  
SSS 07 34.7  
eL 07 44.5

JUNE 18

Resolute  
eP 14 49 55

JUNE 18

U. S. C. G. S.  
54N, 160E  
Near east coast of  
Kamchatka  
H = 15 31 25  
Mag 6 1/4 - 6 1/2  
Alberni  
P 15 39 43  
PP 15 41 38  
S 15 46 24  
sS 15 47.15  
S<sub>c</sub>S 15 51 14  
SS 15 49 53

Halifax

IP 15 43 11 c  
IS 15 52 55  
ISS 15 58 35  
ISSS 16 01 27  
IG 16 03 58

Lillooet

IP 15 39 48 c  
eS 15 49 44

Ottawa

eP 15 42 38  
i 15 43 21  
e 15 43 40  
e 15 48 32  
e 15 50 04  
S 15 51 44

DOMINION OBSERVATORIES

Resolute		JUNE 18		JUNE 19	
eP	15 39 21	Lillooet		U. S. C. G. S.	
PP	15 41 06	eP	18 00 18 d	27 1/2N, 111W	
iS	15 45 46			Gulf of California	
iL	15 49 09			H = 20 34 40	
Saskatoon		JUNE 19		Halifax	
P	15 47 56	U. S. C. G. S.		e	20 45 32
S	15 57 00	6N, 82 1/2W		eS	20 48 55
S <sub>c</sub> S	16 02 52	South of Panama		eSS	20 52.0
Seven Falls		H = 01 37 51		Horseshoe Bay	
eP	15 42 42	Halifax		P	20 39 51
S	15 51 53	e(PPS)	01 52 10	Ottawa	
SS	15 57 29	eSS	01 54.7	eP	20 41 18
SSS	15 59 52	Horseshoe Bay		Resolute	
Shawinigan Falls		P	01 47 28	eP	20 43 18
eP	15 42 39	Ottawa		iP	20 43 25
PP	15 45 22	eP	01 45 27	P <sub>c</sub> P	20 44 49
s	15 51 47	Resolute		eS	20 52 22
Victoria		eP	01 48 59 d	eL	20 54.0
eP	15 39 51	eS	01 58 04	Saskatoon	
pP	15 40 20	S <sub>c</sub> S	01 59.1	P	20 48 10
S	15 46 32	SSS	02 05.5	S	20 49 48
sS	15 47 51	eL	02 05.8	Shawinigan Falls	
		Seven Falls		eP	20 41 44
		eP	01 45 50	Victoria	
JUNE 18		Shawinigan Falls		P	20 39 48
U. S. C. G. S.		eP	01 45 40	P <sub>c</sub> P	20 41 28
54N, 161E		Victoria		S	20 45 10
Near east coast of		P	01 47 25	sPP	20 42 50
Kamchatka					
H = 15 58 38					
Mag 6 1/2 - 6 3/4		JUNE 19		JUNE 20	
Lillooet		Resolute		Resolute	
iP	16 06 56 d	eP	05 43 35	eP	01 05 44
Ottawa					
eP	16 09 48	JUNE 19		JUNE 20	
Resolute		Resolute		Resolute	
iP	16 06 30	eP	14 15 21	eP	04 09 52
Seven Falls					
eP	16 09 53	JUNE 19		JUNE 20	
Shawinigan Falls		Resolute		Resolute	
eP	16 09 50	eP	17 00 57	eP	08 18 32
Victoria				e	08 20 59
eP	16 07 02	JUNE 19		e	08 26.5
		Resolute		e	08 28.1
JUNE 18		eP	17 36 26	e	08 29.4
Resolute		e	17 37 35		
eP	17 59 54				

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JUNE 20  
Resolute  
eP 14 27 35

JUNE 20  
U. S. C. G. S.  
32N, 40W  
Atlantic Ocean  
H = 16 42 25  
Ottawa  
eP 16 48 40  
Resolute  
eP 16 51 23 (c)  
eS 16 58 36  
SS 17 02.0  
Seven Falls  
eP 16 48 17

JUNE 21  
Resolute  
eP 03 08 21

JUNE 21  
U. S. C. G. S.  
3S, 146E  
Bismarck Sea  
H = 03 28 10  
Resolute  
SS 04 00 33  
eL 04 09 32

JUNE 21  
U. S. C. G. S.  
4 1/2S, 151 1/2E  
New Britain  
H = 05 47 27  
Resolute  
eP 06 01 15  
PP 06 05 42

JUNE 21  
Resolute  
eP 08 19 10

JUNE 21  
Resolute  
eP 13 50 15

JUNE 21  
U. S. C. G. S.  
0, 124E  
Northern Celebes  
region  
H = 14 13 23  
Resolute  
eP 14 27 21

JUNE 21  
U. S. C. G. S.  
21S, 67W  
Southern Bolivia  
H = 15 01 45  
h = 200 km  
Lillooet  
eP 15 (13) (03) d  
Ottawa  
eP 15 12 17  
Resolute  
eP 15 14 59 c  
e 15 17 10  
Seven Falls  
eP 15 12 28  
Shawinigan Falls  
eP 15 12 24 c

JUNE 21  
Resolute  
eP 16 16 01 c  
iP 16 16 12  
e 16 34.2  
e 16 38.2

JUNE 21  
Resolute  
eP 22 20.50

JUNE 21  
U. S. C. G. S.  
11 1/2S, 167E  
Santa Cruz Islands  
H = 22 11 51  
Resolute  
eS 22 37.7  
SS 22 45.2  
G 22 54.6  
JUNE 21  
U. S. C. G. S.  
29S, 178W  
Kermadec Islands  
H = 23 25 46  
Resolute  
eP' 23 44 27,5 c

JUNE 21  
U. S. C. G. S.  
Jujuy Province,  
Argentina  
H = 23 30 05  
Ottawa  
eP 23 41 14 c  
Seven Falls  
eP 23 41 23  
Shawinigan Falls  
eP 23 41 18 c

JUNE 22  
U. S. C. G. S.  
4S, 81W  
Near coast of Northern  
Peru  
H = 03 22 51  
Ottawa  
eP 03 31 42 d  
Resolute  
eP 03 34 56 c  
eP 03 34 56.5 d  
Seven Falls  
eP 03 32 01

DOMINION OBSERVATORIES

JUNE 22	JUNE 22	Resolute
Canadian Arctic	U. S. C. G. S.	eP 14 42 16 (c)
H = 05 00 47.0	54 1/2N, 159E	iP 14 42 16.5 d
Mag 2.8	Kamchatka	PP 14 43 38
Resolute	H = 13 04 53	P P 14 44 35
(P) 05 01 55.5	Ottawa	e <sup>c</sup> S 14 48 04
S <sub>1</sub> 05 02 07	eP 13 16 09	e 14 49 18
D = 500 km (?)	Resolute	eL 14 52.4
	eP 13 12 48 (d)	e 14 54.6
	P P 13 14 40	Saskatoon
	e <sup>c</sup> S 13 19 18	e 14 43 00
	eL 13 22.4	Seven Falls
JUNE 22	Shawinigan Falls	eP 14 42 00 c
Canadian Arctic	eP 13 16 07	Shawinigan Falls
H = 05 17 57.6	Victoria	iP 14 41 48 c
Mag 1.3	eP 13 13 25 d	Victoria
Resolute		P 14 37 29.9 d
P <sub>1</sub> 05 18 16		e 14 40 23
S <sub>1</sub> 05 18 30		S 14 44 51
D = 115 km		
	JUNE 23	
	Resolute	
	e 03 39.8	
JUNE 22	iP 03 40 13 (c)	JUNE 23
Canadian Arctic		U. S. C. G. S.
H = 06 55 51.4		39 1/2N, 119W
Mag 2.8		Nevada aftershock
Resolute	JUNE 23	H = 15 03 48
P <sub>1</sub> 06 56 10.5	U. S. C. G. S.	Mag 4 1/2
S <sub>1</sub> 06 56 25	41 1/2N, 82E	
D = 119 km	Sinkiang Province, China	P 15 07 19
	H = 10 44 55	Ottawa
	Resolute	eP 15 11 07
	eP 10 55 30 (c)	Resolute
		eP 15 11 47
JUNE 22	JUNE 23	eP 15 11 49
U. S. C. G. S.	U. S. C. G. S.	iP 15 11 54
6S, 152 1/2E	39N, 119W	e(G) 15 23 59
New Britain region	Western Nevada	Shawinigan Falls
H = 09 16 34	H = 14 35 02	eP 15 11 26
h = 100 km	Mag 6 1/4	Victoria
Ottawa	Alberni	P 15 07 07
eP' 09 35 25	P 14 37 45 d	
Resolute	S 14 40 45	
eP 09 30 23		
	Halifax	JUNE 23
JUNE 22	iP 14 42 46 c	Resolute
Canadian Arctic	eS 14 48 58	eP 17 27 47.5 c
H = 10 08 58.1	eSS 14 51 58	
Mag 2.7	eG 14 54.5	
Resolute	Ottawa	
(P) 10 10 00.5	eP 14 41 31	
S <sub>1</sub> 10 11 04.0		
D = 450 km (?)		

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JUNE 24

U. S. C. G. S.  
54N, 160E  
Near east coast of  
Kamchatka  
H = 04 24 22  
Ottawa  
eP 04 33 32  
Resolute  
eP 04 32 21

JUNE 24

U. S. C. G. S.  
51N, 158 1/2E  
Off south coast of  
Kamchatka  
H = 04 26 39  
Resolute  
eP 04 35 04 c  
iP 04 35 17  
eS 04 41 45  
e(SS) 04 45 00

JUNE 24

Resolute  
eP 07 26 17 c  
e 07 (35.0)  
e 07 46.3

JUNE 24

Resolute  
eP 14 52 27 (d)

JUNE 24

Resolute  
eP 16 14 (10)  
e 16 (35.5)  
e 16 (36.2)

JUNE 24

Canadian Arctic  
H = 19 11 03.5  
Mag 3.0  
Resolute  
(P) 19 12 03.5  
i 19 13 21.5  
S<sub>1</sub> 19 13 40  
D = 430 km (?)

JUNE 24

Resolute  
eP 23 34 08

JUNE 25

Ottawa  
eP 00 55 09  
Resolute  
iP 00 58 08.5 c  
Shawinigan Falls  
eP 00 55 27

JUNE 25

Resolute  
eP 01 42 28  
e 01 52.3  
e 01 54.1

JUNE 25

U. S. C. G. S.  
Hindu Kush  
H = 03 12 28  
Resolute  
eP 03 23 38  
Shawinigan Falls  
eP 03 25 41

JUNE 25

Resolute  
eP 06 50 28

JUNE 25

U. S. C. G. S.  
62N, 27 1/2W  
South of Iceland  
H = 06 46 55  
Alberni  
L 07 14 26  
Halifax  
eP 06 52 (41)  
e(PP) 06 53 (12)  
eS 06 57 (25)  
e 07 00 (07)  
Lillooet  
eP 06 (53) (-) c  
Ottawa  
eP 06 53 23 d  
Resolute  
eP 06 52 31  
PP 06 53 01  
eS 06 57 04  
e(L) 06 58 28  
Seven Falls  
eP 06 52 52  
Shawinigan Falls  
eP 06 53 03 d

JUNE 25

U. S. C. G. S.  
51 1/2N, 170W  
Fox Islands,  
Aleutian Islands  
H = 09 50 48  
Ottawa  
eP 10 01 00  
Resolute  
eP 09 58 01  
eS 10 04.1  
eL 10 06 20

JUNE 25

Resolute  
eP 11 50 35



DOMINION OBSERVATORIES

JUNE 25	Shawinigan Falls	JUNE 27
U. S. C. G. S.	eP 03 57 16	Resolute
30 1/2N, 131E		eP 03 58 42 c
Ryukyu Islands	JUNE 26	e 04 (32.5)
H = 13 37 10	U. S. C. G. S.	
Resolute	6S, 107W	
iP 13 48 30.5 c	About 1000 miles	JUNE 27
iP 13 48 41	southwest of Galapagos	Resolute
eS 13 57.7	Islands	eP 09 51.9
SS 14 02.3	H = 03 55 32	eP 09 52 01
eL 14 06.1	Ottawa	
	eP 04 05 27	
	Resolute	JUNE 27
JUNE 26	PP 04 07 47	Canadian Arctic
U. S. C. G. S.	e 04 17 55	H = 10 53 27.2
51 1/2N, 179E	e 04 20.5	h = 26 km
Rat Islands,	SSS 04 23 26	Mag 3.4
Aleutian Islands	eL 04 25 11	Resolute
H = 00 05 50	Shawinigan Falls	eP <sub>n</sub> 10 54 30.7
Ottawa	eP 04 05 42	iP <sub>1</sub> 10 54 41.7
eP 00 16 25		iS <sub>n</sub> 10 55 11.0
Resolute	JUNE 26	iS <sub>1</sub> 10 55 29
iP 00 13 30 c	Ottawa	D = 395 km
eP <sub>c</sub> P 00 15 34	iP 05 15 59 c	
e 00 19 06	Resolute	JUNE 27
eS 00 19 22	iP 05 13 01 c	U. S. C. G. S.
e 00 21.4	i 05 14.0	33S, 179W
eSSS 00 23.1	e 05 17 33	South of Kermadec
Seven Falls	e 05 20.1	Islands
eP 00 16 31	Seven Falls	H = 19 04 27
Shawinigan Falls	eP 05 15 59	h = 100 km
eP 00 16 29 d	Shawinigan Falls	Mag 6 3/4
	eP 05 16 00	Halifax
JUNE 26		iP' 19 23 (32) c
Resolute	JUNE 26	i 19 24 (25)
eP 01 13 (54)	U. S. C. G. S.	iSKP 19 26 (40)
eP 01 13 56	31N, 139E	e 19 27 (37)
e 01 22.2	South of Honshu, Japan	e 19 32 (29)
e 01 23.5	H = 08 35 51	e 19 35 (04)
	h = 450 km	e(SS) 19 43 (13)
	Resolute	eP'P' 19 44 (15)
	iP 08 46 17.5 d	Horseshoe Bay
JUNE 26	eP <sub>c</sub> P 08 46 38	P 19 17 (47)
Ottawa	epP 08 47 47	Ottawa
eP 03 57 01		eP' 19 23 16
Resolute		SKS 19 30 00
eP 03 59.2		SKKS 19 31 36
e 04 09 32		S 19 32 42
		SS 19 41 27

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Resolute		JUNE 27		JUNE 28	
epP	19 20 07	Resolute		U. S. C. G. S.	
iP'	19 23 11.5 c	eP	21 44.5	Cayman Islands	
PP	19 24 39	e	21 51.4	H = 08 08 40	
SPP	19 25 30			Resolute	
SKS	19 25 50			eP	08 18 23
SKKS	19 31.0	JUNE 28		e	08 26 16
eS	19 32 28	Resolute		e	08 31.8
iPKKP	19 33 20	eP	00 15 39 c	e	08 32.1
SP	19 34 13			e	08 38.7
SPP	19 35 14				
SS	19 41 05	JUNE 28		JUNE 28	
SSS	19 41.7	Resolute		Resolute	
P'P'	19 44 00	eP	01 07 48	eP	09 02 42 (c)
Seven Falls		e	01 11 06		
eP'	19 23 13	e	01 12 06		
i	19 23 24			JUNE 28	
SKS	19 30 13	JUNE 28		Resolute	
SKKS	19 31 58	Resolute		eP	18 02 49
PPS	19 35 13	eP	01 13 19 (d)		
SS	19 40 43	e	01 16 19	JUNE 28	
SSS	19 44 58			Resolute	
Shawinigan Falls		JUNE 28		e	18 30 46
eP'	19 23 22	U. S. C. G. S.			
PKKP	19 33 03	29 1/2N, 141 1/2E		JUNE 28	
Victoria		Bonin Islands region		U. S. C. G. S.	
iP	19 17 49	H = 02 21 42		Gulf of California	
PP	19 22 33	Resolute		H = 18 25 37	
		eP	02 32 53	Halifax	
JUNE 27				eL	18 47.4
U. S. C. G. S.		JUNE 28		Resolute	
42N, 80E		U. S. C. G. S.		eP	18 34 38
China, U. S. S. R. border		63 1/2N, 20W		eS	18 41 20
H = 19 11 23		Near south coast		eL	18 47.6
Alberni		of Iceland		Victoria	
sS	19 29 00	H = 04 23 28		P	18 30 47 d
Horseshoe Bay		Resolute		G	18 37 56
P	19 24 06	eP	04 29 11		
Resolute		eS	04 33 51		
iP	19 21 59 c				
(eS)	19 30.6	JUNE 28			
Victoria		U. S. C. G. S.			
iP	19 24 16	Near west coast of			
PKS	19 28 10	Greece			
e	19 29 20	H = 06 02 15			
SKKS	19 35 18	Resolute			
		eP	06 12 25 d		

DOMINION OBSERVATORIES

JUNE 28	Resolute	JUNE 30
U. S. C. G. S.	eP 07 30 04	Resolute
9 1/2S, 122 1/2E	SKS 07 40 44	eP 02 18 08
Sawoe Sea	PS 07 43 20	
H = 19 43 22	SS 07 49.0	
Halifax	PSPS 07 49.4	JUNE 30
eP' 20 02 58 c		Canadian Arctic
ePKS 20 06 34		H = 03 27 53.9
eSKKS 20 12 26	JUNE 29	Mag 1.1
ePS 20 16 36	Resolute	Resolute
Ottawa	eP 09 28 48	iP <sub>1</sub> 03 28 00.5
eP' 20 02 48	eP 09 30 57	iS <sub>1</sub> 03 28 04.0
Resolute	iP 09 31 13.5 c	D = 28.7 km
eP 19 58 02 d		
iP' 20 01 59	JUNE 29	JUNE 30
iPP 20 02 25	U. S. C. G. S.	Resolute
SKS 20 08 31	6N, 126 1/2E	eP 06 08 14
SKKS 20 09 28	Near south coast of	
eS 20 10 04	Mindanao, Philippine	
PS 20 12.0	Islands	JUNE 30
PPS 20 13.0	H = 13 19 47	U. S. C. G. S.
SS 20 18 00	h = 150 km	34S, 179W
Seven Falls	Resolute	South of Kermadec
eP' 20 02 49	eP 13 33 01.5 c	Island
PKS 20 06 26	PP 13 36 50	H = 10 23 17
Shawinigan Falls	PPP 13 39.7	Resolute
eP' 20 02 47	Shawinigan Falls	eP 10 42 09.5 c
PKS 20 06 02	iP' 13 38 36 c	eP 10 42 24
Victoria		SKS 10 53.3
P' 20 02 04 d		
S 20 12 17		
	JUNE 29	JUNE 30
	Resolute	Resolute
JUNE 28	eP 21 32 16 (c)	eP 11 39 07 (c)
Resolute	iP 21 32 16.3d	
eP 21 59 50		
	JUNE 29	JUNE 30
JUNE 29	Resolute	U. S. C. G. S.
U. S. C. G. S.	eP 22 13 07.5 c	30N, 131E
7S, 155 1/2E		Ryukyu Islands
Solomon Islands		H = 13 22 45
H = 07 16 07	JUNE 29	Resolute
Mag 6 - 6 1/4	Resolute	eP 13 34 07 (c)
Halifax	eP 22 22 01	eP 13 34 17.5
ePKS 07 38 45		eS 13 43.3
eSKKS 07 44 28		
e(PPS) 07 50 26		

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JUNE 30

U. S. C. G. S.

8 1/2N, 71 1/2W

Northwestern Venezuela

H = 22 42 02

h = 60 km

Resolute

eP 22 53 02

(sS) 23 02.5

Shawinigan Falls

eP 22 49 21

JUNE 30

Resolute

eP 23 29 26 c

DOMINION OBSERVATORIES

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the second quarter of 1959. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

APRIL 8 at 19 18 22 U. T. Magnitude 1.6. Originated 215 km from Resolute, N. W. T.

APRIL 19 at 06 43 29 U. T. Magnitude 5.0. Originated in Yukon Territory, 1930 km from Resolute, N. W. T.

APRIL 19 at 07 29 18 U. T. Magnitude 2.9. Originated 425 km from Resolute, N. W. T.

APRIL 21 at 08 43 48 U. T. Magnitude 2.0. Originated 53 km from Resolute, N. W. T.

APRIL 26 at 07 26 15 U. T. Magnitude 2.9. Originated 460 km from Resolute, N. W. T. at a depth of about 15 km.

MAY 3 at 09 30 14 U. T. Magnitude 2.8. Originated 450 km from Resolute, N. W. T.

MAY 12 at 00 08 22 U. T. Magnitude 1.2. Originated 41 km from Resolute, N. W. T.

MAY 13 at 16 56 43 U. T. Magnitude 3.0. Originated 119 km from Resolute, N. W. T.

MAY 15 at 06 24 19 U. T. Magnitude 2.1. Originated 127 km from Resolute, N. W. T.

MAY 22 at 00 46 20 U. T. Magnitude 1.4. Originated 62 km from Resolute, N. W. T.

MAY 23 at 22 17 55 U. T. Magnitude 1.8. Originated 164 km from Resolute, N. W. T.

MAY 27 at 19 28 39 U. T. Magnitude 2.0. Originated 44.3 km from Resolute, N. W. T.

May 28 at 05 42 55 U. T. Magnitude 2.7. Originated 450 km from Resolute, N. W. T.

MAY 30 at 02 44 07 U. T. Magnitude 1.8. Originated 183 km from Resolute, N. W. T. at a depth of about 18 km.

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JUNE 22 at 05 00 47 U. T. Magnitude 2. 8. Originated 500 km from Resolute, N. W. T.

JUNE 22 at 05 17 58 U. T. Magnitude 1. 3. Originated 115 km from Resolute, N. W. T.

JUNE 22 at 06 55 51 U. T. Magnitude 2. 8. Originated 119 km from Resolute, N. W. T.

JUNE 22 at 10 08 58 U. T. Magnitude 2. 7. Originated 450 km from Resolute, N. W. T.

JUNE 24 at 19 11 04 U. T. Magnitude 3. 0. Originated 430 km from Resolute, N. W. T.

JUNE 27 at 10 53 27 U. T. Magnitude 3. 4. Originated 395 km from Resolute, N. W. T. at a depth of about 26 km.

JUNE 30 at 03 27 54 U. T. Magnitude 1. 1. Originated 28. 7 km from Resolute, N. W. T.

DOMINION OBSERVATORIES

EARTHQUAKES IN EASTERN CANADA  
AND ADJACENT AREAS

The following disturbances were recorded during the second quarter of 1959. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

APRIL 13 at 21 20 19 U. T. Magnitude 3.4. Epicentre at  $41^{\circ}55'N$ ;  $73^{\circ}16'W$ . Near Pine Mountain, Conn. Could be a large blast.

APRIL 16 at 16 36 25 U. T. Magnitude 3.5. Epicentre at  $47^{\circ}07'N$ ;  $70^{\circ}20'W$ . About ten miles southeast of Bonsecours, Que.

MAY 14 at 14 23 40 U. T. Magnitude 2.5. Epicentre at  $47^{\circ}00'N$ ;  $70^{\circ}19'W$ . About nine miles south of Bonsecours, Que.

MAY 21 at 09 38 51.3 U. T. Magnitude 3.9. Epicentre at  $46^{\circ}33'N$ ;  $76^{\circ}27'W$ . About 30 miles northwest of Maniwaki, Que.

MAY 29 at 02 16 49 U. T. Magnitude 3.0. Epicentre at  $46^{\circ}32'N$ ;  $76^{\circ}43'W$ . About 40 miles northwest of Maniwaki, Que.

SEISMOLOGICAL BULLETIN - 1959

EARTHQUAKES IN WESTERN CANADA  
AND ADJACENT AREAS

The following disturbances were recorded during the second quarter of 1959. The times of observed phases are given at their respective chronological position in the text of this bulletin.

APRIL 4 at 02 04 58 U. T. Magnitude 2. 2. Epicentre at 48°40'N;  
123°42'W. Gulf Islands.

APRIL 4 at 13 29 23 U. T. Magnitude 2. 7. Epicentre at 48°58'N;  
121°54'W. East of Sumas.

APRIL 4 at 13 34 11 U. T. Magnitude 2. 0. Epicentre at 48°50'N;  
122°12'W. East of Bellingham.

APRIL 4 at 20 25 38 U. T. Magnitude 2. 2. Epicentre at 48. 7°N;  
123. 6°W. N. W. of Victoria.

APRIL 12 at 03 07 35 U. T. Magnitude 3. 5. Epicentre West of  
Vancouver Island.

APRIL 14 at 21 55 50 U. T. Magnitude 2. 9. Epicentre at 47. 7°N;  
121. 8°W. Southeast of Seattle.

APRIL 18 at 14 16 20 U. T. Magnitude 2. 2. Epicentre at 49°11'N;  
123°53'W. Gabriola Island.

APRIL 20 at 00 27 22 U. T. Magnitude 2. 1. Epicentre at 48°48'N;  
123°10'W. Gulf Islands.

APRIL 20 at 01 55 33 U. T. Magnitude 2. 0. Epicentre at 48°46'N;  
123°21'W. Gulf Islands.

APRIL 22 at 07 14 44 U. T. Magnitude 2. 3. Epicentre at 48°45'N;  
123°15'W. Gulf Islands.

MAY 2 at 20 09 17 U. T. Magnitude 2. 2. Epicentre at 48°57'N;  
122°11'W. Southeast of Sumas.

MAY 2 at 20 35 48 U. T. Magnitude 2. 4. Epicentre at 48°43'N;  
123°23'W. Gulf Islands.

MAY 9 at 00 24 51 U. T. Magnitude 2. 4. Epicentre at 47. 5°N;  
122. 7°W. Southwest of Seattle.

MAY 10 at 01 05 32 U. T. Magnitude 3. Epicentre at 50. 4°N;  
115. 1°W. Rocky Mountain Range, southeast of Banff.



DOMINION OBSERVATORIES

MAY 10 at 02 04 16 U. T. Magnitude 2.7. Epicentre at 48°46'N;  
123°22'W. Gulf Islands.

MAY 11 at 20 53 46 U. T. Magnitude 1.3. Epicentre at 48°36'N;  
123°02'W. Gulf Islands.

MAY 31 at 15 01 08 U. T. Magnitude 4.4. Epicentre at 51.7°N;  
130.2°W. South of Queen Charlotte Islands.

MAY 31 at 16 14 45 U. T. Magnitude 3.6. Southwest of Queen  
Charlotte Islands.

MAY 31 at 16 34 46 U. T. Southwest of Queen Charlotte Islands.

JUNE 2 at 08 34 55 U. T. Magnitude 2.2. Epicentre at 48.7°N;  
122.0°W. Northwest of Washington.

JUNE 5 at 22 37 34 U. T. Magnitude 1.3. Epicentre southeast of  
Victoria.

JUNE 6 at 00 31 33 U. T. Magnitude 2.3.

JUNE 12 at 08 21 03 U. T. Magnitude 3.1. Epicentre at 48.7°N;  
127.2°W. West of Vancouver Island.

JUNE 15 at 23 18 37 U. T. Magnitude 2.1. Epicentre at 48.9°N;  
124.1°W. Southern Vancouver Island.

JUNE 16 at 21 48 38 U. T. Magnitude 1.4. Epicentre at 48°34'N;  
123°48'W. Southern Vancouver Island.

I.G.Y. MICROSEISMIC BULLETIN

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NOTES

Three stations only have been read,

An inland station - Ottawa,  
An Arctic station - Resolute, and  
A Pacific station - Victoria.

The following instruments are used:

Ottawa - Benioff Z  $T_s = 1$  sec.  $T_g = 75$  sec.  
Resolute - Columbia Z  $T_s = 10.2$  sec.  $T_g = 20$  sec.  
Victoria - Benioff Z  $T_s = 1$  sec.  $T_g = 75$  sec.

DOMINION OBSERVATORIES

DATE	H O U R	OTTAWA		RESOLUTE			VICTORIA			
April 1	0	3	0.8	3.4	1	0.55	6.4	3	0.9	5.2
	6	3	0.8	4.1	1	0.8	6.4	3	0.9	5.2
	12	3	1.0	3.5	2	1.3	7.5	2	1.4	5.3
	18	1	2.6	4.5	2	2.4	8.2	2	3.5	7.5
2	0	1	2.6	4.5	2	2.6	7.8	2	3.0	7.5
	6	1	1.8	4.0	2	1.4	7.7	2	2.2	7.2
	12	3	1.2	4.0	2	1.2	7.3	2	2.2	7.0
3	18	3	0.9	3.9	3	0.7	7.0	3	1.4	6.0
	0	3	1.1	3.9	3	0.7	7.0	3	1.0	5.1
	6	3	1.2	4.0	3	0.7	7.4	3	1.0	5.0
4	12	3	1.5	3.7	3	0.6	7.0	3	0.9	5.0
	18	3	1.7	4.0	1	0.6	7.0	3	1.2	6.2
	0	3	1.5	3.5	2	1.4	7.7	3	1.7	6.5
5	6	3	1.0	3.5	2	1.2	7.7	3	1.5	6.8
	12	3	1.0	3.5	2	0.9	7.5	3	1.6	6.5
	18	3	1.3	4.5	1	0.7	7.3	3	1.4	6.5
6	0	3	1.3	4.5	1	0.7	6.9	3	0.9	5.5
	6	3	1.3	4.5	...			3	0.8	4.5
	12	3	1.3	4.5	2	1.1	7.0	3	2.1	6.5
	18	3	1.2	4.3	2	1.7	7.3	3	2.6	7.0
7	0	3	1.2	4.2	...			3	2.8	6.5
	6	3	1.1	4.0	1	0.9	7.0	3	2.4	6.5
	12	3	1.0	4.0	1	0.8	6.3	3	1.5	5.5
	18	3	1.0	4.0	1	0.6	6.5	3	1.4	5.5
8	0	1	1.1	4.1	1	0.6	6.3	3	1.1	5.5
	6	1	1.2	4.0	1	0.5	6.1	3	0.8	5.0
	12	1	1.2	4.0	1	0.5	6.0	3	0.6	5.0
April 9	18	1	1.2	4.0	1	0.5	6.1	3	1.0	6.5
	0	1	1.0	4.0	1	0.6	6.4	3	1.1	6.5
	6	3	0.9	4.0	1	0.6	6.7	3	1.3	7.0
	12	3	0.8	4.0	...			3	1.1	7.0
9	18	3	0.8	4.0	1	1.0	6.3	2	0.8	5.5
	0	3	0.8	4.0	1	0.9	6.5	3	0.6	5.0
	6	1	1.4	5.0	1	0.9	6.0	3	0.4	5.0
	12	1	1.4	5.0	2	1.1	6.5	3	0.6	5.0
	18	1	1.6	4.8	...			3	0.5	4.5

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DATE	H O U R	OTTAWA			RESOLUTE			VICTORIA		
10	0	1	1.7	4.8	1	0.6	6.2	3	0.5	5.0
	6	1	1.4	5.0	1	0.5	6.0	3	0.4	4.8
	12	1	1.4	5.0	1	0.4	5.6	3	0.4	4.5
11	18	1	1.8	5.5	...			3	0.4	4.5
	0	1	1.8	5.5	1	0.3	5.6	3	0.4	3.5
	6	1	1.8	5.5	1	0.4	5.6	2	0.6	3.8
12	12	3	0.9	5.0	1	0.4	5.7	2	0.5	4.0
	18	3	0.9	5.0	1	0.1	5.5	3	0.3	4.0
	0	3	0.5	3.5	1	0.1	5.6	3	0.4	4.5
13	6	3	0.5	3.5	1	0.1	5.6	3	0.3	4.0
	12	3	0.4	3.0	...			3	0.3	3.5
	18	...			...			3	0.2	3.5
14	0	3	0.5	3.5	1	0.2	5.4	3	0.3	3.5
	6	1	1.0	4.5	1	0.3	5.3	3	0.3	3.5
	12	1	1.3	4.4	1	0.3(5)	5.4	3	0.3	3.5
15	18	1	1.3	4.5	1	0.5	5.6	3	0.3	4.0
	0	1	1.3	4.5	1	0.7	6.0	3	0.4	4.0
	6	1	1.3	4.5	1	0.5	5.7	3	0.3	4.0
16	12	1	1.0	4.5	1	0.4(5)	6.1	3	0.3	4.0
	18	3	0.6	4.0	1	0.4	5.8	3	0.3	4.0
	0	3	0.6	4.0	1	0.4	6.1	3	0.4	4.0
17	6	3	1.3	5.0	1	0.5	6.0	3	0.5	4.5
	12	3	1.7	5.8	1	0.6	6.3	2	0.6	4.5
	18	3	2.1	6.0	...			3	0.5	4.5
18	0	3	2.1	6.0	1	1.0	6.7	2	0.7	5.0
	6	1	3.3	6.8	1	1.0(5)	7.2	3	0.6	5.5
	12	1	9.2	7.9	2	1.4	7.4	3	0.8	7.5
19	18	1	5.8	7.5	2	0.7	7.2	2	1.1	7.0
	0	1	6.2	7.2	1	0.8	7.0	2	1.1	6.5
	6	1	5.1	7.2	1	0.6	7.6	3	0.7	6.0
20	12	1	3.3	6.0	1	0.7	7.2	2	1.0	6.0
	18	1	3.6	7.0	...			3	0.6	5.5
	0	1	3.6	7.0	...			3	0.7	5.5
21	6	1	4.8	7.0	...			3	0.6	5.5
	12	1	3.0	7.1	...			3	0.6	5.5
	18	3	3.2	7.0	1	0.6	6.6	3	0.4	4.5

DOMINION OBSERVATORIES

DATE	H O U R	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
		April 19	0	3	2.2	7.0	1	0.7	6.4	3
	6	3	2.0	7.0	1	0.6	6.3	3	0.4	4.5
	12	3	1.4	7.0	1	0.4	6.7	3	0.4	4.5
	18	3	1.2	6.0	...			3	0.4	5.0
20	0	3	0.9	6.0	1	0.3	6.0	3	0.3	5.0
	6	3	0.9	6.0	...			3	0.4	5.0
	12	3	0.9	6.0	3	0.2	5.8	3	0.4	5.0
	18	3	0.6	3.0	3	0.1	6.7	3	0.4	5.0
21	0	1	1.1	3.6	3	0.1	7.0	3	0.4	5.0
	6	1	2.2	3.8	3	0.3	5.0	3	0.5	5.0
	12	1	1.5	3.8	3	0.3	5.7	3	0.5	5.0
	18	1	1.3	3.8	1	0.3	6.0	...		
22	0	3	0.9	3.6	1	0.4	6.0	...		
	6	3	0.8	3.8	1	0.3	5.5	...		
	12	3	0.8	4.0	1	0.1	5.6	...		
	18	3	1.2	5.0	1	0.2	5.6	3	0.4	4.5
23	0	3	0.7	4.2	1	0.2	5.5	3	0.4	4.5
	6	3	0.7	4.2	1	0.2	6.0	3	0.4	4.5
	12	3	0.8	4.2	1	0.2	5.3	3	0.4	4.5
	18	3	0.8	4.0	1	0.5	6.0	3	0.3	4.5
24	0	3	0.8	4.0	1	0.4	6.0	3	0.4	4.5
	6	3	0.8	4.0	1	0.4	6.0	3	0.2	4.5
	12	3	0.9	5.0	1	0.3	6.0	3	0.3	4.5
	18	3	1.0	5.0	1	0.4	6.1	3	0.4	4.0
25	0	3	0.8	4.0	1	0.6	6.3	3	0.4	5.0
	6	3	0.8	4.0	1	0.7	6.0	3	0.3	5.0
	12	3	0.9	5.0	1	0.5	6.1	3	0.3	5.0
	18	3	0.9	5.0	1	0.5	5.9	3	0.4	5.0
26	0	3	0.9	5.0	1	0.6	6.5	3	0.3	5.0
	6	3	0.9	5.0	...			3	0.3	5.0
	12	3	0.9	5.0	1	0.3	5.8	3	0.3	5.0
	18	3	0.9	5.0	...			...		
27	0	3	0.9	5.0	...			3	0.4	5.0
	6	3	0.7	5.0	1	0.2	5.8	3	0.4	5.5
	12	3	0.5	4.0	...			3	0.4	5.0
	18	1	0.6	3.0	1	0.1	5.8	2	0.6	4.0
28	0	1	0.7	3.2	1	0.1	5.7	2	0.6	4.0
	6	1	2.6	3.8	1	0.1	5.2	2	0.6	4.5
	12	...			...			...		
	18	1	2.1	4.0	...			3	0.5	5.0
29	0	1	1.7	4.0	1	0.2	5.0	2	0.7	5.0
	6	1	1.5	4.2	1	0.1(5)	5.2	2	0.9	5.0
	12	1	1.3	4.3	1	0.2	5.6	2	1.0	5.0
	18	3	1.2	4.0	1	0.2	5.0	2	0.9	4.5

SEISMOLOGICAL BULLETIN - 1959

DATE	H O U R	OTTAWA			RESOLUTE			VICTORIA				
		K	A	T	K	A	T	K	A	T		
April	30	0	3	1.2	4.0	1	0.3	5.6	2	1.0	4.5	
		6	1	1.2	4.0	1	0.2	5.7	2	0.9	4.5	
		12	1	1.2	4.0	1	0.2	5.0	2	0.9	4.5	
		18	1	1.2	4.0	1	0.2	5.3	2	0.9	4.5	
	May	1	0	1	1.2	4.0	1	0.3	6.2	2	2.2	5.5
			6	3	1.2	4.0	1	0.5	6.0	2	2.0	5.5
		12	3	0.8	3.8	1	0.3	5.8	2	1.5	5.5	
		18	3	0.8	3.8	1	0.1	5.8	2	0.8	4.0	
	2		0	3	0.7	3.8	1	0.1	5.9	2	0.8	4.0
			6	3	0.7	4.0	1	0.1	5.9	2	0.7	4.0
		12	3	0.7	4.0	1	0.15	5.2	2	0.6	4.0	
		18	3	0.5	4.0	1	0.2	5.0	3	0.4	4.0	
	3		0	3	0.5	4.0	1	0.2	4.9	3	0.3	4.0
			6	3	0.5	4.0	...			3	0.3	4.0
		12	3	0.4	3.8	1	0.1	5.3	3	0.3	4.0	
		18	3	0.4	3.8	1	0.2	4.9	3	0.3	4.0	
	4		0	3	0.4	3.8	1	0.2	5.0	3	0.3	4.0
			6	3	0.4	3.8	1	0.1	5.5	3	0.3	4.0
		12	3	0.5	4.0	...			...			
		18	3	0.5	4.0	1	0.15	5.2	3	0.3	4.0	
	5		0	3	0.5	4.0	1	0.1	5.6	3	0.3	4.0
			6	3	0.5	4.0	1	0.15	5.3	3	0.4	4.0
		12	3	0.5	4.0	1	0.1	5.9	3	0.3	4.0	
		18	3	0.5	4.0	1	0.2	4.9	3	0.3	4.0	
	6		0	3	0.5	4.0	1	0.1	5.9	3	0.3	4.5
			6	3	0.5	4.0	1	0.1	5.5	3	0.3	4.5
		12	3	0.5	4.0	1	0.1	6.7	3	0.3	4.5	
		18	3	0.5	4.0	1	0.2	6.0	3	0.3	4.5	
	7		0	3	0.5	4.0	1	0.3	6.0	3	0.3	4.5
			6	3	0.5	4.0	1	0.3	5.9	3	0.4	5.0
		12	3	0.5	4.0	...			3	0.4	5.0	
		18	3	0.5	4.0	1	0.3	5.8	3	0.6	5.5	
	8		0	3	0.5	4.0	1	0.3	5.9	3	0.6	5.5
			6	3	0.5	4.0	1	0.3	6.8	3	0.5	5.0
		12	3	0.5	4.0	...			...			
		18	3	0.3	4.0	1	0.2	6.5	...			
	9		0	3	0.5	4.0	1	0.2	6.2	...		
			6	3	0.5	4.0	1	0.2	6.2	...		
		12	3	0.5	4.0	1	0.2	6.9	...			
		18	3	0.6	4.0	...			3	0.5	4.0	
	10		0	3	0.6	4.0	1	0.4	6.6	2	0.7	4.0
			6	3	0.8	4.0	1	0.5	6.4	2	0.6	4.5
		12	3	1.0	4.0	1	0.4	6.7	3	0.5	4.5	
	18	3	1.3	5.0	1	0.5	7.2	3	0.6	4.5		

DOMINION OBSERVATORIES

DATE	H O U R	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
		May 11	0		1.3	5.0	1	0.5	6.0	3
	6		1.4	5.0	1	0.4	6.1	2	0.8	5.0
	12		1.4	5.0	1	0.3	6.0	2	0.8	5.0
	18		1.0	5.0	1	0.3	5.7	2	0.8	5.0
12	0		0.9	5.0	1	0.25	6.4	3	0.6	5.0
	6	...			...			...		
	12	3	0.5	3.6	...			...		
	18	3	0.5	3.6	1	0.1	6.2	3	0.4	5.0
13	0	4	0.4	3.6	...			...		
	6	3	0.4	3.5	1	0.2	6.1	3	0.3	4.5
	12	3	0.4	3.5	1	0.2	6.0	3	0.3	4.5
	18	3	0.3	3.5	...			3	0.3	4.5
14	0	3	0.4	3.0	1	0.1	5.9	3	0.4	4.5
	6	3	0.5	3.3	1	0.1	5.8	3	0.4	4.5
	12	3	0.4	3.3	...			3	0.4	4.5
	18	3	0.4	3.3	1	0.1	6.3	3	0.4	4.5
15	0	3	0.8	4.0	1	0.2	6.1	3	0.3	5.0
	6	3	0.8	4.0	1	0.2	6.0	3	0.7	5.5
	12	3	0.8	4.0	1	0.25	6.2	3	0.6	5.5
	18	3	0.8	4.0	1	0.3	6.0	2	0.8	5.0
16	0	3	0.8	4.0	1	0.3	6.0	3	0.7	5.0
	6	3	0.8	4.0	1	0.1	6.2	3	0.4	4.5
	12	3	0.8	4.0	1	0.2	6.2	3	0.4	4.5
	18	3	0.7	4.0	1	0.1	6.3	3	0.4	4.5
17	0	3	0.7	4.0	1	0.1	5.7	2	0.6	4.5
	6	3	0.8	4.9	1	0.2	5.5	3	0.4	4.5
	12	3	0.9	5.0	1	0.3	5.8	3	0.5	4.5
	18	3	1.3	5.0	1	0.4	5.8	3	0.5	4.5
18	0	3	1.3	5.0	1	0.5	5.6	2	0.7	5.0
	6	1	1.6	5.0	1	0.7	5.9	2	0.8	5.0
	12	1	1.4	5.0	1	0.6	5.8	2	0.7	5.0
	18	1	1.2	5.0	1	0.3	5.8	2	0.8	5.5
19	0	3	0.7	5.0	1	0.1	6.0	2	0.8	5.5
	6	3	0.7	5.0	1	0.3	5.8	3	0.7	5.5
	12	3	0.7	5.0	1	0.1	5.6	3	0.5	4.5
	18	3	0.7	5.0	1	0.2	5.6	3	0.4	4.5
20	0	3	0.4	5.0	1	0.1	5.6	3	0.4	4.5
	6	3	0.2	2.6	1	0.2	5.4	3	0.4	4.5
	12	3	0.2	2.6	...			3	0.4	4.5
	18	3	0.3	2.8	1	0.1	6.2	3	0.4	4.0
21	0	3	0.3	2.8	1	0.15	5.2	3	0.3	4.0
	6	3	0.4	3.0	1	0.15	5.3	3	0.3	4.0
	12	3	0.4	3.0	...			3	0.3	4.0
	18	3	0.6	4.0	1	0.2	4.8	...		

SEISMOLOGICAL BULLETIN - 1959

DATE		H O U R	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
May	22	0	3	0.6	4.0	1	0.2	5.0	...		
		6	3	0.6	4.0	1	0.1	5.4	...		
		12	3	0.6	4.0	1	0.1	5.4	...		
		18	...			1	0.15	5.2	3	0.4	4.0
	23	0	...			1	0.1	5.5	3	0.4	4.0
		6	3	0.6	4.0	1	0.1	5.3	3	0.4	4.0
		12	...			1	0.3	4.8	3	0.4	4.0
		18	1	0.7	4.0	1	0.3	4.4	3	0.3	4.0
	24	0	1	1.0	4.0	1	0.3	4.8	3	0.4	4.0
		6	1	1.0	4.0	1	0.3	5.2	3	0.4	3.8
		12	1	1.2	4.0	1	0.3	5.1	2	0.6	3.9
		18	1	1.2	4.0	1	0.3	5.2	2	0.6	3.9
	25	0	3	1.2	4.0	1	0.4	5.5	2	0.6	4.0
		6	3	1.2	4.0	1	0.3	5.8	2	0.6	4.0
		12	3	1.2	4.0	1	0.3	5.9	2	0.6	4.0
		18	1	0.8	4.0	1	0.3	5.9	3	0.5	3.5
	26	0	1	0.7	4.0	1	0.3	5.8	0.0	-	-
		6	1	0.6	4.0	...			0.0	-	-
		12	3	0.5	4.0	1	0.2	5.6	0.0	-	-
		18	3	0.3	4.0	1	0.1	5.7	0.0	-	-
	27	0	3	0.3	3.7	1	0.1	5.4	0.0	-	-
		6	3	0.4	3.7	1	0.1	5.6	0.0	-	-
		12	3	0.4	3.7	1	0.1	5.3	0.0	-	-
		18	3	0.4	3.5	1	0.1	5.5	0.0	-	-
	28	0	3	0.3	3.5	1	0.1	5.9	0.0	-	-
		6	3	0.3	3.5	1	0.15	5.2	0.0	-	-
		12	3	0.3	3.5	1	0.15	5.1	0.0	-	-
		18	3	0.4	4.0	1	0.15	5.2	0.0	-	-
	29	0	1	0.9	4.6	1	0.45	5.2	0.0	-	-
		6	1	1.0	4.8	1	0.5	5.8	0.0	-	-
		12	...			...			0.0	-	-
		18	3	0.9	6.0	1	0.4	5.8	0.0	-	-
	30	0	3	1.2	6.0	1	0.3	5.9	0.0	-	-
		6	3	1.2	6.0	1	0.3	5.9	0.0	-	-
		12	3	1.2	6.0	1	0.1	5.8	0.0	-	-
		18	3	1.1	6.0	1	0.2	4.8	0.0	-	-
May	31	0	3	0.5	6.0	1	0.1	5.7	0.0	-	-
		6	3	0.2	3.5	...			0.0	-	-
		12	3	0.2	3.5	...			0.0	-	-
		18	3	0.2	3.4	...			0.0	-	-
June	1	0	3	0.3	3.0	1	0.2	4.8	0.0	-	-
		6	3	0.3	3.0	1	0.15	5.3	0.0	-	-
		12	3	0.2	3.0	1	0.1	5.7	0.0	-	-
		18	3	0.2	3.0	...			...	-	-



DOMINION OBSERVATORIES

DATE		H O U R	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
			June								
	2	0	3	0.2	3.0	1	0.2	4.6	0.0	-	-
		6	3	0.2	3.0	...			0.0	-	-
		12	3	0.2	4.0	1	0.1	5.8	0.0	-	-
		18	3	0.3	4.0	1	0.2	4.9	0.0	-	-
	3	0	3	0.3	3.4	1	0.1	5.6	0.0	-	-
		6	3	0.3	3.4	...			3	0.2	2.3
		12	3	0.3	3.5	1	0.2	5.3	0.0	-	-
		18	1	0.8	3.4	1	0.4	6.1	0.0	-	-
	4	0	1	0.6	3.5	1	0.4	6.0	3	0.2	2.5
		6	1	0.6	3.5	1	0.3	5.8	0.0	-	-
		12	1	0.6	3.5	1	0.3	5.8	3	0.2	2.2
		18	1	0.5	4.0	1	0.3	5.5	3	0.2	2.2
	5	0	1	0.5	4.0	1	0.2	5.2	3	0.2	2.1
		6	1	0.6	4.0	1	0.3	5.8	3	0.2	1.9
		12	1	0.5	4.0	1	0.3	5.6	3	0.2	2.1
		18	1	0.5	4.0	1	0.1	5.4	3	0.3	2.5
	6	0	1	0.5	4.0	1	0.2	5.8	3	0.3	2.5
		6	1	0.5	3.7	1	0.3	5.8	3	0.3	2.4
		12	1	0.5	3.7	...			3	0.3	2.6
		18	1	0.6	4.0	1	0.1	5.9	3	0.3	2.6
	7	0	1	0.6	4.0	1	0.3	5.9	3	0.2	2.6
		6	1	0.6	4.0	...			0.0	-	-
		12	1	0.6	4.0	1	0.2	5.7	0.0	-	-
		18	1	0.5	4.0	1	0.3	5.4	0.0	-	-
	8	0	1	0.5	4.0	1	0.2	5.8	0.0	-	-
		6	1	0.5	4.0	1	0.2	5.6	3	0.2	1.7
		12	1	0.5	4.0	1	0.1	5.9	3	0.2	1.7
		18	...			1	0.3	6.1	3	0.2	2.3
	9	0	3	0.5	4.0	1	0.5	6.5	...		
		6	3	0.5	4.5	1	0.5	6.2	2	0.4	2.8
		12	3	0.6	4.5	1	0.4	6.1	3	0.4	3.0
		18	3	0.6	4.0	1	0.3	5.9	3	0.2	2.5
	10	0	3	0.5	4.0	...			3	0.6	2.5
		6	3	0.5	4.0	1	0.2	6.0	3	0.5	2.6
		12	3	0.5	4.0	1	0.1	6.3	0.0	-	-
		18	3	0.3	3.5	1	0.1	5.8	3	0.5	2.5
	11	0	3	0.3	3.5	1	0.1	5.9	0.0	-	-
		6	3	0.5	3.5	1	0.1	6.7	0.0	-	-
		12	3	0.5	3.5	1	0.1	5.5	3	0.6	2.0
		18	1	0.8	4.0	1	0.3	4.3	0.0		
	12	0	1	0.8	4.0	1	0.2	5.4	0.0		
		6	1	0.8	4.0	1	0.3	5.4	0.0		
		12	1	0.8	4.0	1	0.3	5.5	0.0		
		18	1	0.8	4.0	1	0.2	5.4	0.0		

SEISMOLOGICAL BULLETIN - 1959

DATE	H O U R	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
		June 13	0	1	0.7	4.0	1	0.1	5.8	0.0
	6	1	0.7	4.0	1	0.1	5.3	0.0		
	12	1	0.7	4.0	1	0.1	6.0	0.0		
	18	1	0.7	4.0	1	0.1	5.6	0.0		
14	0	1	0.8	4.0	1	0.1	5.6	0.0		
	6	1	0.8	4.0	1	0.3	5.5	0.0		
	12	1	1.3	3.4	1	0.5	5.9	0.0		
	18	1	1.5	3.4	1	0.5	5.8	0.0		
15	0	1	1.5	3.4	...			0.0		
	6	1	2.6	4.3	1	0.35	5.3	0.0		
	12	1	2.2	3.8	3	0.3	5.9	0.0		
	18	1	2.3	4.0	1	0.3	5.5	0.0		
16	0	1	2.2	3.9	1	0.3	5.9	0.0		
	6	1	1.7	4.0	1	0.2	5.5	0.0		
	12	1	1.3	4.0	1	0.3	5.2	0.0		
	18	1	1.3	4.0	1	0.1	5.3	0.0		
17	0	1	1.3	4.0	1	0.1	5.6	0.0		
	6	1	1.3	4.0	1	0.15	5.1	0.0		
	12	1	1.5	3.6	1	0.2	5.0	0.0		
	18	1	2.0	3.5	1	0.2	4.9	0.0		
18	0	1	2.3	4.0	1	0.2	4.5	0.0		
	6	1	2.3	4.0	1	0.15	5.1	0.0		
	12	1	2.3	4.0	1	0.15	5.3	0.0		
	18	...			...			...		
19	0	...			1	0.2	4.9	0.0		
	6	...			3	0.1	5.8	0.0		
	12	...			1	0.15	5.2	0.0		
	18	1	1.7	4.0	1	0.1	5.4	0.0		
20	0	1	1.7	4.0	1	0.3	4.6	0.0		
	6	1	1.5	3.9	1	0.3	4.7	0.0		
	12	1	1.5	3.9	1	0.1	5.6	0.0		
	18	1	1.7	3.9	1	0.2	5.7	0.0		
21	0	1	1.5	3.9	1	0.1	5.5	0.0		
	6	1	1.5	3.9	1	0.1	5.8	0.0		
	12	1	1.7	5.0	1	0.1	5.6	0.0		
	18	1	2.2	5.0	...			0.0		
22	0	1	2.2	5.0	1	0.3	5.2	0.0		
	6	1	1.7	5.0	1	0.1	5.5	0.0		
	12	1	1.7	5.0	1	0.2	5.1	0.0		
	18	1	1.4	4.8	1	0.1	5.5	0.0		
23	0	1	1.4	4.8	1	0.2	4.9	0.0		
	6	1	1.3	4.6	1	0.2	4.8	0.0		
	12	1	1.3	4.5	1	0.2	4.9	0.0		
	18	1	1.2	4.0	1	0.2	4.9	0.0		

DOMINION OBSERVATORIES

DATE	H O U R	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
		June 24	0	1	0.8	4.0	1	0.15	5.1	0.0
	6	1	0.6	4.0	1	0.1	5.6	0.0		
	12	1	0.6	4.0	1	0.1	6.0	0.0		
	18	1	0.6	4.0	1	0.1	6.0	0.0		
25	0	1	0.6	4.0	1	0.1	5.8	0.0		
	6	1	0.7	4.0	1	0.15	5.3	0.0		
	12	1	0.9	4.0	1	0.1	5.4	0.0		
	18	1	0.6	4.0	...			0.0		
26	0	1	0.6	4.0	...			0.0		
	6	1	0.6	4.0	...			0.0		
	12	1	0.6	4.0	...			0.0		
	18	1	0.6	4.0	...			0.0		
27	0	1	0.6	4.0	1	0.1	5.6	0.0		
	6	1	0.6	4.0	1	0.1	6.2	0.0		
	12	1	0.6	4.0	1	0.1	6.1	0.0		
	18	...			1	0.1	6.4	0.0		
28	0	...			1	0.1	6.0	0.0		
	6	...			1	0.1	6.7	0.0		
	12	...			1	0.1	5.8	0.0		
	18	...			...			0.0		
29	0	...			...			...		
	6	...			...			0.0		
	12	...			...			0.0		
	18	...			...			0.0		
30	0	...			...			0.0		
	6	...			...			0.0		
	12	...			...			0.0		
	18	...			...			0.0		
	24	...			1	0.1	4.2	0.0		