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SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

FEB 13 1961

Seismological Bulletin
July - September
1959

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

SEISMOLOGICAL BULLETIN

July - September - 1959

NOTES

1. I.G.Y. microseismic data may be found starting on page 223.

2. Earthquakes in the Canadian Arctic may be found on page 218.

3. Earthquakes in Eastern Canada may be found on page 219.

4. Earthquakes in Western Canada may be found on pages 220 to 222.

DOMINION OBSERVATORIES

JULY 1
U.S.C.G.S.
28N, 139 1/2E
Bonin Islands region
H = 02 27 46
h = 550 km
Mag 6
Alberni
L 02 46 57
Halifax
eSKS 02 50 (44)
eSP 02 53 (41)
epS 02 54 (29)
Resolute
iP 02 38 16 c
pP 02 40 02
PP 02 41 05
iS 02 46 50
SP 02 47 24
sS 02 50 04
Victoria
e(SKKS) 02 38 30
e(PS) 02 40 18

JULY 1
U.S.C.G.S.
16 1/2S, 69 1/2W
Peru-Bolivia border
H = 10 32 29
h = 200 km
Resolute
eP 10 45 27
SKKS 10 55 44
eS 10 56 22
PS 10 57 10

JULY 2
U.S.C.G.S.
51N, 179E
Rat Islands,
Aleutian Islands
H = 05 03 50
Resolute
e(P) 05 11 32
e 05 28.6
e 05 34.6

JULY 2
U.S.C.G.S.
20S, 178 1/2W
Fiji Islands
H = 11 27 45
h = 650 km
Resolute
eP' 11 45 04

JULY 2
U.S.C.G.S.
20S, 178 1/2W
Fiji Islands
H = 11 34 20
h = 650 km
Resolute
eP' 11 59 39
sSS 12 10.1

JULY 2
Resolute
e(P) 18 45 16.5

JULY 2
Canadian Arctic
H = 19 42 44.7
h = 19 km
Mag 2.8
Resolute
P_n 19 43 23
P_1 19 43 28.2
S_n 19 43 51.8
i 19 43 56
S 19 44 01.5
D = 270 km

JULY 2
Canadian Arctic
H = 19 48 00.2
h = 19 km
Mag 2.8
Resolute
P_n 19 48 38.5
P_1 19 48 43.8
S_n 19 49 07.5
i 19 49 11.5
S_1 19 49 17.1
D = 270 km

JULY 2
Resolute
e(P) 20 06 45
e 20 09 46

JULY 2
Canadian Arctic
H = 23 07 57.2
h = 19 km
Mag 2.5
Resolute
P_n 23 08 35.5
P_1 23 08 41.0
S_n 23 09 04.5
i 23 09 09.5
S_1 23 09 14.2
D = 270 km

JULY 3
U.S.C.G.S.
58 1/2N, 152W
Kodiak Island region
H = 05 21 13
Halifax
eSS 05 41 (43)
Resolute
iP 05 26 51.5 d
eS 05 31 20
e 05 35 25
Seven Falls
eP 05 29 47
Shawinigan Falls
eP 05 29 42 d

JULY 3
U.S.C.G.S.
16S, 173E
New Hebrides
Islands region
H = 17 55 10
Mag 6 1/2
Halifax
epPP 18 16 (54)
e 18 17 (52)
epPPP 18 19 (42)
i 18 24 (58)
isSS 18 33 50
eL 18 50.4
Lillooet
P 18 09 15
e 18 09 59
Resolute
eP 18 09 (24)
pP 18 10 09
PP 18 13 45
eS 18 20 50
SSP 18 23.8
sSS 18 29.6
Seven Falls
eP' 18 14 02
PP 18 16 09
S 18 23 09
PS 18 25 46
SS 18 32 13
Shawinigan Falls
eP' 18 14 06
Victoria
P 18 08 50

JULY 3
U.S.C.G.S.
16S, 173E
New Hebrides
Islands region
H = 17 55 53
Mag 6 1/2
Seven Falls
eP' 18 14 43

JULY 4
U.S.C.G.S.
Near coast of Nicaragua
H = 03 04 05
Lillooet
eP 03 12 50
Resolute
i(P) 03 14 31.5 c
i(P) 03 14 40
e 03 32.3
Seven Falls
eP 03 11 25
Shawinigan Falls
eP 03 11 16

JULY 4
U.S.C.G.S.
24 1/2S, 177W
Tonga Islands region
H = 04 54 14
h = 100 km
Resolute
eS 05 21.0
(PS) 05 23.2

JULY 4
47°54'N, 123°05'W
Olympic Mountains
H = 05 27 22
Mag 3.0
Alberni
P 05 27 55.4
D = 210 km
Lillooet
iP 05 28 09.2
D = 200 km
Victoria
P 05 27 37.4
S 05 27 48.2
L 05 28 49.6
D = 89 km

JULY 4
Resolute
e(P) 07 46 13
e 07 50 28
e 07 52.0

JULY 4
52N, 131W
Queen Charlotte Island
H = 08 21.8
Mag 4.1
Alberni
P 08 23 03.7
S 08 24 13.0
D = 554 km
Victoria
P 08 23 29.9
S 08 25 57.2
D = 770 km

JULY 4
Resolute
e(P) 08 33 30 d

JULY 4
Resolute
e(P) 15 48 19 c

JULY 4
Resolute
e(P) 22 12 37

DOMINION OBSERVATORIES

JULY 5
U.S.C.G.S.
52 1/2N, 159E
Kamchatka
H = 05 33 07
Resolute
eP 05 41 16 c

JULY 5
Resolute
e(P) 05 44 54
e 05 45 10.5

JULY 5
Resolute
e(P) 05 51 01

JULY 5
U.S.C.G.S.
6S, 146 1/2E
Near northeast coast of New Guinea
H = 14 05 42
Resolute
SS 14 38.8

JULY 5
U.S.C.G.S.
8S, 74W
Peru-Brazil border
H = 15 53 37
h = 200 km
Resolute
eP 16 05 (48)

JULY 6
U.S.C.G.S.
Guatemala-Honduras border
H = 08 51 27
Resolute
e(P) 09 01 39

JULY 6
U.S.C.G.S.
26 1/2S, 61W
Chaco Province, Argentina
H = 09 10 17
h = 600 km
Mag 6 3/4
Alberni
P 09 22 36
Halifax
iP 09 20 (44) d
ipP 09 22 (51) c
iS 09 29 09
iSP 09 29 51
esS 09 23 01
Horseshoe Bay
iP 09 22 (21) d
e 09 24 (34)
Ottawa
iP 09 20 52 d
pP 09 22 58
S 09 29 30
sPS 09 33 18
Resolute
eP 09 23 19 c
iP 09 23 19.5 d
pP 09 25 35
PP 09 27 40
(SKS) 09 32 57
S 09 34 13
SP 09 35 46
sS 09 38 20
SS 09 41.5
Seven Falls
iP 09 20 58 d
pP 09 23 07
S 09 29 42
sPS 09 33 34
SS 09 34 41
Shawinigan Falls
iP 09 20 56 d
pP 09 23 04
.PP 09 23 51
S 09 29 38
Victoria
iP 09 22 31
i 09 24 48

JULY 6
U.S.C.G.S.
26 1/2S, 61 1/2W
Chaco Province, Argentina
H = 09 23 21
h = 600 km
Mag 6 3/4 - 7
Halifax
iP 09 33 (53) c
ipP 09 35 (59)
iS 09 41 (58)
iSP 09 42 (36)
isS 09 45 (36)
Horseshoe Bay
eP 09 35 (--)
PP 09 37 (--)
Lillooet
iP 09 37 52
PP 09 40 10
Ottawa
iP 09 34 01 c
pP 09 36 08
S 09 42 39
sPS 09 46 26
Resolute
eP 09 36 29 c
isP 09 39 34
pPP 09 42 42
(SKS) 09 46 09
iS 09 47 21
SP 09 49 00
iPKKP 09 52 20
isSP 09 52 43
(SS) 09 54 44
sSS 09 58 15
G 10 06.0
Seven Falls
iP 09 34 07 c
pP 09 36 14
S 09 42 51
SS 09 47 48
Shawinigan Falls
iP 09 34 05 c
pP 09 36 12
S 09 42 47
Victoria
iP 09 37 41
e 09 38 07
iPP 09 37 52

JULY 6
Lillooet
iP 09 51 03
e 09 53 18

JULY 6
U.S.C.G.S.
Samoa Islands region
H = 15 10 15
Lillooet
eP 15 34 59
Resolute
e 15 33.2
e 15 35.8

JULY 6
U.S.C.G.S.
7N, 73W
Colombia
H = 18 03 33
h = 200 km
Resolute
e(P) 18 14 22 (c)

JULY 6
Resolute
e(P) 21 01 46.8 c
i(P) 21 01 47 d

JULY 7
Resolute
i(P) 02 51 37.5 d

JULY 7
U.S.C.G.S.
21 1/2S, 66 1/2W
Bolivia
H = 05 42 45
h = 150 km
Seven Falls
iP 05 53 40 c
Shawinigan Falls
eP 05 53 37

JULY 7
U.S.C.G.S.
44N, 148E
Kurile Islands
H = 07 26 58
Resolute
e(P) 07 34 28
e 07 35 32

JULY 7
Resolute
e(P) 12 29 59 c

JULY 7
U.S.C.G.S.
21 1/2S, 67W
Bolivia
H = 13 29 59
h = 200 km
Ottawa
eP 13 40 36 d
Seven Falls
iP 13 40 46 c
Shawinigan Falls
eP 13 40 43

JULY 7
U.S.C.G.S.
40N, 143 1/2E
Off east coast of
Honshu, Japan
H = 14 40 55
Resolute
eP 14 50 57 c

JULY 7
Resolute
e(P) 17 09 28 c

JULY 7
Resolute
eP 21 27 31.5

JULY 8
U.S.C.G.S.
71 1/2N, 19W
Near east coast of
Greenland
H = 02 04 00
Resolute
eP 02 08 45 d
eS 02 12 39
Shawinigan Falls
eP 02 10 53

JULY 8
U.S.C.G.S.
44N, 147 1/2E
Kurile Islands
H = 04 00 37
h = 100 km
Ottawa
iP 04 12 53 d
Resolute
iP 04 09 57 c
(P_cP) 04 11 07
sS 04 18.0
Seven Falls
eP 04 12 53
Shawinigan Falls
eP 04 12 51

JULY 8
Resolute
iP 08 33 17 c
e 08 33 42

JULY 8
Resolute
eP 16 47 33

DOMINION OBSERVATORIES

JULY 8
47.9N, 123.6W
Olympic Mountains
H = 17 27 38
Mag 2.2
Alberni
P 17 28 06.4
S 17 28 28.8
D = 178 km
Victoria
P 17 27 49.6
S 17 27 58.4
D = 72 km

JULY 9
U.S.C.G.S.
20S, 72W
Off coast of Peru
H = 02 32 40
Ottawa
eP 02 43 22
Resolute
SKKS 02 57 (03)
eS 02 57 18
Seven Falls
eP 02 43 33
Shawinigan Falls
eP 02 43 29

JULY 9
U.S.C.G.S.
15S, 173 1/2W
Samoa Islands region
H = 09 07 11
Resolute
eS 09 32 45
eSS 09 39.4

JULY 9
U.S.C.G.S.
20 1/2S, 68W
Chile-Bolivia border
H = 16 05 18
h = 100 km
Mag 6 3/4
Alberni
P 16 17 52
Halifax
eP 16 15 51
iP_cP 16 16 00
iS 16 24 23
isS 16 25 13
i 16 26 29
Horseshoe Bay
eP 16 (17) -- d
Lillooet
iP 16 17 10
e 16 17 34
PP 16 19 15
e 16 21 19
Ottawa
eP 16 15 52
P_cP 16 16 24
pP 16 16 39
S 16 24 35
S_cS 16 25 25
PS 16 26 36
Resolute
eP 16 18 40
pP 16 19 10
sP 16 19 20
(PP) 16 22.5
(pPP) 16 22 57
pPPP 16 25.3
SKS 16 29 06
S 16 29 48
pS 16 30 27
sS 16 30 38
(SP) 16 31 06
sSP 16 31 58
SS 16 36.2
Seven Falls
eP 16 16 07
P_cP 16 16 37
S 16 24 55
S_cS 16 25 44
PS 16 26 45
Shawinigan Falls
eP 16 16 05
P_cP 16 16 34
e 16 16 48
e 16 16 57
S 16 24 49
S_cS 16 25 33
Victoria
iP 16 17 43.2 d
i 16 18 13.3 d
L 16 28 04.6

JULY 9
Canadian Arctic
H = 19 55 14.7
Mag 2.4
Resolute
P_1 19 56 04
S_1 19 56 41.5
D = 307 km

JULY 10
U.S.C.G.S.
19S, 69W
Chile-Bolivia border
H = 04 11 40
Ottawa
eP 04 22 18 d
Resolute
eP 04 25 09
e 04 36 02
SS 04 42.5
Seven Falls
eP 04 22 30
Shawinigan Falls
eP 04 22 26

JULY 10
U.S.C.G.S.
41N, 73 1/2E
Kirghiz, S.S.R.
H = 17 40 47
Resolute
eP 17 51 26

JULY 10
U.S.C.G.S.
5 1/2S, 145 1/2E
New Guinea
H = 17 51 46
Resolute
eP 18 05 44

JULY 10
Resolute
e(P) 20 58 27
i 20 58 41
e 21 03 15
e 21 07.1
e 21 08 20

JULY 11
U.S.C.G.S.
Fiji Islands region
H = 03 07 04
Resolute
e 03 46 01
e 03 50.7

JULY 11
U.S.C.G.S.
18 1/2S, 169E
New Hebrides Islands
H = 04 51 30
Ottawa
eP' 05 10 25
Resolute
eP' 05 10 08
e 05 12.0
e 05 15.5
SKS 05 16.6
PS 05 20.0
SS 05 25 30
L 05 36.2

JULY 11
47.7N, 119.5W
North Central Washington
H = 08 01 43
Mag 2.9
Horseshoe Bay
iP 08 02 23.6
iS 08 02 29.0
D = 326 km
Lillooet
eP 08 02 36.0
iP 08 02 42.0
iS 08 03 30
D = 383 km
Victoria
P 08 02 27.8
S 08 03 07.1
D = 315 km

JULY 11
U.S.C.G.S.
37S, 79E
Indian Ocean
H = 12 01 39
Mag 6 1/4 - 6 1/2
Halifax
eP_2' 12 21 38
eSS 12 44 30
eSSS 12 50 24
eL 12 14.6
Lillooet
eP' 12 21 40
e 12 22 20
Ottawa
iP_2' 12 22 19 c
Resolute
eP' 12 21 11
(PP) 12 25 05
SKKKS 12 31 12
SKSP 12 34.3
S' 12 36.1
SS 12 42 51
Shawinigan Falls
eP_2' 12 22 11
Victoria
eP_2' 12 21 45

JULY 11
U.S.C.G.S.
44 1/2N, 148 1/2E
Kurile Islands
H = 18 23 00
Resolute
iP 18 33 26 c
eS 18 40 07
S_cS 18 42 12
Seven Falls
eP 18 35 23
Shawinigan Falls
eP 18 35 24

JULY 11
Resolute
e(P) 19 01 (58)
e 19 02 04
e 19 05 35

JULY 12
U.S.C.G.S.
8 1/2S, 157 1/2E
Solomon Islands
H = 00 13 30
Resolute
eS 00 39 28
SS 00 46.6
G 00 56.2

JULY 12
U.S.C.G.S.
19 1/2S, 177 1/2W
Fiji Islands region
H = 00 24 22
h = 400 km
Mag 6 1/4
Horseshoe Bay
iP 00 36 02
Ottawa
eP' 00 42 15
Resolute
eP' 00 42 04
SKS 00 48 02
Seven Falls
eP' 00 42 18

JULY 12
Resolute
eP 12 54 21 d

JULY 12
Resolute
eP 17 02 50 c

JULY 13
U.S.C.G.S.
71 1/2N, 7 1/2W
Jan Mayen Island
H = 01 39 12
Resolute
eP 01 44 29
eS 01 48.8
e 01 52.9

JULY 13
U.S.C.G.S.
52N, 172 1/2W
Andreanof Islands
Aleutian Islands
H = 12 28 45
Mag 6 1/2
Alberni
iP 12 34 56 c
i 12 39 53
Halifax
iP 12 39 35 d
i 12 39 44
iS_cS 12 49 29
eL 12 58.3
Horseshoe Bay
eP 12 34 59
iS 12 37 55
Lillooet
iP 12 34 37
iS 12 37 33
Ottawa
iP 12 38 50 d
S 12 47 00
Resolute
iP 12 36 01 d
PP 12 37.3
P_cP 12 38 20
S 12 41 46
S_cS 12 46 13
Saskatoon
iP 12 42 12
Seven Falls
eP 12 38 58 d
S 12 47 13
Shawinigan Falls
eP 12 38 54
S 12 47 04
Victoria
iP 12 35 05
S 12 41 17

JULY 13
U.S.C.G.S.
25 1/2S, 180
Kermadec Islands region
H = 15 24 44
h = 500 km
Resolute
eP' 15 42 26

JULY 13
Ottawa
iP 22 58 39 c

JULY 13
U.S.C.G.S.
50 1/2N, 170W
Fox Islands region,
Aleutian Islands
H = 23 59 59
Resolute
eP 00 07 21
eS 00 13 17
L 00 15.7

JULY 14
U.S.C.G.S.
51 1/2N, 172W
Fox Islands,
Aleutian Islands
H = 08 40 48
Halifax
eP 08 51 37 d
i 08 51 48 d
eS 09 00 21
eL 09 12.3
Lillooet
eP 08 46 24
Ottawa
eP 08 50 52
Resolute
eP 08 48 03.5
P_cP 08 50 30
e(S) 08 53.7
L 08 56.2
Seven Falls
eP 08 51 01
Shawinigan Falls
eP 08 50 57

JULY 14
U.S.C.G.S.
57N, 158W
Alaska Peninsula
H = 11 33 51
h = 60 km
Alberni
iP 11 38 35 c
Horseshoe Bay
P 11 38 39
Lillooet
iP 11 38 55
Ottawa
eP 11 42 39
Resolute
eP 11 39 51 c
P_cP 11 42 07
eS 11 44 37
e 11 45 38
L 11 46.3
Seven Falls
eP 11 42 48
Shawinigan Falls
eP 11 42 44
Victoria
P 11 38 46

JULY 14
U.S.C.G.S.
16 1/2S, 173E
New Hebrides Islands
region
H = 13 00 24
h = 100 km
Lillooet
eP 13 12 20
Ottawa
eP' 13 19 03

Resolute
eP 13 14 33
SKKS 13 25 15
PS 13 28 09
SS 13 34.0
Shawinigan Falls
eP' 13 19 07

JULY 14
Resolute
eP 16 12 33
e 16 13 11

JULY 14
Resolute
eP 21 59.4
e 21 59 41

JULY 14
U.S.C.G.S.
1/2N, 120E
Near north coast of Celebes
H = 22 31 22
Resolute
eP 22 45 18
(SKS) 22 56.0
eS 22 57.2

JULY 15
Resolute
eP 08 30 52

JULY 15
Resolute
eP 10 39 48
e 10 40 14
e 10 41 10
e 10 42 38

JULY 16
Resolute
eP 06 31 34
e 06 35 26

JULY 16
U.S.C.G.S.
54N, 161W
South of Alaska Peninsula
H = 07 00 05
Ottawa
eP 07 09 20
Resolute
eP 07 06 40
eP 07 06 52
L 07 13.0
Seven Falls
eP 07 09 28
Shawinigan Falls
eP 07 09 25

JULY 16
U.S.C.G.S.
50 1/2N, 177W
Andreanof Islands region, Aleutian Islands
H = 15 17 27
Alberni
eP 15 24 04
Banff
eP 15 24 44
Lillooet
iP 15 23 55
Ottawa
eP 15 27 53
Resolute
eP 15 25 05
PP 15 26 43
eS 15 31 06
L 15 33.5
Seven Falls
eP 15 28 02
Shawinigan Falls
eP 15 27 58
Victoria
P 15 24 15

JULY 16
U.S.C.G.S.
21 1/2S, 169E
Loyalty Islands
H = 19 13 52
Ottawa
eP' 19 32 52
Resolute
eP' 19 32 32
PSPS 19 49 (20)
Seven Falls
eP' 19 32 58
Shawinigan Falls
eP' 19 33 06

JULY 17
Resolute
eP 03 39 02
i 03 42 40
i 03 42 56
e 03 43 28
e 03 45.2
e 03 47 00

JULY 17
Victoria
P 14 56 19

JULY 17
U.S.C.G.S.
7 1/2N, 71 1/2W
Colombia-Venezuela border
H = 22 52 08
Ottawa
eP 22 59 32
Resolute
eP 23 03 15

DOMINION OBSERVATORIES

JULY 17
U.S.C.G.S.
60 1/2N, 153 1/2W
Southern Alaska
H = 23 21 28
h = 150 km
Ottawa
eP 23 30 12
Resolute
eP 23 26 43
eS 23 21.2
Shawinigan Falls
eP 23 30 17

JULY 18
U.S.C.G.S.
21 1/2S, 179W
Fiji Islands region
H = 07 00 36
h = 600 km
Resolute
eP' 07 18 04
SS 07 33 28
sSS 07 36.8

JULY 18
Resolute
eP 11 33 35

JULY 18
49.5°N, 127°W
Off coast of Vancouver, British Colombia
H = 12 19 05
Alberni
eP 12 19 28
D = 144 km
Banff
eP 12 20 53.9
D = 850 km
Horseshoe Bay
iP 12 19 47
D = 288 km
Lillooet
iP 12 19 57
D = 569 km
Resolute
eP 12 24 (38)
eS 12 29 22
eL 12 30.8
e 12 33 (28)
e 12 35 34
Victoria
P 12 19 48

JULY 18
U.S.C.G.S.
15 1/2N, 120 1/2E
Luzon, Philippine Islands
H = 19 54 57
h = 150 km
Mag 6 1/2 - 6 3/4
Alberni
iP 20 07 58
iL 20 18 03
Banff
iP 20 08 19.3
L 20 19 09.3
Halifax
iP' 20 13 (36)
e 20 15 (00)
iSKS 20 20 (18)
iSKKS 20 21 (44)
iPS 20 24 (26)
iPPS 20 26 (38)
i 20 30 (37)
iSS 20 31 (10)
Horseshoe Bay
iP 20 08 06
iS 20 09 07
Ottawa
eP' 20 13 31
PP 20 14 41
SKS 20 20 12
SKKS 20 21 28
PS 20 24 06
SS 20 30 40
Resolute
iP 20 07 32 d
iS 20 17 42
i 20 18 55
iSS 20 23 40
e 20 25 28
eP'P' 20 33 22
Saskatoon
eP 20 12 26
e 20 19 00
Seven Falls
eP' 20 13 32
PP 20 14 39
SKS 20 20 08
S 20 22 10
pPS 20 25 10
SS 20 30 33
SSS 20 33 59
Shawinigan Falls
eP' 20 13 29
PP 20 14 38
SKKS 20 21 25
PS 20 23 57
Victoria
P 20 08 07

JULY 19
U.S.C.G.S.
6 1/2S, 105E
Sunda Strait
H = 03 42 02
Ottawa
eP' 04 01 30
Resolute
eP' 04 00 39
PP 04 01 16
SKS 04 07 16
PS 04 10 40
Seven Falls
eP' 04 01 26
Shawinigan Falls
eP' 04 01 26

JULY 19
Canadian Arctic
H = 11 11 00.2
Mag 2.0
Resolute
P_1 11 11 04.5
S_1 11 11 07.8
D = 27 km

JULY 19
Resolute
eP 12 10 35

JULY 19
U.S.C.G.S.
15S, 70 1/2W
Peru
H = 15 06 10
h = 200 km
Mag 7
Alberni
iP 15 17 59
iL 15 27 51
Banff
iP 15 17 37
Halifax
eP 15 15 (55) c
iP 15 15 (56) d
ipP 15 16 43 c
isP 15 17 13 c
i(P_cS) 15 20 25 c
i 15 24 21
isS 15 25 21
i 15 26 21
Horseshoe Bay
iP 15 17 58
iL 15 27 47
Lillooet
iP 15 17 37
Ottawa
eP 15 16 01
P_cP 15 16 49
S 15 24 00
S_cS 15 25 32
Resolute
eP 15 18 55
iP 15 18 56.5 c
pP 15 19 47
PP 15 22 27
PPP 15 24 32
SKS 15 29 09
S 15 29 35
PS 15 31.1
Saskatoon
eP 15 17 26
e 15 26 49
Seven Falls
eP 15 16 13
P_cP 15 17 04
S 15 24 14
S_cS 15 25 47
Shawinigan Falls
eP 15 16 08 c
P_cP 15 16 58
S_cP 15 20 35
S 15 24 07
S_cS 15 25 27
Victoria
P 15 17 55

JULY 19
U.S.C.G.S.
15 1/2S, 71W
Southern Peru
H = 15 36 17
h = 200 km
Banff
iP 15 47 51
Horseshoe Bay
iP 15 48 06
Lillooet
eP 15 48 26
Ottawa
eP 15 46 10
Resolute
eP 15 49 04 c
iP 15 49 04.5 d
Seven Falls
iP 15 46 22 c
Shawinigan Falls
eP 15 46 16

JULY 19
Alberni
eP 22 08 25
Horseshoe Bay
iP 22 08 42
Victoria
P 22 08 35

JULY 20
U.S.C.G.S.
6S, 111E
Near north coast of Java
H = 02 41 04
h = 500 km
Alberni
eP' 02 58 52
Banff
eP' 02 59 02
Horseshoe Bay
iP' 02 58 56
Ottawa
eP' 02 59 32
pP 03 01 30
SKP 03 02 27
PP 03 02 40
PKS 03 02 57
pPP 03 04 26
Resolute
eP 02 54 (44)
e 02 56 (35)
iP' 02 58 41
PP 02 59 21
e 03 01 02
e 03 04 29
SKS 03 05 26
e 03 07 53
PS 03 08 (51)
PPS 03 09.7
PKKP 03 10 02
(SS) 03 13 50
e 03 17 40
Seven Falls
eP' 02 59 29
SKP 03 02 24
pPP 03 04 23
Shawinigan Falls
eP' 02 59 29
pP 03 01 38
SKP 03 02 24
PP 03 02 35
pPP 03 04 23
Victoria
P' 02 58 56

DOMINION OBSERVATORIES

JULY 20
Resolute
eP 12 23 46

JULY 20
U.S.C.G.S.
23 1/2S, 179E
Fiji Islands region
H = 16 53 38
h = 600 km
Horseshoe Bay
eP 17 05 37
Resolute
eP' 17 11 08
Seven Falls
eP' 17 11 27

JULY 20
Resolute
iP 18 38 20 c

JULY 21
U.S.C.G.S.
9S, 151E
Off coast of eastern
New Guinea
H = 00 43 38
Resolute
eS 01 09 46
eSS 01 17.2

JULY 21
U.S.C.G.S.
14 1/2S, 167 1/2E
New Hebrides Islands
H = 07 43 13
Mag 6 1/4
Alberni
eP 07 55 59
Banff
eP 07 56 27
Horseshoe Bay
iP 07 56 07 c
Lillooet
eP 07 56 18
Ottawa
eP' 08 02 02
Resolute
ePP 08 01.7
ePPP 08 04 09
eS 08 09 14
ePS 08 11 02
eSS 08 17.1
e 08 26 (40)
Seven Falls
eP' 08 02 08
Shawinigan Falls
eP' 08 02 06
Victoria
eP 07 56 01 (c)

JULY 21
U.S.C.G.S.
19N, 68 1/2W
Near north coast of
Dominican Republic
H = 09 17 51
Mag 6
Alberni
eP 09 27 39
Banff
eP 10 26 41
Halifax
eP 09 23 (24)
iS 09 28 (01)
Horseshoe Bay
iP 09 28 11 d
Lillooet
eP 09 27 16
Ottawa
eP 09 23 37
Resolute
iP 09 27 41.5 (d)
eS 09 35 37
S_cS 09 37 26
SS 09 39 32
G 09 41.5
Seven Falls
eP 09 23 47
S 09 28 28
Shawinigan Falls
eP 09 23 43
Victoria
eP 09 27 09 c

JULY 21
U.S.C.G.S.
16N, 98W
Near coast of
Oaxaca Mexico
H = 12 29 09
Mag 6
Alberni
eL 12 42 55
Banff
iP 12 43 27.2
Halifax
eP 12 36 (49)
ePP 12 38 (25)
eS 12 43 (09)
e 12 44 (21)
e 12 45 (33)
Horseshoe Bay
eP 12 36 39 c
Lillooet
eP 12 36 47
Ottawa
eP 12 36 01
Resolute
eP 12 39 07
iP 12 39 07.5 d
PP 12 41 18
PPP 12 42 (32)
eS 12 47 15
S_cS 12 48 57
SS 12 51.1
G 12 53.5
L 13 01 00
Saskatoon
eP 12 42 06
eS 12 49 26
Shawinigan Falls
eP 12 36 20
Victoria
eP 12 36 33 (c)
e 12 53 54
e 12 55 51

JULY 21
U.S.C.G.S.
16N, 98W
Near coast of
Oaxaca Mexico
H = 13 03 31
Mag 6
Banff
iP 13 10 49
Halifax
iP 13 11 12 c
eS 13 17 44
Horseshoe Bay
eP 13 10 49
Lillooet
eP 13 11 11
Ottawa
eP 13 10 23
e 13 14 44
Resolute
eP 13 13 29.5 c
iP 13 13 30 d
eS 13 21 10
L 13 35 22
Seven Falls
eP 13 10 54
Shawinigan Falls
eP 13 10 43
Victoria
eP 13 10 56

JULY 21
U.S.C.G.S.
37N, 112 1/2W
Utah-Arizona border
H = 17 39 29
Mag 5 1/2 - 5 3/4
Ottawa
eP 17 45 25
L 17 53 10
e 17 54 18
Resolute
eP 17 46 (54)
iP 17 47 00
L 17 55.4
Seven Falls
eP 17 45 57

JULY 21
48°42'N, 123°42'W
South Vancouver Island
H = 21 24 50
Mag 1.6
Alberni
eP 21 25 07.0
eS 21 25 19.7
D = 108 km
Victoria
iP 21 24 54.2c,S,E
iS 21 24 57.5
D = 27 km

JULY 22
Ottawa
eP 03 08 25
Resolute
e 03 30.1
Shawinigan Falls
eP 03 08 35

JULY 22
48.3N, 122.7W
West of Whidbey Island
H = 04 05 52
Mag 2.5
Alberni
iP 04 06 22.4
D = 72 km
Horseshoe Bay
iP 04 06 13.7
iS 04 07 31.5
D = 133 km
Victoria
iP 04 06 02.2 c
iS 04 06 09.6
D = 61 km

JULY 22
48.2N, 122.7W
East of Whidbey Island
H = 04 07 10
Alberni
iP 04 07 39.7
iS 04 07 40.7
D = 190 km
Horseshoe Bay
iP 04 07 32.1
D = 139 km
Victoria
iP 04 07 19.7
iS 04 07 27.1
D = 61 km

JULY 22
U.S.C.G.S.
15 1/2N, 97 1/2W
Off coast of Oaxaca
Mexico
H = 04 51 30
Halifax
ePP 05 00 (54)
eS 05 05 (33)
e 05 16 (55)
Ottawa
eP 04 58 25
Resolute
eP 05 01 33
eS 05 09 36
SS 05 13.5
eL 05 23 (16)
Shawinigan Falls
eP 04 58 46

JULY 22
U.S.C.G.S.
2N, 126 1/2E
Molucca Passage
H = 11 15 33
Ottawa
eP' 11 34 40
i 11 34 43
Resolute
eP 11 29 16.5 (c)
iP 11 29 16.8 d
ePP 11 33 18
SKS 11 39 49
SS 11 47.6
Seven Falls
eP' 11 34 44
Shawinigan Falls
eP' 11 34 42 d

DOMINION OBSERVATORIES

JULY 22
48.6N, 124.7W
Near Clo-oose,
Vancouver Island
H = 15 34 13.4
Mag 2.4
Alberni
iP 15 34 25.7
D = 74 km
Horseshoe Bay
iP 15 34 34.8 c
iS 15 34 35.5
D = 134 km
Victoria
iP 15 34 28.2
eS 15 34 31.7
D = 95 km

JULY 22
U.S.C.G.S.
15 1/2N, 97 1/2W
Near coast of Oaxaca,
Mexico
H = 15 53 53
Alberni
iP 15 56 11
eL 16 01 17
Banff
eL 16 01 16
Horseshoe Bay
iP 15 56 22 c
eL 16 01 29
Lillooet
eP 15 56 11
Ottawa
eP 16 00 47
Resolute
eP 16 03 (53)
eS 16 12 01
SS 16 16.2
L 16 25 40
Shawinigan Falls
eP 16 01 07
Victoria
eP 15 56 13
eL 16 15 16

JULY 22
U.S.C.G.S.
53N, 153E
Sea of Okhotsk
H = 19 24 17
h = 650 km
Mag 6 1/4
Alberni
iP 19 32 11
eL 19 38 33
Banff
iP 19 32 32
Halifax
iP 19 35 (12) d
epP 19 37 (27)
eS 19 44 11
eSP 19 44 57
Horseshoe Bay
iP 19 32 16 c
iS 19 36 20 c
Ottawa
iP 19 34 48 d
pP 19 36 54
S 19 43 22
i 19 44 35
Resolute
iP 19 31 39.5 d
i 19 32 10
iP_cP 19 33 06
sP 19 34.5
iS_cP 19 36 00
iS 19 37 33
e 19 39 19
iS_cS 19 40 24
iSS 19 41 10
Seven Falls
eP 19 34 50
S 19 43 28
S_cS 19 43 54
Shawinigan Falls
eP 19 34 48 d
pP 19 36 57
S 19 43 22
i 19 44 35
Victoria
iP 19 32 20 c, S, E
e 19 38 49
i 19 41 05

JULY 22
Alberni
eP 19 41 51
Banff
iP 19 42 33
Victoria
eP 19 42 20

JULY 22
U.S.C.G.S.
5S, 152 1/2E
New Britain
H = 23 02 27
h = 60 km
Alberni
eP 23 15 24
eL 23 25 55
Banff
eP 23 15 49
Halifax
iP' 23 21 35 d
iPKS 23 24 55
e 23 25 19
eSKS 23 28 45
eL 23 47.9
Horseshoe Bay
eP 23 15 25 c
Ottawa
eP' 23 21 20
PP 23 22 50
Resolute
eP 23 16 13 c
iP 23 16 29
SKS 23 26 50
eS 23 28.0
PS 23 29 22
SS 23 35 06
Shawinigan Falls
eP' 23 21 23
Victoria
eP 23 15 24
e 23 25 56
e 23 27 44
eL 23 38 28

JULY 23
U.S.C.G.S.
5S, 152 1/2E
New Britain Island
H = 00 04 49
Ottawa
eP' 00 23 43

JULY 23
U.S.C.G.S.
3N, 71W
Colombia
H = 03 48 12
h = 60 km
Banff
eP 03 58 05
Ottawa
eP 03 56 04
Resolute
eP 03 59 (36)
eS 04 09.0
Seven Falls
eP 03 56 21
Shawinigan Falls
eP 03 56 15 c

JULY 23
U.S.C.G.S.
3N, 76 1/2W
Colombia
H = 04 24 35
Ottawa
eP 04 32 35
Shawinigan Falls
eP 04 32 48 d

JULY 23
51N, 122W
Near Lillooet,
British Columbia
H = 06 41 19
Alberni
iP 06 41 59.5
iS 06 42 31.2
D = 277 km
Horseshoe Bay
iP 06 41 47.5
iS 06 42 09.3
D = 179 km
Victoria
iP 06 42 22
D = 297 km

JULY 23
45,4N, 124.5W
Off coast of Oregon
H = 08 15 24
Mag 4.2
Alberni
eP 08 16 23.8
D = 434 km
Banff
eP 08 17 25.8
D = 945 km
Horseshoe Bay
iP 08 16 26.1 d
iS 08 17 23.4
D = 456 km
Ottawa
eP 08 21 58
Resolute
eP 08 21 42
Shawinigan Falls
eP 08 22 13
Victoria
iP 08 16 14.8 c
iS 08 17 02.1
D = 359 km

JULY 23
Ottawa
eP 11 19 32

JULY 23
U.S.C.G.S.
38N, 140E
Honshu, Japan
H = 13 45 20
Banff
iP 13 56 27
Lillooet
eP 13 56 00
Resolute
iP 13 55 39 c

JULY 23
U.S.C.G.S.
24 1/2S, 176W
Tonga Islands region
H = 14 56 45
h = 60 km
Mag 5 3/4
Alberni
eP 15 09 29
Banff
eP 15 09 54
Horseshoe Bay
eP 15 09 30
Lillooet
eP 15 10 00
Resolute
eP' 15 15 (16)
PP 15 15 55
SKS 15 21 52
eS 15 23 36
PS 15 25 42
Victoria
eP 15 09 29

JULY 23
U.S.C.G.S.
25N, 125 1/2E
Ryukyu Islands
H = 21 25 39
Resolute
eP 21 37 35
eS 21 47 23

JULY 24
U.S.C.G.S.
41N, 125 1/2W
Off coast of Northern
California
H = 01 23 09
Mag 5 3/4
Alberni
iP 01 25 08.6
eL 01 28 07

DOMINION OBSERVATORIES

Banff
iP 01 26 04.0
Halifax
eP 01 31 22 c
i 01 31 32 c
iS 01 38 02
iSS 01 41 31
e(SSS) 01 43 06
eL 01 43.1
Horseshoe Bay
iP 01 25 08.6 d
iS 01 26 31.1
Lillooet
iP 01 25 20
Ottawa
eP 01 30 12
S 01 35 56
Resolute
iP 01 30 15.5 c
PP 01 31 36
eS 01 36 01
L 01 38.5
S_cS 01 40 36
Saskatoon
eP 01 26 07.5
iS 01 33 05
Seven Falls
eP 01 30 38 c
S 01 36 36
Shawinigan Falls
eP 01 30 16
Victoria
eP 01 25 02
eS 01 26 18

JULY 24
Resolute
eP 02 54 15 c
iP 02 54 15.5 d
e 02 54 33

JULY 24
U.S.C.G.S.
41N, 125 1/2W
Off coast of California
H = 03 35 24
Alberni
eP 03 37 54
Banff
eP 03 38 54.5
Horseshoe Bay
iP 03 37 55 c
eS 03 39 00
Lillooet
eP 03 38 05
Victoria
eP 03 37 44
eL 03 42 --

JULY 24
U.S.C.G.S.
21S, 70 1/2W
Chile
H = 05 12 40
Seven Falls
eP 05 23 34

JULY 24
U.S.C.G.S.
24 1/2N, 94 1/2E
India-Burma border
H = 16 17 30
Resolute
eP 16 29 44
iP 16 30 25
eS 16 39 43
L 16 45.0

JULY 24
U.S.C.G.S.
5 1/2S, 153E
New Britain Island region
H = 19 20 13
Resolute
SKS 19 44 33
SS 19 52.7

JULY 24
U.S.C.G.S.
56 1/2S, 28 1/2W
Sandwich Islands
H = 23 03 08
Banff
eL 23 22 15
e 23 25 23
Halifax
eSKS 23 27 43
eS 23 28 31
eSS 23 36 27
e 23 37 11
Horseshoe Bay
iP' 23 22 17 c
i 23 25 30
Resolute
eP' 23 22 25
iPP 23 25 54
SKS 23 29 48
SKKS 23 32 02
SS 23 43.2
Victoria
eP' 23 25 31 c

JULY 24
Resolute
eP 23 34 39

JULY 25
Resolute
e 12 21 50

JULY 25
U.S.C.G.S.
50N, 142 1/2E
Sakhalin
H = 15 58 50
Resolute
eP 16 07 (42)
P_cP 16 09 03
L 16 25.7

JULY 25
Ottawa
eP 19 36 02
Resolute
eP 19 32 52
e 19 39 52

JULY 25
U.S.C.G.S.
37N, 140 1/2E
Honshu, Japan
H = 21 20 35
h = 100 km
Banff
iP 21 31 38
Horseshoe Bay
eP 21 28 24
Ottawa
iP 21 33 33
Resolute
iP 21 30 52 d
ipP 21 31 14
eS 21 39.2

JULY 26
U.S.C.G.S.
41N, 27 1/2E
Northwestern Turkey
H = 17 07 03
Resolute
eSS 17 28.6
eL 17 30.8

JULY 26
U.S.C.G.S.
53N, 160E
Kamchatka
H = 19 37 40
Ottawa
eP 19 48 57 d
Resolute
eP 19 45 55

JULY 27
49°00'N, 123°04'W
Boundary Bay
H = 03 27 45
Mag 2.3
Horseshoe Bay
iP 03 27 51.4 (c)
iS 03 28 00.0
D = 42 km
Victoria
iP 03 27 54.4 d
iS 03 28 01.8

JULY 27
U.S.C.G.S.
About 900 miles west
of Galapagos Islands
H = 05 27 45
Ottawa
eP 05 36 58
Resolute
e 05 48 28
e 05 56.0
e 06 00.3
Shawinigan Falls
eP 05 37 17

JULY 27
Ottawa
eP 06 36 21

JULY 28
49.5N, 130.0W
Off west coast of
British Columbia
H = 12 28 08
Mag 3.2
Horseshoe Bay
iP 12 29 16.7
Victoria
P 12 29 15.7
D = 500 km

JULY 29
Alberni
eP 02 (58) (43)
Banff
eP 03 01 14
Horseshoe Bay
eP 03 00 24
Victoria
eP 03 00 16 c
e 03 00 21

JULY 29
Alberni
iP 22 (26) (36.7)
Horseshoe Bay
iP 22 28 00.0 c
Victoria
eP 22 28 09.9
e 22 28 13
Local shock

JULY 30
48°24'N, 122°32'W
Whidbey Islands
H = 07 19 19
Alberni
iP 07 (18) (20.5)
S 07 (18) (43.7)
D = 189 km
Horseshoe Bay
iP 07 19 38.3
iS 07 19 53.1
D = 121 km
Victoria
iP 07 19 30.6 d, N, W
iS 07 19 39.5
D = 66 km

JULY 30
U.S.C.G.S.
Indian Ocean near
49S, 118E
H = 06 12 18
Resolute
eP' 06 32 10
iP' 06 32 19

DOMINION OBSERVATORIES

JULY 30
U.S.C.G.S.
31 1/2S, 177 1/2W
Kermadec Islands
H = 12 53 56
Resolute
eP' 13 12 54
iP' 13 13 03

JULY 31
U.S.C.G.S.
10 1/2S, 71W
Southern Peru
H = 01 51 45
h = 150 km
Ottawa
eP 02 01 52
Seven Falls
eP 02 02 04
Shawinigan Falls
eP 02 02 00

JULY 31
U.S.C.G.S.
5S, 152 1/2E
New Britain
H = 04 59 23
Resolute
SKS 05 23.9
PS 05 26 20
SS 05 31.6
PSPS 05 32.3

JULY 31
U.S.C.G.S.
6 1/2S, 154 1/2E
Solomon Islands
H = 18 35 12
Alberni
eP 18 (47) (04)
Horseshoe Bay
iP 18 48 31 d
Victoria
iP 18 48 17 c

JULY 31
U.S.C.G.S.
38 1/2N, 70E
Tadzhik, S.S.R.
H = 19 53 02
Banff
e 20 06 05
Horseshoe Bay
iP 20 06 11
Shawinigan Falls
eP 20 06 06
Victoria
eP 20 06 15

AUGUST 1
U.S.C.G.S.
27 1/2S, 65W
Tucuman Province, Argentina
H = 10 01 30
h = 200 km
Shawinigan Falls
eP 10 12 54

AUGUST 1
48°25'N, 68°19'W
About ten miles east of Rimouski, Quebec
H = 13 52 49.3
Mag 4.1
Halifax
P_n 13 54 04
S_1 13 55 26
D = 555 km
Montreal
P_n 13 53 59.3
S_n 13 54 51
i 13 55 12.5
S_1 13 55 14
D = 520 km
Ottawa
S_1 13 55 51
D = 656 km
Seven Falls
P_n 13 53 26.0
i 13 53 30.5
i 13 53 51.5
S_1 13 53 57.5
D = 235 km
Shawinigan Falls
P_n 13 53 46.5
S_1 13 54 41
D = 392 km

AUGUST 1
Resolute
eP 23 27 13
e 23 27 21

AUGUST 2
47.8N, 126.4W
Off coast of Washington
H = 09 35 52
Mag 3.0
Alberni
iP 09 36 22.4
iS 09 36 46.3
D = 188 km
Horseshoe Bay
iP 09 36 37.5 d
D = 312 km
Victoria
iP 09 36 30.1 d
eS 09 36 59.9
D = 252 km

AUGUST 2
49°34'N, 120°09'W
Near Nootka Sound
H = 09 48 58.9
Mag 2.5
Alberni
iP 09 49 16.5
iS 09 49 30.2
i 09 49 43.7
D = 103 km
Horseshoe Bay
iP 09 49 31.3
iS 09 49 55.3
D = 210 km
Victoria
eP 09 49 33.7
eS 09 49 54.4
D = 230 km

AUGUST 2
U.S.C.G.S.
About 150 miles
north of Puerto Rico
H = 20 29 55
Ottawa
eP 20 35 47
Resolute
e(S) 20 46.8
Shawinigan Falls
eP 20 24 04

AUGUST 2
U.S.C.G.S.
49 1/2N, 129 1/2W
Off coast of Vancouver,
British Columbia
H = 23 45 19
Alberni
iP 23 46 03.6
Horseshoe Bay
iP 23 46 20 (d)
Resolute
eP 23 51.5
eS 23 56 20
eL 23 57.1
Victoria
eP 23 46 10.4

AUGUST 3
U.S.C.G.S.
33N, 79 1/2W
South Carolina
H = 06 08 30
Ottawa
eP 06 11 36
S 06 13 56
Resolute
eP 06 16 31
eL 06 30 24
Seven Falls
eP 06 12 10
S 06 15 15
Shawinigan Falls
eP 06 12 05

AUGUST 3
U.S.C.G.S.
Indian Ocean near
46 1/2S, 98E
H = 15 36 37
Resolute
eP' 15 56 43 (d)

AUGUST 3
U.S.C.G.S.
Indian Ocean near
46 1/2S, 98E
H = 16 09 54
Resolute
eP' 16 29 59
iP' 16 30 07

AUGUST 3
Ottawa
eP 18 03 15
Shawinigan Falls
eP 18 03 34

AUGUST 4
U.S.C.G.S.
27S, 68 1/2W
Chile - Argentina
border
H = 03 00 33
Ottawa
eP 03 12 07
Seven Falls
eP 03 12 17
Shawinigan Falls
eP 03 12 13

AUGUST 4
U.S.C.G.S.
20 1/2S, 178W
Fiji Islands region
H = 08 02 17
h = 600 km
Banff
iP 08 14 20
Lillooet
eP 08 14 20
Ottawa
iP' 08 19 52 c
Resolute
eP' 08 19 41.5
SKS 08 25 24
S 08 26 58
e 08 29 24
PS 08 30 04
sS 08 30 44
sPS 08 32 24
sSS 08 37 58
Shawinigan Falls
eP' 08 19 56

AUGUST 4
Resolute
iP 14 09 12 c
i 14 10 08
i 14 11 04

AUGUST 4
Horseshoe Bay
eP 23 54 28
Victoria
eP 23 54 19

AUGUST 5
U.S.C.G.S.
12 1/2N, 125E
Samar, Philippine
Islands
H = 05 16 39
Resolute
eP 05 29 (39)
iP 05 29 41
eS 05 40 28
S_cS 05 40 52
SS 05 46.7
SSS 05 50.1
G 05 53.4

DOMINION OBSERVATORIES

AUGUST 5
Resolute
eP 10 39 47
i 10 39 54.5

AUGUST 5
U.S.C.G.S.
5 1/2N, 125 1/2E
Near south coast of Mindanao, Philippine Islands
H = 13 48 42
Resolute
eP 14 02 16
SKS 14 12 36
eS 14 13 20
SS 14 20 04
PSPS 14 20.6
SSS 14 24.0
Shawinigan Falls
eP' 14 07 46

AUGUST 5
U.S.C.G.S.
14N, 142E
Mariana Islands
H = 19 52 54
Resolute
eP 20 05 (38)

AUGUST 6
U.S.C.G.S.
48N, 120W
Washington State
H = 03 44 37
Resolute
eP 03 50 38 c
eP 03 51 21
eL 03 58.2

AUGUST 6
Chelan county
Washington State
aftershock
H = 04 36 16
Mag 3.9
Alberni
iP 04 37 09.8
eS 04 38 03.5
D = 381 km
Banff
iP 04 37 21.5
D = 479 km
Horseshoe Bay
eP 04 36 59.5
e 04 37 42.8
D = 300 km
Lillooet
iP 04 37 17
D = 442 km
Victoria
iP 04 36 52.0 c, N,W
D = 180 km

AUGUST 6
Resolute
e 04 50 (30)
e 04 51 (25)
e 04 51 30

AUGUST 7
U.S.C.G.S.
56N, 154W
Kodiak Island region
H = 10 43 32
Mag 5 3/4
Alberni
eP 10 47 52.0 d
Halifax
ePS 11 00 33
eS_cS 11 02 46
eSS 11 03 54
eL 11 09.8
Horseshoe Bay
iP 10 48 00 c
iL 10 53 01

Lillooet
eP 10 48 13
eS 10 53 14
Ottawa
eP 10 52 10
eS 10 59 05
Resolute
iP 10 49 30 c
iS 10 54 32
iL 11 01.6
Seven Falls
eP 10 52 21
S 10 59 24
Shawinigan Falls
eP 10 52 16
Victoria
eP 10 48 07 d,N,W
e 10 53 08

AUGUST 7
U.S.C.G.S.
10 1/2S, 162 1/2E
Solomon Islands
H = 19 10 59
Ottawa
eP' 19 29 52
Resolute
e 19 33.3
e 19 38.7
SS 19 44.3
PSPS 19 44.5

AUGUST 7
U.S.C.G.S.
56 1/2N, 154W
Kodiak Island
H = 21 45 26
Mag 5
Alberni
iP 21 49 47
Halifax
iP 21 55 05 c
e 22 02 28
eS_cS 22 04 41
eSS 22 06 26
eSSS 22 08.8
eG 22 12.6

Horseshoe Bay
iP 21 49 55 d
Ottawa
eP 21 54 05
S 22 01 00
Resolute
eP 21 51 25
iP 21 51 25.5 d
iP_cP 21 54 15
eS 21 56 04
L 22 03.5
Seven Falls
eP 21 54 15
Shawinigan Falls
eP 21 54 12
Victoria
eP 21 50 00
iP 21 50 00.5 d,N,W
e 21 53 47
eL 21 54.5

AUGUST 8
U.S.C.G.S.
55N, 162 1/2E
Near east coast of
Kamchatka
H = 00 47 38
Mag 6 1/2
Alberni
eP 00 53 39.2
Halifax
iP 00 59 10 d
i 00 59 22 d
iPPP 01 03 51
eS 01 08 34
eSS 01 12 32
eL 01 20.6
Horseshoe Bay
iP 00 55 43 d
Ottawa
eP 00 58 47
PP 01 01 12
Resolute
eP 00 55 23
iP 00 55 23.5 c
eS 01 01.5
L 01 04.6

Seven Falls
eP 00 58 42
Shawinigan Falls
eP 00 58 42
Victoria
iP 00 55 49 d,N,W

AUGUST 8
U.S.C.G.S.
14S, 76W
Near coast of Peru
H = 02 54 53
Ottawa
eP 03 05 01
Resolute
e(P) 03 08 15
Seven Falls
eP 03 05 11
Shawinigan Falls
eP 03 05 06

AUGUST 8
U.S.C.G.S.
6S, 155E
Solomon Islands
H = 23 56 05
h = 100 km
Resolute
SKS 00 20 17
PS 00 23.0
SS 00 28 34
G 00 38.1

AUGUST 9
U.S.C.G.S.
2N, 128E
Halmahera
H = 02 34 43
Ottawa
eP' 02 53 50
Resolute
eP 02 48 26
SS 03 06.6
Seven Falls
eP' 02 53 51
Shawinigan Falls
eP' 02 53 51

AUGUST 9
Resolute
e 05 13.4
e 05 16 13
e 05 17 14
e 05 22.1

AUGUST 9
Resolute
eP 15 35 45
iP 15 36 46 d

AUGUST 9
U.S.C.G.S.
10S, 161E
Solomon Islands
H = 20 29 28
h = 100 km
Ottawa
eP' 20 48 14
Resolute
eS 20 55 10
PS 20 57.0
SS 21 02 28
G 21 12.3

AUGUST 10
U.S.C.G.S.
55 1/2S, 146E
Indian Ocean,
south of Australia
H = 00 36 35
Ottawa
eP' 00 56 28
Resolute
eP' 00 56 (23)
iP' 00 56 27.5 c
SKSP 01 10.2
SS 01 20 03
SSS 01 24.6
Shawinigan Falls
eP' 00 56 34

DOMINION OBSERVATORIES

AUGUST 11
Resolute
e 13 24 (20)
e 13 28.5
e 13 30 04

AUGUST 11
Resolute
e 13 45 (20)
e 13 52.5
e 13 55.0

AUGUST 11
Resolute
e 14 29.2
e 14 31.0
e 14 33.4

AUGUST 11
U.S.C.G.S.
44 1/2N, 148 1/2E
Kurile Islands
H = 15 24 30
Resolute
eS 15 41.5

AUGUST 11
Resolute
e 18 24 04
e 18 25.2
e 18 28.4

AUGUST 11
U.S.C.G.S.
11S, 163E
Solomon Islands region
H = 21 49 42
Ottawa
eP' 22 08 35
Resolute
SKS 22 14 26
eS 22 15 32
PS 22 17 10
PPS 22 18 04
SS 22 22.3

AUGUST 12
U.S.C.G.S.
12N, 86W
Nicaragua
H = 00 33 38
h = 100 km
Horseshoe Bay
iP 00 44 13 d
Lillooet
iP 00 44 12 d
iS 00 46 09
Ottawa
eP 00 40 24
Resolute
e(PP) 00 46.0
e(S_cS) 00 53.2
e 00 54.6
e 00 55 (02)
Shawinigan Falls
eP 00 40 39
Victoria
eP 00 44 05
e 00 46 09
e 00 47 36

AUGUST 12
U.S.C.G.S.
12N, 86W
Nicaragua
H = 00 35 36
h = 100 km
Halifax
ePP 00 44 23
esS 00 49 23
iS_cS 00 52.7
Ottawa
eP 00 42 25

AUGUST 12
U.S.C.G.S.
3S, 80 1/2W
Near coast of Ecuador
H = 02 00 52
Lillooet
eP 02 12 47 c
Ottawa
eP 02 09 35
Resolute
eS 02 22.7
SS 02 28.1
Seven Falls
eP 02 09 54
Shawinigan Falls
eP 02 09 47

AUGUST 12
U.S.C.G.S.
15S, 28E
Northern Rhodesia
H = 04 05 20
Resolute
(PS) 04 33.5
(SSS) 04 44.5

AUGUST 12
U.S.C.G.S.
16 1/2S, 177 1/2W
Fiji Islands region
H = 09 58 22
Mag 6 1/2
Alberni
eP 10 10 38
Halifax
eSKKS 10 25 49
e 10 26 25
ePS 10 28 44
eSS 10 34 51
G 10 45.7
Horseshoe Bay
eP 10 10 39 d
Lillooet
eP 10 10 44 d
Ottawa
eP' 10 14 53
Resolute
PP 10 16 39
(PPP) 10 19 04
SKS 10 23 08
eS 10 24 14
PS 10 25 43
SS 10 31 30
e 10 38 32
L 10 41.4

Victoria
eP 10 10 37
e(S) 10 20 53
eL 10 31.4

AUGUST 12
Shawinigan Falls
eP 18 13 21

AUGUST 13
U.S.C.G.S.
40N, 49E
Azerbaijan, S.S.R.
H = 00 33 09
Lillooet
eP 00 44 58 c
Shawinigan Falls
eP 00 45 17

AUGUST 13
48°43'N, 124°27'W
South West of Vancouver Island
H = 13 56 13.7
Mag 2.7
Alberni
iP 13 56 25.0
iS 13 56 34.9
D = 70 km

Horseshoe Bay
iP 13 56 32.2 d
iS 13 56 42.8
D = 116 km
Victoria
iP 13 56 27.4 c,S,E
iS 13 56 39.5

AUGUST 13
U.S.C.G.S.
51 1/2N, 176W
Aleutian Islands
H = 15 30 42
Resolute
eS 15 44 02
eL 15 46.8

AUGUST 13
44N, 124.5W
Off coast of Oregon
H = 19 07 14.8
Mag 4.1
Alberni
eP 19 08 32.0
D = 578 km
Halifax
eP 19 14 38
e 19 18 26
eS 19 21.0
eSS 19 25 00
Horseshoe Bay
eP 19 08 35 (d)
S 19 09 48
Ottawa
eP 19 14 01
Resolute
eS 19 19 18
eL 19 21 11

Shawinigan Falls
eP 19 14 15
Victoria
eP 19 08 25.1
eS 19 09 31
D = 522 km

AUGUST 14
U.S.C.G.S.
0, 125 1/2E
Molucca Passage
H = 04 39 07
Ottawa
eP' 04 58 23
SKP 05 01 45
Resolute
(PS) 05 06.5
Shawinigan Falls
eP' 04 58 23

AUGUST 14
49°21'N, 123°37'W
Strait of Georgia
H = 21 15 18
Mag 2.7
Alberni
iP 21 15 31.0
iS 21 15 34.3
i 21 15 42.8
D = 83 km
Horseshoe Bay
iP 21 15 21.0 c
iS 21 15 --
D = 21 km
Victoria
iP 21 15 32.2
iS 21 15 50.3
D = 91 km

DOMINION OBSERVATORIES

AUGUST 14
49°18'N, 123°33'W
Strait of Georgia
H = 21 22 12.1
Mag 2.0
Alberni
i 21 22 36.0
Horseshoe Bay
iP 21 22 15.3
e 21 22 44.0
D = 20 km
Victoria
iP 21 22 25.9
iS 21 22 38.7

AUGUST 14
49°20'N, 123°33'W
Strait of Georgia
H = 21 28 31.7
Mag 2.3
Alberni
iP 21 28 47.0
D = 96 km
Horseshoe Bay
eP 21 28 34.9
D = 20 km
Victoria
eP 21 28 46.3
D = 92 km

AUGUST 15
U.S.C.G.S.
23N, 121E
Formosa
H = 08 57 04
Mag 6 3/4 - 7
Alberni
eP 09 09 54.8
Halifax
eP' 09 16 16 c
(SKS) 09 22 20
(SKKS) 09 23 27
iPS 09 26 17
SS 09 32 49
Horseshoe Bay
eP 09 10 49
Ottawa
eP' 09 15 05
Resolute
eP 09 09 15.5 c
iP 09 09 16 d
iPP 09 12 25
iS 09 19 20
iSS 09 24 34
L 09 29 06
Victoria
iP 09 09 58 c,E

AUGUST 15
U.S.C.G.S.
21S, 174W
Tonga Islands
H = 13 14 26
Resolute
eS 13 40.9
PS 13 42 42
SS 13 48.5

AUGUST 15
U.S.C.G.S.
8S, 79 1/2W
Near coast of
Peru
H = 18 28 57
Ottawa
iP 18 38 14 c
Seven Falls
eP 18 38 30
Shawinigan Falls
iP 18 38 25 c

AUGUST 15
U.S.C.G.S.
55N, 162 1/2E
Near east coast of
Kamchatka
H = 18 41 56
Alberni
iP 18 49 56
Ottawa
eP 18 52 57
Resolute
iP 18 49 41 c
eS 18 56 06
eL 18 59.1
Shawinigan Falls
eP 18 52 58
Victoria
eP 18 50 05

AUGUST 15
Canadian Arctic
H = 21 11 43.1
Mag 1.9
Resolute
P_1 21 11 49
S_1 21 11 53.5
D = 36.9 km

AUGUST 15
U.S.C.G.S.
10N, 85 1/2W
Costa Rica
H = 22 56 15
h = 200 km
Halifax
iP 23 03 38.5 d
Ottawa
iP 23 03 07 c
Resolute
eP 23 06 40
e 23 07 26
Seven Falls
eP 23 03 31 c
Shawinigan Falls
iP 23 03 22 c
Victoria
eP 23 04 52

AUGUST 16
U.S.C.G.S.
21S, 169E
Loyalty Islands region
H = 00 51 40
Mag 6
Halifax
ePKS 01 14 19.5
eSKKS 01 19.8
e(PPS) 01 26 12
e(SS) 01 31 08
G 01 51.8
Ottawa
eP' 01 10 38
Resolute
eP' 01 10.1
PP 01 10.9
SKS 01 17 03
SKKS 01 17.8
S 01 18 40
SS 01 27.0
L 01 38.8
Seven Falls
eP' 01 10 42
Shawinigan Falls
eP' 01 10 42

AUGUST 16
U.S.C.G.S.
22N, 121E
Formosa
H = 01 21 05
Resolute
eP 01 33 15
eS 01 43.5

AUGUST 16
U.S.C.G.S.
18S, 178W
Fiji Islands
H = 09 53 52
h = 350 km
Horseshoe Bay
iP 10 05 24 d
Resolute
SKS 10 17.2
(PS) 10 20.2
(sPS) 10 22.1
SS 10 26.0
Victoria
eP 10 05 22

AUGUST 16
U.S.C.G.S.
37 1/2N, 22E
Greece
H = 18 41 59
Shawinigan Falls
eP 18 53 02

AUGUST 17
U.S.C.G.S.
22 1/2N, 121E
Formosa
H = 01 02 37
Resolute
eP 01 14 47
eS 01 24 42
PPS 01 25 44
SS 01 30.0

AUGUST 17
U.S.C.G.S.
41N, 20E
Albania
H = 01 33 11
Halifax
eP 01 43 14 c
iP 01 43 14.4 d
S 01 51 16
S_cS 01 53 06
eL 02 03.3
Horseshoe Bay
eP 01 47 49
Ottawa
eP 01 44 02
Resolute
eP 01 43 01.5 d
iP 01 43 16.5
eS 01 50 46
Seven Falls
eP 01 43 36
S 01 51 58
Shawinigan Falls
iP 01 43 46 c
Victoria
eP 01 45 54

AUGUST 17
U.S.C.G.S.
41N, 20E
Albania
H = 04 29 00
Ottawa
eP 04 39 49

AUGUST 17
Resolute
e 04 55.1
e 04 57 04
e 04 58.6
e 05 01 40

AUGUST 17
Resolute
e 13 21 09
e 13 39.7
e 13 46 32

AUGUST 17
Resolute
eP 17 06 36.5

AUGUST 17
U.S.C.G.S.
7 1/2S, 156E
Solomon Islands
H = 21 04 40
Mag 7 1/4
Alberni
eP 21 17 41
eL 21 28 12
Banff
eP 21 18 14 d
Halifax
iP' 21 23 57.5 d
e 21 26 04.5
eL 21 43.8
Horseshoe Bay
iP 21 17 45 c
Ottawa
eP' 21 23 36
PP 21 25 08
SKS 21 30 40
PKKP 21 33 43
PS 21 35 10
Resolute
eP 21 18 42
i 21 22 13 c
PP 21 22.9
SKS 21 29 20
iS 21 30.3
PS 21 32 00
PKKP 21 34 46
SS 21 37.6
(PSPS) 21 38.6
(SSS) 21 40 58
L 21 45.1
Saskatoon
eP' 21 21 06
eS 21 31 27
Seven Falls
eP' 21 23 43
PP 21 25 09
Shawinigan Falls
eP' 21 23 41
Victoria
eP 21 17 46

AUGUST 18
U.S.C.G.S.
0, 123E
Northern Celebes
H = 00 30 00
h = 200 km
Ottawa
eP' 00 48 54
Seven Falls
eP' 00 48 55
Shawinigan Falls
eP' 00 48 54

AUGUST 18
U.S.C.G.S.
22 1/2N, 122E
Near east coast
of Formosa
H = 00 34 03
h = 200 km
Alberni
iP 00 46 32
Banff
eP 00 46 54 (c)
Horseshoe Bay
iP 00 46 35 d
Ottawa
eP' 00 52 04
Resolute
iP 00 45 55 d
eS 00 55 46
Seven Falls
eP' 00 52 04
Shawinigan Falls
eP' 00 52 04
Victoria
iP 00 46 44 d

AUGUST 18
Victoria
iP 03 17 15.2
iS 03 17 15.5
Local shock

AUGUST 18
U.S.C.G.S.
42N, 127W
Off coast of Oregon
H = 05 13 30
Alberni
iP 05 16 41.6
e 05 16 45.8
iS 05 16 55.0
Banff
eP 05 16 26.1
Horseshoe Bay
iP 05 15 26.0
iS 05 16 52.6
Resolute
iP 05 20 30
eS 05 26.3
eL 05 28.3
Shawinigan Falls
eP 05 20 51
Victoria
iP 05 16 46.5
iS 05 18 04.9

AUGUST 18
U.S.C.G.S.
44°50'N, 111°05'W
Hebgen Lake, Montana
H = 06 37 15.0
Mag 7.1
Halifax
iP 06 43 57.5 c
iP 06 43 58.5 d
iS 06 49 18.5
Ottawa
iP 06 42 40 d
e 06 46 42
S 06 47 04

Resolute
eP 06 43 31 d
iP 06 43 37
iS 06 48 38
Seven Falls
eP 06 43 08
S 06 47 58
Shawinigan Falls
eP 06 42 56 d
S 06 47 28

AUGUST 18
Montana aftershock
Alberni
eP 07 06 04.2
Banff
iP 07 05 17
Horseshoe Bay
eP 07 05 50.2
Victoria
iP 07 05 46.8

AUGUST 18
Montana aftershock
Banff
P 07 20 57

AUGUST 18
Montana aftershock
Banff
P 07 29 38

AUGUST 18
U.S.C.G.S.
45N, 111W
Hebgen Lake
aftershock
H = 07 54 32
Alberni
iP 07 57 02.3
i 07 58 51.3
Banff
eP 07 55 53
Halifax
iP 08 02 59.5 d
Horseshoe Bay
iP 07 56 50.5 d
iS 07 58 37.8
Resolute
eP 08 02 (35)
Shawinigan Falls
eP 08 02 01
Victoria
iP 07 56 44.8
eS 07 58 35.2
e 08 01 01.7

AUGUST 18
Montana aftershock
Horseshoe Bay
eP 08 08 27.7
Victoria
iP 08 10 55

AUGUST 18
Montana aftershock
Banff
eP 08 20 58

AUGUST 18
Montana aftershock
Banff
P 08 25 56

AUGUST 18
U.S.C.G.S.
44.8N, 110.7W
Hebgen Lake aftershock
H = 08 41 50
Mag 6
Alberni
iP 08 44 20.7
Banff
eP 08 43 32
Horseshoe Bay
eP 08 44 05.5c
Resolute
eP 08 48 (10)
Saskatoon
iP 08 43 47.7 c
Shawinigan Falls
eP 08 47 31
Victoria
iP 08 44 02.2

AUGUST 18
Montana aftershock
Banff
eP 08 54 56
Halifax
iP 08 59 11.5 c
i 08 59 30.5
Victoria
P 08 55 58

AUGUST 18
Montana aftershock
Horseshoe Bay
P 09 01 46

AUGUST 18
Montana aftershock
Banff
P 09 04 27

AUGUST 18
Resolute
e(P) 09 18 (36)

AUGUST 18
Montana aftershock
Banff
P 09 24 53

AUGUST 18
Montana aftershock
Horseshoe Bay
P 09 49 29

DOMINION OBSERVATORIES

AUGUST 18
Montana aftershock
Banff
P 10 13 17
Horseshoe Bay
e 10 20 48

AUGUST 18
Montana earthquake
Banff
P 10 26 30
Victoria
P 10 26 59

AUGUST 18
Resolute
eP 10 39 34
i 10 41 08

AUGUST 18
Montana earthquake
Banff
P 10 45 09
Victoria
P 10 43 45

AUGUST 18
Resolute
eP 10 57 15
i 10 59 50

AUGUST 18
Montana earthquake
Banff
P 10 58 30

AUGUST 18
U.S.C.G.S.
44.8N, 111.1W
Hebgen Lake aftershock
H = 11 03 52
Mag 5 1/2 - 5 3/4
Alberni
P 11 05 37
Banff
P 11 05 33
Halifax
iP 11 10 27.5 c
eS 11 15.8
eL 11 19.8
Horseshoe Bay
P 11 05 24
Ottawa
iP 11 09 13 c
Resolute
eP 11 10 (05)
eS 11 15 08
eL 11 18.2
Shawinigan Falls
eP 11 09 48
Victoria
P 11 05 20

AUGUST 18
Montana earthquake
Banff
P 12 08 45
Horseshoe Bay
P 12 12 22
Victoria
P 12 12 20

AUGUST 18
Montana earthquake
Banff
P 12 23 05

AUGUST 18
Montana earthquake
Banff
P 12 50 08
Horseshoe Bay
e 12 59 27

AUGUST 18
Montana earthquake
Banff
P 13 21 45
Horseshoe Bay
P 13 22 02
Victoria
P 13 22 02

AUGUST 18
Montana earthquake
Banff
P 14 35 46

AUGUST 18
Montana earthquake
Banff
P 14 41 56

AUGUST 18
Montana earthquake
Horseshoe Bay
P 15 25 39
Victoria
P 15 25 33

AUGUST 18
U.S.C.G.S.
44°53'N, 110°44'W
Hebgen Lake aftershock
H = 15 26 06.5
Mag 6 1/2
Alberni
P 15 28 39

Halifax
iP 15 32 45 d
e(PP) 15 33 37
iP_cP 15 35 32
iS 15 38 05
iSSS 15 41 01
eL 15 41.8
Horseshoe Bay
P 15 28 39
Ottawa
eP 15 31 30
e 15 35 24
S 15 35 50
Resolute
eP 15 32 22
iS 15 37 28
iL 15 40.3
Seven Falls
eP 15 31 58
S 15 36 38
Shawinigan Falls
eP 15 31 46
Victoria
P 15 28 24

AUGUST 18
Montana earthquake
Banff
P 15 37 29
Victoria
P 15 38 03

AUGUST 18
Montana earthquake
Banff
P 15 49 28
Horseshoe Bay
P 15 49 57

AUGUST 18
Montana earthquake
Banff
P 16 13 10
Horseshoe Bay
P 16 15 22
Victoria
P 16 15 19

AUGUST 18
Montana earthquakes
Horseshoe Bay
P 16 24 25
Resolute
iP 16 27 15
e 16 28 56
Victoria
P 16 24 22

AUGUST 18
Montana earthquakes
Horseshoe Bay
P 16 27 41
Victoria
P 16 28 43

AUGUST 18
Montana earthquakes
Banff
P 17 05 51
Horseshoe Bay
P 17 06 24
Victoria
P 17 06 19

AUGUST 18
Montana earthquake
Banff
P 17 30 06
Horseshoe Bay
P 17 32 43

AUGUST 18
Montana earthquake
Banff
P 17 54 23

AUGUST 18
47.9N, 120.1W
Chelan, Washington
U.S.A.
H = 18 07 33.4
Horseshoe Bay
iP 18 08 15.1
D = 288 km
Victoria
iP 18 08 11.6
iS 18 08 43.2
D = 258 km

AUGUST 18
Resolute
eP 18 08 14

AUGUST 18
Montana earthquake
Horseshoe Bay
P 19 32 22

AUGUST 18
Montana earthquake
Horseshoe Bay
P 20 11 43
Victoria
P 20 11 38

AUGUST 18
Montana aftershock
Horseshoe Bay
P 20 16 05
Victoria
P 20 17 01

AUGUST 18
Resolute
eP 20 24 (25)
e 20 25 08
e 20 29 (31)

AUGUST 18
U.S.C.G.S.
11S, 162 1/2E
Solomon Islands
H = 21 13 09
h = 200 km
Resolute
e 21 38 53
e 21 41.0

DOMINION OBSERVATORIES

AUGUST 18
Montana earthquake
Horseshoe Bay
P 21 37 20
Victoria
P 21 36 15

AUGUST 18
Montana earthquake
Banff
P 21 45 55

AUGUST 18
Resolute
eP 21 51 07

AUGUST 18
Montana earthquake
Banff
P 21 52 48
Horseshoe Bay
P 21 53 46
Victoria
P 21 53 39

AUGUST 18
Resolute
eP 22 07 13
e 22 07.6
e 22 09.6

AUGUST 18
Montana earthquake
Banff
P 23 24 50

AUGUST 18
Montana earthquake
Banff
P 23 48 17
Horseshoe Bay
P 23 48 46
Victoria
P 23 48 11

AUGUST 18
Montana earthquake
Banff
P 23 58 47

AUGUST 19
Resolute
eP 00 01 41.5
e 00 02.6

AUGUST 19
Montana earthquake
Banff
P 00 58 16
Victoria
P 00 58 31

AUGUST 19
Montana earthquake
Victoria
P 02 30 46

AUGUST 19
45N, 111 1/2W
Hebgen Lake aftershock
H = 04 04 03
Mag 6 (Berk.)
Alberni
iP 04 06 27.9
S 04 09 13.4
Banff
eP 04 04 54
Halifax
iP 04 10 48.5 c
eS 04 16 11
e 04 17.6
Horseshoe Bay
iP 04 06 12.9
Ottawa
eP 04 09 32
S 04 14 00
L 04 16 07
Resolute
eP 04 10 20.5
eS 04 15 20
L 04 18.2

Saskatoon
eP 04 06 20
e 04 08 16
Seven Falls
eP 04 10 00
S 04 14 46
Shawinigan Falls
eP 04 09 48
Victoria
iP 04 06 14.1 c,N,W
eS 04 08 25.3

AUGUST 19
Montana earthquake
Banff
P 04 05 49

AUGUST 19
Montana earthquake
Banff
P 05 35 49

AUGUST 19
Montana earthquake
Alberni
P 05 51 30
Banff
P 05 50 41
Horseshoe Bay
P 05 51 15
Victoria
P 05 51 16

AUGUST 19
Resolute
e 06 02 53
e 06 04 18

AUGUST 19
U.S.C.G.S.
21 1/2N, 121E
South of Formosa
H = 07 08 28
Resolute
iP 07 20 41 d
e 07 28 40

AUGUST 19
Montana earthquake
Banff
P 07 14 12
Victoria
P 07 14 39

AUGUST 19
Resolute
iP 08 13 58.5 d

AUGUST 19
Montana earthquake
Banff
P 09 09 05

AUGUST 19
Resolute
eP 09 23 (27)

AUGUST 19
Montana earthquake
Alberni
P 09 30 18
Banff
P 09 29 36
Victoria
P 09 30 06

AUGUST 19
Montana earthquake
Banff
P 11 05 23
Victoria
P 11 05 49

AUGUST 19
Resolute
e 11 17 27
e 11 19.5
e 11 21.4

AUGUST 19
Montana earthquake
Banff
P 11 22 08

AUGUST 19
U.S.C.G.S.
45.0N, 111.4W
Hebgen Lake aftershock
H = 19 06 29
Resolute
eP 19 12 47
P_cP 19 14 58
eS 19 18 10
e 19 22 19
eL 19 24.4

AUGUST 19
Montana earthquake
Victoria
P 19 08 40

AUGUST 19
Montana earthquake
Victoria
P 19 11 07

AUGUST 19
U.S.C.G.S.
45N, 110 1/2W
Hebgen Lake aftershock
H = 19 43 47.5
Alberni
P 19 46 20
Horseshoe Bay
P 19 46 07
Resolute
eS 19 55 11
eL 19 56 40
e 19 59.5
Victoria
P 19 46 05

AUGUST 19
U.S.C.G.S.
45N, 111 1/2W
Hebgen Lake aftershock
H = 21 45 57
Alberni
P 21 48 27
Horseshoe Bay
P 21 48 14
Resolute
eP 21 52 (14)
eS 21 57.2
e 22 01.2
eL 22 02.3
Victoria
P 21 48 10

AUGUST 20
U.S.C.G.S.
10 1/2S, 161 E
Solomon Islands
H = 01 59 06
Resolute
PS 02 26.8
SS 02 32.6
L 02 41.5

AUGUST 20
Montana earthquake
Victoria
P 07 13 31

AUGUST 20
U.S.C.G.S.
7S, 85W
Off coast of Peru
H = 07 18 34
Lillooet
eP 07 29 24
Ottawa
eP 07 27 50

Resolute
eP 07 30 53 (d)
eS 07 40.9
SS 07 46.3
SSS 07 49 (40)
eL 07 52.0
Seven Falls
eP 07 28 04
Shawinigan Falls
eP 07 28 03
Victoria
eP 07 29 14.3
eL 07 51.1

AUGUST 20
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 10 59 11
Resolute
e 11 13.7
e 11 15.0
eL 11 17.3
Saskatoon
iP 11 03 35 c
Victoria
eP 11 01 24.8
eS 11 04 02.2

AUGUST 20
U.S.C.G.S.
29S, 78E
Indian Ocean
H = 12 20 08
Resolute
eP' 12 39 48
PPPS 12 55.5
(S_cSS_cS) 13 02.1

AUGUST 20
Resolute
e 14 39 10
e 14 39 30

AUGUST 20
Montana earthquake
Banff
P 17 39 18

AUGUST 20
Resolute
eP 17 51 46

AUGUST 20
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 19 11 27
Alberni
iP 19 13 52.5
eS 19 16 38.1
Banff
eP 19 13 10
Resolute
eP 19 17 48
eL 19 23.7
Shawinigan Falls
eP 19 17 14
Victoria
iP 19 13 38.2
eS 19 16 07.6

AUGUST 20
Montana earthquake
Banff
P 22 57 10
Victoria
P 22 58 42

AUGUST 20
48°30'N, 123°39'W
South Vancouver Island
H = 23 07 19.6
Mag 1.8
Alberni
eP 23 07 38.9
iS 23 07 54.1
D = 120 km
Resolute
eP 23 12.42
Victoria
iP 23 07 22.3(c),S,W
iS 23 07 23.9
D = 17 km

AUGUST 21
U.S.C.G.S.
38 1/2N, 104E
Kansu Province, China
H = 07 13 19
Resolute
eP 07 24 09

AUGUST 21
U.S.C.G.S.
50 1/2S, 139 1/2E
Indian Ocean, south
of Australia
H = 08 03 15
Mag 5 3/4 - 6
Ottawa
eP_1' 08 23 17
Resolute
iP' 03 22 58 c
i 08 25 18
SS 08 45.5
Seven Falls
eP_1' 08 23 20

AUGUST 21
Montana earthquake
Banff
P 08 04 39

AUGUST 21
U.S.C.G.S.
50 1/2S, 140E
Indian Ocean, south
of Australia
H = 09 37 49
Ottawa
eP_1' 09 57 47

Resolute
iP' 09 57 32 c
Seven Falls
eP_1' 09 57 58

AUGUST 21
Montana earthquake
Banff
P 11 02 51

AUGUST 21
Banff
eP 13 09 27
Resolute
eP 13 23 (46)
e 13 23 56.5

AUGUST 21
Montana earthquake
Banff
P 15 34 26

AUGUST 21
Alberni
iP 17 52 49.3
iS 17 52 55.4
D = 50 km
Victoria
P 17 52 52
D = 68 km
Local shock

AUGUST 21
Montana earthquake
Banff
P 17 55 52

AUGUST 22
46°57'N, 70°47'W
In the St. Lawrence River, just east of the Island of Orleans, Que.
H = 03 52 30.4
Mag 3.2
Montreal
P_1 03 53 13.7
S_1 03 53 46.8
D = 271 km
Ottawa
S_1 03 54 27
D = 416 km
Seven Falls
P_1 03 52 33.5
S_1 03 52 35.9
D = 19.7 km
Shawinigan Falls
P_1 03 52 56.6
i 03 53 02.6
S_1 03 53 16.3
D = 161 km

AUGUST 22
Banff
iP 04 53 22.4
iS 04 53 42.0
D = 157 km
Local shock

AUGUST 22
Montana earthquake
Banff
P 06 58 54

AUGUST 22
Resolute
e 07 12 22
e 07 13 04

AUGUST 22
Montana earthquake
Banff
P 08 59 25

AUGUST 22
Resolute
e 09 13 (37)

AUGUST 22
Banff
eP 15 28 30

AUGUST 22
Resolute
e 15 43 12

AUGUST 22
Montana earthquake
Alberni
e 19 31 08.6
Banff
eP 19 27 40
Horseshoe Bay
e 19 30 37
Victoria
e 19 28 08.7

AUGUST 22
Resolute
e 19 42 04

AUGUST 22
U.S.C.G.S.
17 1/2S, 69 1/2W
Peru - Chile border
H = 21 18 02
h = 150 km
Banff
eP 21 39 55
Resolute
eP 21 41 05
Shawinigan Falls
eP 21 38 12
Victoria
e 21 40 08

AUGUST 22
48°33'N, 122°50'W
Whidbey Island
H = 23 42 54.2
Mag 2.3
Alberni
eP 23 43 21.4
S 23 43 43.2
D = 170 km
Horseshoe Bay
iP 23 43 10.8 d
iS 23 43 23.8
D = 104 km
Victoria
iP 23 43 02.4 d,S
iS 23 43 08.2
D = 52 km

AUGUST 23
Resolute
e 08 32 32

AUGUST 23
Alberni
iP 15 03 00.6
iS 15 03 16.9
Local shock

AUGUST 23
U.S.C.G.S.
35 1/2N, 3W
Mediterranean Sea,
north of Spanish Morocco
H = 22 21 30
Banff
eP 22 33 13
Ottawa
eP 22 30 58
Resolute
eP 22 31 (12)
eP 22 31 23
eS 22 39.1
SS 22 43.1
eL 22 48.0
Seven Falls
eP 22 30 30
Shawinigan Falls
iP 22 30 41 d

AUGUST 23
Montana earthquake
Alberni
eP 22 42 24.0
e 22 45 25
Banff
eP 22 41 38
Lillooet
eP 22 41 23
Victoria
iP 22 42 08.1 c
eS 22 44 33.9

AUGUST 23
Montana earthquake
Victoria
iP 22 57 12.7 d,S
i 22 57 20.3
i 22 57 24.7

AUGUST 24
Victoria
iP 01 05 25.0 d,S
iS 01 06 29.4
Local shock

AUGUST 24
Lillooet
eP 06 03 53
Victoria
eP 06 01 54 (c)

AUGUST 24
U.S.C.G.S.
53N, 159 1/2E
Kamchatka
H = 12 29 20
Alberni
eP 12 37 41
Banff
eP 12 38 11
Ottawa
eP 12 40 35
Resolute
iP 12 37 24 d
(P_cP) 12 39 11
L 12 47.2
Shawinigan Falls
eP 12 40 39
Victoria
eP 12 37 49 d

AUGUST 24
Montana earthquake
Alberni
e 15 13 08.7
Banff
eP 15 10 02
Horseshoe Bay
e 15 12 31
Lillooet
e 15 10 38
Victoria
eP 15 10 08.5
eS 15 12 35.9

AUGUST 24
U.S.C.G.S.
10 1/2S, 161 1/2E
Solomon Islands
foreshock
H = 15 41 40
Banff
eP 15 55 03
Ottawa
eP' 16 00 33
Resolute
SKS 16 06 22
eS 16 07 32
PS 16 09.2
e 16 09.8
SS 16 14.8
Victoria
eP 15 54 34

AUGUST 24
48° 04'N, 124°19'W
Olympic Mountains
H = 17 29 17
Mag 2.4
Alberni
eP 17 29 39.9
eS 17 29 56.0
D = 138 km
Horseshoe Bay
eP 17 29 43.7
eS 17 30 01.7
D = 162 km
Victoria
iP 17 29 31.3 d,N,W
S 17 29 44.1
D = 84 km

AUGUST 24
U.S.C.G.S.
10 1/2S, 161E
Solomon Islands
H = 21 30 46
Mag 7
Alberni
eP 21 43 36
Banff
eP 21 41 54
e 21 43 06
Halifax
eP' 21 49 56.5
PP 21 52 05
iSS 22 09 23
Horseshoe Bay
e 21 43 07
Ottawa
eP' 21 49 37
PP 21 51 08
PS 22 01 02
Resolute
eP 21 44 50
PP 21 49 10
SKS 21 55 40
iS 21 56 44
PS 21 58 18
iSS 22 04.1
iSSS 22 07.6
iL 22 13.8

Saskatoon
eP 21 55 18 (d)
Victoria
e 21 40 31
eP 21 42 58
e 21 43 01
e 21 43 44
iS 21 54 21
i 21 54 36

AUGUST 25
Horseshoe Bay
eP 00 49 25
Victoria
eP 00 49 26.8 c
e 00 49 58.0
eS 00 51 57.7

AUGUST 25
U.S.C.G.S.
Northern Chile
H = 12 24 18
Ottawa
eP 12 35 50
Resolute
eS 12 50 10
SS 12 57 18
(SSS) 13 01.5
Seven Falls
eP 12 35 59

AUGUST 25
U.S.C.G.S.
6 1/2S, 155E
Solomon Islands
H = 13 40 06
Ottawa
eP' 13 59 01 d
Resolute
PS 14 07.4
Shawinigan Falls
eP' 13 59 03 c

AUGUST 25
U.S.C.G.S.
27 1/2S, 71W
Northern Chile
H = 17 51 49
Ottawa
eP 18 03 16
Seven Falls
eP 18 03 26

AUGUST 25
Resolute
eP 22 24 25.5
iP 22 24 27
e 22 25 21
i 22 25 31
e 22 28.4

AUGUST 26
U.S.C.G.S.
5 1/2S, 153 1/2E
New Britain region
H = 04 53 00
Ottawa
eP' 05 11 57

AUGUST 26
Ottawa
iP 06 50 13 c

AUGUST 26
U.S.C.G.S.
18N, 94 1/2W
Vera Cruz, Mexico
H = 08 25 30
Alberni
iP 08 33 05 c
Banff
iP 08 32 43 d
e 08 34 12
Halifax
iP 08 32 43 c
ePP 08 34 10
iS 08 38 26
i(SS) 08 41 21

DOMINION OBSERVATORIES

Horseshoe Bay
iP 08 32 56 c
PP 08 33 13
Lillooet
iP 08 32 58 c
Ottawa
iP 08 31 54 c
S 08 36 50
SS 08 39 00
Resolute
eP 08 35 14 c
iP_cP 08 36 24
PP 08 37.4
PPP 08 38 42
iS 08 43 04
L 08 48.0
Saskatoon
iP 08 31 27 d
PP 08 32 29
S_cS 08 41 57
SS 08 38 59
Seven Falls
eP 08 32 24 c
S 08 37 51
Shawinigan Falls
iP 08 32 14 c
S 08 37 33
SS 08 40 46
Victoria
iP 08 32 55 c, W

AUGUST 26
U.S.C.G.S.
51N, 132W
Queen Charlotte Islands region
H = 10 27 41
Halifax
eP 10 36.0
ePPP 10 38 36
e 10 41 16
i(S) 10 42 24
i(SS) 10 45 31
Ottawa
eP 10 34 45
S 10 40 20
Resolute
iP 10 33 34.5 d
i 10 34 05.5
iS 10 38 36
iL 10 40 22

Seven Falls
eP 10 35 05
S 10 41 01
Shawinigan Falls
eP 10 34 57

AUGUST 26
Ottawa
iP 11 06 43 d
Shawinigan Falls
eP 11 06 40

AUGUST 26
Alberni
eP 11 33 52
Horseshoe Bay
eP 11 34 06 d
Lillooet
iP 11 35 13
Victoria
eP 11 34 13

AUGUST 26
Alberni
eP 11 49 57
Lillooet
iP 11 50 34 d
Victoria
eP 11 50 16

AUGUST 26
U.S.C.G.S.
50 1/2N, 130 1/2W
Queen Charlotte Islands region
H = 13 01 26
Alberni
iP 13 02 24.4
Banff
eP 13 03 47 c
Horseshoe Bay
iP 13 02 45 c
(PP) 13 04 13

Resolute
eP 13 07 (21)
eS 13 12 16
e 13 16 (14)
e 13 18 42
Saskatoon
eP 13 09 25
Victoria
eP 13 02 41.7 c, E

AUGUST 26
Alberni
iP 15 45 02.4
iS 15 45 15.5
Victoria
iP 15 44 49.9 c
iS 15 44 53.4
Local shock

AUGUST 26
Alberni
iP 16 44 15.9
Horseshoe Bay
iP 16 44 28.5

AUGUST 26
Alberni
eP 19 00 28

AUGUST 26
Alberni
iP 19 57 40.3
Horseshoe Bay
eP 19 57 52

AUGUST 27
U.S.C.G.S.
5S, 150 1/2E
New Britain region
H = 05 05 49
h = 300 km
Resolute
eP 05 01 06.5 (c)
iP 05 01 07 d

AUGUST 27
Alberni
e 06 35 06

AUGUST 27
U.S.C.G.S.
0, 122E
Northern Celebes
H = 07 50 28
h = 200 km
Ottawa
eP' 08 09 26
Resolute
sPS 08 18.3
SS 08 22.8
Seven Falls
eP' 08 09 26

AUGUST 27
Alberni
e 12 04 52.2
Banff
eP 12 01 25
Horseshoe Bay
eP 12 04 30
Victoria
eP 12 04 30.6

AUGUST 27
Alberni
eP 13 33 38.7
i 13 33 53.3
i 13 34 58.8
Horseshoe Bay
eP 13 33 46
Victoria
eP 13 33 57.5

AUGUST 27
Resolute
e 14 06 58
e 14 09 16
e 14 13.4
e 14 13 40

AUGUST 27
Resolute
i(P) 15 00 45 c

AUGUST 27
Alberni
e 21 04 34.6
Horseshoe Bay
eP 21 04 50

AUGUST 27
Montana earthquake
Alberni
e 23 38 49.5
Banff
eP 23 34 38
Horseshoe Bay
eP 23 37 (26)
Victoria
e(P) 23 38 37.2

AUGUST 27
Resolute
i 23 50 04

AUGUST 27
U.S.C.G.S.
25N, 96E
Northern Burma
H = 23 53 10
Resolute
eS 24 15.4
SS 24 20.5
L 24 25.2

AUGUST 28
U.S.C.G.S.
48N, 155E
Kurile Islands
H = 01 56 56
Ottawa
eP 02 08 51 d
Resolute
eP 02 05 46
eS 02 12.6

AUGUST 28
U.S.C.G.S.
9S, 158E
Solomon Islands
H = 02 37 00
h = 150 km
Resolute
SS 03 09.9
G 03 18.7

AUGUST 28
Alberni
iP 09 42 51.3

AUGUST 28
Alberni
eP 09 53 40.8

AUGUST 28
Lillooet
eP 10 25 16
Victoria
eP 10 25 54.8

AUGUST 28
U.S.C.G.S.
63 1/2N, 149W
Central Alaska
H = 12 07 44
Alberni
eP 12 12 12
Halifax
iP 12 16 34 c
Horseshoe Bay
iP 12 12 15 d
Lillooet
eP 12 12 37
Ottawa
iP 12 15 48 c
Resolute
eP 12 12 (32)
eS 12 16 32
eL 12 17.8

Saskatoon
iP 12 17 30 c
iS 12 21 56
Seven Falls
eP 12 15 54
Victoria
iP 12 12 24 c,S,E

AUGUST 28
Alberni
iP 15 24 09

AUGUST 28
U.S.C.G.S.
17S, 167E
New Hebrides Islands
H = 15 52 10
Resolute
eS 16 18.7
PS 16 20.5
PPS 16 21.8

AUGUST 28
Victoria
eP 21 21 54.2 c

AUGUST 29
U.S.C.G.S.
Solomon Islands region
H = 03 21 07
Resolute
e(SS) 03 54 18
eL 04 03.8

AUGUST 29
Alberni
e 06 06 25.4
Victoria
eP 06 06 35.2

AUGUST 29
Montana earthquake
Horseshoe Bay
e 08 18 52
Lillooet
eP 08 16 33
Victoria
eP 08 16 14.6
eP 08 16 16.2

AUGUST 29
U.S.C.G.S.
Solomon Islands
H = 10 52 27
Resolute
e 11 03 (42)

AUGUST 29
Montana earthquake
Lillooet
eP 12 54 32
Victoria
eP 12 54 15.8
eP 12 54 17.8
eP 12 54 22.3

AUGUST 29
U.S.C.G.S.
52N, 106 1/2E
Lake Baikal, U.S.S.R.
H = 17 03 10
Mag 6 1/2 - 6 3/4
Alberni
eP 17 14 22.8
Banff
iP 17 14 34 c
Halifax
iP 17 15 38 d
e 17 17 38
iS 17 25 57
e 17 28.0
eSS 17 31.0
eSSS 17 34.0
Horseshoe Bay
iP 17 14 23
Lillooet
iP 17 14 50

Ottawa
iP 17 15 35 d
pP 17 16 10
S 17 25 48
SS 17 31 20
Resolute
iP 17 12 24 d
P_cP 17 13 38
PP 17 14 16
iS 17 19 50
SS 17 23 44
L 17 27.2
Saskatoon
iP 17 14 34
e 17 24 51
Seven Falls
P 17 15 26
S 17 25 34
Victoria
iP 17 14 29.2 d,N,W

AUGUST 30
U.S.C.G.S.
8S, 156 1/2E
Solomon Islands
H = 02 53 08
Alberni
e 03 07 31
Horseshoe Bay
eP 03 07 47
PP 03 09 49
Lillooet
eP 03 07 53
Victoria
eP 03 07 49.6
e 03 08 11.2
e 03 09 21.2

AUGUST 30
U.S.C.G.S.
35 1/2N, 3W
Mediterranean Sea,
north of Spanish
Morocco
H = 03 24 54
Ottawa
eP 03 34 23

Resolute
eS 03 42 32
Seven Falls
eP 03 33 56

AUGUST 30
Alberni
e 06 01 33.7

AUGUST 30
U.S.C.G.S.
63N, 150W
Central Alaska
H = 13 44 07
Alberni
eP 13 48 38
Horseshoe Bay
eP 13 48 33
Resolute
e(P) 13 49 00
eS 13 52 52
eL 13 55 46
Victoria
eP 13 48 46.9 d

AUGUST 30
Resolute
eP 14 48 36.5 d
iP 14 48 37 c
e 14 56 08

AUGUST 30
Alberni
iP 16 23 50.4
Horseshoe Bay
iP 16 24 05
Lillooet
eP 16 24 07
Victoria
iP 16 24 04.5 d,W

AUGUST 30
U.S.C.G.S.
36 1/2S, 78 1/2E
Indian Ocean
H = 21 45 07
Halifax
iP_2' 22 05 09 (d)
e 22 06 37
eSS 22 28 07
eL 22 59.6
Resolute
eP' 22 04 55
e 22 06 15
(PKS) 22 08 24
(SKS) 22 12.2
(SKKS) 22 14 36
SKSP 22 18 06
PPS 22 20.3
PPPS 22 21.2
SS 22 25.8

AUGUST 30
U.S.C.G.S.
37N, 68 1/2E
Afghanistan - Tadzhik border
H = 22 57 00
Resolute
eP 23 08 06

AUGUST 30
U.S.C.G.S.
53N, 106E
Lake Baikal aftershock
H = 23 36 42
Ottawa
eP 23 49 05
Resolute
iP 23 45 53.5 c
eP 23 46 01
e 23 46 30
Seven Falls
eP 23 48 57

AUGUST 31
Montana earthquake
Horseshoe Bay
eP 01 59 17
Lillooet
eP 01 58 25
Victoria
eP 01 58 27.5

AUGUST 31
Alberni
e(P) 03 13 11.7
e 03 17 07.9

AUGUST 31
Lillooet
eP 06 15 33

AUGUST 31
U.S.C.G.S.
52 1/2N, 171W
Fox Islands, Aleutian Islands
H = 09 05 56
Alberni
iP 09 12 02
Banff
iP 09 12 42 c
Horseshoe Bay
eP 09 12 02
Ottawa
iP 09 15 54 c
Resolute
eP 09 13 04
e 09 13 46
P_cP 09 15 28
L 09 21.3
Seven Falls
eP 09 16 02
Victoria
iP 09 12 10.9 c,N,E

AUGUST 31
Resolute
e 14 17 28
e 14 21.0

DOMINION OBSERVATORIES

SEPTEMBER 1
Resolute
i(P) 00 20 20
i 00 22 12

SEPTEMBER 1
U.S.C.G.S.
11S, 74 1/2W
Peru
H = 00 52 04
Halifax
P 01 01 50
eS 01 09 40
Lillooet
eP 01 03 46
Ottawa
eP 01 01 48
Resolute
eP 01 04 55
eS 01 15 26
(PS) 01 16 50
(SS) 01 20 44
L 01 32.8
Seven Falls
eP 01 02 01

SEPTEMBER 1
Resolute
e 01 13 40

SEPTEMBER 1
Halifax
P 07 33 04
i 07 36.9
Ottawa
eP 07 34 09
Resolute
e(P) 07 34 (35)
e(S) 07 39 46
eL 07 42.0
Seven Falls
eP 07 33 33

SEPTEMBER 1
U.S.C.G.S.
20N, 64 1/2W
North of Puerto Rico
H = 10 49 43
Alberni
eP 10 59 22
Banff
eP 10 58 42
Halifax
iP 10 55 10
iS 10 59 33
Lillooet
iP 10 59 11 d
Ottawa
eP 10 55 29
Resolute
eP 10 59 34
eP 10 59 41
PP 11 01 33
eS 11 07 14
SS 11 11 32
eL 11 15.5
Seven Falls
eP 10 55 36
Victoria
eP 10 59 23 (d)

SEPTEMBER 1
U.S.C.G.S.
41 1/2N, 20E
Albania
H = 11 37 42
Alberni
e 11 50 19.1
Banff
eP 11 49 57 d
Halifax
iP 11 47 40 c
eS 11 55 43
Horseshoe Bay
iP 11 50 14 d
Lillooet
eP 11 50 27 c
Ottawa
eP 11 48 28
Resolute
eP 11 47 28.5 c
iP 11 47 29 d
iP 11 47 40
iP_cP 11 48 16
PP 11 49 14
eS 11 55.4
S_cS 11 57 18
L 12 01.5
Saskatoon
eL 12 13 16
Seven Falls
eP 11 48 02 c
Victoria
iP 11 50 21 c, NE

SEPTEMBER 1
Resolute
iP 14 28 59 c

SEPTEMBER 1
Montana earthquake
Banff
eP 19 21 05
Horseshoe Bay
eP 19 23 45
Lillooet
eP 19 23 01
Resolute
e 19 31 (21)
Victoria
eP 19 23 59

SEPTEMBER 1
Montana earthquake
Banff
eP 20 34 07
Lillooet
eP 20 35 30.5

SEPTEMBER 1
Resolute
e 20 48 (25)

SEPTEMBER 2
Lillooet
eP 01 58 17

SEPTEMBER 2
47.9N, 123.0W
Olympic Mountains
H = 02 35 44
Mag 2.5
Alberni
eP 02 36 21.0
S 02 36 43.2
D = 241 km
Horseshoe Bay
iP 02 36 09.7 c
iS 02 36 24.2
D = 160 km
Victoria
iP 02 35 55.2 c,SW
iS 02 36 03.7
D = 69 km

SEPTEMBER 2
Lillooet
eP 05 29 05

SEPTEMBER 2
U.S.C.G.S.
60N, 151W
Kenai Peninsula
H = 08 03 00
Alberni
eP 08 07 19.8
Banff
eP 08 07 52
Horseshoe Bay
iP 08 07 24 d
Lillooet
eP 08 07 21
Ottawa
eP 08 11 18
Resolute
eP 08 08 (25)
iP 08 08 43
iS 08 13 09
L 08 18.3
Victoria
eP 08 07 24 d

SEPTEMBER 2
U.S.C.G.S.
20N, 65W
Puerto Rico
aftershock
H = 09 31 36
Halifax
iP 09 37 01
Ottawa
eP 09 37 22
Resolute
eS 09 49.4
eL 10 01.8
Seven Falls
eP 09 37 28

SEPTEMBER 2
U.S.C.G.S.
55N, 164E
Near east coast of
Kamchatka
H = 12 52 20
Resolute
eS 13 06 20
eL 13 09.2
S_cS 13 10.1

SEPTEMBER 2
Resolute
e 22 22 38
e 22 24.2

SEPTEMBER 3
U.S.C.G.S.
41N, 20E
Albania
H = 04 02 00
Resolute
eP 04 12 16
eS 04 19.8

SEPTEMBER 3
U.S.C.G.S.
4 1/2S, 123E
Celebes Islands
H = 06 27 30
Halifax
PP 06 50 02
PKS 06 50 40
Ottawa
eP' 06 46 57
Resolute
PP 06 46 (12)
e 06 46 28
PPP 06 48 16
SKS 06 52 24
eS 06 53.7
e 06 54 42
PS 06 55 28
(PPS) 06 56 40
SS 07 01.3
L 07 14.0

SEPTEMBER 3
U.S.C.G.S.
15S, 175 1/2W
Fiji Islands region
H = 21 48 56
Resolute
PS 22 16 08
SS 22 21 44
(PSPS) 22 22 28

SEPTEMBER 4
Resolute
e 00 40 32
e 00 45.0

SEPTEMBER 4
U.S.C.G.S.
4 1/2S, 152E
New Britain
H = 03 52 55
Ottawa
eP' 09 11 43
Resolute
eP 09 07 18

DOMINION OBSERVATORIES

SEPTEMBER 4
U.S.C.G.S.
31 1/2S, 177W
Kermadec Islands
H = 12 30 00
Resolute
eS 12 58.1
SS 13 06 20

SEPTEMBER 4
Resolute
e 16 58.3
e 16 58 30

SEPTEMBER 4
U.S.C.G.S.
21 1/2N, 142E
Mariana Islands
H = 17 47 15
Resolute
eP 17 58 49

SEPTEMBER 4
U.S.C.G.S.
1S, 24W
Atlantic Ocean
H = 18 26 41
Ottawa
eP 18 37 24
Resolute
eP 18 39 24 d
iP 18 39 24.5 c
Seven Falls
eP 18 37 08

SEPTEMBER 4
U.S.C.G.S.
52 1/2N, 168 1/2W
Fox Islands,
Aleutian Islands
H = 19 22 32
Resolute
eP 19 29 (34)

SEPTEMBER 4
U.S.C.G.S.
47S, 75W
Near coast of
Southern Chile
H = 23 22 56
Resolute
SS 24 00.1
SSS 24 04 38
G 24 13.5

SEPTEMBER 5
Resolute
eP 01 36 (25)

SEPTEMBER 5
U.S.C.G.S.
1N, 129E
Halmahera Island
region
H = 06 07 38
Halifax
PKS 06 30 32
Ottawa
eP' 06 26 48
Resolute
eP 06 21 32
iP 06 21 36
PP 06 25 34
SKS 06 32 08
S 06 33.2
PS 06 34 36
SS 06 39.6
G 06 49.7
Seven Falls
eP' 06 28 58

SEPTEMBER 5
U.S.C.G.S.
62S, 156E
Balleny Islands
region
H = 07 00 26
Ottawa
eP_1' 07 20 13
Resolute
eP' 07 20 40

SEPTEMBER 5
Victoria
iP 11 40 52

SEPTEMBER 5
Montana earthquake
Banff
eP 12 05 24
Horseshoe Bay
eP 12 08 41
Lillooet
eP 12 07 46
Victoria
eP 12 08 27

SEPTEMBER 5
Resolute
eP 12 19 (24)
i 12 19 39
e 12 19 40

SEPTEMBER 5
Ottawa
eP 15 50 11

SEPTEMBER 5
U.S.C.G.S.
1N, 129E
Halmahera aftershock
H = 15 34 44
Ottawa
eP' 15 53 59
Resolute
eP 15 48 33
e 15 50 (15)
e 15 58 46
eSKS 15 59 18
eS 16 00.1
PS 16 01 32
SS 16 06.8

SEPTEMBER 5
Montana earthquake
Banff
eP 18 12 34

SEPTEMBER 5
Lillooet
eP 18 15 46

SEPTEMBER 5
U.S.C.G.S.
51 1/2N, 179 1/2E
Rat Islands, Aleutian Islands
H = 21 12 02
Resolute
eP 21 19 (41)
iP 21 19 46
e 21 20 31
PPP 21 21 44
eS 21 26 08
L 21 34.2
Victoria
eP 21 35 33

SEPTEMBER 5
U.S.C.G.S.
51N, 179 1/2E
Rat Islands, Aleutian Islands
H = 21 28 42
Resolute
eP 21 36 (23)
(PP) 21 37 38
(PPP) 21 38 24
eS 21 42 33
L 21 45.5

SEPTEMBER 5
U.S.C.G.S.
51 1/2N, 179 1/2E
Rat Islands, Aleutian Islands
H = 21 53 22
Resolute
eP 22 01 02

SEPTEMBER 5
Alberni
iP 23 16 26.8
Horseshoe Bay
iP 23 16 31.4
Lillooet
iP 23 16 43 c
Victoria
iP 23 16 28.0 c,NW

SEPTEMBER 5
U.S.C.G.S.
18S, 178 1/2W
Fiji Islands
H = 23 05 00
Banff
iP 23 16 55 d

SEPTEMBER 6
U.S.C.G.S.
5 1/2N, 126 1/2E
Near south coast of Mindanao, Philippine Islands
H = 00 27 59
Ottawa
eP' 00 47 06
Resolute
eP 00 41 (29)
iP 00 41 34
eS 00 52 46
L 01 05.5
Seven Falls
eP' 00 47 06

SEPTEMBER 6
H = 01 17 50
Mag 1.7
Banff
iP 01 17 54.2
iS 01 17 57.6
Local shock

SEPTEMBER 6
Resolute
e(P) 03 58 (46)
i(P) 03 59 04
e 04 08.2

SEPTEMBER 6
U.S.C.G.S.
10S, 160 1/2E
Solomon Islands
H = 04 10 54
Lillooet
eP 04 33 58
Resolute
PS 04 38 37
SS 04 44.5
e 04 46 42
G 04 54.2
Victoria
eP 04 33 47.5
e 04 36 34

SEPTEMBER 6
Resolute
i(P) 07 13 59 d

SEPTEMBER 6
Victoria
iP 11 37 43.6 c
S 11 40 20

SEPTEMBER 6
West central U.S.A.
Banff
iP 14 37 19.6
iS 14 39 13
D = 934 km
Horseshoe Bay
eP 14 37 52.3
Victoria
eP 14 37 50.3
eS 14 40 25
D = 1186 km

SEPTEMBER 6
Peru - Bolivia
border region
H = 18 55 09
h = 150 km
Ottawa
eP 19 05 54
Resolute
eG 19 41 10
Seven Falls
eP 19 06 04

SEPTEMBER 7
U.S.C.G.S.
1S, 23 1/2W
Atlantic Ocean
H = 04 03 20
Ottawa
eP 04 14 05
Resolute
eP 04 16 (06)
Seven Falls
eP 04 13 52

SEPTEMBER 7
Banff
eP 06 44 41
e 06 46 34
Horseshoe Bay
eP 06 (57) -- c
(PP) 06 (59) --
(PPP) 07 (00) --
Victoria
eP 07 00 09 (c)

SEPTEMBER 7
Banff
eP 11 41 05
Resolute
e 11 49 18
e 11 54.9
e 11 55.6

SEPTEMBER 7
Montana earthquake
Banff
eP 14 43 56
iS 14 45 46
Victoria
eP 14 44 19

SEPTEMBER 8
45N, 111 1/2W
Yellowstone aftershock
H = 07 09 48
Alberni
eP 07 (11) --
Banff
eP 07 11 31
eS 07 13 24
Horseshoe Bay
iP 07 12 03
iS 07 14 34
Resolute
eL 07 26 46
Victoria
eP 07 12 00
iP 07 12 01 c
S 07 14 26

SEPTEMBER 8
U.S.C.G.S.
36 1/2N, 140E
Honshu, Japan
H = 10 03 29
h = 100 km
Resolute
iP 10 13 53 d

SEPTEMBER 8
U.S.C.G.S.
42 1/2N, 142 1/2E
Hokkaido Japan
H = 19 19 39
Banff
eP 19 30 13
Horseshoe Bay
eP 19 29 52
Resolute
eP 19 29 (18)
eS 19 37 08
(S_cS) 19 39 03
G 19 43.3
Victoria
eP 19 29 54

SEPTEMBER 9
U.S.C.G.S.
Near east coast of
Kamchatka
H = 01 50 05
Resolute
eS 02 03.3
eL 02 07 20

SEPTEMBER 9
Canadian Arctic
H = 09 55 56.6
Mag 1.8
Resolute
P_1 09 56 06.5
S_1 09 56 14.0
D = 61.5 km

SEPTEMBER 10
48°18'N, 124°30'W
Olympic Mountains
H = 02 27 14
Mag 1.9
Horseshoe Bay
iP 02 27 35.1 d
iS 02 27 54.6
D = 152 km
Victoria
iP 02 27 24.5 d,(S),W
iS 02 27 34.0
D = 86 km

SEPTEMBER 10
U.S.C.G.S.
6 1/2S, 154 1/2E
Solomon Islands
H = 05 35 04
Banff
iP 05 48 28 d

Halifax
iP' 05 54 14 c
Horseshoe Bay
iP 05 48 03 c
Ottawa
eP' 05 53 59
Resolute
PS 06 02 28
PPS 06 03.2
SS 06 07.4
G 06 18.0
Seven Falls
iP' 05 54 02 c
Victoria
eP 05 48 03

SEPTEMBER 10
Resolute
e 07 39 26
e 07 40.8
e 07 44.5
e 07 47.1

SEPTEMBER 10
Horseshoe Bay
eP 08 48 14
Victoria
eP 08 47 29

SEPTEMBER 10
Horseshoe Bay
eP 09 32 13 c
Victoria
eP 09 32 05

SEPTEMBER 10
U.S.C.G.S.
45 1/2N, 148 1/2E
Kurile Islands
H = 15 43 28
Resolute
iP 15 52 49.5 d
eL 16 06.8

SEPTEMBER 10
Montana earthquake
Banff
eP 16 01 59

SEPTEMBER 10
Victoria
eP 17 05 20

SEPTEMBER 10
Horseshoe Bay
eP 18 52 55
Victoria
eP 18 50 (52)

SEPTEMBER 10
U.S.C.G.S.
47N, 152E
Kurile Islands
H = 22 56 34
Resolute
eP 23 05 39
eS 23 12 47
SS 23 16.0

SEPTEMBER 11
U.S.C.G.S.
44 1/2N, 112W
Hebgen Lake aftershock
H = 11 05 33
Horseshoe Bay
eP 11 07 51
eS 11 10 30
Victoria
eP 11 07 38

SEPTEMBER 11
Resolute
e 12 40 40
e 12 45 14
e 12 45 26
eL 12 48.1

SEPTEMBER 11
U.S.C.G.S.
42 1/2N, 29 1/2W
North of Azores Islands
H = 14 18 07
Halifax
iP 14 23 37 d

SEPTEMBER 11
U.S.C.G.S.
12N, 87 1/2W
Near coast of
Nicaragua
H = 23 08 38
Ottawa
iP 23 15 32

SEPTEMBER 12
U.S.C.G.S.
20S, 68W
Southern Bolivia
H = 01 41 03
h = 150 km
Ottawa
eP 01 51 38
i 01 52 05
Resolute
eS 02 05.5
sS 02 06 20
(SS) 02 11.5
Seven Falls
eP 01 51 48
i 01 52 15
Victoria
eP 01 53 22 d
eS 02 07 10

SEPTEMBER 12
U.S.C.G.S.
3S, 146 1/2E
Bismarck Sea
H = 01 53 47
Banff
eP 02 07 22
Horseshoe Bay
eP 02 07 03 d

DOMINION OBSERVATORIES

Ottawa
eP' 02 13 01
Resolute
e 02 14 28
SKS 02 18 12
eS 02 19.2
PS 02 20.9
SS 02 26 20
eL 02 33.7
Victoria
eP 02 07 11 d
PP 02 10 55
S 02 19 36
PS 02 24 32
eL 02 35 30

SEPTEMBER 12
U.S.C.G.S.
3S, 146 1/2E
Bismarck Sea
H = 07 01 45
Resolute
SKS 07 26 08
S 07 27.1
SS 07 34 12
e 07 37.1
L 07 42.6
Victoria
e 07 14 58

SEPTEMBER 12
U.S.C.G.S.
9 1/2S, 156E
Solomon Islands region
H = 11 24 27
Ottawa
eP' 11 43 27
Resolute
SKS 11 49.2
S 11 50 24
PS 11 51.8
SS 11 57 20
L 12 06.0

SEPTEMBER 12
U.S.C.G.S.
17 1/2N, 106W
Off coast of Jalisco, Mexico
H = 16 59 05
Ottawa
eP 17 06 25
Resolute
eL 17 23 22

SEPTEMBER 12
U.S.C.G.S.
36N, 71E
Hindu Kush
H = 21 19 57
h = 200 km
Horseshoe Bay
iP 21 32 54
Ottawa
eP 21 32 54
Resolute
(PP) 21 33.7
S 21 39.5
Victoria
eP 21 32 58

SEPTEMBER 13
Canadian Arctic
H = 03 25 57.7
Mag 2.5
Resolute
P_1 03 26 28.0
S_1 03 26 51.0
D = 189 km

SEPTEMBER 13
Victoria
eP 13 28 29

SEPTEMBER 13
Ottawa
eP 18 21 29
Seven Falls
eP 18 21 13

SEPTEMBER 13
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 19 49 36
Horseshoe Bay
iP 19 51 54
e 19 54 31
Ottawa
eP 19 55 04
Resolute
eS 20 00.8
eL 20 05.6
Saskatoon
eP 19 52 13
Victoria
iP 19 51 52 d,SE
iS 19 54 25

SEPTEMBER 13
U.S.C.G.S.
45N, 110 1/2W
Hebgen Lake aftershock
H = 20 40 41
Banff
iP 20 42 29
Horseshoe Bay
iP 20 43 00
iS 20 45 38
Saskatoon
iP 20 42 43
Victoria
eP 20 42 57 d
e 20 45 30

SEPTEMBER 13
U.S.C.G.S.
45N, 111W
Hebgen Lake
aftershock
H = 21 23 31
Banff
eP 21 25 16
Horseshoe Bay
eP 21 25 48
eS 21 28 24
Resolute
eS 21 35 10
iL 21 39 32
Saskatoon
iP 21 27 32 c
Victoria
iP 21 25 44 d,S,E
iS 21 28 18

SEPTEMBER 13
U.S.C.G.S.
1N, 129E
Halmahera Island
region
H = 22 40 36
Resolute
SKS 23 05 02
S 23 05 42
PS 23 07.5
(PPS) 23 08.3
SS 23 12 42
L 23 27.6

SEPTEMBER 13
U.S.C.G.S.
45N, 111W
Hebgen Lake
aftershock
H = 23 39 46
Banff
eP 23 41 30

SEPTEMBER 14
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 06 22 59
Banff
eP 06 24 44
Horseshoe Bay
eP 06 27 56

SEPTEMBER 14
U.S.C.G.S.
Northern Mariana
Islands
H = 08 42 56
Banff
eP 08 55 17
Horseshoe Bay
iP 08 54 53 d

SEPTEMBER 14
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 09 34 52
Alberni
eP 09 37 33
iS 09 40 16
Banff
iP 09 36 37
Horseshoe Bay
iP 09 37 09
e 09 39 48
e 09 40 26
Ottawa
eP 09 40 20
Resolute
eS 09 46 22
iL 09 50.6
Saskatoon
eP 09 37 13
iS 09 38 54
Victoria
eP 09 37 06 c,S
S 09 39 42

SEPTEMBER 14
Horseshoe Bay
eP 10 01 19

SEPTEMBER 14
Horseshoe Bay
eP 11 16 19

SEPTEMBER 14
U.S.C.G.S.
24S, 176 1/2W
Tonga Islands region
H = 13 15 49
Mag 5 3/4 - 6
Banff
eP 13 29 04
Horseshoe Bay
eP 13 28 41
Resolute
eS 13 42.7
PS 13 44 32
SS 13 50.2

SEPTEMBER 14
U.S.C.G.S.
28 1/2S, 177W
Kermadec Islands
H = 14 09 39
Mag 7 3/4
Alberni
iP 14 22 45 c
Banff
eP 14 23 11
Halifax
iP' 14 28 44
Horseshoe Bay
iP 14 22 48
Ottawa
eP' 14 28 27
Resolute
iP' 14 28 17 d
P' 14 28 35
PP 14 29 23
i 14 30 24
SKS 14 35.2
eS 14 37 18
PS 14 39 10
SS 14 45 38
SSS 14 49 20
L 14 56.7

Saskatoon
eP 14 24 39
S 14 35 24
SS 14 42 10
Seven Falls
eP' 14 28 34 c
Victoria
iP 14 22 44 c,N,E
PP 14 26 39
S 14 32 54
PS 14 35 34
SS 14 39 55

SEPTEMBER 14
Banff
eP 14 47 10
Horseshoe Bay
iP 14 46 53
Ottawa
eP 14 47 19 c

SEPTEMBER 14
U.S.C.G.S.
28 1/2S, 176 1/2W
Kermadec aftershock
H = 14 58 40
Ottawa
eP' 15 17 31

SEPTEMBER 14
U.S.C.G.S.
29S, 176 1/2W
Kermadec Islands
aftershock
H = 17 06 15
Resolute
e(S) 17 33.9
PS 17 35 40
PPS 17 37.0
SS 17 42.1
Victoria
P 17 19 20 d,S,E

SEPTEMBER 14
U.S.C.G.S.
46N, 151 1/2E
Kurile Islands
H = 17 22 28
Banff
eP 17 32 21

SEPTEMBER 14
U.S.C.G.S.
29S, 177W
Kermadec aftershock
H = 22 23 53
Mag 6 1/2
Alberni
eL 22 47 58
Horseshoe Bay
eP 22 37 01
Resolute
PP 22 43.6
SKS 22 49.4
SKKS 22 50 43
eS 22 51.4
PS 22 53 14
SS 22 58 42
SSS 23 03.4
Victoria
eP 22 36 58 c,N

SEPTEMBER 15
U.S.C.G.S.
28 1/2S, 177W
Kermadec aftershock
H = 05 59 42
Mag 6 1/2 - 6 3/4
Banff
eP 06 13 10
Horseshoe Bay
iP 06 12 46 c
Ottawa
eP' 06 18 26

Resolute
eP 06 14 (22)
eP' 06 18.0
PP 06 19 20
e 06 24.0
SKS 06 25 20
S 06 27 17
PS 06 29 02
SS 06 35.5
SSS 06 39 10
L 06 47.0
Saskatoon
eS 06 25 08
Victoria
eP 06 12 40 d,N,W
PP 06 15 16'
PPP 06 17 06
SKS 06 19 44
SKKS 06 21 50

SEPTEMBER 15
U.S.C.G.S.
28 1/2S, 176 1/2W
Kermadec aftershock
H = 06 17 28
Horseshoe Bay
eP 06 30 29
Victoria
eP 06 30 34 c

SEPTEMBER 15
U.S.C.G.S.
21 1/2S, 179 1/2W
Fiji Islands region
H = 11 05 33
h = 600 km
Mag 6 1/2
Banff
iP 11 17 43 d
Halifax
(iP') 11 23 26 c
i 11 25 16 c
Ottawa
eP' 11 23 10
i 11 24 17
SKSP 11 34 00

Resolute
SKS 11 28 42
eS 11 30 20
(PS) 11 33 (21)
sS 11 34.3
SS 11 38 24
sSS 11 41 46
e 11 45 50
(SKPP') 11 46.1
e 11 48.2
Seven Falls
eP' 11 23 17
Victoria
iP 11 17 17 c,S,E
e 11 19 26
e 11 19 44
iS 11 27 09
PPS 11 28 09

SEPTEMBER 15
U.S.C.G.S.
43N, 147E
Near east coast of
Hokkaido, Japan
H = 15 08 23
h = 100 km
Resolute
iP 15 17 53 d

SEPTEMBER 16
Resolute
eP 03 02 (44)

SEPTEMBER 16
Banff
iP 04 46 41 c

SEPTEMBER 16
U.S.C.G.S.
35 1/2N, 26E
Near coast of Crete
H = 05 13 50
Ottawa
iP 05 25 22 d
Resolute
eP 05 24 24 c
iP 05 24 24.5 d

Seven Falls
eP 05 25 00 d

SEPTEMBER 16
U.S.C.G.S.
29S, 176 1/2W
Kermadec aftershock
H = 10 07 45
Resolute
PS 10 37.3
e(L) 11 10.2

SEPTEMBER 16
U.S.C.G.S.
28 1/2S, 176W
Kermadec aftershock
H = 15 57 03
Mag 5 3/4 - 6
Resolute
eS 16 24 42
PS 16 26 20
SS 16 32.4
(SSS) 16 36 36
e 16 39.7
L 16 43.2
Victoria
eP 16 10 10 c

SEPTEMBER 16
Horseshoe Bay
iP 17 21 24
Victoria
eP 17 21 21 d

SEPTEMBER 16
U.S.C.G.S.
7N, 77 1/2W
Panama - Colombia
border
H = 19 14 53
Ottawa
eP 19 22 18

SEPTEMBER 16
Canadian Arctic
H = 19 55 49
Mag 0.8
Resolute
P_1 19 55 51
S_1 19 55 52.5
D = 12.3 km

SEPTEMBER 16
Canadian Arctic
H = 20 24 40
Mag 1.0
Resolute
P_1 20 24 42
S_1 20 24 43.5
D = 12.3 km

SEPTEMBER 16
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 21 15 28
Banff
eP 21 17 11
eS 21 19 05
Horseshoe Bay
eP 21 17 39
Victoria
iP 21 17 36 c,N,W
S 21 19 52

SEPTEMBER 17
U.S.C.G.S.
45N, 112W
Hebgen Lake aftershock
H = 00 25 31
Banff
eP 00 27 12
Horseshoe Bay
eP 00 27 39
S 00 30 10
Victoria
eP 00 27 34 c
S 00 29 58

DOMINION OBSERVATORIES

SEPTEMBER 17
Montana aftershock
Victoria
eP 03 01 37
e 03 04 02

SEPTEMBER 17
Montana aftershock
Banff
e 04 41 36
e 04 43 17
Horseshoe Bay
eS 04 41.5
Victoria
eP 04 41 50
eS 04 44 12

SEPTEMBER 17
Banff
eP 06 53 21

SEPTEMBER 17
U.S.C.G.S.
28 1/2S, 176W
Kermadec aftershock
H = 14 36 11
Mag 5 3/4 - 6
Alberni
eP 14 49 59
Resolute
eS 15 03 44
PS 15 05 49
SS 15 11.9
(SSS) 15 15 40
L 15 23.0
Victoria
eP 14 49 15

SEPTEMBER 17
U.S.C.G.S.
13 1/2N, 88 1/2W
El Salvador
H = 21 24 27
h = 60 km
Banff
iP 21 32 27 d
Halifax
iP 21 31 45 d
S_cS 21 41 26
Horseshoe Bay
iP 21 32 42 d
Ottawa
eP 21 31 07 c
Resolute
eP 21 34 37 c
iP 21 34 38 d
eS 21 43.1
SS 21 47.3
L 21 49.1
Victoria
eP 21 32 40 c
eS 21 34 20

SEPTEMBER 17
U.S.C.G.S.
30 1/2N, 114W
Gulf of California
H = 22 14 40
Mag 5 1/4
Alberni
eP 22 19 17
Banff
eP 22 19 25
Horseshoe Bay
eP 22 19 16
Ottawa
eP 22 21 22
Resolute
e 22 32.2
S_cS 22 33 02
eL 22 35.3
Victoria
iP 22 19 12
e 22 19 57
S 22 24 52

SEPTEMBER 18
U.S.C.G.S
28 1/2S, 176 1/2W
Kermadec aftershock
H = 09 24 35
Resolute
eS 09 52.4
PS 09 54 08
SS 10 00.5
(SSS) 10 04 12

SEPTEMBER 18
U.S.C.G.S.
57 1/2S, 24W
Sandwich Islands
H = 12 01 11
Ottawa
eP' 12 19 14
Resolute
eP' 12 20 (29)
PP 12 23.4
PKS 12 24.2
e 12 32 36
SKSP 12 33 40
SS 12 42.1

SEPTEMBER 20
U.S.C.G.S.
13 1/2S, 111 1/2W
Pacific Ocean, north of Easter Island
H = 06 07 59
Halifax
eS 06 28 53
Ottawa
eP 06 19 01
Resolute
eS 06 31 40
SS 06 37 42
PSPS 06 38 15
SSS 06 41 32
L 06 43.6

SEPTEMBER 20
Resolute
iP 17 30 14 d

SEPTEMBER 20
U.S.C.G.S.
22 1/2S, 67 1/2W
Chile - Bolivia border
H = 23 17 34
h = 150 km
Ottawa
eP 23 28 25
Seven Falls
eP 23 28 36
Shawinigan Falls
eP 23 28 32

SEPTEMBER 21
U.S.C.G.S.
9 1/2S, 149E
Near coast of New Guinea
H = 02 08 28
Ottawa
eP' 02 27 36
Resolute
PS 02 36 15
SS 02 42.3
e 02 43.6
Shawinigan Falls
eP' 02 27 36

SEPTEMBER 21
U.S.C.G.S.
40N, 74 1/2E
Kirghiz S.S.R.
China border
H = 12 19 30
Horseshoe Bay
iP 12 32 28 d
Victoria
iP 12 31 34 d

SEPTEMBER 21
U.S.C.G.S.
10S, 120E
Sumba Island
H = 13 09 36
Halifax
eP' 13 29 17.8 c
iP' 13 29 18.0 d

SEPTEMBER 21
U.S.C.G.S.
62 1/2N, 159W
Southwestern Alaska
H = 16 16 19
Banff
eP 16 22 23
Horseshoe Bay
eP 16 21 29
Resolute
eS 16 26 16
e 16 28.3
Victoria
eP 16 20 36
eL 16 29 —

SEPTEMBER 21
Halifax
i 21 45 11

SEPTEMBER 22
U.S.C.G.S.
53 1/2N, 166W
Fox Island,
Aleutian Islands
H = 07 45 55
Ottawa
eP 07 55 32
Resolute
eS 07 58.4
eL 08 01.0
Victoria
eP 07 50 46

SEPTEMBER 22
Local shock
H = 21 31 24
Banff
iP 21 31 32.3
iS 21 31 38.9
D = 54 km

SEPTEMBER 23
U.S.C.G.S.
83 1/2N, 113 1/2E
North Polar region
H = 10 38 59
Ottawa
eP 10 48 02
Resolute
eP 10 43 (45)
eP 10 44 03
eS 10 47 45
e 10 48.7

SEPTEMBER 23
U.S.C.G.S.
35 1/2N, 138 1/2E
Honshu, Japan
H = 22 23 11
Ottawa
eP 22 36 34
Resolute
eP 22 33 45
eS 22 42.6
S_cS 22 43 40
SS 22 46 28
L 22 52.2

SEPTEMBER 24
U.S.C.G.S.
83 1/2N, 112 1/2E
North Polar region
H = 05 43 38
Ottawa
eP 05 52 40 d
Resolute
eP 05 48 24
eS 05 52 21
L 05 53.5
e 05 54.2

DOMINION OBSERVATORIES

Seven Falls
eP 05 52 27
Shawinigan Falls
eP 05 52 32

SEPTEMBER 24
Resolute
e 11 03 18
e 11 10.5

SEPTEMBER 24
U.S.C.G.S.
29 1/2S, 176 1/2W
Kermadec Islands
H = 19 44 29
Resolute
PS 20 14.3
(PPS) 20 15.3

SEPTEMBER 25
U.S.C.G.S.
9S, 113 1/2E
Off east coast of Java
H = 00 14 30
Halifax
iP' 00 34 12 c
Ottawa
iP' 00 34 06 d
Resolute
SS 00 49 45
Seven Falls
eP' 00 34 08 d
Shawinigan Falls
eP' 00 34 07

SEPTEMBER 25
50°11'N, 68°12'W
Between the Manicouagan and Toulnustoric Rivers about 40 miles above their junction
H = 01 36 30.2
Mag 3.9
Montreal
e 01 38 55
iS_n 01 39 02
iS_1 01 39 36.5
D = 660 km
Ottawa
eS_n 01 39 28
S_1 01 40 10
D = 770 km
Seven Falls
iS_n 01 38 02.6
S_1 01 38 17
D = 388 km
Shawinigan Falls
eS_n 01 38 34.5
S_1 01 38 58.5
D = 525 km

SEPTEMBER 25
U.S.C.G.S.
29S, 177W
Kermadec Islands
H = 01 39 09
Resolute
eS 02 06.9
PS 02 08 41
SS 02 15.1
SSS 02 18 42

SEPTEMBER 25
U.S.C.G.S.
22N, 122E
Near east coast of Formosa
H = 02 36 48
Horseshoe Bay
i 02 49 43
Resolute
eP 02 49 02
iP 02 49 03 d
iP 02 49 25
i 02 51 05.5
PP 02 52 08
e 02 53.5
PPP 02 54.0
iS 02 59.0
PPS 03 00.0
SS 03 04.5
SSS 03 08.0
L 03 08.8
Saskatoon
e 03 01 06
Victoria
iP 02 47 17 c,S,W

SEPTEMBER 25
Banff
eP 23 27 52.6

SEPTEMBER 26
U.S.C.G.S.
44N, 128W
Off coast of Oregon
H = 04 48 53
Horseshoe Bay
iP 04 50 26 d
Ottawa
eP 04 55 58
Resolute
e 05 01 46
e 05 02 46
eL 05 05.0
Victoria
iP 04 50 11 d,S,W
iS 04 51 17

SEPTEMBER 26
U.S.C.G.S.
43 1/2N, 128 1/2W
Off coast of Oregon
H = 08 20 51
Banff
eP 08 23 39.6
Halifax
iP 08 29 09
eS 08 35 43
SS 08 39 09
Horseshoe Bay
iP 08 22 26.3 d
eS 08 23 53.1
Lillooet
eP 08 (12) (38) c
Ottawa
eP 08 28 00
PP 08 29 28
P_cP 08 30 27
S 08 33 45
G 08 36 32

Resolute
eP 08 27 (40)
iP 08 27 49
PP 08 28.9
iS 08 33 12
L 08 35.2
(S_cS) 08 37.7
Saskatoon
iP 08 24 39 d
iS 08 30 06
Seven Falls
eP 08 28 24
PP 08 30 00
S 08 34 21
e 08 36 09
G 08 39 21
Shawinigan Falls
eP 08 28 13
PP 08 29 37
P_cP 08 30 24
Victoria
iP 08 22 10.5 d
iS 08 23 17

SEPTEMBER 26
Horseshoe Bay
iP 08 33 28.6 c
Victoria
iP 08 33 15
iS 08 34 20

SEPTEMBER 26
Victoria
iP 08 34 53 c

SEPTEMBER 26
Horseshoe Bay
iP 08 36 34.1
Victoria
iP 08 35 12 c

SEPTEMBER 26
Victoria
i 08 37 29 c

SEPTEMBER 26
Horseshoe Bay
iP 08 52 04.1 d
Victoria
i 08 51 54 c

SEPTEMBER 26
U.S.C.G.S.
22S, 68 1/2W
Northern Chile
H = 10 18 20
Ottawa
iP 10 29 01 c
Seven Falls
eP 10 29 10
Shawinigan Falls
eP 10 29 07

SEPTEMBER 26
U.S.C.G.S.
79 1/2N, 12W
Off east coast
of Greenland
H = 12 35 38
Resolute
iP 12 39 45
iS 12 42 53
eL 12 45 24

SEPTEMBER 26
Resolute
eP 16 43 12 c

SEPTEMBER 26
Lillooet
eP 19 30 32 d

SEPTEMBER 26
Lillooet
iP 20 (38) (27) d

SEPTEMBER 27
Lillooet
iP 01 (58) (53) d

SEPTEMBER 27
Victoria
eP 06 30 30 d

SEPTEMBER 27
Resolute
eP 09 26 12

SEPTEMBER 27
U.S.C.G.S.
5 1/2S, 129 1/2E
Banda Sea
H = 10 20 18
Resolute
eP 10 34 38

SEPTEMBER 27
Resolute
eP 12 44 18
e 13 03 40
e 13 05 28
e 13 08.3

SEPTEMBER 27
Resolute
i 16 35 35
i 16 35 36.5
i 16 35 45
i 16 36 46

SEPTEMBER 27
Victoria
iP 21 12 54 c

DOMINION OBSERVATORIES

SEPTEMBER 28
U.S.C.G.S.
81 1/2N, 26E
Svalbard region
H = 01 11 20
Resolute
eP 01 16 02
eS 01 20 00
eL 01 21.5

SEPTEMBER 28
Lillooet
eP 03 (13) (25) (d)
Resolute
e(P) 03 53 00

SEPTEMBER 28
U.S.C.G.S.
26 1/2N, 128E
Okinawa Islands
H = 04 20 27
Resolute
eP 04 32 11 c
iP 04 32 11.5 d
eS 04 41 40
SS 04 46 42
(SSS) 04 49 22
eL 04 50.5

SEPTEMBER 28
U.S.C.G.S.
45N, 111W
Hebgen Lake
H = 08 05 42
Horseshoe Bay
iP 08 07 56 c
eS 08 10 30
Resolute
(PP) 08 13 11
eS 08 17 02
eL 08 18 27
i 08 21 30
L 08 24.0
Victoria
eP 08 07 52 c,S,E
eS 08 10 18

SEPTEMBER 28
Resolute
eP 08 47 00
iP 08 47 01.5

SEPTEMBER 28
Banff
eP 09 08 17.6
e 09 09 52.6
e 09 10 11.6

SEPTEMBER 28
Resolute
eP 10 26 46

SEPTEMBER 28
48.1N, 128.2W
Off west coast of
British Columbia
H = 11 00 16
Mag 3.1
Alberni
iP 10 (55) (07)
iS 10 (55) (42)
D = 282 km
Horseshoe Bay
iP 11 01 01.5 d
iS 11 01 48.8
D = 388 km
Victoria
eP 11 00 56.3
eS 11 00 40.3
D = 360 km

SEPTEMBER 28
Victoria
eP 12 36 09

SEPTEMBER 29
U.S.C.G.S.
29S, 176 1/2W
Kermadec Islands
H = 15 31 57
Mag 6 1/2 - 6 3/4
Halifax
PKS 15 54 20
SKS 15 58 04
Resolute
eP' 15 50 45
SKS 15 57 30
(SKKS) 15 58 46
S 15 59.5
PS 16 01 20
SS 16 07 41
SSS 16 11.5
Victoria
eP 15 45 06
iS 15 54 27

SEPTEMBER 30
U.S.C.G.S.
45N, 111W
Yellowstone aftershock
H = 01 36 00
Banff
iP 01 37 50
Resolute
(PP) 01 43 (13)
eL 01 49 40
Victoria
iP 01 38 15 c
eS 01 40 55

SEPTEMBER 30
Victoria
iP 01 53 45 c
iS 01 54 52

SEPTEMBER 30
U.S.C.G.S.
27N, 125E
Ryukyu Islands
H = 03 30 05
Resolute

eP	03 41 45
eP	03 42 04

SEPTEMBER 30
U.S.C.G.S.
28 1/2S, 176 1/2W
Kermadec Islands
H = 04 56 21
Resolute

eS	05 23 56
PS	05 25 42
PPS	05 27 02
SS	05 32 07
(SSS)	05 35.9
(SKPP')	05 39.6

SEPTEMBER 30
U.S.C.G.S.
29S, 176 1/2W
Kermadec Islands
H = 13 31 30
Resolute

eS	13 59 04
PS	14 01.1
SS	14 07.3
(SSS)	14 11.1

SEPTEMBER 30
Canadian Arctic
H = 15 52 46.7
Mag 1.9
Resolute

iP_1	15 53 17
iS_1	15 53 40

D = 189 km

SEPTEMBER 30
Resolute

e	18 16 20
e	18 18 02

SEPTEMBER 30
U.S.C.G.S.
18S, 168E
New Hebrides Islands
H = 20 25 58
Mag 6 1/2
Banff

eP	20 39 34

Horseshoe Bay

eP	20 39 04 d

Ottawa

eP'	20 44 53

Resolute

eP'	20 44 32
PP	20 44.9
eS	20 52.6
PS	20 54 24
(PPS)	20 55 40
e	20 56.0
SS	21 00.5
SSS	21 04.4

Seven Falls

eP'	20 44 59

Victoria

eP	20 39 03 c
eL	21 07.6

DOMINION OBSERVATORIES

EARTHQUAKES IN THE CANADIAN ARCTIC

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

JULY 2 at 19 42 45 U.T. Magnitude 2.8. Originated 270 km from Resolute, N.W.T., at a depth of about 19 km.

JULY 2 at 19 48 00 U.T. Magnitude 2.8. Originated 270 km from Resolute, N.W.T., at a depth of about 19 km.

JULY 2 at 23 07 57 U.T. Magnitude 2.5. Originated 270 km from Resolute, N.W.T., at a depth of about 19 km.

JULY 9 at 19 55 15 U.T. Magnitude 2.4. Originated 307 km from Resolute, N.W.T.

JULY 19 at 11 11 00 U.T. Magnitude 2.0. Originated 27 km from Resolute, N.W.T.

AUGUST 15 at 21 11 43 U.T. Magnitude 1.9. Originated 37 km from Resolute, N.W.T.

SEPTEMBER 9 at 09 55 57 U.T. Magnitude 1.8. Originated 61.5 km from Resolute, N.W.T.

SEPTEMBER 13 at 03 25 58 U.T. Magnitude 2.5. Originated 189 km from Resolute, N.W.T.

SEPTEMBER 16 at 19 55 49 U.T. Magnitude 0.8. Originated 12.3 km from Resolute, N.W.T.

SEPTEMBER 16 at 20 24 40 U.T. Magnitude 1.0. Originated 12.3 km from Resolute, N.W.T.

SEPTEMBER 30 at 15 52.47 U.T. Magnitude 1.9. Originated 189 km from Resolute, N.W.T.

SEPTEMBER 31 at 05 41 39 U.T. Magnitude 2.9. Originated 116 km from Resolute, N.W.T.

SEPTEMBER 31 at 11 00 51 U.T. Magnitude 2.4. Originated 115 km from Resolute, N.W.T.

SEISMOLOGICAL BULLETIN - 1959

EARTHQUAKES IN EASTERN CANADA AND ADJACENT AREAS

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

AUGUST 1 at 13 52 49 U.T. Magnitude 4.1. Epicentre at 48°25'N, 68°19'W. About ten miles east of Rimouski, Que.

AUGUST 22 at 03 52 30 U.T. Magnitude 3.2. Epicentre at 46°57'N, 70°47'W. In the St. Lawrence River, just east of the Island of Orleans, Que.

SEPTEMBER 25 at 01 36 30 U.T. Magnitude 3.9. Epicentre at 50°11'N, 68°12'W. Between the Manicouagan and Toulnustouc Rivers about forty miles above their junction.

DOMINION OBSERVATORIES

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

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

JULY 4 at 05 27 22 U.T. Magnitude 3.0 Epicentre at 47°54'N; 123°05'W. Olympic Mountains.

JULY 5 at 08 21 08 U.T. Magnitude 4.1 Epicentre at 52°N; 131°W. Queen Charlotte Island.

JULY 8 at 17 27 38 U.T. Magnitude 2.2 Epicentre at 47.9°N; 123.6°W. Olympic Mountains.

JULY 11 at 08 01 43 U.T. Magnitude 2.9 Epicentre at 47.7°N; 119.5°W. North central Washington.

JULY 18 at 12 19 05 U.T. Magnitude 3.1 Epicentre at 49.5°N; 127.0°W. Off coast of Vancouver Island.

JULY 21 at 21 24 50 U.T. Magnitude 1.6 Epicentre at 48°42'N; 123°42'W. South Vancouver Island.

JULY 22 at 04 05 52 U.T. Magnitude 2.5 Epicentre at 48.3°N; 122.7°W. West of Whidbey Island.

JULY 22 at 04 07 10 U.T. Magnitude 2.4 Epicentre at 48.2°N; 122.7°W. East of Whidbey Island.

JULY 22 at 15 34 13 U.T. Magnitude 2.4 Epicentre at 48.6°N; 124.7°W. Near Clo-oose, Vancouver Island.

JULY 23 at 06 41 19 U.T. Magnitude 2.6 Epicentre at 51°N; 122°W. Near Lillooet, B.C.

JULY 23 at 08 15 24 U.T. Magnitude 4.2 Epicentre at 45.4°N; 124.5°W. Off coast of Oregon.

JULY 27 at 03 27 45 U.T. Magnitude 2.3 Epicentre at 49°00'N; 123°04'W. Boundary Bay.

JULY 28 at 12 28 08 U.T. Magnitude 3.2 Epicentre at 49.5°N; 130.0°W. Off west coast.

JULY 30 at 07 19 19 U.T. Magnitude 2.4 Epicentre at 48°24'N; 122°32'W. Whidbey Island.

AUGUST 2 at 09 35 52 U.T. Magnitude 3.0. Epicentre at 47.8N, 126.4W. Off Washington Coast.

AUGUST 2 at 09 48 59 U.T. Magnitude 2.5. Epicentre at 49 34N, 126 09W. Near Nootka Sound.

AUGUST 6 at 03 44 32 U.T. Magnitude 4.4. Epicentre at 47.8N, 119.9W. Chelan, Washington, Felt.

AUGUST 6 at 04 36 16 U.T. Magnitude 3.9. Epicentre at 47.8N, 119.9W. Aftershock of previous.

AUGUST 13 at 13 56 14 U.T. Magnitude 2.7. Epicentre at 48 43N, 124 27W. South-West Vancouver Island.

AUGUST 13 at 19 07 15 U.T. Magnitude 4.1. Epicentre at 44N, 124.5W. Off Coast of Oregon.

AUGUST 14 at 21 15 18 U.T. Magnitude 2.7. Epicentre at 49 21N, 123 37W. Strait of Georgia.

AUGUST 14 at 21 22 12 U.T. Magnitude 2.0. Epicentre at 49 18N, 123 33W. Strait of Georgia.

AUGUST 14 at 21 28 32 U.T. Magnitude 2.3. Epicentre at 49 20N, 123 33W. Strait of Georgia.

AUGUST 18 at 18 07 33 U.T. Epicentre at 47.9N, 120W. Chelan Washington?

AUGUST 20 at 23 07 20 U.T. Magnitude 1.8. Epicentre at 48 30N, 123 39W. Southern Vancouver Island.

AUGUST 22 at 23 42 54 U.T. Magnitude 2.3. Epicentre at 48 33N, 122 50W. Whidbey Island.

AUGUST 23 at 23 11 15 U.T. Magnitude 3.1. Epicentre at 48.4N, 122.5W. East of Whidbey Island.

AUGUST 24 at 17 29 17 U.T. Magnitude 2.4. Epicentre at 48 04N, 124 19W. Olympics.

AUGUST 25 at 17 12 22 U.T. Magnitude 2.9. Epicentre at 48 28N, 122 28W. Near Bellingham.

AUGUST 26 at 07 18 22 U.T. Magnitude 2.8. Epicentre at 50.9N, 125.9W. Knight Inlet.

DOMINION OBSERVATORIES

AUGUST 26 at 07 29 42 U.T. Magnitude 2.9. Epicentre at 50.9N, 125.9W. Knight Inlet.

AUGUST 26 at 10 27 41 U.T. Magnitude 5.7. Epicentre at 52.2N, 129.9W. Queen Charlotte Island.

SEPTEMBER 2 at 02 35 44 U.T. Magnitude 2.5. Epicentre at 47.9N, 123.0W. Olympics.

SEPTEMBER 2 at 20 57 35 U.T. Magnitude 3.4. Epicentre at 48 46N, 123 18W. Gulf Islands. Felt.

SEPTEMBER 10 at 02 27 14 U.T. Magnitude 1.9. Epicentre at 48 18N, 124 30W. Olympics.

SEPTEMBER 17 at 05 48 47 U.T. Magnitude 2.8. Epicentre at 48.4N, 122.7W. Whidbey Islands.

SEPTEMBER 26 at 08 20 51 U.T. Magnitude 5.5. Epicentre at 43.5N, 128.5W. Off Coast of Oregon.

SEPTEMBER 28 at 11 00 16 U.T. Magnitude 3.1. Epicentre at 48.1N, 128.2W. Off West Coast.

I.G.Y. MICROSEISMIC BULLETIN

JULY - SEPTEMBER 1959

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		HOUR	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
July	1	0	...			1	0.1	4.2	0,0		
		6	...			1	0.1	5.3	0,0		
		12	...			...			0,0		
		18	...			1	0.2	4.7	0,0		
	2	0	...			1	0.2	4.5	0,0		
		6	...			1	0.15	5.2	0,0		
		12	...			...			0,0		
		18	...			...			3	0.1	2.0
	3	0	...			...			3	0.1	2.0
		6	...			...			3	0.2	2.0
		12	...			...			3	0.2	2.0
		18	...			...			3	0.3	2.0
	4	0	...			...			3	0.5	2.0
		6	...			...			3	0.4	2.0
		12	...			...			0,0		
		18	...			...			0,0		
	5	0	...			...			0,0		
		6	(3)	0.5	4.0	...			0,0		
		12	...			...			3	0.2	2.0
		18	(3)	0.5	4.0	...			3	0.2	2.0
	6	0	(3)	0.5	4.0	...			3	0.2	2.0
		6	(3)	0.5	4.0	...			2	0.4	2.5
		12	(3)	0.5	4.0	...			3	0.3	2.5
		18	(3)	0.3	3.0	...			3	0.2	2.8
	7	0	(3)	0.3	3.0	...			3	0.1	2.8
		6	(3)	0.3	3.7	...			0,0		
		12	(3)	0.5	4.0	...			3	0.1	2.4
		18	(3)	0.5	4.0	...			0,0		
	8	0	(3)	0.4	3.7	1	0.1	6.1	...		
		6	(3)	0.4	3.7	1	0.1	6.0	0,0		
		12	(3)	0.4	3.7	1	0.1	5.9	0,0		
		18	(3)	0.4	3.7	1	0.1	5.9	0,0		
	9	0	(3)	0.4	3.7	1	0.1	6.2	0,0		
		6	(3)	0.4	3.7	1	0.1	6.1	0,0		
		12	(3)	0.4	3.7	1	0.2	5.7	0,0		
		18	(3)	0.4	3.7	...			0,0		
	10	0	(3)	0.2	3.6	1	0.1	6.1	0,0		
		6	(3)	0.3	4.0	1	0.1	5.5	0,0		
		12	(3)	0.3	4.0	1	0.1	5.8	0,0		
		18	(3)	0.2	3.0	1	0.1	5.4	0,0		
	11	0	(3)	0.2	3.0	1	0.1	6.0	0,0		
		6	(1)	0.4	3.0	...			0,0		
		12	(1)	0.8	3.4	...			0,0		
		18	...			...			0,0		
	12	0	(1)	0.5	3.6	1	0.2	4.3	0,0		
		6	(1)	0.5	3.6	1	0.15	5.2	0,0		

DATE		HOUR	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
July	12	12	(1)	0.5	3.6	1	0.15	5.2	0,0		
		18	(3)	0.4	3.6	1	0.1	5.9	0,0		
	13	0	(3)	0.2	3.3	1	0.1	6.5	0,0		
		6	(3)	0.2	3.3	1	0.1	6.0	0,0		
		12	(3)	0.2	3.3	1	0.1	6.5	0,0		
		18	(3)	0.2	3.3	0,0			0,0		
	14	0	(3)	0.2	3.0	0,0			0,0		
		6	(3)	0.2	3.0	0,0			0,0		
		12	(3)	0.2	3.0	...			0,0		
		18	(3)	0.2	3.0	1	0.1	5.9	0,0		
	15	0	(3)	0.2	3.0	...			0,0		
		6	(3)	0.2	3.0	1	0.1	6.1	0,0		
		12	(3)	0.2	3.0	...			0,0		
		18	(3)	0.2	3.0	...			0,0		
	16	0	(3)	0.2	3.0	...			0,0		
		6	(3)	0.2	3.0	1	0.1	5.9	0,0		
		12	(3)	0.2	3.0	1	0 1	6.0	0,0		
		18	(3)	0.2	3.0	1	0.2	4.7	0,0		
	17	0	(3)	0.3	3.6	1	0,15	5.2	0,0		
		6	(3)	0.3	3.8	1	0.2	4.7	0,0		
		12	(3)	0.3	4.0	1	0.3	4.6	0,0		
		18	(3)	0.3	4.0	1	0.3	4.8	0,0		
	18	0	(3)	0.5	4.4	1	0.1	5.4	0,0		
		6	(3)	0.5	4.5	1	0.2	4.6	0,0		
		12	(3)	0.6	5.0	1	0.1	5.8	3	0.1	2.0
		18	(3)	0.3	3.6	1	0.1	6.2	3	0.1	2.5
	19	0	(3)	0.2	3.6	...			3	0.1	2.0
		6	(3)	0.2	3.6	...			3	0.1	2.0
		12	(3)	0.3	3.6	1	0.1	6.6	3	0.2	2.0
		18	(3)	0.2	3.0	...			3	0.1	2.0
	20	0	(3)	0.3	3.0	1	0.1	6.7	3	0.1	2.0
		6	(3)	0.3	3.0	1	0.1	6.0	3	0.1	2.0
		12	...			1	0.1	6.6	3	0.1	2.0
		18	(3)	0.3	3.0	...			3	0.5	4.0
	21	0	(3)	0.3	3.0	1	0.1	5.6	3	0.3	3.5
		6	(3)	0.3	3.0	1	0.1	6.2	3	0.4	4.0
		12	(3)	0.3	3.0	1	0.1	6.0	3	0.3	4.0
		18	(3)	0.3	3.0	...			3	0.5	4.0
	22	0	(3)	0.2	3.0	1	0.1	6.3	3	0.3	4.0
		6	(3)	0.2	3.0	...			0,0		
		12	(3)	0.2	3.0	...			0,0		
		18	(3)	0.3	4.0	1	0.1	5.8	0,0		
	23	0	(3)	0.2	4.0	...			0,0		
		6	(3)	0.2	4.0	1	0.1	6.4	0,0		
		12	(3)	0.2	4.0	1	0.1	6.2	0,0		
		18	(3)	0.5	4.0	1	0.2	6.0	0,0		

DOMINION OBSERVATORIES

DATE		HOUR	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
July	24	0	(3)	0.5	4.0	1	0.2	6.2	0,0		
		6	(3)	0.6	4.0	1	0.2	6.1	0,0		
		12	(3)	0.1	1.0	1	0.25	6.2	0,0		
		18	(3)	0.4	3.0	1	0.2	6.8	0,0		
	25	0	(3)	0.4	3.5	...			0,0		
		6	(3)	0.4	3.5	1	0.2	7.2	0,0		
		12	(3)	0.5	3.3	...			0,0		
		18	(1)	0.5	3.5	1	0.25	6.3	3	0.5	4.0
	26	0	(1)	1.2	4.0	1	0.2	6.8	3	0.4	4.0
		6	(1)	1.2	4.0	1	0.3	6.1	3	0.5	4.0
		12	(1)	1.2	4.0	1	0.4	5.8	3	0.4	4.0
		18	(1)	1.2	4.0	...			3	0.2	3.5
	27	0	(1)	1.4	4.3	2	0.8	6.0	3	0.3	3.5
		6	(1)	1.5	5.0	...			3	0.3	4.0
		12	(1)	2.2	5.0	2	0.8	5.8	3	0.4	4.5
		18	(1)	2.6	6.0	2	0.7	6.2	3	0.3	4.0
	28	0	(1)	2.7	6.2	2	0.6	6.2	3	0.3	4.0
		06	(1)	2.0	5.4	2	0.6	6.3	0,0		
		12	(1)	1.3	4.5	1	0.25	6.2	0,0		
		18	(1)	0.9	4.5	1	0.3	5.4	0,0		
	29	0	(1)	0.7	4.0	1	0.2	5.2	0,0		
		6	(1)	0.6	4.0	1	0.2	5.9	0,0		
		12	(3)	0.6	4.0	1	0.1	6.1	0,0		
		18	(3)	0.5	4.0	1	0.1	7.2	0,0		
	30	0	(3)	0.5	4.0	1	0.1	7.4	0,0		
		6	(3)	0.5	4.0	1	0.1	6.5	0,0		
		12	(3)	0.5	4.0	1	0.2	6.3	0,0		
		18	(3)	0.3	3.6	1	0.1	6.3	0,0		
	31	0	(3)	0.4	3.7	1	0.2(5)	6.2	0,0		
		6	(3)	0.5	3.6	...			0,0		
		12	(3)	0.5	3.3	1	0.3(5)	5.5	0,0		
		18	(3)	0.6	3.6	...			0,0		
Aug.	1	0	(3)	0.7	4.0	3	0.2	5.7	0,0		
		6	(3)	0.5	3.6	1	0.2	4.7	0,0		
		12	(3)	0.4	3.6	1	0.2	5.5	3	0.4	4.5
		18	(3)	0.4	3.6	...			3	0.3	4.5
	2	0	(3)	0.3	3.0	1	0.2	6.0	3	0.3	4.0
		6	(3)	0.3	3.0	1	0.2	5.9	3	0.4	4.0
		12	(1)	0.4	3.0	1	0.2	5.5	3	0.4	4.0
		18	(1)	0.9	3.6	1	0.1(5)	4.2	0,0		
	3	0	(1)	0.9	3.3	...			0,0		
		06	(1)	1.6	4.5	1	0.3	4.5	0,0		
		12	(1)	1.4	4.0	1	0.3	4.6	0,0		
		18	(1)	1.4	4.0	1	0.3	4.2	0,0		
	4	0	(1)	1.2	4.0	1	0.3(5)	4.3	0,0		
		6	(1)	1.2	4.0	1	0.3	4.1	0,0		

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DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
Aug. 4	12	(1)	0.9	4.0	1	0.3	4.1	0,0		
	18	(1)	1.3	4.3	...			0,0		
5	0	(1)	1.2	4.0	1	0.3	4.2	0,0		
	6	(1)	1.2	4.0	...			0,0		
	12	(1)	1.0	4.0	1	0.3	4.4	0,0		
	18	(1)	0.9	4.0	...			0,0		
6	0	(1)	1.1	3.7	3	0.2(5)	4.8	0,0		
	6	(1)	1.7	3.8	3	0.4	6.2	0,0		
	12	(1)	1.4	3.8	3	0.4	5.5	0,0		
	18	(1)	1.0	3.5	...			0,0		
7	0	(1)	0.9	3.6	3	0.3	4.2	0,0		
	6	(1)	1.0	3.5	3	0.3	3.9	0,0		
	12	...			...			0,0		
	18	(3)	0.5	3.5	...			0,0		
8	0	(3)	0.4	3.0	3	0.2	4.2	0,0		
	6	(3)	0.4	3.0	...			0,0		
	12	(3)	0.4	3.0	3	0.2	6.0	0,0		
	18	(3)	0.4	3.5	...			0,0		
9	0	(3)	0.5	3.5	1	0.1	6.1	0,0		
	6	(3)	0.5	3.3	...			0,0		
	12	(3)	0.4	3.0	1	0.1	6.0	0,0		
	18	(3)	0.5	3.5	1	0.1	5.7	0,0		
10	0	(3)	0.5	3.5	...			0,0		
	6	(3)	0.5	3.5	...			0,0		
	12	(3)	0.5	3.5	...			0,0		
	18	(3)	0.5	3.3	1	0.1	5.8	0,0		
11	0	(3)	0.9	3.3	...			0,0		
	6	(3)	0.4	3.0	1	0.2	4.8	0,0		
	12	(3)	0.4	3.5	1	0.2	4.7	0,0		
	18	(3)	0.4	3.0	1	0.2	4.6	0,0		
12	0	(3)	0.4	3.0	...			0,0		
	6	(3)	0.6	3.0	1	0.3	4.0	0,0		
	12	...			...			0,0		
	18	(3)	0.5	3.3	...			0,0		
13	0	(3)	0.5	3.3	1	0.6	4.0	0,0		
	6	(3)	0.5	3.3	1	0.6	3.8	0,0		
	12	(3)	0.6	3.3	1	0.4	3.8	0,0		
	18	(3)	0.6	3.3	1	0.4	4.0	0,0		
14	0	(3)	0.4	3.0	1	0.4	4.0	0,0		
	6	(3)	0.4	3.0	1	0.4	3.6	0,0		
	12	(3)	0.4	3.0	1	0.4	4.0	0,0		
	18	(3)	0.4	3.0	1	0.4	3.9	0,0		
15	0	(3)	0.4	3.0	1	0.4	3.7	0,0		
	6	(3)	0.4	3.0	1	0.4	3.8	0,0		
	12	(3)	0.4	3.0	...			0,0		
	18	(3)	0.4	3.0	1	0.5	4.0	0,0		

DOMINION OBSERVATORIES

DATE		HOUR	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
Aug.	16	0	(3)	0.3	3.0	1	0.4	4.1	0,0		
		6	(3)	0.3	3.0	1	0.3	5.3	0,0		
		12	(3)	0.3	3.0	1	0.3	6.0	3	0.5	5.5
		18	(3)	0.2	3.0	...			3	0.4	5.0
	17	0	(3)	0.2	3.0	1	0.4	6.3	3	0.5	5.0
		6	(3)	0.2	3.0	1	0.4	6.6	3	0.7	5.5
		12	(3)	0.3	3.0	1	0.3	6.0	3	0.6	5.0
		18	(3)	0.3	3.0	1	0.2	5.5	0,0		
	18	0	...			...			0,0		
		6	(3)	0.3	3.0	1	0.3	5.6	0,0		
		12	(3)	0.3	3.0	...			3	0.3	5.0
		18	...			...			3	0.3	5.5
	19	0	(3)	0.7	3.8	...			3	0.4	4.5
		6	(3)	1.1	3.8	...			3	0.4	5.0
		12	(1)	1.1	3.8	...			3	0.4	5.0
		18	(1)	1.2	4.0	1	0.3	4.4	0,0		
	20	0	(1)	1.2	4.0	1	0.5	5.4	0,0		
		6	(1)	1.3	4.5	1	0.7	5.6	0,0		
		12	(1)	1.3	4.5	1	0.7	5.8	0,0		
		18	(1)	1.5	5.0	1	0.7	5.6	0,0		
	21	0	(1)	1.5	5.0	1	0.7	5.7	0,0		
		6	(1)	5.1	7.2	1	1.0	7.2	3	0.3	4.0
		12	(1)	5.0	7.0	1	1.8	7.4	3	0.3	4.0
		18	(1)	3.5	6.0	...			3	0.5	4.0
	22	0	(1)	3.5	6.0	1	1.1	6.3	0,0		
		6	(1)	3.5	6.0	1	1.1	6.0	0,0		
		12	(1)	2.8	5.5	1	0.5	5.7	0,0		
		18	(1)	1.7	5.0	...			0,0		
	23	0	(1)	1.9	5.0	1	0.3	5.2	0,0		
		6	(1)	1.4	4.0	3	0.2	4.6	0,0		
		12	(1)	1.3	4.0	3	0.2	4.2	0,0		
		18	(1)	0.7	3.5	3	0.2	4.5	0,0		
	24	0	(1)	0.7	4.0	1	0.2	4.2	0,0		
		6	(1)	0.8	4.1	...			0,0		
		12	(1)	0.7	4.0	3	0.2	4.0	0,0		
		18	(1)	0.7	4.0	...			0,0		
	25	0	...			...			0,0		
		6	(3)	0.6	4.0	1	0.3	3.7	0,0		
		12	(3)	0.6	4.0	1	0.3	3.4	0,0		
		18	(3)	0.6	4.0	1	0.4	4.0	0,0		
	26	0	(3)	0.6	4.0	1	0.4	3.8	0,0		
		6	(3)	0.6	4.0	1	0.2	5.0	0,0		
		12	(3)	0.6	4.0	...			0,0		
		18	(1)	0.5	4.0	3	0.4	4.4	0,0		
	27	0	(1)	0.5	3.4	1	0.4	4.8	0,0		
		6	(1)	0.5	4.0	1	0.6	4.8	0,0		

DATE		HOUR	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
Aug.	27	12	(1)	0.5	4.0	1	0.5	5.0	0,0		
		18	(1)	0.5	4.0	1	0.4	4.5	0,0		
	28	0	(1)	0.5	4.0	...			0,0		
		6	(1)	0.5	4.0	1	0.5	4.0	0,0		
		12	(1)	0.6	4.0	1	0.5	4.0	0,0		
		18	(1)	0.5	4.0	1	0.2	3.8	0,0		
	29	0	(1)	0.5	4.0	1	0.2	4.0	0,0		
		6	(1)	0.5	4.0	...			0,0		
		12	(1)	0.5	4.0	...			0,0		
		18	...			...			0,0		
	30	0	...			3	0.2	4.2	0,0		
		6	...			3	0.1(5)	5.0	0,0		
		12	...			3	0.1(5)	5.0	0,0		
		18	(3)	0.5	4.0	3	0.1(5)	5.0	0,0		
	31	0	(3)	0.5	4.0	...			0,0		
		6	(3)	0.5	4.0	1	0.2	4.8	0,0		
		12	(3)	0.5	4.0	3	0.2	4.8	3	0.2	3.0
		18	(3)	0.5	4.0	3	0.2	5.0	3	0.3	3.0
Sept.	1	0	(3)	0.5	4.0	3	0.1	5.6	0,0		
		6	(3)	0.5	4.0	...			0,0		
		12	(3)	0.5	4.0	...			0,0		
		18	(3)	0.5	4.0	1	0.2	4.7	0,0		
	2	0	(3)	0.5	4.0	1	0.1(5)	5.0	0,0		
		6	(3)	0.6	4.0	1	0.1	5.4	0,0		
		12	(1)	0.7	4.0	1	0.3	5.5	3	0.1	2.2
		18	(1)	0.7	4.0	1	0.3	5.5	3	0.1	2.2
	3	0	(1)	0.7	4.0	1	0.2	5.5	3	0.1	2.0
		6	(1)	0.6	4.0	1	0.2	5.5	3	0.1	2.5
		12	(1)	0.5	4.0	...			3	0.1	2.5
		18	(1)	0.6	4.0	1	0.2	4.5	0,0		
	4	0	(1)	0.5	4.0	1	0.2	4.5	3	0.1	2.5
		6	(1)	0.4	3.0	1	0.2	4.5	3	0.1	2.5
		12	(1)	0.3	2.3	1	0.2	4.7	3	0.1	1.8
		18	(1)	0.4	3.1	1	0.2	4.7	3	0.2	2.0
	5	0	(1)	0.4	3.5	1	0.2	5.2	3	0.2	2.0
		6	(1)	0.5	3.5	1	0.4	5.1	2	0.3	2.2
		12	(1)	0.7	3.5	1	0.5	4.3	2	0.4	2.6
		18	(1)	1.4	5.0	1	0.6(5)	4.6	2	0.3	1.7
	6	0	(1)	2.1	5.5	1	0.7	5.5	3	0.2	2.5
		6	(1)	2.8	6.0	1	0.9	5.2	3	0.1	1.7
		12	(1)	3.5	6.0	1	0.6	5.4	3	0.1	2.0
		18	(1)	3.5	6.0	1	0.6(5)	5.4	3	0.3	3.0
	7	0	(1)	3.3	6.0	1	0.4	5.3	3	0.2	3.0
		6	(1)	2.5	5.7	1	0.3	4.8	3	0.2	3.0
		12	(1)	1.2	5.0	...			3	0.1	2.0
		18	...			1	0.5	4.0	3	0.1	1.5

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
Sept. 8	0	...			1	0.5	3.8	3	0.1	1.5
	6	...			1	0.4	3.9	2	0.3	2.0
	12	...			...			3	0.2	2.0
	18	...			...			2	0.3	2.5
9	0	...			...			3	0.1	2.0
	6	...			1	0.4	3.8	0,0		
	12	...			1	0.7	4.4	3	0.1	2.0
	18	...			1	0.7	5.3	3	0.2	2.0
10	0	...			1	0.7	6.0	3	0.1	2.0
	6	...			1	0.6	6.3	...		
	12	...			1	0.4(5)	5.8	3	0.2	3.5
	18	...			1	0.3	5.0	3	0.1	2.5
11	0	(3)	0.5	4.0	3	0.2	5.0	3	0.3	3.0
	6	(3)	0.6	4.0	3	0.2	5.3	3	0.4	3.0
	12	(1)	0.5	3.3	1	0.4	4.0	3	0.1	2.5
	18	(1)	0.7	3.3	1	0.6	4.4	0,0		
12	0	(1)	1.7	4.0	1	0.7	4.5	3	0.2	2.5
	6	(1)	2.1	4.0	1	0.7(5)	4.9	3	0.2	2.2
	12	(1)	1.9	4.4	...			...		
	18	(1)	1.1	4.3	1	0.7	5.2	3	0.2	2.5
13	0	(1)	0.7	4.0	1	0.6	4.7	3	0.1	2.5
	6	(1)	0.7	4.0	3	0.5	5.0	3	0.1	2.0
	12	(3)	0.7	4.0	3	0.4	4.3	3	0.1	2.5
	18	(3)	0.6	4.0	3	0.4	4.0	0,0		
14	0	(3)	0.6	4.0	...			3	0.1	2.0
	6	(3)	0.6	4.0	3	0.2	4.9	3	0.1	2.2
	12	(3)	0.5	3.5	3	0.2	5.6	3	0.2	2.5
	18	(3)	0.5	3.5	...			...		
15	0	(1)	1.6	4.6	...			3	0.2	2.0
	6	(1)	3.4	5.4	...			3	0.2	2.5
	12	(1)	4.8	5.5	1	2.3	6.0	3	0.3	3.0
	18	(1)	4.8	5.5	1	2.7	6.2	3	0.4	3.0
16	0	(1)	4.8	5.5	1	2.7	6.0	3	0.4	3.0
	6	(1)	4.1	5.5	1	2.0	5.5	3	0.3	3.0
	12	(1)	2.9	5.0	1	1.4	5.2	3	0.1	2.5
	18	(1)	2.7	5.0	...			3	0.1	2.5
17	0	(1)	2.2	5.0	1	0.9	4.9	3	0.2	2.5
	6	(1)	2.2	5.0	1	1.2	4.8	3	0.1	2.5
	12	(1)	1.4	5.0	1	1.2	4.8	3	0.1	2.5
	18	(1)	1.2	4.5	1	0.9	4.8	3	0.1	2.5
18	0	(1)	1.2	4.5	...			0,0		
	6	(3)	0.9	4.5	1	0.4	4.9	3	0.1	2.5
	12	(3)	0.6	4.0	...			3	0.2	2.5
	18	(3)	0.6	4.0	3	0.3	5.8	3	0.4	2.5
19	0	(3)	0.6	4.0	3	0.3(5)	4.3	...		
	6	(3)	0.6	4.0	3	0.3	5.3	3	0.4	3.0

DATE		HOUR	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
Sept.	19	12	(3)	0.7	4.0	3	0.7	3.9	3	0.3	2.5
		18	(1)	0.6	4.0	1	0.8(5)	4.5	3	0.2	2.5
	20	0	(1)	0.6	4.0	1	1.4	5.0	3	0.3	2.5
		6	(1)	0.8	4.4	1	1.2	4.8	3	0.3	3.0
		12	(1)	0.7	4.5	1	1.3	4.7	3	0.2	2.5
		18	(3)	0.7	4.5	1	1.1	4.5	3	0.3	2.5
	21	0	(3)	0.9	4.5	1	1.1	4.7	3	0.1	2.0
		6	(3)	0.7	4.5	1	0.7	4.2	3	0.1	2.0
		12	(3)	0.7	4.5	1	0.7(5)	4.4	0,0		
		18	(3)	0.6	4.0	1	0.7	4.4	0,0		
	22	0	(3)	0.5	4.0	1	0.7	4.3	0,0		
		6	(3)	0.4	3.5	1	0.4	4.5	0,0		
		12	(1)	0.6	4.0	1	0.3	4.2	0,0		
		18	(1)	0.6	4.0	1	0.3	3.8	0,0		
	23	0	(1)	0.7	4.0	1	0.2(5)	4.2	0,0		
		6	(1)	0.6	4.0	1	0.2	4.2	0,0		
		12	(1)	0.7	4.0	1	0.2	4.1	0,0		
		18	(3)	0.7	4.0	1	0.2	4.2	0,0		
	24	0	(3)	0.6	4.0	3	0.2	4.4	0,0		
		6	(3)	0.6	4.0	...			0,0		
		12	(3)	0.5	4.0	...			0,0		
		18	(3)	0.5	4.0	1	0.2	5.8	0,0		
	25	0	(3)	0.5	4.0	3	0.2	6.6	3	0.1	3.0
		6	(3)	0.5	4.0	...			3	0.1	3.0
		12	(3)	0.4	3.5	...			3	0.2	3.0
		18	(3)	0.5	3.5	3	0.3	4.6	3	0.3	3.0
	26	0	(3)	0.5	3.6	3	0.2	6.2	3	0.2	3.0
		6	(3)	0.6	4.0	3	0.2(5)	4.9	3	0.2	3.0
		12	(3)	0.6	4.0	1	0.3	5.7	3	0.2	3.0
		18	(3)	0.7	4.6	1	0.2(5)	5.3	3	0.2	3.0
	27	0	(3)	0.7	4.6	1	0.2	5.1	3	0.2	2.0
		6	(3)	0.5	4.0	1	0.2	4.7	3	0.2	2.0
		12	(3)	0.4	3.6	1	0.2	4.7	3	0.3	2.5
		18	(3)	0.6	4.0	1	0.2(5)	5.0	...		
	28	0	(3)	0.6	4.2	1	0.4	4.4	3	0.2	2.5
		6	(3)	0.8	4.4	1	0.4	5.5	3	0.3	2.5
		12	(3)	1.0	4.3	1	0.5	5.7	3	0.2	2.5
		18	(3)	1.0	4.4	1	0.5	5.0	3	0.1	2.5
	29	0	(3)	1.0	4.5	1	0.5	5.0	3	0.1	2.5
		6	(3)	1.0	4.3	1	0.6	4.2	3	0.1	2.5
		12	(1)	1.6	4.5	1	0.6	4.8	3	0.1	2.5
		18	(1)	1.6	4.5	...			3	0.1	2.0
	30	0	(1)	1.7	4.2	1	0.6	4.6	3	0.1	2.0
		6	(3)	0.6	4.0	...			3	0.1	2.0
		12	(3)	0.9	3.9	1	0.4	4.2	3	0.1	2.0
		18	(3)	1.2	4.0	1	0.6	4.6	3	0.1	2.0