

January 1-31, 1948

Bulletin No. 205

International
Seismological
Centre

***** (January 1) *****

OttawaP₃ 18 34 48.5P₂ 34 56

i 35 21.5

S₃ 35 35S₁ 35 55

Dist. = 430 km. (267 mi.)

H = 18 33 47

Felt at St. Anne-de-Beaupre,
Quebec. 47°20'N, 70°55'W.WestonP_n 18 35 00.3P₃ 35 06.5P₂ 35 12.0P₁ 35 17.5

i 35 54.5

S_n 35 57.2S₃ 36 03S₂ 36 15.0S₁ 36 28

Dist. = 560 km. (347 mi.)

H = 18 33 47

***** (January 3) *****

OttawaP₂ 22 08 39.5S₂ 08 57

e 09 06

Dist. = 150 km. (93 mi.)

H = 22 08 15

***** (January 4) *****

OttawaP₂ 14 58 25S₂ 58 50

Dist. = 220 km. (136 mi.)

***** (January 6) *****

WestonS₁? 09 08 01

Local?

***** (January 6) *****

Ottawa

P₂ 20 48 12
S₃ 48 55.5
S₂ 49 07
Dist. = 490 km. (304 mi.)

Weston

P_n 20 47 39.5
P₃ 47 42
P₁ 47 47
48
S₂ 48 20
S₁ 48 30
Dist. = 338 km. (210 mi.)

45°2 N., 69°2 W. H = 20 46 53
Felt at Dover-Foxcroft, Maine. Intensity ca IV (Modified
Mercalli). Data from 12 cards (Form 680, USCGS). Same as
December 28, 1947.

***** (January 7) *****

Ottawa

P₂ 20 15 24.5
S₂ 15 41.5
e 15 50

Dist. = 150 km. (93 mi.)
H = 20 15 00

***** (January 12) *****

Weston

S₁? 13 30 00

***** (January 14) *****

Ottawa

P₂ 19 17 30
S₂ 17 47.5
e 17 56

Dist. = 150 km. (93 mi.)
H = 19 17 05

***** (January 16) *****

Ottawa

P₂ 6 05 16.5
P₁ 05 40
e 05 48.5
S₃ 06 22
S₂ 06 46
S₁ 07 12
Dist. = 780 km. (484 mi.)
H = 6 03 15

Shawinigan Falls

P₂ 6 04 23.5
e 04 56.5
S₃ 6 05 00
S₂ 05 13.5
e 05 27
Dist. = 445 km. (276 mi.)
H = 6 03 12

Jan. 16 Cont'd.

- 3 -

Seven Falls

P₂ 6 03 50
P₁ 03 24
S₃ 04 14.3
S₂ 04 18.5
e 04 31.5
Dist. = 250 km. (155 mi.)

Weston

S_n 06 06 13
S 06 43
S₁ 07 00
Dist. = 765 km. (475 mi.)
Saquenay Quake.

***** (January 17) *****

Ottawa

P₂ 16 35 56
S₂ 36 13.5
e 36 21

Dist. = 150 km. (93 mi.)
H = 16 35 31

***** (January 21) *****

Ottawa

P₂ 19 01 52.5
P₁ 01 54.5
S₂ 02 11
S₁ 02 14
e 02 19.5

Dist. = 150 km. (93 mi.)
H = 19 01 28

***** (January 21) *****

Weston

S₁ 19 33 27

***** (January 23) *****

Weston

P₁ 21 03 55.3
S₁ 04 07.4

Dist. = 100 km. (62 mi.)

***** (January 27) *****

Ottawa

P₂ 19 17 03
S₂ 17 45
e 17 53

Dist. = 150 km. (93 mi.)
H = 19 17 03

***** (January 29) *****

Weston

S₁ 14 41 50

***** (January 30) *****

Weston

P₁ 17 56 19.5
S₁ 56 35

Dist. = 128 km. (79 mi.)
Quarry Blast, Southwick, Mass.

***** (January 30) *****

Weston

P₁ 18 01

Several undecipherable disturbances

D. Linehan, S.J.

February 1-28, 1948

Bulletin No. 206

***** (February 3) *****

Ottawa

P₂ 16 28 56.5
S₂ 29 13.5
e 29 21

Dist. = 150 km. (93 mi.)
H = 16 28 32

***** (February 6) *****

Ottawa

P₃ 20 55 47
P₂ 55 49.5
S₂ 56 17
e 56 40
Dist. = 265 km. (164 mi.)
H = 20 55 04

Weston

P_n 20 55 49.5
1 55 54
S₁ 56 26
Dist. = 310 km. (192 mi.)

***** (February 13) *****

Ottawa

P₂ 21 28 43.5
S₂ 29 01
S₁ 29 04.5
e 29 10

Dist. = 150 km. (93 mi.)
H = 21 28 18.5

***** (February 15) *****

Ottawa

P₂ 19 53 04.5
P₁ 53 08
S₂ 53 21.5
S₁ 53 25
e 53 31
Dist. = 145 km. (90 mi.)
H = 19 52 40

Weston

S₁? 19 54 20

***** (February 16) *****

Ottawa

P₂ 22 15 03
S₂ 15 27
e 15 39

Dist. = 210 km. (130 mi.)
H = 22 14 29

***** (February 20) *****

Ottawa

P₂ 19 54 00.5
S₂ 54 24.5
e 54 37

Dist. = 210 km. (130 mi.)
H = 19 53 26

***** (February 23) *****

Ottawa

P₂ 15 12 27.5
S₂ 12 45
e 12 52

Dist. = 150 km. (93 mi.)
H = 15 12 03

***** (February 28) *****

Weston

P 10 58 31.6
2P₁P₁ 58 34.5
i 58 38.3
S₁ 58 40.3
i 58 44
2S₁S₁ 58 46.3

Dist. = 73 km. (45 mi.)

***** (February 28) *****

Ottawa

P₂ 21 19 38
S₂ 19 57
e 20 08

Dist. = 165 km. (102 mi.)
H = 21 19 11

D. Linehan, S.J.

N E S A B U L L E T I N

March 1-31, 1948

Bulletin No. 207

***** (March 1) *****

Weston

1Pn 20 11 05
1S1 12 01.8
Dist. 369 km. (229 mi.)
H = 20 10 14.4

Ottawa

P2 21 51 37
S2 52 02.5
Dist. 225 km. (139 mi.)
H = 21 51 00

***** (March 2) *****

Ottawa

P2 19 06 27
S2 06 44
Dist. = 150 km. (93 mi.)
H = 19 06 03

Ottawa

P2 21 58 59.5
S2 59 23.5
Dist. = 210 km. (130 mi.)
H = 21 58 25

***** (March 5) *****

Ottawa

P2 19 43 12
S2 43 29

Dist. = 150 km. (93 mi.)
H = 19 42 47

***** (March 6) *****

Weston

1P 19 55 15
1S 59 14

Dist. = 220.4
West Indies

***** (March 7) *****

Ottawa

P2 16 14 12
S2 14 30

Dist. = 155 km. (96 mi.)
H = 16 13 47

***** (March 10) *****

Weston

1S 20 10 56.5

- 2 -

***** (March 11) *****

Ottawa

P₂ 20 51 37
S₂ 55
Dist. = 155 km. (96 mi.)
H = 20 51 11

Weston

iS 16 50 32.5

Weston

iS 18 46 25

***** (March 14) *****

Weston

iS 01 36 37.6
iS 04 08 44

***** (March 15) *****

Weston

iS 17 50 53

Weston

iP₁ 21 23 02.4
iS₁ 23 21.4
iS₁S₁ 22.4
L 30.7
Dist. = 155 km. (96 mi.)
H = 21 22 36.5

***** (March 18) *****

Ottawa

P₂ 16 16 12.5
S₂ 17 30
Dist. = 150 km. (93 mi.)
H = 16 16 48

Weston

iP 21 16 06
iS₂ 16 23.8
iS₁ 25.2
i(2S₁S₁) 28.3
L 34.5
Dist. = 156 km. (97 mi.)
H = 21 15 40.8

***** (March 19) *****

Weston

iS 20 06 44

- 3 -

***** (March 23) *****

Weston

1P 21 24 41
1S 28 43

Dist. = 22°6
West Indies

***** (March 25) *****

Weston

1P1 18 54 21.7
1S1 23.4

Blast - Malden, Mass.
Courtesy L. D. Leet

***** (March 26) *****

Ottawa

P2 18 34 42.5
S2 35 00.5

Dist. = 155 km. (96 mi.)
H = 18 34 16

***** (March 29) *****

Ottawa

P2 20 39 18.5
S2 39 36

Dist. = 150 km. (93 mi.)
H = 20 38 54

***** (March 30) *****

Weston

1P 17 03 53.5
1S 55

Blast - Malden, Mass.
Courtesy L. D. Leet

***** (March 31) *****

Weston

1S 19 30 05.1

Blast - West Roxbury, Mass.

1S 19 50 03.4

Blast - West Roxbury, Mass.

1S 20 15 11.3

Blast - West Roxbury, Mass.
Courtesy L. D. Leet

John F. Devane, S.J.

N E S A B U L L E T I N

April 1-30, 1948

Bulletin No. 208

***** (April 2) *****

Weston

eS 01 55 50 ca

Weston

iS 20 17 40 ca

Ottawa

P₂ 20 55 57

S₂ 56 15

S₁ 18

e 23

Dist. = 155 km. (96 mi.)

H = 20 55 31

***** (April 3) *****

Weston

eS 18 57 50

Weston

eS 19 30 36

***** (April 4) *****

Ottawa

P₂ 02 45 05.5

S₂ 45 29.5

e 45 42

Dist. = 210 km. (130 mi.)

H = 02 44 31

Weston

iS 02 45 53.4

iS₁ 45 54.7

Dist. = 291 km. (180 mi.)

(S₁-H)

Weston

iS 17 38 43

iS 20 06 54

***** (April 7) *****

Weston

iS 21 32 00

Blast - Kingsron, N.Y.
Courtesy L. D. Leet

***** (April 8) *****

Weston

iP₁ 01 24 02
iP₁P₁ 03
iS₁ 24 10
i(2SS) 16.4

iS 19 03 36

Dist. = 66.8 km. (42 mi.)
H = 01 24 17.1

Ottawa

P₂ 19 49 01
S₂ 49 18.5
e 49 25
Dist. = 150 km. (93 mi.)
H = 19 48 36

Weston

i 19 49 08
May not be same disturbance.

***** (April 9) *****

Weston

eS 17 35 06.5

***** (April 12) *****

Weston

eP 07 56 47
iP 56 53
eS 08 00 43
iS 00 52

Dist. = 22°
West Indies

***** (April 14) *****

Weston

iS 20 06 20

***** (April 15) *****

Weston

eS 19 15 04

***** (April 18) *****

Weston

eP 10 03 02
eS 07 02.5

Dist. = 22°4
West Indies

***** (April 19) *****

Weston

iP₁ 20 30 48
iP₁P₁ 49.3
iS₁ 54
L 57

Dist. = 36 km. (22 mi.)
H = 20 30 43.5

***** (April 22) *****

Weston

eS 20 13 00.8

***** (April 23) *****

Weston

eP 09 47 28
eS 51 22
Dist. = 21.8
West Indies

Weston

eP 16 39 22.4
eS 43 30
Dist. = 23.4
West Indies

***** (April 24) *****

Weston

iP 20 09 02
iS 13 09
Dist. = 23.2
West Indies

Weston

iS_n 21 59 18.6
iS₂ 59 21.6
iS₁ 59 28.4
Dist. = 343 km. (213 mi.)
(S_n-H)

Ottawa

P₂ 21 58 34
S₂ 59 01
e 59 10
Dist. = 235 km. (146 mi.)
H = 21 57 55

***** (April 25) *****

Weston

iP 03 33 30
iS 37 35

Dist. = 23.1
West Indies

***** (April 26) *****

Weston

iP 11 30 41.7
iS 34 37

Dist. = 22°8
West Indies

***** (April 27) *****

Weston

eP 02 14 45
iS 18 20.3
Dist. = 20°2
West Indies

Weston

i 14 49 32.8
Blast - Swampscott, Mass.
Courtesy L. D. Leet

Weston

i 15 18 18
Blast - Swampscott, Mass.
Courtesy L. D. Leet

Weston

i 20 04 25.6
Blast - Winchester, Mass.
Courtesy L. D. Leet

Weston

i 19 39 21.8
Blast - Winchester, Mass.
Courtesy L. D. Leet

***** (April 28) *****

Weston

eP 20 48 41.5
eS 52 48.5
i 53 00

Dist. = 23°2
West Indies

***** (April 29) *****

Weston

iP 21 48 08.5
eS 52 09
i 17

Dist. = 22°4
West Indies

***** (April 30) *****

Weston

eP 04 17 02.8
i 04.8
iS 21 03.4
Dist. = 22°5
West Indies

Weston

iS 18 03 52

John F. Devane, S.J.

N E S A B U L L E T I N



May 1-31, 1948

Bulletin No. 209

***** (May 1) *****

Weston

iS 13 54 32.1

Weston

eP₁ 19 36 23
iS₁ 36 38
Dist. = 118 km. (73 mi.)
H = 19 36 03.8

***** (May 2) *****

Ottawa

P₂ 20 50 57
S₃ 51 16.5
S₂ 51 18
e 51 22
Dist. = 185 km. (114 mi.)
H = 20 30 27

Weston

e 20 50 52
iS₁ 52 19.7
Dist. = (S₁-H) 390 km. (242 mi.)

***** (May 3) *****

Weston

eS 18 30 23.4
iS 19 07 50.6

***** (May 4) *****

Harvard

iP 02 23 43
iS 23 56.5

Dist. = 111 km. (68 mi.)
H = 02 23 24.5
Reported from Westerly, R.I.

***** (May 5) *****

Weston

iP 05 21 59.5
iS 25 51
Dist. = 21.02
West Indies

Ottawa

P₂ 19 01 55.5
P₃ 01 57.8
S₂ 02 13.5
e 02 21.5
Dist. = 155 km. (96 mi.)
H = 19 01 30

***** (May 7) *****

Ottawa

P₃ 12 02 53.5
e 02 56.0
S₃ 03 13.4
S₁ 03 18
Dist. = 168 km. (104 mi.)
H = 12 02 26.7

Weston

P_n 12 03 24.3
P₂ 03 32
P₁ 03 36.5
S_n 04 08.8
S₃ 04 13.2
S₂ 04 19
Dist. = 430 km. (267 mi.)

Harvard

iP₃ 12 03 25
iP₂ 03 30
iP₁ 03 32.5
e 03 47.5
iS_n 04 05
iS₁ 04 18
Dist. = 350 km. (217 mi.)

Weston

iS 19 17 14

Epicenter 73°35' W., 45°53' N., H = 12 02 26.5 Based on records from
Ottawa, Shawinigan Falls, Seven Falls, Weston, Harvard, Philadelphia,
Burlington, Ville Marie, Temiskaming and Kirkland Lake.
Courtesy of W. W. Doxsee.

***** (May 10) *****

Weston

iP₁ 18 21 51.8
iS₁ 22 10.7

Dist. = 150 km. (93 mi.)
H = 18 21 27.4

***** (May 13) *****

Weston

iP₂ 17 28 16.1
iP₁ 28 16.5
i(2P₁P₂) 28 18.5
iS₂ 28 31.4
iS₁ 28 32

Dist. = 127.5 km. (79 mi.)
H = 17 27 55.2

***** (May 14) *****

Weston

1P1 02 23 36
1S1 48.7

Dist. = 104 km. (65 mi.)
H = 02 23 18.7

***** (May 18) *****

Weston

1P1 17 02 38
1P1F1 02 43
1S2 02 54.5
1S1 02 55.3
1(2S1S2) 02 58.7

Dist. = 142.5 km. (88 mi.)
H = 17 02 14.2

***** (May 20) *****

Weston

1S 19 57 30.1

Weston

eP (?) 21 49 20
1S 49 39

***** (May 23) *****

Ottawa

P2 04 04 11.7
S2 08 22.2
e 08 25

Dist. = 90 km. (56 mi.)
H = 04 07 56
Cornwall?

***** (May 24) *****

Weston

1P1 10 48 25.6
1P1P1 48 26.2
1S1 48 35.1
1S1S1 48 36.5
L 48 39.7
Dist. = 77 km. (48 mi.)
H = 10 48 12.8

Weston

1P1 19 55 38.7
1(2P1P1) 55 40.7
1S1 55 54
1S1S1 55 55
1(2S1S1) 55 57.9
L 56 01
Dist. = 124 km. (77 mi.)
H = 19 55 18

Weston

eP 19 56 49.5
1S1 57 05
Aftershock of preceding

Weston

1S 20 30 17

***** (May 25) *****

Weston

iP₁ 14 27 02.7
iS₁ 27 17.5
iS₁S₁ 27 19.3
i(2S₁S₁) 27 22.2
L 27 26
Dist. = 129 km. (80 mi.)
H = 14 26 47.8

Weston

iP₁ 23 24 04.2
iS₁ 28 05.1
Dist. = 22.4
West Indies

***** (May 26) *****

Weston

iP₂ 20 25 19.4
iP₁ 25 20.5
iS₂ 25 39.0
iS₁ 25 40.9
i(2S₁S₁) 25 43.4
L 25 51.6

Dist. = 167.5 km. (104 mi.)
H = 20 24 51.6

***** (May 28) *****

Weston

iS 18 30 33

***** (May 29) *****

Weston

iS 17 44 03

***** (May 31) *****

Ottawa

P₂ 21 01 17.6
i 01 19.3
S₂ 01 35
S₁ 01 38.5
e 01 41
Dist. = 150 km. (93 mi.)
H = 21 00 53

Weston

e 21 02 32.5
i 02 36
May not be same disturbance

John F. Devane, S.J.

N E S A B U L L E T I N



June 1-30, 1948

Bulletin No. 210

***** (June 1) *****

Weston

eS(?) 19 13 11
iS(?) 20 40 47

***** (June 2) *****

Weston

eS 13 44 35
eS 16 25 58

Weston

iS(?) 18 40 00
iS₁ 18 40 11

eS 20 26 07

Locals or Blasts

***** (June 3) *****

Weston

iS 19 03 21

Weston

eS 19 46 45.5

***** (June 4) *****

Weston

iP₁ 19 26 12
iS₁ 19 26 31.5

Dist. $\neq$ 155 km. (96 mi.)
H = 19 25 46.8

***** (June 6) *****

Weston

iP 08 03 03
iS 06 55.5

Dist. = 21.5
West Indies

***** (June 7) *****

Weston

iS 16 27 15
iS 16 58 00

Locals or Blasts

***** (June 8) *****

Weston

e3 16 08 20

***** (June 9) *****

Ottawa

P3 03 04 35.5
P1 04 39
i 04 41
S3 04 53.3
S1 04 57.5
Dist. = 147 km. (91 mi.)
H = 03 04 12.2
Felt in Montreal area.

Weston

Pn 03 05 12
P2 05 17
Sn 05 49
i 05 54
S1 05 57
Dist. = 348 km. (238 mi.)
H = 03 04 12

***** (June 10) *****

Weston

P1 17 08 30
S2 08 49
S1 08 50.6
Dist. = 170 km. (106 mi.)
H = 17 08 01.8

Weston

iP1 15 55 12.7
iS1 55 31
Dist. = 178 km. (111 mi.)
H = 15 54 45.3

Weston

S(?) 17 52 18
S1 52 31

***** (June 11) *****

Ottawa

P2 18 41 36.5
S2 41 54
e 42 02
Dist. = 150 km. (93 mi.)
H = 18 41 12

Weston

eS(?) 19 44 32.5

Weston

iP 22 00 45
iS 04 42
Dist. = 220.2
West Indies

***** (June 12) *****

Weston

es 19 14 20
32.5
33.8

***** (June 13) *****

Weston

es 21 39 01
39 03.5

***** (June 14) *****

Ottawa

P₂ 16 22 12.7
S₂ 22 31.5
e 22 37
Dist. = 165 km. (102 mi.)
H = 16 21 45.5

Weston

P₁ 18 00 20
S₁ 00 38.7
L 00 47
Dist. = 154 km. (96 mi.)
H = 17 59 54.5

***** (June 15) *****

Weston

S₁ 21 12 09

***** (June 16) *****

Weston

S₁ 19 46 13

***** (June 17) *****

Weston

S₁ 19 13 10

***** (June 19) *****

Ottawa

P₂ 16 03 31
S₂ 03 52

Dist. = 185 km. (114 mi.)
H = 16 03 01

***** (June 21) *****

Ottawa

P₂ 18 23 25.5
S₂ 23 44.5
e 23 51

Dist. = 165 km. (102 mi.)
H = 18 22 58

Weston

S₁ 19 46 03
46 07

***** (June 22) *****

Ottawa

P₂ 20 22 49.5
S₂ 23 06.5
i 23 10
e 23 17

Dist. = 150 km. (93 mi.)
H = 20 22 25

***** (June 23) *****

Weston

S 17 28 55.5
28 57.5

Weston

S(?) 18 13 51
S₁ 14 02

***** (June 24) *****

Ottawa

P₂ 19 56 06
S₂ 56 30

Dist. = 210 km. (130 mi.)
H = 19 55 32

***** (June 25) *****

Ottawa

P₂ 15 10 03

S₂ 10 22

e 10 26.5

Dist. = 165 km. (102 mi.)

H = 15 09 36

Weston

S(?) 20 30 19

S₁ 30 22.5

Weston

S₁ 21 51 00

***** (June 26) *****

Weston

iS 14 11 27

John F. Devane, S.J.

N E S A B U L L E T I N



July 1-31, 1948

Bulletin No. 211

***** (July 1) *****

Ottawa

P₃ 22 27 00
 i 27 01.5
 S₂ 27 29.5
 i 27 32
 e 27 50.5
 Dist. = 260 km. (161 mi.)
 H = 22 26 22

Weston

P_n 22 27 02.6
 P₂ 27 06.1
 S_n 27 33
 S₂ 27 38
 S₁ 27 44
 Dist. = 283 km. (176 mi.)

Azimuth measurements favor Epicentre 72°40 W., 45°20 N.

***** (July 2) *****

Weston

S 16 56 50

Weston

S 21 45 45

***** (July 3) *****

Fordham

iP 21 49 09.5
 iS 49 14
 iL 49 16.5
 Dist. = 35 km. (21 mi.)
 H = 21 49 01

Weston

iP_n 21 49 44.5
 iP₂ 49 49
 iS_n 50 17.8
 iS₂ 50 23.6
 iS₁ 50 30
 Dist. = 309 km. (192 mi.)
 H = 21 49 01

***** (July 6) *****

Weston

iP 11 54 40
 iS 58 41.5
 Dist. = 22°6
 West Indies

Weston

iP 19 02 36
 iS 06 42
 Dist. = 23°2
 West Indies

***** (July 7) *****

Ottawa

P₃ 07 38 23
i 38 24.6
P₁ 38 26.5
i 38 29
S₃ 38 40.2
i 38 43.2
S₁ 38 44.0
Dist. = 150 km. (93 mi.)
H = 07 37 58
Felt in Montreal

Weston

P₃ 07 39 01
F₁ 39 03
S₂ 39 34
S₃ 39 38
S₂ 39 44
S₁ 39 49
Dist. = 390 km. (242 mi.)
H = 07 37 58

***** (July 8) *****

Weston

S(?) 18 27 24
S₁ 27 32

Ottawa

P₂ 22 04 55.5
S₂ 05 13.5
e 05 17.0
Dist. = 155 km. (96 mi.)
H = 22 04 30

***** (July 9) *****

Weston

P(?) 18 16 59
S(?) 17 11.2
S₁ 17 17

***** (July 10) *****

Weston

iP 00 16 06
iS 16 17.5
L 16 27
Dist. = 84 km. (52 mi.)

Weston

iP 00 43 05
iS 43 18
Dist. = 108 km. (67 mi.)

Weston

iP 01 04 12.5
iS 04 27.5
Dist. = 125 km. (77 mi.)

A series of underwater explosions

***** (July 10) *****
cont'd

Weston

iP 15 10 25.5
Local Blast.

Weston

iP 15 32 12.4
iP 18 47 14
Local Blasts.

***** (July 12) *****

Weston

iP 13 57 58
Local Blast.

Weston

iP 21 29 54
Local Blast.

***** (July 13) *****

Weston

Pn 15 21 56
P₁ 22 04
S_n 22 32
S₃ 22 35
S₂ 22 38.7
S₁ 22 46.7

Dist. = 340 km. (211 mi.)
H = 15 21 08.8

***** (July 14) *****

Weston

iP 13 54 24
Local Blast.

Weston

eP 19 39 00
iPP 39 35
eS 41 27
Dist. = 830 mi.

Fordham

eP 19 37 52
Dist. = 853 km. (530 mi.)
Blast at Bristol.

***** (July 15) *****

Weston

S 15 43 45
iP 20 37 39
Local Blast.

***** (July 16) *****

Weston

iP 14 46 14
iP 17 01 45
iP 15 21 31
Local Blasts.

***** (July 17) *****

Weston

P1 16 39 31
2P1P2 39 33
S1 39 47.2
2(S1S1) 39 51
Dist. = 133 km. (83 mi.)
H = 16 39 08.8

***** (July 18) *****

Weston

S 17 51 43

***** (July 19) *****

Weston

P2 16 59 55.5
P1 59 56
S1 17 00 13
S1S1 00 14
2(S1S1) 00 16
Dist. = 140 km. (87 mi.)
H = 16 59 32.7

Weston

S 17 00 37
Its P may be lost in the S of the
preceding shock.

***** (July 20) *****

Weston

iP 15 03 14.8
iP 15 23 59.4
iP 16 23 12
Local Blasts.

Weston

iP1 19 21 14
iS1 21 28.7
Dist. = 120 km. (74.6 mi.)
H = 19 20 54.2

***** (July 21) *****

Weston

S 15 53 04

Weston

iP 15 57 59.5
Local Blast.

***** (July 22) *****

Weston

iP 14 25 25
Local Blast.

Ottawa

P2 22 02 56
S2 03 12.7
S1 03 16.3
Dist. = 145 km. (90 mi.)
H = 22 02 32

Ottawa

P2 23 53 12
P1 53 14.7
S2 53 29.8
S1 53 32.9
e 53 37
Dist. = 155 km. (96 mi.)
H = 23 52 46

***** (July 23) *****

Weston

iP 13 24 13.7
iP 14 49 29
iP 17 59 14
Local Blasts.

Ottawa

P2 18 42 57
S2 43 15
S1 43 18.3
e 43 22
Dist. = 155 km. (96 mi.)
H = 18 42 31

***** (July 24) *****

Weston

P1 11 03 49.0
S1 04 04.5
S1S1 04 05.5
2(S1S1) 04 08.5
Dist. = 127 km. (79 mi.)
H = 11 42 27.8

Ottawa

P1 16 59 20.5
S2 59 34.5
S1 59 38.5
Dist. = 155 km. (96 mi.)
H = 16 58 52

- 6 -

***** (July 26) *****

Weston

iP₁ 06 16 46
iS₁ 16 59.6
Dist. = 110 km. (68 mi.)
H = 06 16 27.7

Weston

iP 16 01 26
Local Blast.

***** (July 27) *****

Ottawa

P_n 18 30 41
P₁ 30 52.5
S₃ 31 27
S₂ 31 39.5
S₁ 31 45
Dist. = 420 km. (260 mi.)
H = 18 29 41

Weston

P_n 18 30 35
P₃ 30 40
S₃ 31 18
S₂ 31 24
S₁ 31 32.6
Dist. = 380 km. (236 mi.)

145 miles due North of Portland, Me.

***** (July 28) *****

Weston

iP 16 06 53.5
Local Blast.

Weston

(?)P_n 19 43 15.5
(?)P₂ 43 21
Dist. = 353 km. (219 mi.)
Using Ottawa time of origin.

Ottawa

P₂ 19 42 54
S₂ 43 13
Dist. = 165 km. (102 mi.)
H = 19 42 27

***** (July 29) *****

Weston

iP 15 16 14
Local Blast.

Weston

S 22 06 05

- 7 -

***** (July 30) *****

Ottawa

P₁ 13 44 57
S₁ 45 08.5
i 45 14.4
Dist. = 95 km. (59 mi.)
H = 13 44 39

Weston

iP 14 37 07.5
iP 19 19 38
iP 22 32 54
Local Blasts.

Ottawa

P 20 01 19.4
S 01 40
S 01 43.5
e 01 53
Dist. = 180 km. (111 mi.)
H = 20 00 50

John F. Devane, S.J.

N E S A B U L L E T I N



August 1-31, 1948

Bulletin No. 212

***** (August 2) *****

Weston

iP₂ 00 17 07.3
 iP₁ 08.1
 iS₂ 26
 iS₁ 27.5
 iS₁iS₁ 28.4
 Dist. = 158 km. (98 mi.)
 H = 00 16 41.7
 Dilatation to SE

Weston

iS₁ 06 28 51
 iP 14 34 08.8
 iP 18 11 22.3
 iP 16 00 24.8
 iS₁ 20 37 54
 Series of local blasts.

***** (August 3) *****

Ottawa

P₂ 18 03 12
 S₂ 03 29
 e 03 35
 Dist. = 150 km. (93 mi.)
 H = 18 02 48

Fordham

iP₂ 19 04 40
 iS₂ 05 02.5
 Dist. = 194 km. (121 mi.)
 H = 19 04 08

Weston

eS_n 19 05 46
 eS₂ 05 56
 iS₁ 06 07
 Dist. = 410 km. (255 mi.)
 Probable epicentre
 39°4 N., 72°8 W.

Weston

iP₂ 19 46 55
 iP₁iP₁ 56
 iS₂ 47 12
 S₁ 47 13
 iL 21
 Dist. = 141 km. (87 mi.)
 H = 19 46 32.1
 Dilatation to SW

***** (August 4) *****

Ottawa

P₂ 14 26 47.5
 S₂ 27 05.8
 S₁ 27 09.0
 e 27 14.5
 Dist. = 160 km. (99 mi.)
 H = 14 26 21

Weston

iP 18 14 35.2
 iP 21 56 17.5
 Local blasts

- 2 -

***** (August 5) *****

Weston

iP 16 00 43 Local blast

iS₁ 18 18 58

***** (August 6) *****

Ottawa

P₁ 11 17 39

S₂ 17 53.8

S₁ 17 58

Dist. = 160 km. (99 mi.)

H = 11 17 09

Weston

eS 16 44 11

iS₁ 14

Weston

iP₁ 18 33 34

Local blast

***** (August 7) *****

Ottawa

P₂ 20 15 57

S₂ 16 21

Dist. = 210 km. (130 mi.)

H = 20 15 23

Weston

iP 15 15 21

Local blast

Weston

iS₂ 20 16 42

iS₁ 16 44

Dist. = 280 km. (174 mi.) (S₁-H)

Tentative epicentre 44° N, 74° W

***** (August 8) *****

Weston

S₁ 04 28 52

S₁ 15 28 25

Ottawa

P₂ 17 27 20.3

i 27 22

S₂ 27 37.4

S₁ 27 41.4

e 27 45.4

Dist. = 150 km. (93 mi.)

H = 17 26 56

- 3 -

***** (August 9) *****

Weston

S 02 07 09
S 15 10 23
S 20 18 46.5

***** (August 10) *****

Weston

iS 01 23 52
iS₁ 19 15 54
iP 20 27 58
iS₁ 23 22 59

Blast

***** (August 11) *****

Weston

iS₁ 19 19 02

***** (August 12) *****

Ottawa

P₃ 17 20 13.0
P₂ 20 14.3
S₃ 20 30.5
S₂ 20 33.4
e 20 38.5
Dist. = 150 km. (93 mi.)
H = 17 19 49

Weston

iP₂ 19 38 33.8
iP₁ 34.8
iP₁S₁ 35.5
iS₂ 54
iS₁ 56
eL 39 05.5
Dist. = 172.5 km. (107 mi.)
H = 19 38 06.3
Dilatation to SW

***** (August 13) *****

Weston

iS 01 42 07
iS₁ 19 15 08
iS 21 15 14

iP 14 07 26
iP 18 33 47.7 Local blasts

- 4 -

***** (August 14) *****

Weston

S 18 05 54

***** (August 15) *****

Weston

S 16 41 00

Ottawa

P₂ 17 57 40.8
S₂ 57 50.6
S₁ 57 51.5
e 57 57
Dist. = 83 km. (51 mi.)
H = 17 57 24.6

***** (August 16) *****

Weston

iP 15 15 06.2
iP 15 45 07.2
iP 16 00 44.3
Local blasts.

Weston

iP₁ 19 15 11
iS₁ 15 25
iS₁S₁ 15 26
Dist. = 115 km. (71.5 mi.)
H = 19 14 51.6

Ottawa

P₃ 19 59 28.8
i 29.7
S₃ 52.9
S₂ 55.0
S₁ 20 00 03.0
Dist. = 208 km. (129 mi.)
H = 19 58 57.7

***** (August 17) *****

Weston

iP 13 07 55.9 Local blast.

iS₁ 15 15 29
iS₁ 19 14 37
iS₁ 20 31 15

***** (August 18) *****

Weston

iP₁ 18 42 17
S 23 09 30

Ottawa

P₂ 20 51 25.5
S₂ 51 49.5
e 52 00
Dist. = 210 km. (130 mi.)
H = 20 50 51

***** (August 19) *****

Weston

iP 13 50 42.3
iP 20 59 13.8
Local blasts

***** (August 20) *****

Weston

iP 14 10 55.9 Local blast.
iS 14 41 14
iS 18 23 37
iS 22 35 11.5

***** (August 23) *****

Ottawa

P₂ 13 29 09
S₂ 29 27
e 29 34
Dist. = 155 km. (96 mi.)
H = 13 28 43

Ottawa

P₂ 21 22 26
S₂ 22 41.5
S₁ 22 44.5
e 22 47
Dist. = 135 km. (83 mi.)
H = 21 22 04

***** (August 24) *****

Weston

iP 13 45 39 Local blast.

Weston

iP₁ 18 16 25
iS₁ 16 42
iS₁S₁ 16 43
iL 50.2
Dist. = 140 km. (87 mi.)
H = 18 16 01.8

***** (August 24) *****
cont'd

Weston

Ottawa

iP₂ 14 17 25.8
iP₁ 26.5
iS₂ 43.8
iS₁ 45.0
eL 54
Dist. = 152.5 km. (94.5 mi.)
H = 14 17 01.2

P₂ 21 08 38
S₂ 08 55
S₁ 08 58
Dist. = 150 km. (93 mi.)
H = 21 08 14

***** (August 25) *****

Weston

Ottawa

iP 15 58 26.6
Local blast.

P₂ 16 14 51.5
S₂ 15 12.5
e 15 17
Dist. = 185 km. (114 mi.)
H = 16 14 21

***** (August 26) *****

Ottawa

Weston

P₂ 14 16 53
i 16 54.7
S₂ 17 12
i 17 14
e 17 18
Dist. = 165 km. (102 mi.)
H = 14 16 26

iP₁ 19 35 48.2
iP₁P₁ 49.8
iS₁ 57.8
i 59.5
iL 36 02.5
Dist. = 79 km. (49 mi.)
H = 19 35 35

Ottawa

P₂ 21 47 22
P₁ 47 23.5
S₂ 47 51
i 47 53
S₁ 47 57.5
Dist. = 255 km. (158 mi.)
H = 21 46 40.5

***** (August 27) *****

Weston

iP 15 49 17 Local blast

iS 16 49 36

***** (August 28) *****

Weston

iS₁ 19 49 10

***** (August 30) *****

Weston

iS₁ 15 13 16.5

iS₁ 15 48 48

***** (August 31) *****

Ottawa

P₂ 20 17 06.5

S₂ 17 30.5

e 17 40

Dist. = 210 km. (130 mi.)

H = 20 16 32

Weston

S_n 20 17 44.2

S₁ 17 54.5

Dist. = 285 km. (177 mi.)
(s-H)

Epicentre near Burlington, Vermont.

John F. Devane, S.J.

September 1-30, 1948

Bulletin No. 213



*** (September 1) ***

Weston

iP 00 13 10
 iS 00 17 05
 Dist. = 2198
 West Indian

Weston

S 18 48 13

Ottawa

P₂ 14 11 45
 S₂ 12 02.5
 S₁ 12 05.5
 e 12 11.5
 Dist. = 150 km. (93 mi.)
 H = 14 11 20

*** (September 2) ***

Weston

iP 15 56 57.8
 Local blast

Weston

iP₂ 18 33 56.7
 iS₃ 34 40.6
 iS₂ 47
 iS₁ 58.8
 Dist. = 453 km. (281.5 mi.)
 H = 18 32 47.3

*** (September 3) ***

Weston

iP 15 58 11.5
 Local blast

Ottawa

P₃ 18 33 01
 S₃ 34 03.5
 Dist. = 585 km. (363 mi.)

Weston

S 16 22 02
 S 16 51 46
 S 19 05 24
 S 19 39 54
 Underwater explosions

*** (September 4) ***

Weston

S 00 01 30
 S 21 50 51
 S 22 42 30
 Underwater explosions

*** (September 5) ***

Weston

S 00 24 01
S 08 24 06
S 09 44 52

Underwater explosions

*** (September 6) ***

Weston

S₁ 19 01 58.3

*** (September 7) ***

Weston

iP 14 33 06.2

iP 20 24 53

Local blasts

*** (September 8) ***

Weston

iP₂ 16 54 45.9

iP₁ 54 46.6

iS₁ 55 03.2

iS₁S₁ 55 04.5

iL 55 13

Dist. = 146.5 km. (91 mi.)

H = 16 54 21.3

*** (September 9) ***

Weston

iP 15 59 09

Local blast

Ottawa

P₂ 16 10 35.5

S₂ 11 00

e 11 12

Dist. = 215 km. (133 mi.)

H = 16 10 00

*** (September 10) ***



Ottawa

P₁ 01 22 10
S₁ 22 13.8
Dist. = 30 km. (18 mi.)
H = 01 22 04
Felt at Kingsmere, Que.

Weston

iS₁ 19 38 50
iP₁ 20 47 22 Local blast

*** (September 11) ***

Weston

iP₂ 13 10 49.3
iP₁ 10 50
iS₂ 11 07
iS₁ 11 08
iL 11 13.5
Dist. = 148.5 km. (92 mi.)
H = 13 10 25.3

*** (September 12) ***

Ottawa

P_n 13 21 27.0
P₂ 21 28.5
S_n 21 45.7
S₂ 21 48
e 21 52
Dist. = 157 km. (97 mi.)
H = 13 21 02

Weston

S₁ 14 53 15

*** (September 13) ***

Weston

iP 14 10 58
iP 18 24 20.5
Local blasts

Weston

iP₁ 19 36 53.2
iS₁ 37 08.5
Dist. = 116.5 km. (72 mi.)
H = 19 36 34.8

*** (September 14) ***

Weston

iP 19 21 15
iP 19 35 55
S 19 44 21
Local blasts

*** (September 15) ***

Weston

iP 16 19 43.8
Local blast

*** (September 16) ***

Weston

S 02 20 23

iP 15 49 24.6
iP 17 44 23

Local blast
Local blast

Weston

S 19 11 12

S 20 10 11

*** (September 18) ***

Ottawa

P_n 17 52 22.5
S_n 52 38.0
S₁ 52 41.0
e 52 43

Dist. = 136 km. (84 mi.)

H = 17 52 00

Weston

S 19 10 17

*** (September 21) ***

Ottawa

P_n 10 34 44.8
P₂ 34 46.2
e 44.8

S_n 35 00.4
S₁ 35 02.8

Dist. = 136 km. (84 mi.)

H = 10 34 22

Weston

iP 18 27 50

Local blast

iS₁ 20 21 41

*** (September 22) ***

Weston

iP₁ 16 40 17
iS₁ 40 34.2
Dist. = 142 km. (88 mi.)
H = 16 39 53.6

iP₁ 16 58 44
iS₂ 59 00
iS₁ 00.5
Dist. = 132 km. (82 mi.)
H = 16 58 22.5

Weston

S₁ 16 59 20.6
P lost in preceding quake

iP₁ 17 02 24.6
iS₂ 39.5
iS₁ 40.7
Dist. = 140 km. (87 mi.)

*** (September 23) ***

Weston

S 16 37 54
S 17 26 39
S 18 43 32
Underwater explosions

*** (September 24) ***

Weston

iS₁ 04 42 02
iS₁ 18 59 20

*** (September 27) ***

Weston

iP 15 31 08
Local blast

Weston

iP₂ 21 24 43.2
iS₁ 24 44
iS₂ 25 01.2
iS₁ 25 02.4 (87 mi.)
iL 25 11.4
Dist. = 151 km. (94 mi.)
H = 21 24 18.8

*** (September 28) ***

Weston

1P 16 50 17.5

S 16 33 11

S 17 46 19

*** (September 29) ***

Weston

S 16 10 51

S 18 20 18

*** (September 30) ***

Weston

1P 16 00 47 Local blast

1S 17 22 57

Note: The disturbances, identified as Underwater Explosions, are confirmed by Mr. Samuel Katz of Columbia University, who kindly furnished us with the times of the explosions, but not their positions.

John F. Devane, S.J.

N E S A B U L L E T I N

October 1-31, 1948

Bulletin No. 214

***** (October 1) *****

Weston

iS₁ 15 14 32

Weston

iS₁ 15 52 35.5

***** (October 2) *****

Weston

iP₁ 11 59 47.1

iS₁ 12 00 03

Dist. = 126 km. (78 mi.)

H = 11 59 26.6

***** (October 3) *****

Weston

iS₁ 03 03 26

Weston

iS₁ 19 22 22

***** (October 4) *****

Weston

iP₂ 19 43 50.6

iS₂ 44 10.6

iS₁ 44 12.5

Dist. = 170 km. (106 mi.)

H = 19 43 23.4

Weston

iS₁ 15 15 00

Local blast.

***** (October 6) *****

Weston

iP₁ 18 15 23.3

iS₁ 15 39.2

Dist. = 126 km. (78 mi.)

H = 18 15 02.8

***** (October 7) *****

Weston

eS 18 32 08

2

***** (October 8) *****

Ottawa

Pn 20 01 12.6
P2 01 14.5
Sn 01 29.0
S2 01 33.0
Dist. = 133 km. (82 mi.)
H = 22 00 50.6

Weston

eSn 20 10 20.8
iS1 10 31

***** (October 9) *****

Weston

iP2 21 19 29
iP1P4 19 31.1
iS2 19 51.6
iS1 19 54.2
Dist. = 195 km. (121 mi.)
H = 21 18 57.9

***** (October 10) *****

Weston

eS 07 39 20

Weston

eS 09 09 54

Ottawa

Pn 20 18 39.6
P2 18 41.2
Sn 18 57.5
S2 19 00.9
e 19 05.5
Dist. = 145 km. (90 mi.)
H = 20 18 15

***** (October 11) *****

Weston

iP1 15 13 23.5
iP1S1 13 27.8
iS1 13 28.6
iL 13 31
Dist. = 40 km. (24.8 mi.)
H = 15 13 17

- 3 -

***** October 12) *****

Weston

iP₁ 05 48 11
iS₁ 48 30.5
Dist. = 156 km. (97 mi.)
H = 05 47 45.6

There seems to be a series of five explosions 2.6 seconds apart, all the same distance from here. It is an odd time for blasts.

***** (October 13) *****

Weston

iP₁ 17 14 16
iS₁ 14 20
Dist. = 31 km. (19.2 mi.)
H = 17 14 10.9 - Blast

Ottawa

P_n 18 16 07.0
P₂ 16 08.8
S_n 16 26.8
S₂ 16 28.0
e 16 32
Dist. = 154 km. (95 mi.)
H = 18 15 41

***** (October 14) *****

Weston

iP₂ 18 20 43
iP₁ 20 43.9
iS₂ 21 01.9
iS₁ 21 03.4
Dist. = 160 km. (99.4 mi.)
H = 18 20 16.7

***** (October 15) *****

Weston

iS₁ 16 44 41
iS₁ 44 47
iS₁ 44 57
A series of blasts like that of October 12 but the P_s are indiscernible.

Ottawa

P_n 19 08 27.0
S_n 08 50.5
e 09 03
Dist. = 203 km. (126 mi.)
H = 19 07 56

- 4 -

***** (October 19) *****

Weston

e 22 27 34

***** (October 20) *****

Ottawa

Pn 11 59 34.0
P1 59 35.6
Sn 59 51.6
S1 59 54.2
Dist. = 149 km. (92.6 mi.)
H = 11 59 10

Ottawa

P2 19 22 47.0
Sn 23 11.4
e 23 23
Dist. = 265 km. (164 mi.)
H = 19 22 03.5

Weston

iS1 19 23 36
Dist. = 255 km. (158.5 mi.)
Near Burlington, Vt.

***** (October 21) *****

Ottawa

P1 17 42 17.9
S1 42 19.4
Dist. = 10 km. (6.2 mi.)
H = 17 42 15

Weston

eS1 20 39 27

***** (October 22) *****

Ottawa

ePn 21 27 36.8
P2 27 39.1
P1 27 45.0
Sn 28 09.0
S2 28 11.0
e 28 32
Dist. = 280 km. (173 mi.)
H = 21 26 54

- 5 -

***** (October 23) *****

Ottawa

In 13 24 47.7
P₂ 24 49.2
S₁ 25 05.6
S₁ 25 08.5
Dist. = 153 km. (95 mi.)
H = 13 24 23

***** (October 24) *****

Ottawa

P_n 13 27 04.5
S_n 27 28.0
e 27 40.0
Dist. = 203 km. (126 mi.)
H = 13 26 33

***** (October 26) *****

Weston

e 20 15 43

Weston

1S₁ 22 20 11

***** (October 27) *****

Ottawa

P_n 17 04 24.2
P₁ 25.8
S_n 40.6
S₁ 44.2
e 52
Dist. = 140 km. (86 mi.)
H = 17 04 01

***** (October 28) *****

Weston

eS₁ 20 10 25

1S₁ 21 56 19

eS₁ 22 07 56

- 6 -

***** (October 30) *****

Ottawa

Pn 17 00 06.3
P1 07.9
Sn 22.9
S2 24.1
S1 26.2
Dist. = 141 km. (87 mi.)
H = 16 59 43

Ottawa

Pn 21 55 31.6
P2 32.6
Sn 55.6
S2 58.0
e 56 06
Dist. = 215 km. (133 mi.)
H = 21 55 00

Ottawa

Pn 19 40 36.2
P1 37.8
Sn 53.6
S1 57.0
e 41 02
Dist. = 148 km. (91 mi.)
H = 19 40 12

Weston

iS1 21 56 19
Dist. (S1-H) = 275 km. (171 mi.)

John F. Devane, S.J.

N E S A B U L L E T I N

November 1-30, 1948

Bulletin No. 215

***** (November 1) *****

Weston

1P1 16 58 07.2
Local Blast

***** (November 2) *****

Weston

1P1 21 32 50.1
Local blast.

***** (November 3) *****

Weston

eS 21 26 07

***** (November 4) *****

Fordham

1P2 01 38 43
1S1 39 10
1 39 13
Dist. = 234 km. (145 mi.)

Weston

1Pn 01 39 22
1P3 39 27.2
1S1 40 03.6
eS2 12.6
1S1 22.4
L 49
Dist. = 395 km. (245 mi.)

Absolute times do not agree to give a common
origin time.

Weston

1P1 14 58 23.2

Weston

eS 21 32 56

Ottawa

Pn 23 06 36.8
P2 06 38.5
Sn 06 53.6
S2 06 57.2
e 07 06
Dist. = 143 km. (88 mi.)
H = 23 06 13

- 2 -

***** (November 5) *****

Weston

es 22 01 45.6

***** (November 6) *****

Weston

es 01 22 11

Weston

1S₂ 21 17 21

Weston

es 17 14 02

***** (November 8) *****

Weston

1P_n 21 31 19
1P₂ 31 24
S_n 31 55
S₂ 32 02.3
S₁ 32 09.5

Dist. = 337 km. (209 mi.)
H = 21 30 32

***** (November 10) *****

Weston

es 19 31 06

Weston

1S₁ 22 30 53

***** (November 11) *****

Ottawa

P_n 21 45 50.0
P₂ 45 51.0
S_n 46 14.0
S₂ 46 15.6

Dist. = 220 km. (136 mi.)
H = 21 45 18

***** (November 12) *****

Weston

1P₁ 16 40 03.7
Local blast

Weston

1S₁ 21 07 30

- 3 -

***** (November 13) *****

Ottawa

e 16 51 26.5
e 51 57
1 52 05

Weston

eS₁(?) 16 52 14
eL 52 34

***** (November 14) *****

Ottawa

P_n 17 14 02.5
P₂ 04.2
S₁ 20.2
S₂ 22.0
e 23.3
e 29

Dist. = 145 km. (90 mi.)
H = 17 13 40

***** (November 15) *****

Weston

iP₁ 17 01 51
iS₁ 02 00.2
Dist. = 72 km. (44.7 mi.)
H = 17 01 39.2

Weston

iP₁ 15 49 49.7
iS₁ 57
Dist. = 57 km. (35.4 mi.)
H = 15 49 40.4

Weston

iP₁ 20 44 18.2
iS₁ 25
Dist. = 53 km. (33 mi.)
H = 20 44 09.5

Weston

iP₁ 19 40 40
iS₁ 47.6
Dist. = 60 km. (37.3 mi.)
H = 19 40 30.2

***** (November 16) *****

Ottawa

P_n 19 53 16.0
S_n 53 36.5
e 53 42

Dist. = 175 km. (108 mi.)
H = 19 52 48

- 4 -

***** (November 18) *****

Ottawa

Pn 21 52 50.2
Sn 53 13.5
S2 53 16

Dist. = 200 km. (124 mi.)
H = 21 52 29

***** (November 19) *****

Weston

1F1 15 26 10.3
1S1 19.6

Dist. = 73 km. (45 mi.)
H = 15 25 58.4

***** (November 21) *****

Weston

1F1 14 49 06.4
1S2 24.1
1S1 25.2
e1 34

Dist. = 149 km. (92.6 mi.)
H = 14 48 42

Ottawa

Pn 21 55 54.6
P2 55 57
Sr 55 08.2
e 56 12.7

Dist. = 105 km. (65 mi.)
H = 21 55 35.0

***** (November 22) *****

Ottawa

Pn 23 33 15.4
P2 16.4
P1 19.2
Sn 34.5
S2 34.8
S1 38.4
Dist. = 166 km. (103 mi.)
H = 23 32 43.9

Weston

S2 23 34 11.5
S3 14
S1 24.8
Dist. (S1-H) = 322 km. (200 mi.)

- 5 -

***** (November 23) *****

Ottawa

Pn 04 33 58.0
P2 33 59.0
Sn 34 17.5
S2 34 19.2
Dist. = 169 km. (105 mi.)
H = 04 33 26

Ottawa

Pn 21 30 27.0
P2 29.0
Sn 48.5
S2 49.2
e 53
Dist. = 186 km. (115 mi.)
H = 21 29 53

***** (November 24) *****

Ottawa

Pn 17 06 45.5
P2 06 47.0
Sn 07 01.8
S2 07 05.0
e 07 13
Dist. = 132 km. (82 mi.)
H = 17 06 23

Weston

eS₁ 17 35 11

***** (November 26) *****

Ottawa

P₁ 19 05 00.5
P₂ 02.0
Sn 13.5
S₂ 21.6
Dist. = 150 km. (93 mi.)
H = 19 04 36

Weston

P₁ 20 22 26.3
P₂ 22 42.2
P₃ 26 03.2
A series of local blasts

***** (November 27) *****

Ottawa

Pn 22 21 12
P2 21 22.0
Sn 21 55.5
S2 22 15.5
S₁ 22 25.5

Dist. = 500 km. (310 mi.)
H = 22 20 00
Hookburst at Kirkland Lake

***** (November 29) *****

Weston

eP ₃	04 57 34.7	Dist. = 317 km. (197 mi.) H = 04 56 46.6
iP ₂	57 36	
S ₃	58 07.3	
iS ₂	10.5	
iS ₁	18	

***** (November 30) *****

Ottawa

P _n	21 05 29.0
P ₂	30.6
S _n	47.8
S ₂	49.5
Dist. = 155 km. (96 mi.)	
H = 21 05 04	

Ottawa

P _n	22 14 53
P ₂	14 54.6
S _n	15 18
S ₂	15 19
Dist. = 217 km. (134 mi.)	
H = 22 14 20	

John F. Devane, S.J.

N E S A B U L L E T I N

December 1-31, 1948

Bulletin No. 216



***** (December 1) *****

Weston

eS₁ 19 15 24

Weston

iP₁ 21 29 27.7
Local blast

Weston

iS₁ 20 30 09

***** (December 3) *****

Weston

iS₁ 20 53 42

***** (December 8) *****

Weston

e 20 47 05

***** (December 9) *****

Weston

iS₁ 19 35 00.7

Weston

eS 20 23 02

***** (December 10) *****

Weston

iP₁ 17 03 21.6
Local blast

***** (December 13) *****

Weston

eS 20 10 57

***** December 14) *****

Weston

iS₁ 21 53 10

***** (December 15) *****

Weston

e 21 07 05

***** (December 16) *****

Ottawa

P_n 17 06 41.7
P₂ 06 43.2
S_n 07 06.5
e 07 19
Dist. = 215 km. (133 mi.)
H = 17 06 09

Ottawa

P_n 20 09 51.5
P₂ 09 52.2
S_n 10 09.6
S₂ 13.5
e 16
Dist. = 140 km. (86 mi.)
H = 20 09 28

***** (December 19) *****

Weston

e 03 46 07

Weston

e 17 48 33

***** (December 20) *****

Weston

e 02 02 52

***** (December 21) *****

Weston

1S₁ 20 35 52

***** (December 22) *****

Ottawa

P_n 16 52 19.0
P₂ 20.8
S_n 36.1
S₂ 38.7
e 43

Dist. = 140 km. (86 mi.)
H = 16 51 56

***** (December 23) *****

Ottawa

P _n	17	03	42.0
P ₂		03	44.0
S _n		04	00.0
S ₂		04	02.5
e		04	07

Dist. = 150 km. (93 mi.)
H = 17 03 18

***** (December 25) *****

Weston

e	18	58	38
---	----	----	----

***** (December 28) *****

Weston

e	13	15	20
---	----	----	----

Weston

iP	06	33	24
iS		37	14
Dist. = 21.4			
West Indies			

Weston

iS ₁	18	51	32
-----------------	----	----	----

Weston

S _n	20	14	57
iS ₁		15	10

***** (December 31) *****

Weston

iS ₁	22	08	20
-----------------	----	----	----

John F. Devane, S.J.