

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

January 1950

Bulletin No. 229

***** (Jan. 1) *****

Harvard

i 21 56 03.3
i 22.6

Group of sinusoidal waves, large amplitude

***** (Jan. 3) *****

Harvard

i 20 50 54.2

Weston

i 20 50 56.0 (B)

***** (Jan. 3) *****

Harvard

iP₁ 21 29 02.0
iS₁ 15.5
Dist. = 112 km.
H = 21 28 23.4

Weston

iS₁ 21 29 16.6 (B)

***** (Jan. 4) *****

Harvard

i 19 27 29

Weston

i 19 28 01 (B)

***** (Jan. 5) *****

Harvard

iP₁ 16 01 07.1
iS₁ 19.1
Dist. = 112 km.
H = 16 00 51

Weston

iS₁ 16 01 21 (B)

Ottawa

P_n 18 24 36
P₂ 38
S₂ 25 09
S₁ 13

Dist. = 250 km.
H = 18 23 58

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***** (Jan. 6) *****

Harvard

iS₁ 19 35 40.5 (B)

Ottawa

P_n 23 19 02
P₁ 04
S₂ 25
Dist. = 196 km.

La Cave

P₁ 23 18 46.7
S₁ 18 58.2
Dist. = 91 km.
H = 23 18 32

***** (Jan. 9) *****

Harvard

e 00 19 17

Local?

Harvard

i 20 54 20.0

Weston

e 20 54 21

***** (Jan. 12) *****

Harvard

i 22 08 20

i 22 10 02.3

Blasts

i 23 38 38

***** (Jan. 13) *****

Ottawa

P_n 18 16 58
S₂ 17 23

Dist. = 193 km.
H = 18 16 28

***** (Jan. 14) *****

Harvard

i 21 13 38.8 (B)

Ottawa

S₂ 22 27 34
L 41

- 3 -

***** (Jan. 18) *****

Ottawa

Pn 16 40 19
S₂ 40 39
Dist. = 170 km.
H = 16 39 52

Weston

e 19 09 21 (B)

***** (Jan. 19) *****

Harvard

i 14 58 25 (B)

iP₁ 16 21 39.6
iS₁ 21 51.2

Dist. = 91 km.
H = 16 21 25 (B)

iS₁ 17 58 57

Weston

e(S) 21 37 01

***** (Jan. 21) *****

Harvard

iPn 23 35 04.2
iS₂ 28.1
iS₁ 30.8
Dist. = 197 km.
H = 23 34 34

Weston

iS₁ 23 35 32 (B)

Ottawa

P₁ 19 45 30
S₁ 39
Dist. = 71 km.
H = 19 45 18.5

***** (Jan. 23) *****

Harvard

i 18 35 39.3 (B)

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***** (Jan. 25) *****

Harvard

e 20 05 31 (B)

***** (Jan. 26) *****

La Cave

P₁ 08 02 08
S₁ 14.2

Dist. = 48 km.
H = 08 02 00.2

***** (Jan. 27) *****

Weston

e 06 48 56

Local?

***** (Jan. 28) *****

Weston

e 11 11 59

Local?

***** (Jan. 29) *****

Harvard

iP₂ 22 31 34
iS₂ 58.0
iS₁ 32 01.3
Dist. = 210 km.
H = 22 31 01.5

Weston

iS₁ 22 32 02.5 (B)

John F. Devane, S.J.

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

February 1950

Bulletin No. 230

***** (Feb. 1) *****

Weston

i 12 02 31

Local?

***** (Feb. 3) *****

Ottawa

Pn 19 27 49.5
P3 52.5
Sn 28 20
Dist. = 282 km.

Weston

Pn 19 27 50
S3 28 22.6
S1 28 31.5
Dist. = 285 km.
H = 19 27 09.4

Harvard

i 19 28 16.0
i 21.2
iS1 24.1

***** (Feb. 6) *****

Ottawa

P 19 01 55
s 02 13

Dist. = 155 km.
H = 19 01 30

***** (Feb. 9) *****

Weston

Pn 16 15 41
Sn 16 06
S1 16 12.6
Dist. = 225 km.
H = 16 15 07.5

Harvard

i 16 15 39.5
16 10

***** (Feb. 11) *****

Weston

e(S) 18 43 19

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***** (Feb. 13) *****

Ottawa

Pn 18 59 04
P 06
Sn 27
S 30

Dist. = 205 km.
H = 18 58 33

Weston

e 20 51 19 (B)

***** (Feb. 16) *****

Harvard

i 18 23 48.5
i 24 01.5 (B)

***** (Feb. 22) *****

Weston

e 20 33 23

Local?

***** (Feb. 24) *****

Weston

iP₁ 13 04 17.5
iS₁ 26.6
Dist. = 71 km.

Harvard

iP₁ 13 04 14.8
iS₁ 22.1
Dist. = 57 km.

Felt reports from New Boston and Frankestown, New Hampshire

***** (Feb. 24) *****

Harvard

i 20 48 57.2

One and a half minutes of short period activity

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***** (Feb. 27) *****

Harvard

13 15 54 24.0

***** (Feb. 28) *****

Harvard

e	14	12	41
e	14	44	32
e	15	51	45

All blasts

John F. Devane, S.J.

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

March, 1950

Bulletin No. 231

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

Harvard

i(S₁) 17 05 54 (B)

***** (March 3) *****

Ottawa

iP₁ 05 11 25
iS₁ 34

Dist. = 71 km.
H = 05 11 12.4

Weston

e(S) 19 44 53 (B)

***** (March 4) *****

Harvard

e 16 14 27 (B)
i 32.3

Weston

e 17 01 16 (B)

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

Shawinigan Falls

iP 16 14 36.4
iS 54.9
iS 58.4
Dist. = 161 km.

Rolphton

Pn 16 14 49.5
Sn 15 15.5
Dist. = 236 km.

Harvard

Pn 16 15 14.4
P₂ 20.7
P₁ 23.8
Sn 16 00.2
S₁ 09.2
Dist. = 362 km.

Weston

Pn 16 15 15
P₁ 26.8
Sn 58.6
S₁ 16 18.8
Dist. = 415 km.

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***** (March 6) *****
cont'd)

Seven Falls

P₂ 16 15 02.1
P₁ 04.5
S₁ 40.5

Dist. = 287 km.

Felt in Ste Agathe, Quebec, Canada

Epicenter in area: 45.4-45.9 N; 74 - 74.6 W

H - 16 14 17

Fordham

P₃ 16 15 40
S₃ 16 37
Dist. = 570 km.

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

Harvard

e 14 19 12

Weston

e(S) 14 19 15 (B)

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

Weston

iP₁ 16 18 37.5
iS₁ 54
Dist. = 132 km.
H = 16 18 16

Ottawa

iP_n 16 18 42
P₂ 45
S₂ 19 15
S₁ 19 20
Dist. = 265 km.

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

Harvard

e 16 23 30
i 18 18 42
i 20 13 03
e 20 14 49
i 20 18 56
i 22 29 47

Weston

Corresponding phases at Weston.
Possible underwater explosions,
although the period is slower than
is usual for underwater blasts.

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

Ottawa

eP 20 08 20
eL 08 50

Harvard

i(S) 22 18 59.5 (B)

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***** (March 16) *****

Harvard

iP₁ 20 55 02.1
iS₁ 06.4

Blast of 17,000 lbs. at Winchester, Mass.
Dist. = 34.2 km.

Harvard

i(S) 22 45 01.7

Weston

i(S) 22 45 03 (B)

***** (March 17) *****

Weston

e 21 05 22
i 45

Harvard

i(S) 21 05 41.5 (B)

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

Harvard

i 18 25 59.5
i 26 02.0 (B)

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

Ottawa

P₁ 16 34 19
S₁ 34 30

Dist. = 85 km.
H = 16 34 05

***** (March 20) *****

Weston

P₂ 22 29 29.5
S₁ 50.5
Dist. = 160 km.

Harvard

P₂ 22 29 30
P₁ 30.3
S₂ 29 50.1
S₁ 52.3
Dist. = 171 km.
H = 22 29 02.6 (B)

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***** (March 20) *****
cont'd

Ottawa

P_n 22 56 10
S_n 57 06
Dist. = 445 km.

Harvard

i 22 56 37.3
i 57 01.1

Weston

i 22 56 00.7
i(S) 56 54

***** (March 21) *****

Harvard

iP₁ 21 05 51.5
iS₁ 06 04.7
Dist. = 105
H = 21 05 34.4
Blast at Westfield Mass.

Weston

iP₁ 21 05 53.3
iS₁ 06 06.9
Dist. = 116 km.

***** (March 22) *****

Harvard

i(S) 20 38 18.8

Weston

e 20 38 00.1
e 23 (B)

***** (March 24) *****

Harvard

i 20 35 32.4
i(S) 36 06.6

Weston

e 20 35 02.2
e 35 56

Harvard

i(S) 20 44 47.1 (B)

i(S) 21 30 07.4 (B)

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

Harvard

i 16 13 45.0
i 56.5 (B)

***** (March 27) *****

Harvard

Weston

iP 18 32 40.5

eP 18 32 34.5

e 18 40 47

e 18 40 42

Appears to be multiple submarine blasts

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

Weston

Harvard

iP₂ 14 43 40.0
iP₁ 43 41.5
iS_n 44 04
iS₂ 44 07.6
iS₁ 44 12.0
Dist. = 242 km.

iP₃ 14 43 39.5
iS_n 44 02.5
iS₁ 44 09.5
Dist. = 234 km.

Fordham

iP₁ 14 43 07.2
iS₁ 43 11.3
Dist. = 32 km.

Trinity (Hartford)

eP₁ 14 43 23
iS₁ 40
Dist. = 130 km.

CCNY

eP₁ 14 43 07.9
eL 14.5

Epicenter: 41°02'12" N.
73°36'25" W.
H = 14 43 02

Widely felt in Connecticut, Long Island and New York

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

Harvard

iP 18 16 12.6

iP 18 22 54

Appear to be multiple submarine blasts.

Weston

iP 18 16 11

iP 18 16 51

We are grateful for the cooperation of the member stations and wish to thank

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for their kindness in sending us readings and for the loan of their records.

John F. Devane, S.J.

April 1-30, 1950

Bulletin No. 232



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

Weston

e 00 38 24
i 39 21

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

Harvard

e 16 48 44
i 48 48 Blast?
i 48 55

***** (April 10) *****

Harvard

i 18 48 25
i 19 14 14.5 Blasts?
i 19 43 57

***** (April 11) *****

Harvard

i 15 23 34.2

Weston

iP 15 23 32.6
possible underwater explosion

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

Harvard

i 15 30 57.3
i 19 12 10.5
i 19 20 13 Blasts
i 19 25 32.3
i 20 48 59

***** (April 13) *****

Weston

iP₂ 16 14 26.2
iP₁ 14 27
iP₂ 14 45.8
iS₁ 14 47.4

d. - 162 km.

Harvard

iP₂ 16 14 26.2
iP₁ 14 26.6
iS₂ 14 45.9

d. - 163 km.

Blast at North Bradford, Conn.

***** (April 13) *****

Weston

i 22 48 42.5

Harvard

i 22 48 50.3 Blast?

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

Ottawa

eP_n 18 21 30.8
33
38.5
eS_n 22 03.5
06.5
12.5

d. - 305 km.

Seven Falls

P_n 18 21 43
e 55
S_n 22 27
e 22 48.5

d. - 420 km.

Shawinigan Falls

P_n 18 21 27.5
S_n 21 59.4

d. - 295 km.

Harvard

P₂ 18 22 36
S_n 23 33.2

d. - 730 km.

Weston

P₂ 18 22 40
S₂ 24 01

d. - 750 km.

In region: 47.9 N 76.2 W H - 18 20 46

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

Harvard

iS₁ 23 56 13 Blast?

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

Ottawa

P 21 32 16.5
S 32 34.5

d. - 155 km.
H - 21 31 51.5

- 3 -

***** (April 21) *****

Weston

i 21 46 03.5 Blast?

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

Harvard

iP₁ 20 39 07.8 Blast
iS₂ 55 d. -140 km.
iS₁ 55.5 H - 20 38 45

Weston

iS₁ 20 39 27

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

Harvard

iS₁ 19 47 04.7

Weston

i 19 47 05 Blast?

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

Harvard

i 21 30 30
i 21.7 Blast?

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

Weston

i 01 43 21
i 47 40

Harvard

e 01 43 20
e 47 36

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

Weston

eS 16 59 44

John F. Devane, S.J.

May 1-31, 1950

Bulletin No. 233

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

Harvard

iP₁ 19 30 03.9 d.- 101 km.
iS₁ 16.0 blast at Westfield Mass.

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

Harvard

iP₁ 16 59 37.0 d.- 130 km. H - 16 59 26
iS₁ 59 53.3 blast of 13,350 lbs. at Newington Conn.

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

Weston

eS 18 09 05

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

Weston

eS 01 04 52

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

Harvard

iP₁ 18 31 15.8 d.- 67 km. H - 18 31 05
iS₁ 31 24.2 blast of 5375 lbs. at Berkeley R.I.

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

Harvard

iP₁ 19 29 10
iS₂ 27.3 d.- 142 km.
iS₁ 28.3 H - 19 28 46.6

Weston

iP₁ 19 29 11.2
iS₁ 29 d.- 150 km.

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

Weston

e 19 46 49 short period activity for 90 seconds

***** (May 6) *****

Weston

e 16 01 19

***** (May 12) *****

Harvard

iP₁ 19 05 20.1
iS₂ 37.8
iS₁ 38.5

d.- 142 km.

H - 19 04 56.9

blast of 41,227 lbs. at Plainville Conn.

Weston

iP₁ 19 05 20.8
iS₁ 39 d.- 150 km.

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

Harvard

eP₁ 19 22 49.7
iS_n 23 14.2
iS₁ 25.4

d.- 292 km.

Weston

iS₁ 19 23 25.7

Ottawa

P₁ 19 22 26
S₁ 22 45.3 d.- 153 km.

***** (May 15) *****

Weston

iP₁ 04 19 45.1
iS₁ 20 02.6 d.- 139 km.

***** (May 16) *****

Weston

iP₁ 16 05 36.5
iS₁ 39 d.- 19 km.

Harvard

iS₁ 16 05 48.6
Blast of 3400 lbs. at W. Roxbury, Mass.

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

Weston

iP₁ 15 35 47.8
iS₁ 51.3

blast of 5800 lbs. at W. Quincy Mass.

Harvard

iP₁ 15 35 51.5
iS₁ 58.0

***** (May 19) *****

Weston

iP₁ 20 42 38.2

Harvard

iP₁ 20 42 38.3 blast

***** (May 19) *****

Weston

i 23 26 41.2
e 27 14
S₁ 27 21.9

Harvard

e 23 27 08.3
S₁ 22.1

from the Perth Amboy, New Jersey explosion

***** (May 22) *****

Harvard

iP₁ 20 21 06 d.- 101 km.
iS₁ 19 blast of 8700 lbs. at Westfield Mass.

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

Harvard

i 20 20 59.4
iS₁ 21 01.1 blast of 5668 lbs. at Greenfield Mass.

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

Fordham

iP₂ 14 00 20
i 22 d.- 142 km.
iS₂ 00 37
i 40

Harvard

iP₁ 14 01 02
e 35.4
i 39.7
i 45.6

Weston

i 14 01 03.2
41.2

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

Weston

iP₁ 20 01 54.6 blast of 4325 lbs. at W. Quincy Mass.

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

Harvard

Weston

iP₁ 19 30 18.8 d.- 102 km.
iS₁ 31.8

iP₁ 19 30 20.8 d.- 105 km.
iS₁ 30 34

blast of 23,900 lbs. at Westfield Mass.

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

Harvard

Weston

iP₁ 20 30 11.6
iS₂ 31.9 d.- 172 km.
iS₁ 33.1

iS₁ 20 30 34.2

John F. Devane, S.J.

June 1-30, 1950

Bulletin No. 234



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

Weston

e 09 51 09
e 58 10

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

Weston

iP 17 46 13

Harvard

i 17 46 16

appears to be three submarine blasts

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

Harvard

iP₁ 01 20 45.2 d.- 225 km.
iS₁ 21 13.5

Weston

iP₁ 01 20 46.7
iS₁ 21 17 d.- 235 km.

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

Weston

iP₁ 17 13 11
iS₁ 14.5

blast of 7200 lbs. at W. Quincy Mass.

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

Harvard

iP₁ 21 10 06.7
iS₂ 24.4 d.- 152.5 km.
iS₁ 25.8 H - 21 09 42

Weston

iP₁ 21 10 07.1
iS₂ 25.7 d.- 157 km.
iS₁ 26.8

Tunnel shot of 50,000 lbs. at Reeds Gap Conn.

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

Harvard

iP₁ 20 40 16.6 d.- 101 km.
iS₁ 29.0

Weston

iS₁ 20 40 31.7

Tunnel shot of 8100 lbs. at Westfield Mass.

***** (June 20) *****

Harvard

iP₁ 17 30 14.3
iS₁ 32.1 d.- 140 km. Blast of 6000 bls. at Farmington Conn.

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

Weston

e 05 03 33

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

Weston

i 17 21 39 75 seconds of short period activity

***** (June 28) *****

Harvard

i 12 49 06 submarine blast?

***** (June 28) *****

Harvard

Weston

iP₂ 15 05 22.2
iP₁ 22.5 d.- 162 km.
iS₂ 41.4
iS₁ 42.5 Tunnel shot of 36,000 lbs. at North Bradford Conn.

iS₁ 15 05 42.9

***** (June 29) *****

Ottawa

Seven Falls

Shawinigan Falls

P_n 09 16 14
P₂ 24
i 31.5
S_n 17 10

P_n 09 14 24.5
P₁ 32.5
S_n 59
S₂ 15 09.4
S₁ 16.5

e 09 15 16
e 30.5
e 56
e 16 00
e 16 04

***** (June 29 cont'd) *****

Harvard

Pn 09 14 56.5
S₁ 16 09.3
S₁ 52.5

Weston

Pn 09 14 55.2
P₁ 15 18.8
S_n 16 06
S₁ 16 51.5

Data do not agree well; epicentre probably near 46.5 N; 67.5 W.

***** (June 30) *****

Weston

e 14 42 47 85 seconds of short period activity

***** (June 30) *****

Seven Falls

P 16 32 14.8
S 32 21.2 Baie St. Paul

John F. Devane, S.J.

July 1-31, 1950

Bulletin No. 235

International
Seismological
Centre

***** (July 5) *****

Weston

e(S) 05 07 11

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

Harvard

i 12 51 42.5

i 12 57 42.5

Weston

i 12 51 39

i 12 51 39

possible underwater blasts

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

Weston

e 08 46 44

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

Harvard

e 16 05 16

Weston

i 16 05 41

Blast of 400,000 lbs. at South Holston, Tenn.

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

WestoniP₁ 15 45 41.6Harvard

i 15 45 52

Blast of 6375 lbs. at West Quincy Mass.

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

Harvard

e 19 40 43 Blast?

Weston

e 19 40 52

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

Harvard

iP₁ 18 58 12.5
iS₁ 24 Blast

Weston

eS₁ 18 58 28

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

Weston

e 08 37 13
i 33.5 Local quake? EW azimuth

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

Harvard

eP₁ 15 55 22 d.- 140 km.
iS₁ 40

Weston

eS 15 55 41.5

Blast of 5,445 lbs. at Farmington, Conn.

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

Harvard

iP₁ 15 50 22
iS₂ 38.5 d.- 137 km.
iS₁ 39.5

Weston

iS 15 50 40.8

Blast of 4750 lbs. at Plainville, Conn.

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

Weston

e 01 07 55
i 08 14 Quake?

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

Ottawa

P_n 18 38 02
S_n 21 d.- 165 km.

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

Ottawa

Pn 18 49 20.5
Sn 38 d.- 150 km.

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

Weston

i 19 17 56.5
i 19 26 52
i 19 30 00.6 Series of underwater blasts
i 19 30 34

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

Weston

i 00 08 53.5
e 09 29

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

Harvard

iP2 20 18 37.2
iP1 38
eSn 19 01.3 d.- 237 km. Port Henry N.Y. area
eS2 05.7
iS1 08.7

***** (July 31) *****

Harvard

iP1 18 35 31.9
iS1 44.7 d.- 101 km. Blast at Westfield Mass.

John F. Devane, S.J.

August 1-31, 1950

Bulletin No. 236



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

Weston

e 01 28 09

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

Ottawa

P_n 17 33 05
 S_n 23 d.- 155 km.

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

Ottawa

P_n 09 34 07.0
 P₂ 10.0
 S_n 34 36.2 d.- 267 km.
 S₁ 48

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

Seven Falls

P_n 10 32 05.5
 S_n 34 d.- 261 km.

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

Seven Falls

P₁ 06 45 29.5
 S₁ 36 d.- 52 km.

Ottawa

P 06 47 31
 Baie St. Paul?

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

Ottawa

iP₁ 14 29 41.5
 iS₁ 29 51.6 d.- 80 km.

Shawinigan Falls

P_n 14 30 05
 S_n 30 30.8 d.- 250 km.

***** (August 4 cont'd) *****

Seven Falls

P_n 14 30 26
S_n 31 03 d.- 420 km.

Weston

eP_n 14 30 22
iS₁ 31 17.2 d.- 395 km.

Harvard

eP_n 14 30 20.7
iS₂ 31 00.8 d.- 385 km.

Approx: 44.9 N; 74.9 W
H - 14 29 29
Cornwall-Massena area

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

Ottawa

iP₁ 23 59 21.2
iS₁ 31.6 d.- 82 km.

Seven Falls

eS 00 00 53

Shawinigan Falls

e 23 59 43.0
e 00 00 09.8

Cornwall-Massena area

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

Fordham

iP₁ 18 58 04
iS₁ 14.5 d.- 84 km.

Harvard

e(P_n) 18 58 43.2
iS₂ 59 24.1
iS₁ 32.7

Weston

e(P_n) 18 58 35
iP₁ 43.5
iS₁ 59 25.7 d.- 330 km. (ca)

Times do not agree to give an
epicentre

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

Harvard

eP_n 11 00 23.2
iP₁ 36.8
iS_n 01 10.7
iS₁ 36.5 d.- 460 km.

Weston

i 11 00 35.6
i 01 13
iS₁? 01 36

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

Harvard

iP₁ 14 00 39
iS₂ 55
iS₁ 55.7 d.- 130 km.

Weston

iP₁ 14 00 40.5
iS₁ 57 d.- 134 km.

Blast of 19,125 lbs. at Newington Conn.

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

Ottawa

P_n 18 43 04
S_n 23 d.- 165 km.

***** (August 21) *****

Harvard

iP₁ 21 15 05.9
iS₁ 18.8 d.- 101 km. Blast of 25,600 lbs. at Westfield Mass.

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

Weston

eS 07 58 53 quake?

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

Harvard

i 18 06 51.5
i 18 06 55.9
i 18 08 48.8
i 18 12 26.5
i 18 12 28.7

series of underwater explosions approximately
180 km. from Harvard station

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

Ottawa

P_n 20 02 23.5
S_n 40.5 d.- 141 km.

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

Ottawa

P_n 18 06 20
S_n 06 37 d.- 141 km.

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

Harvard

iP₁ 19 29 56.4
iS₁ 30 09.2 d.- 101 km. Blast at Westfield, Mass.

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

Ottawa

P_n 15 22 29
S_n 22 46 d.- 142 km.

John F. Devane, S.J.

September 1-30, 1950

Bulletin No. 237

***** (Sept. 4) *****

Ottawa

P_n 01 32 32
 S_n 33 01 d. - 266 km.

***** (Sept. 4) *****

Ottawa

P_n 15 48 49
 S_n 49 08 d. - 165 km.

***** (Sept. 5) *****

Harvard

iP₁ 15 02 20.3
 iS₁ 33.2 d. - 102.5 km.

Tunnel shot of 15,750 lbs. at Westfield, Mass.

***** (Sept. 6) *****

Harvard

iP₁ 15 33 43.4
 iS₁ 34 04.1 d. - 143 km.

Blast of 6107 lbs. at Farmington, Conn.

Weston

iP₁ 15 33 43.9
 iS₂ 34 01.6 d. - 139 km.

***** (Sept. 7) *****

Ottawa

P_n 17 24 21.5
 S_n 39.5 d. - 155 km.

***** (Sept. 14) *****

Fordham

e 01 17 10 short period activity
 for 50 seconds

Weston

e 01 17 25 short period activity
 for 80 seconds

***** (Sept. 19) *****

Ottawa

P_n 17 26 13
S_n 31 d.- 155 km.

***** (Sept. 22) *****

Weston

e 07 11 50 quake?

***** (Sept. 25) *****

Ottawa

P_n 19 22 42
S_n 23 02 d.- 174 km.

***** (Sept. 28) *****

Seven Falls

P₁ 10 59 35.5
S₁ 44.5 d.- 71 km.

***** (Sept. 29) *****

Harvard

iP₁ 18 31 15.4
iS₁ 37.2 d.- 174 km. Blast of 15,800 lbs. at North Bradford, Conn.

John F. Devane, S.J.

October 1-31, 1950

Bulletin No. 238


 International
Seismological
Centre

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

Weston

e 02 49 09

***** (October 5) *****

WestonHarvardiP₁ 20 30 47iP₁ 20 35 45.4iS₁ 31 00.9 d.- 112 km.

Tunnel shot of 13,350 lbs. at Westfield, Mass.

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

OttawaP_n 16 49 14S_n 34.5 d.- 179 km.

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

OttawaP_n 22 44 36S_n 52 d.- 131 km.

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

OttawaWestonP₁ 06 42 35

i 06 43 53.3

S₁ 45.7 d.- 85 km.

i 44 13

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

Shawinigan FallsP₁ 16 49 29.5S₁ 40.5 d.- 87 km.

***** (October 17) *****

Harvard

Weston

iP₁ 16 31 04.5
iS₁ 22.0

d.- 140 km.

Blast of 5300 lbs. at New Britain, Conn.

iP₁ 16 31 06.7

iS₁ 25

d.- 145 km.

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

Weston

Harvard

Fordham

i 01 51 48

i 01 51 50.5

i 01 53 33

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

Ottawa

P_n 15 59 13.4
S_n 30.0

d.- 137 km.

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

Weston

i 01 24 18 activity for 75 seconds

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

Weston

Harvard

iP₁ 18 10 45.2
iS₁ 56.8

d.- 91 km.

does not appear to be a blast

iP₁ 18 10 42.6

iS₁ 52.1

d.- 75 km.

***** (October 25) *****

Ottawa

r_n 21 55 35.5
S_n 53.5

d.- 155 km.

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

Weston

Harvard

iP₁ 16 04 32

iP₁ 16 04 33.5

iS₁ 51.4 d.- 155 km.

iS₁ 53.2 d.- 160 km.

an underwater explosion, followed by another 30 seconds later

Weston

Harvard

iP 20 54 11.5

iP 20 54 12.5

same as preceding

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

Harvard

Weston

i 18 32 04.5

e 18 32 05

iS₁ 09.5

eS₁ 33 10

Explosion of 135,750 lbs. at Yatesville Pa.

John F. Devane, S.J.

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



November 1-30, 1950

Bulletin No. 239

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

Ottawa

P_n 16 59 56.7
S₁ 17 00 22.5 d.- 193 km.

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

Weston

e 21 10 29
i 42 blast?

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

Ottawa

P_n 14 57 58.4
S_n 58 17.8 d.- 168 km.

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

Harvard

i 18 05 08.1 blast?

Weston

i 18 05 29

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

Ottawa

P_n 18 27 46
S₁ 28 08 d.- 192 km.

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

Ottawa

e 20 07 50.4 quake?

Weston

iS₁ 20 07 59

***** (November 7) *****



Seven Falls

iP₁ 02 51 55.5 d.- 12 km.
iS₁ 57.2 H - 02 51 53.6

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

Ottawa

P_n 19 36 50.5
S_n 37 08.0 d.- 150 km.

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

Seven Falls

P₁ 15 54 54.4
S₁ 55.4

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

Ottawa

P₁ 01 19 07.5 H - 01 18 53.4
S₁ 18.5 d - 87 km.

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

Ottawa

P_n 14 25 31.7
S_n 53.4 d.- 197 km.

***** (November 17) *****

Harvard

Weston

1 16 03 55.6

i 16 03 53.5

multiple underwater explosions?

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

Harvard

i(P₁) 18 54 39.7
i(S₂) 55 25.6
i(S₁) 29.0 d.- 462 km.?

Weston

e 18 54 47
e 55 27 quake?

***** (November 20) *****

Ottawa

P_n 16 10 58.5
S_n 11 18.8 d.- 176 km.

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

Weston

iS₁ 21 13 09 blast?

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

Weston

eS 19 38 14 blast?

John F. Devane, S.J.

December 1-31, 1950

Bulletin No. 240



***** (December 2) *****

Weston

e 17 50 32

***** (December 08) *****

OttawaP_n 15 11 08.5S₁ 29.5 d.- 164 km.

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

WestoniS₁ 08 52 47 quake?

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

WestoneS₁ 19 53 01 blast?

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

OttawaP_n 20 09 02.7S_n 19.7 d.- 145 km.

***** (December 18) *****

WestoniP₁ 16 59 19.1iS₁ 33 d.- 110 km.

Westfield Mass?

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

Ottawa

P_n 19 16 25.6
S_n 45.0 d.- 169 km.

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

Ottawa

P_n 16 45 45.8
S_n 46 07.4 d.- 190 km.

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

Weston

eS 20 47 24 blast?

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

Ottawa

e 18 38 16.3
i 18 quake?

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John F. Devane, S.J.
Weston