International Seismological Centre

NESA B U I I E T I N

January 1 - 15, 1943 Bulletin No. 109

****

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

Weston

7 disturbances starting at 15 05 00. Phases not clear, but
Δ = 171 km. (106 mi.) ca.

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

Weston

iP1 16 50 03
iS1 19 Δ = 131 km. (82 mi.)

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

Weston

iP1 18 33 55
iS1 34 07 Δ = 98 km. (61 mi.) Dilatation from East.

iP1 18 35 01
iS1 13

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

Weston

iP1 19 08 19
iS1? 53 Δ = 278 km. (174 mi.)

iP1 19 38 28
iS1? 39 02

*****(January 5)*****

Weston

iP1 15 09 48 Δ = 65 km. (41 mi.) Dilatation from East!
iS1 56 3 others from same distance, but preliminaries lost in one another.

*****(January 8)*****

Weston

iP1 17 45 52
iS1 46 01 Δ = 73.5 km. (45.5 mi.)

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*****(January 8)*****

Weston

iP_1 19 01 30
iS_1 53 Δ = 188 km. (117 mi.) Compression to Southwest.

*****(January 9)*****

Weston

iP_1 19 37 55
iS_1 38 04 Δ = 73 km. (46 mi.) Another with preliminaries lost in this one!

*****(January 10)*****

Weston

a) iP_1 15 14 07
iS_1 13

b) iP_1 15 20 22
iS_1 28 All from same location Δ = 49 km. (30 mi.)

c) iP_1 15 37 25
iS_1 32

d) iP_1 15 45 07.5
iS_1 14

*****(January 10)*****

Weston

iP_1 20 28 07
iS_1 14 Δ = 51 km. (32 mi.)

*****(January 11)*****

Weston

iP_1 19 49 53
iS_1 50 13 Δ = 163 km. (102 mi.)

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

Weston

iP_1 15 09 14
iS_1 20 Δ = 49 km. (30 mi.)

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

Weston

iP_1 19 39 17
iS_1 23 Δ = 49 km. (30 mi.)

*****(January 13)*****

Weston

iP_1 20 03 27 Δ = 63 km. (40 mi.) Several others lost in
iS_1 35 this one.

*****(January 13)*****

Weston

iP_1 21 33 57 Δ = 71 km. (44 mi.) One other lost in this one.
iS_1 34 06

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

Seven Falls

P_n 21 33 12.5
S_n 38
Δ = 235 km. (148 mi.)

Burlington

i 21 33 36
L 34 12
Δ (meas.) = 270 km. (170 mi.)

Shawinigan Falls

P_n 21 33 19
S_n 51
Δ = 290 km. (181 mi.)

Weston

P_n 21 33 24
S_n 33 59
Δ = 330 km. (206 mi.)

Harvard

P_n 21 33 24
S_n 33 58
Δ = 330 km. (206 mi.)

Williamstown

P_n 21 33 19
S_n 34 32
Δ = 380 km. (237 mi.)
H = 21 32 40 for Williams.

Ottawa

P_n 21 33 24
S_n 34 35
Δ = 495 km. (309 mi.)

Fordham

Pn 21 33 56 ?
Sn 35 12
Δ = 575 km. (360 mi.)
(H = 21 32 37 for Fordham)

NESA gives 45°.2 N., 69°.6 W. (About 20 mi. west of Dover-Foxcroft, Me.)
H = 21 32 38 Most of the readings above were made at Weston from the original records loaned to Weston. Isoseismal lines were obtained from approximately 300 separate cards, and letters. Courtesy of the U.S.Coast and Geodetic Survey. Maximum intensity about VI (Rossi-Forel).

This is the first time that an earthquake has been located either instrumentally or by felt motion in this area.

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NOTICE:-

Weston: A quake was reported felt in the Hartford, Conn., region on December 9, 1942, ca. 14 hrs. G.C.T. Report given in Hartford TIMES. Nothing on Weston grams at this time.

Daniel Linehan, S.J.,
Seismologist.

International Seismological Centre

NESA B U L L E T I N

January 16 - 31, 1943 Bulletin No. 110

****

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

Weston

iP1 19 02 11
iS1 18

Δ = 57 km. (36 mi.)

iP1 19 04 12
iS1 19

iP1 19 26 56
iS1 27 03

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

Weston

iP1 17 32 15
iS1 36 Δ = 172 km. (107 mi.)

*****(January 22)*****

Fordham

iS 21 15 42

Weston

eP ? 21 16 18
eS 17 02

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

Fordham

i 12 35 20
e 39 38

*****(January 24)*****

Fordham

iP 08 32 49

*****(January 24)*****

Weston

iP1 15 25 44
iS1 52 Δ = 65 km. (41 mi.) Several others lost in this one.

*****(January 24)*****

Weston

iP$_1$ 17 09 15
iS$_1$ 24 Δ = 73 km. (45 mi.) One other lost in this one.

*****(January 25)*****

Weston

iP$_1$ 05 23 31
iS$_1$ 49 Δ = 147 km. (93 mi.) Several others lost in this one.

*****(January 25)*****

Weston

iP$_1$ 06 14 04 Δ = 147 km. (93 mi.) Compression to West! Eight
iS$_1$ 22 others within the hour.

*****(January 25)*****

Weston

iP$_1$ 14 40 56
iS$_1$ 41 12 Δ = 131 km. (81 mi.)

*****(January 26)*****

Weston

iP$_1$ 15 46 43
iS$_1$ 50 Δ = 57 km. (36 mi.)

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

Fordham

1) iP 02 02 14
2) iP 03 08 04
3) iP 03 18 30
4) iP 03 25 24

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

Weston

iP$_1$ 18 05 43
iS$_1$ 06 00 Δ = 139 km. (87 mi.)

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

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Weston

iP1 18 06 55
iS1 07 12

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

Weston

eS 06 17 32 Rock burst reported at Kirkland Lake, January 29, at 01 13 16 E.S.T. (06 13 16 G.C.T.) Reported courtesy M. Collins (Harvard).

This Weston recording may be of the reported rock burst.

*****(January 31)*****

Weston

i 08 42 00 Prolonged and pronounced short period activity.

Daniel Linehan, S.J.,
Seismologist.

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

Ottawa

(1) P_2 $6^h12^m55^s.5$
P_1 13 33
S_2 46
Δ = 445 km.
H = $6^h11^m44^s$

(2) P_2 $6^h14^m28^s$
S_3 15 03.5
S_2 18
Δ = 445 km.
H = $6^h13^m16^s$

Two rockbursts at Lake Shore Mines, Kirkland Lake, Ontario.

Daniel Linehan, S.J.

International Seismological Centre

NESA BULLETIN

February 1 - 15, 1943 Bulletin No. 111

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*****(February 4)*****

Weston

iP_1	21	37	24.8	
iS_1			31.8	Δ = 56 km. (34.8 mi.)

*****(February 9)*****

Weston

iP_1	15	20	31.6	followed by another
eS_1			39.2	5 minutes later.
eL			42.6	Δ = 62 km. (38.5 mi.)

*****(February 10)*****

Weston

iP_1	17	22	38.1	Followed by another
iS_1			44.4	30 seconds later.
eL			49.1	Δ = 48 km. (29.8 mi.)

*****(February 10)*****

Weston

eP_1	21	59	07.7	
iS_1			10.7	Δ = 25 km. (15.5 mi.)

*****(February 11)*****

Weston

iP_1	15	13	17.9	
eS_1			26.2	Δ = 66.4 km. (41.3 mi.) Dilatation from East.

*****(February 11)*****

Weston

iP_1	15	40	49.7	
iS_1			57.8	
eL		41	02.0	Δ = 64.8 km. (40.3 mi.)

*****(February 14)*****

Weston	Fordham
iP 07 39 16.6	iP 07 39 34
Compression	

E. R. Powers, S.J.,
Seismologist.

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NESA B U L L E T I N

February 16 - 28, 1943 Bulletin No. 112

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

Weston

iP$_1$ 14 55 07.6
iS$_1$ 14.3 Δ = 53.6 km. (33.3 mi.)

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

Ottawa

iP$_2$ 16 51 21
iS$_2$ 33
i 37

Δ = 105 km. (65.2 mi.) H = 16 51 03

Weston

e 16 52 32
e 53 01

*****(February 17)*****

Fordham

i 06 30 30
i 35
i 43

*****(February 19)*****

Weston

eP$_1$ 17 39 48
eS$_1$ 40 14 Δ = 219.2 km. (136.2 mi.)

*****(February 19)*****

Weston

iP$_1$ 17 42 20

*****(February 19)*****

Weston

eP$_1$ 17 45 12
eS$_1$ 22 Δ = 81.8 km. (50.8 mi.) Another one minute later

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*****(February 25)*****

Weston

iP1 13 22 38
eS1 23 03 Δ = 204.5 km. (127.1 mi.) Dilatation from South

*****(February 25)*****

Weston

iP1 17 14 13
iS1 44 Δ = 98.2 km. (61 mi.) Compression to east

*****(February 26)*****

Weston

iP1 14 06 12
iS1 22 Δ = 81.8 km. (50.8 mi.) Compression to west.

*****(February 27)*****

Weston

eP1 15 15 09
iS1 16 Δ = 57.3 km. (35.6 mi.)

*****(February 27)*****

Weston

iP1 18 10 24
iS1 30 Δ = 49.1 km. (30.5 mi.) Dilatation from east. Followed by 7 more in next 3 minutes.

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

Ottawa

iP2 16 40 21
iS2 36
Δ = 130 km. (80.8 mi.)
H = 16 39 59

Weston

e 16 42 36

E. R. Powers, S.J.,
Seismologist.

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NESA B U L L E T I N

March 1 - 15, 1943 Bulletin No. 113

****

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

Weston

eP$_1$ 14 45 20
eS$_1$ 30 Δ = 81.8 km. (50.8 mi.)

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

Weston

1) eP$_1$ 19 21 18
iS$_1$ 21 27
Δ = 74 km. (46 mi.)

2) iP$_1$ 19 26 38
iS$_1$ 47
followed by 3 others within 3 minutes.

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

Weston

eP$_1$ 14 50 15
eS$_1$ 29 Δ = 115 km. (71 mi.)

*****(March 8)*****

Fordham

iP$_n$ 22 42 52
i 57
iS$_n$ 43 26

Weston

e 22 44 17
May not be same disturbance!

*****(March 9)*****

Ottawa

P$_3$ 03 26 50
P$_1$ 59
S$_3$ 27 45
S$_1$ 28 12
Δ = 555 km. (345 mi.)

Fordham

i 03 26 48
iP$_2$ 27 02
iSn 52
i 28 08
i 11
Δ = 620 km. (385 mi.)

Weston

e 03 27 10
eP$_1$ 36
iS$_1$ 29 16
Δ = 790 km. (491 mi.)

USCGS. = 42°.2 N., 80°.9 W. H = 03 25 32

*****(March 9)*****

Fordham

iPn 21 33 17
iSn 50

Δ = 309 km. (192 mi.)
H = 21 32 33

Weston

ePl 21 34 07
iSn 34 43

Δ = 562 km. (349 mi.)
H = 21 32 32

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

Weston

ePl 15 41 48
eSl 53
eL 56

Δ = 41 km. (25 mi.)

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

Weston

ePl 16 05 22
e 29
eSl 31

Δ = 74 km. (46 mi.) followed by 2 others.

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

Weston

ePl 23 23 35

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

Weston

ePl 23 32 53

*****(March 12)*****

Weston

iPl 12 40 50
eSl 41 07

Dilatation from Southeast.
Δ = 139 km. (86 mi.)

*****(March 13)*****

Weston

ePl 04 07 00
eSl 20

Δ = 164 km. (102 mi.)

*****(March 13)*****

Weston

eP$_1$? 07 22 22
iS$_1$ 46

*****(March 13)*****

Weston

eP$_1$ 15 22 04
eS$_1$ 23 Δ = 155 km. (97 mi.) Another 9 secs. later.

*****(March 13)*****

Weston

eP$_1$ 18 14 22
i 23 Δ = 164 km. (102 mi.)
iS$_1$ 42

*****(March 13)*****

Weston

iP$_1$ 22 13 52 Compression to West
iS$_1$ 55 Δ = 25 km. (15 mi.)

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

Fordham

i 02 56 10
i 57 57

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

Weston

iP$_1$ 14 02 50.5
i 52
iS$_1$ 03 08

Fordham

e 14 03 31
iS$_1$ 04 15

Δ = 143 km. (89 mi.) followed by another 10 secs. later.

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

Weston

iP$_1$ 20 43 24
iS$_1$ 32 Δ = 65 km. (41 mi.) Another 2.5 secs. later.

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Weston

eP_1 21 53 06
eS_1 24

Δ = 147 km. (91 mi.)

Fordham

iP_2 23 21 00
iS_2 20

Δ = 170 km. (106 mi.)

Fordham

e 07 38 16

Weston

e 16 20 10

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

Fordham

iP_1 21 53 11
iS_1 33

Δ = 180 km. (112 mi.)

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

Weston

eP_2 23 21 17
eP_1 19
eS_n? 45

Δ = 300 km. (186 mi.)

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

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

E. R. Powers, S.J.,
Seismologist.

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****

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

Weston

iP$_1$ 12 42 49
eS$_2$ 43 10.5
eS$_1$ 43 13 Δ = 196 km. (122 mi.)

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

Fordham

iP$_1$ 16 09 30.0
iS$_1$ 42.5
Δ = 102 km. (63 mi.)

Weston

eP$_2$ 16 09 39.3
iP$_1$ 39.5
e 40.5
iS$_1$ 59.5
Δ = 164 km. (102 mi.)

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

Weston

e 20 53 55 undecipherable.

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

Fordham

1) 13 01 43
2) 13 05 34
3) 14 31 03
4) 15 04 40
5) 15 16 41
6) 20 00 41

Weston

e 13 02 08
e 13 06 00
e 14 31 28
e 15 05 07
e 15 17 07

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

Weston

eP$_1$ 15 35 26
iS$_1$ 34 Δ = 65 km. (41 mi.) Another 4 secs. later.

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

Weston

eP$_1$ 20 48 07.0
i 08.0
eS$_1$ 19.5 Δ = 102 km. (63 mi.)

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

Weston

eP$_1$ 21 05 58
eS$_1$ 06 11.5 Δ = 110 km. (68 mi.)

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

Weston

eP$_1$ 18 43 49.0
eS$_1$ 44 04.5 Δ = 110 km. (68 mi.)

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

Weston

iP$_1$ 17 35 27.5 Dilatation from East
eS$_1$ 35.3
eL 39 Δ = 64 km. (40 mi.) Another few secs. later.

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

Weston

iP$_1$ 19 32 53.5 Compression to West.
eS$_1$ 33 07.8 Δ = 117 km. (73 mi.)

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

Weston

iP$_1$ 13 54 22.3
eS$_1$ 29.9 Δ = 62 km. (39 mi.)

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

Weston

eP$_1$ 15 36 26.5
eS$_1$ 39.4 Δ = 106 km. (66 mi.)

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

Weston

eP$_1$ 13 40 36
eS$_1$ 57 Δ = 172 km. (107 mi.)

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

Weston

iP1 18 43 15.8 Compression to West.
iS1 20.5 Δ = 38 km. (24 mi.)

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

Weston

iP1 20 53 51.3
eS2 54 09.3 Δ = 165 km. (103 mi.) Another 6 secs. later!
eS1 11.5

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

Weston

iP1 21 59 40
eS2? 58
eS1 22 00 00 Δ = 164 km. (102 mi.)

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

Weston

eP1 22 09 03.0
eS1 21.3 Δ = 150 km. (93 mi.)

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

Weston

eP1 23 10 08.5
eS1 27.0 Δ = 151 km. (94 mi.)

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

Weston

eP1 16 06 04.5
eS1 17.5 Δ = 104 km. (65 mi.)

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

Weston

iP1 17 06 17.2 Dilatation from West.
eS1 23.5 Δ = 52 km. (32 mi.)

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

Weston

iP1 16 42 26.3
eS1 43 39.3 Δ = 106 km. (66 mi.)

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

Weston

iP1 12 31 43.0
iS1 32 02.1 Δ = 156 km. (97 mi.)

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

Weston

eP1 13 29 30.0
iS1 53.6
Δ = 193 km. (120 mi.)

Fordham

e 13 30 21
i 31 06

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

Weston

eP1 13 38 14.6
eS1 31.0 Δ = 134 km. (83 mi.) Another 4 min. later.

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

Ottawa

P3 06 42 52.5
P2 43 01
P1 43 13
S3 43 38
S2 43 51
S1 44 03
Δ = 440 km. (273 mi.) (S2-P2) H = 06 41 52

Weston

e 06 43 03.4

Rockburst at Lake Shore Mines,
Kirkland Lake, Ontario.

NOTICE:

Weston: Landslide reported at Northampton, Mass., on west bank of the Connecticut River. Boston and Maine RR tracks dislocated. A slight tremor reported felt in Northampton, about 7:30 EWT (A.M.)

A slight disturbance on the Weston grams at 11 47 00 GCT (07 47 00 EWT) but the principal phases were missing so it is difficult to say whether it is connected with the landslide or not.

E.R. Powers, S.J.
Seismologist.

International Seismological Centre

NESA B U L L E T I N

April 1 - 15, 1943 Bulletin No. 115

****

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

Weston

iP_1	20	40	37
iS_1			49

Δ = 99 km. (61 mi.)

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

Weston

e	20	55	35

undecipherable short period activity.

Fordham

i?	20	55	07
i			12
i			28

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

Weston

iP_1	15	44	49
iS_1			56

Dilatation from East.
Δ = 57.2 km. (35.5 mi.)

*****(April 5)*****

Weston

iP_1	16	26	09
iS_1			20

Δ = 89.9 km. (55.9 mi.) Another 3 secs. later!

*****(April 5)*****

Weston

iP_1	18	19	20
iS_1			33

Δ = 106.3 km. (66 mi.)

*****(April 6)*****

Weston

iP_1	18	57	52
iS_1		58	07

Dilatation from West-Southwest
Δ = 122.7 km. (76.2 mi.)

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

Weston

iP$_1$ 21 41 52 Dilatation from West.
iS$_1$ 42 08 Δ = 130.8 km. (81.3 mi.)

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

Weston

iP$_1$ 18 31 30 First of a series of disturbances, a few seconds apart, Δ = 130 km. (81 mi.) ca.

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

Fordham

i 09 07 33

Daniel Linehan, S.J.,
Seismologist.

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****

*****(April 16)*****

Fordham

iP_2 18 28 56
iS_2 29 22 Δ = 187 km. (116 mi.)

*****(April 17)*****

Weston

iP_1 18 46 40.4 Δ = 111 km. (69 mi.)
iS_1 53.2 Compression to North.

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

Weston

i 16 06 00 undecipherable short period activity.

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

Weston

1) 14 01 00
2) 15 37 00
3) 15 44 00
4) 16 03 00
5) 16 31 00
6) 17 21 00
7) 17 28 00 undecipherable short
8) 21 31 00 period activity.
9) 22 03 00

*****(April 20)*****

Weston

i 15 46 00 undecipherable short period activity.

*****(April 20)*****

Weston

iP_1 19 09 30
iS_1 47 Δ = 139 km. (86.3 mi.)

*****(April 20)*****

Weston

iP_1 20 33 53.5
iS_1 34 07 Δ = 113 km. (70 mi.)

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

Ottawa

iP$_2$ 07 21 25
iS$_2$ 42 Δ = 145 km. (89 mi.)

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

Weston

i 15 40 10 undecipherable short period activity.

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

Weston

iP$_1$ 19 02 57
iS$_1$ 03 07 Δ = 81.8 km. (50.8 mi.)

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

Weston

iP$_1$ 22 50 53
iS$_1$? 51 17 Δ = 196 km. (122 mi.) ca.

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

Weston

1) 23 04 00
2) 23 28 00 undecipherable short period activity.

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

Weston

a) iP$_1$ 12 43 46
iS$_1$ 44 06

b) iP$_1$ 12 50 28
iS$_1$ 48

Δ = 163.6 km. (101.6 mi.)

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

Weston

iP$_1$ 16 40 21
iS$_1$ 34.5 Δ = 111 km. (70 mi.) Dilatation from the South.

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

Weston

iP$_1$ 18 51 47
iS$_1$ 52 02 Δ = 122.7 km. (76.2 mi.)

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

Weston

e 01 36 58
eS ? 38 12
eS 41 local!
eS$_1$ 51

Fordham

e 01 36 10

Short period activity lasting 3 1/2 minutes, ca.

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

Weston

iP$_1$ 13 53 52
iS$_1$ 59,5 Δ = 61 km. (37 mi.)

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

Weston

eP$_1$? 15 04 28
eS$_1$? 05 05

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

Weston

iP$_1$ 15 11 57 Δ = 73.6 km. (45.7 mi.) followed by another 7 secs. later.
iS$_1$ 12 06

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

Weston

iP$_1$ 16 45 13 Beginning of a series of disturbances ca. 73 km. (45 mi.) distance.

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

Weston

i 19 27 30 undecipherable short period activity.

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

Weston

iP_1 14 24 17
iS_1 32 Δ = 122.7 km. (76.2 mi.)

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

Weston

iP_1 14 44 16
iS_1 30 Δ = 114.5 km. (71 mi.)

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

Fordham

a) i 13 10 20
i 37

b) i 13 31 10
i 36

c) i 16 02 14

d) i 17 50 00

Weston

All of these were registered at Weston but disturbances undecipherable!

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

Weston

iP_1 18 10 20
iS_1 33 Δ = 111 km. (70 mi.)

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

Weston

iP_1 18 30 47
iS_1 59.5 Δ = 102 km. (62 mi.)

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

Fordham

iP_2 00 54 34
iS_2 52
Δ = 154 km. (96 mi.)

Weston

iS_1 00 56 04

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

Weston

iP_1 15 39 40
iS_1 53 Δ = 111 km. (70 mi.)

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

Weston

iP_1 10 43 04.5 followed by 7 others within the 1/2 hour.
Δ = 163 km. (101 mi.) ca.

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

Weston

iP_1 15 58 16
iS_1 23 Δ = 57.2 km. (35.5 mi.) Another 1.5 minutes later.

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

Fordham

1) iP_2 18 14 16
iS_2 36

2) iP_2 20 00 47
iS_2 01 07

Δ = 170 km. (105.6 mi.)

Weston

iS_1 18 15 30

iS_1 20 01 18

Daniel Linehan, S.J.,
Seismologist.

International Seismological Centre

****

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

Fordham

1) i 14 39 48

2) i 20 21 39

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

Weston

iP_1 16 04 50
iS_1 05 01 Δ = 90 km. (56 mi.)

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

Weston

iP_1 17 24 21 Δ = 73 km. (46 mi.) and several others within
iS_1 30 the half hour.

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

Weston

iP_1 19 02 17
iS_1 24 Δ = 57 km. (35 mi.)

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

Weston

iP_1 17 58 10
iS_1 26 Δ = 131 km. (81 mi.)

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

Weston

iP_1 21 45 06
iS_1 13 Δ = 57 km. (35 mi.) and three others.

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

Fordham

iP_2 02 39 50
iS_2 40 23 Δ = 289 km. (178 mi.)

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

Weston

iP_1 15 18 15
iS_1 35

Compression to West.
Δ = 163 km. (102 mi.) followed by two others.

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

Ottawa

iP_2 23 38 26
iS_2 37

Δ = 95 km. (57 mi.)

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

Weston

iP_1 23 44 51.5
iS_1 45 15

Δ = 110 km. (69 mi.)

*****(May 8)*****

Weston

1.) iP_1 14 34 25
iS_1 32

2) iP_1 15 51 56
iS_1 52 03

Δ = 57 km. (36 mi.) Dilatation from East.

*****(May 8)*****

Weston

iP_1 19 21 26.5
iS_1 36

Δ = 78 km. (49 mi.) Dilatation from East.

*****(May 9)*****

Ottawa

iP_2 11 03 38.5
iS_2 58.5

Δ = 180 km. (112 mi.)
H = 11 03 11.5

Weston

ePn 11 04 00
iP_2 04 06
iP_1 10
eSn 37
iS_2 43
iS_1? 48

Δ = 350 km. (219 mi.)
H = 11 03 11.5

Fordham

iS 11 05 11

International Seismological Centre

*****(May 9)*****

Weston

iP_1 13 18 28
iS_1 42 Δ = 114 km. (71 mi.)

*****(May 9)*****

Fordham

iP_2 19 04 35
iS_2 05 00

Δ = 215 km. (134 mi.)

Weston

iP_1? 19 03 45
iS_1 04 12

Absolute times do not agree. May not be same disturbance.

Δ = 342 km. (213 mi.)

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

Weston

iP_1 12 12 45
iS_1 57 Δ = 111 km. (70 mi.)

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

Weston

iP_1 12 46 52
iS_1 47 02 Δ = 92 km. (58 mi.)

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

Fordham

1) i 17 19 15.5
2) i 18 27 57
3) i 18 45 58
4) i 18 48 32.5

Weston

All of these also recorded at Weston but phases are weak and uncertain.

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

Weston

1) iP_1 20 31 19
iS_1 27

2) iP_1 20 34 58
iS_1 35 06

Δ = 65 km. (41 mi.)

International Seismological Centre

*****(May 11)*****

Weston

1) iP_1 13 53 27
iS_1 40

2) iP_1 13 54 53
iS_1 55 06

3) iP_1 13 55 04
iS_1 17

Δ = 106 km. (67 mi.) Compression to Northeast.

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

Fordham

iP_2 02 17 44
iS_2 18 10 Δ = 220 km. (137 mi.)

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

Weston

1) iP_1 15 39 16
iS_1 24

2) iP_1 18 47 04
iS_1 12

Δ = 65 km. (41 mi.)

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

Fordham

iP_2 15 40 14.5
iS_2 33 Δ = 156 km. (98 mi.)

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

Fordham

e 18 31 05
i 09
11

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

Weston

19 hrs. A great deal of indecipherable short period activity.

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

Weston

iP_1 23 41 08.5
iS_1 29 Δ = 182 km. (113 mi.)

International Seismological Centre

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

Weston

1) iP_1 00 10 45
iS_1 11 16

2) iS_1 11 26

Δ = 182 km. (113 mi.)

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

Fordham

e 15 19 16.5
i 23

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

Fordham

e 16 10 20
i 24
i 32
i 37.5

Weston

iS_1 16 11 38

Daniel Linehan, S.J.,
Seismologist.

International Seismological Centre

NESA B U L L E T I N

May 16 - 31, 1943 Bulletin No. 118

****

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

Weston

iP1 17 59 55
iS1 18 00 03 Δ = 65 km. (41 mi.) Several others lost in this one.

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

Weston

iP1 18 40 58
iS1 41 22 Δ = 196 km. (123 mi.)

*****(May 17)*****

Fordham

i 01 44 23.5
i 34

Weston

iP1 01 44 56
eS ? 45 38

*****(May 17)*****

Fordham

i 02 41 29

*****(May 17)*****

Fordham

i 02 57 54

Weston

eP 02 58 27
eS ? 59 16

*****(May 17)*****

Fordham

1) iS1 18 42 13

2) iS1 19 53 24

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

Weston

iP1 14 19 27
iS1 34 Δ = 57 km. (35 mi.)

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

Fordham

iS_1 16 06 46

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

Weston

1) iP_1 18 52 07
iS_1 13.5

2) iP_1 18 54 07.5
iS_1 14

Δ = 53 km. (33 mi.)

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

Fordham

iP_2 19 30 24
iS_2 50 Δ = 225 km. (139 mi.) ca.

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

Weston

1) iP_1 17 14 35
iS_1 43

2) iP_1 18 18 05
iS_1 13

Dilatation from the East. Δ = 65 km. (40 mi.)

*****(May 21)*****

Fordham

i 17 58 42

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

Fordham

1) i 13 01 27.5

2) i 13 33 06.0

3) i 18 28 17

4) i 22 18 24

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

Fordham

iP_2 12 51 47
iS_2 52 09 Δ = 188 km. (117 mi.)

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

Weston

iP1 12 54 33
iS1 52 Δ = 155.4 km. (96.5 mi.)

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

Weston

iP1 13 34 39
iS1 55
Δ = 114 km. (71 mi.)

Fordham

e 13 36 00

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

Fordham

i 14 44 54

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

Weston

iP1 15 30 04
iS1 18.5
Δ = 118 km. (73.5 mi.) Dilatation from East

Fordham

e 15 31 22

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

Weston

13 27 10 Much undecipherable short period activity.

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

Weston

iP1 14 14 26
iS1 46 Δ = 163 km. (101 mi.)

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

Weston

iP1 14 22 43
iS1 52 Δ = 73 km. (45 mi.)

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

Fordham

1) i 16 33 21 2) i 18 41 40 3) i 19 52 18

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

Weston

iP$_1$ 13 05 22
iS$_1$ 36 Δ = 114 km. (71 mi.)

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

Weston

iP$_1$ 14 40 14
iS$_1$ 23 Δ = 73 km. (45 mi.)

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

Weston

iP$_1$ 13 13 03
iS$_1$ 16 Δ = 106 km. (66 mi.)

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

Weston

1) iP$_1$ 14 41 41 2) iP$_1$ 15 03 49
iS$_1$ 48 iS$_1$ 56
Δ = 57 km. (35.5 mi.)

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

Weston

iP$_1$ 18 15 46
iP$_1$P$_1$ 47
i 59
iS$_1$ 16 02 Δ = 130 km. (81 mi.)

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

Weston

iP$_1$ 18 09 00
iS$_1$ 12 Δ = 98 km. (61 mi.) followed by several others.

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

Weston

iP$_1$ 18 52 27
iS$_1$ 38 Δ = 90 km. (56 mi.) followed by several others!

*****(May 30)*****

Weston

iP 08 31 58
iS 36 23

Fordham

e 08 32 01
i 36 19

Δ = 25° Caribbean Quake!

*****(May 30)*****

Weston

iP$_1$ 14 51 18
iS$_1$ 29 Δ = 90 km. (56 mi.)

*****(May 30)*****

Weston

iP$_1$ 15 06 35
iS$_1$ 45 Δ = 82 km. (51 mi.)

*****(May 30)*****

Weston

iP$_1$ 19 11 44
iS$_1$ 12 02 Δ = 98 km. (61 mi.)

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

Weston

iP 02 33 11
iS 37 39 Δ = 25°5 Caribbean Quake!

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

Weston

14 hrs. Much short period activity. Undecipherable!

International Seismological Centre

NOTICE:-

Weston: A landslide was reported from Northampton, Mass., courtesy of the Boston and Maine Railroad. The railroad tracks of this Company were washed out by the slide near the Connecticut River at this point. There is no evidence of seismic activity on the date given, May 29th, at Weston. The site of the landslide is the same as that mentioned in Bulletin 114, for March 31.

Daniel Linehan, S.J.,
Seismologist.

International Seismological Centre

NESA B U L L E T I N

June 1 - 15, 1943 Bulletin No. 119

****

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

Weston

iP$_1$ 14 35 40.3 Compression to West.
eS$_1$ 35 49.4 Δ = 74 km. (46 mi.)

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

Weston

e 16 48 10

iP$_1$ 19 06 32.5.
eS$_1$ 06 46.8 Δ = 117 km. (73 mi.)

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

Weston

1) iP$_1$ 14 25 39.3
eS$_1$ 25 54.5
Δ = 124 km. (77 mi.)

2) iP$_1$ 14 37 13.2
eS$_1$ 37 26.1
Δ = 106 km. (66 mi.)

3) eP$_1$ 17 28 37.9
eS$_1$ 28 57.5 Δ = 160 km. (99 mi.)

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

Weston

1) eP$_1$ 14 48 13.6
iS$_1$ 48 21.2
Δ = 62 km. (38 mi.)

2) iP$_1$ 14 54 58.4
eS$_1$ 55 05.4
Δ = 57 km. (35 mi.)

3) eP$_1$ 15 00 41.8
eS$_1$ 00 49.8
Δ = 65 km. (41 mi.)

4) eP$_1$ 18 12 39.8
eS$_1$ 12 56.3
Δ = 135 km. (84 mi.)

5) eP$_1$ 19 00 58.2
iS$_1$ 01 23.1
Δ = 204 km. (127 mi.)

6) iP$_2$ 21 25 25.7
iS$_2$ 25 46.5
Δ = 173 km. (108 mi.)

*****(June 5)*****

Weston

iP$_1$ 11 51 17.7 Compression to South followed by a second 2 min. later
eS$_2$ 51 35.3
iS$_1$ 51 36.0 Δ = 150 km. (93 mi.)

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

Weston

iP$_1$ 02 03 44.4
eS$_1$ 03 49.5 Δ = 42 km. (26 mi.)

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

Weston

1) e 11 40 49 Beginning of undecipherable short period activity.

2) eP$_1$ 15 22 29.7
iS$_1$ 22 40.1

3) iP$_1$ 16 26 41.2
iS$_1$ 26 53.7

4) Δ = 85 km. (53 mi.)
Followed by another 3 min. later.

Δ = 102 km. (63 mi.)
Followed by 3 others within 3 min.

4) eP$_1$ 19 11 19.5 Δ = 70 km. (43 mi.)
eS$_1$ 11 28.0 Followed by 2 others within the minute.

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

Weston

1) iP$_1$ 17 37 56.9
eS$_1$ 38 12.2
Dilatation from East. Another 5 sec. later
Δ = 125 km. (78 mi.)

2) iP$_1$ 18 35 10.2
iS$_1$ 35 25.9
Dilatation from East
Δ = 128 km. (80 mi.)

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

Weston

1) e 13 16 00.5 Beginning of undecipherable short period activity.

2) eP$_1$ 14 01 14.6
eS$_1$ 01 31.9
Δ = 142 km. (88 mi.)

3) iP$_1$ 15 13 03.9
eS$_1$ 13 19.0
Δ = 124 km. (77 mi.)
Another 45 sec. later.

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

Weston

1) eP$_1$ 21 42 31.9
eS$_1$ 42 44.1
Δ = 100 km. (62 mi.)
2 others within next minute

2) iP$_1$ 22 14 37.0
eS$_1$ 14 50.3
Compression to West
Another 13 sec. later.
Δ = 109 km. (68 mi.)

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

Weston

1) iP$_1$ 13 30 05.9
iS$_1$ 30 14.9
Dilatation from East
Δ = 74 km. (46 mi.)

2) eP$_1$ 14 20 23.6
eS$_1$ 20 44.5
Δ = 89 km. (55 mi.)

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

Fordham

iP$_2$ 22 51 46.7
eS$_2$ 52 08.2
Δ = 172 km. (107 mi.)

Weston

e 22 51 53.1
eP$_2$ 51 54.1
iP$_1$ 51 54.9
eS$_2$ 52 15.6
iS$_1$ 52 17.9
Δ = 188 km. (117 mi.)

Absolute times do not agree. Distances, however, agree fairly well giving an intersection off Montauk Point.

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

Weston

1) e 01 32 23.1
eP$_1$ 32 23.7
eS$_1$ 32 44.2
Δ = 168 km. (104 mi.)

2) eP$_1$ 14 43 15.9
eS$_1$ 43 23.8
Δ = 65 km. (40 mi.)

3) eP$_1$ 15 03 40.8
iS$_1$ 03 50.2
Δ = 77 km. (48 mi.)

4) i 18 25 47.3 Beginning of undecipherable short period activity.

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

Weston

eP$_1$ 18 15 22.9
eS$_1$ 15 36.3 Δ = 110 km. (68 mi.)

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

Weston

1) iP$_1$ 15 26 24.1
iS$_1$ 26 27.7
Δ = 29 km. (18 mi.)

2) eP$_1$ 17 05 54.6
i 05 55.9
eS$_1$ 06 07.2
Δ = 103 km. (64 mi.)

3) eP$_1$ 13 49 36.1
eS$_1$ 50 13.0
Δ = 140 km. (87 mi.)

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

Weston

eP$_1$ 13 49 36.1
eS$_1$ 49 52.0 Δ = 130 km. (81 mi.)

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

Fordham

iP$_2$ 18 08 53.0
iS$_2$ 09 19.5 Δ = 230 km. (143 mi.)

E. R. Powers, S.J.,
Seismologist.

International Seismological Centre

NESA B U L L E T I N

June 16 - 30, 1943 Bulletin No. 120

****

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

Weston

1) e 15 10 34 undecipherable short period activity.

2) iP_1 15 35 15.6
eS_1 35 28.2 Δ = 103 km. (64 mi.)

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

Weston

iP_1 20 15 06.4 Compression to East
eS_1 15 22.0 Δ = 128 km. (79 mi.)

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

Weston

eP_1 12 40 52.7
eS_1 41 04.9 Δ = 100 km. (62 mi.)

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

Weston

eP_1 15 11 29.2
eS_1? 11 42.4 Δ = 108 km. (67 mi.)

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

Weston

eP_1 15 13 05.5
iS_1 13 13.4 Δ = 65 km. (40 mi.)

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

Weston

eP_1 15 30 32.6
eS_1 30 49.7 Δ = 139 km. (86 mi.)

Weston

eP1 23 14 55.9
eS 15 16.7
Δ = 170 km. (106 mi.)

*****(June 18)*****

Weston

eP1 15 26 07.2
i 26 08.3
iS1 26 21.0 Δ = 113 km. (70 mi.)

*****(June 18)*****

Weston

eP1 15 32 07.2
eS1 32 19.0 Δ = 97 km. (60 mi.)

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

Weston

iP1 17 23 25.4
eS1 23 39.7 Δ = 117 km. (73 mi.)

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

Fordham

iP2 19 50 32.0
i 50 33.0
iS2 50 54.8 Δ = 197 km. (12? mi.)

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

1 Weston

1) iP1 12 08 47.4
eS1 09 02.2
Δ = 121 km. (75 mi.)

2) eP1 12 57 32.0
eS1 57 47.1
Δ = 124 km. (77 mi.)

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

Weston

eP1 16 43 37.7
eS1? 43 46.6 Δ = 73 km. (45 mi.)

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

Weston

iP_1 12 33 40.2
eS_1 33 52.1 Δ = 97 km. (60 mi.)

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

Weston

eP_1 16 04 11.0
eS_1 04 24.6 Δ = 111 km. (69 mi.)

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

Weston

eP_1 17 02 48.9
eS_1 03 00.0 Δ = 91 km. (56 mi.)

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

Weston

eP 12 26 12.8
eS 26 30.5 Δ = 145 km. (90 mi.)
19 others at approximately the same distance during next hour.

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

Weston

1) eP_1 14 20 52.9
eS_1 21 06.6
Δ = 112 km. (70 mi.)

2) eP_1 15 15 00.3
eS_1 15 11.9
Δ = 95 km. (59 mi.)

3) iP_1 16 56 07.4
iS_1 56 20.0
Δ = 103 km. (64 mi.)

4) iP_1 17 00 46.5
eS_1 01 02.1
Δ = 128 km. (79 mi.)

5) iP_1 19 00 42.5
eS_1 00 55.2
Δ = 104 km. (65 mi.)

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

Weston

1) eP_1 12 36 03.9
iS_1 36 10.6
Δ = 55 km. (34 mi.)

2) e 18 34 27
undecipherable short period activity.

3) iP_1 20 12 08.3
eS_1 12 22.4
Δ = 115 km. (72 mi.)

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

Weston

1) iP_1 14 29 54.3
iS_1 30 06.7
Δ = 101 km. (63 mi.)

2) iP_1 14 36 12.9
iS_1 36 21.0
Δ = 66 km. (41 mi.)

3) iP_1 16 13 57.7
iS_1 14 08.6
Δ = 89 km. (55 mi.)

4) eP_1 16 16 26.7
eS_1 16 34.0
Δ = 60 km. (37 mi.)

5) iP_1 19 35 56.1
iS_1 36 08.7
Δ = 103 km. (64 mi.)
Comp. to West another 4 min. later.

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

Weston

1) iP_1 17 33 54.4
iS_1 33 58.1

3) Δ = 30 km. (19 mi.)

2) e 18 08 03 undecipherable short period activit

3) iP_1 18 57 01.8
eS_1 57 07.9
Δ = 50 km. (31 mi.)

4) iP_1 20 45 31.3
iS_1 45 36.9
Δ = 46 km. (28 mi.)

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

Fordham

iP_2 21 28 16.5
iS_2 28 44 Δ = 240 km. (149 mi.)

*****(June 27)*****

Weston

eP_1 19 46 50.6
eS_1 47 04.8 Δ = 116 km. (72 mi.)

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

Weston

1) e 14 37 18
undecipherable short period activity.

2) iP_1 18 41 31.8
eS_1 41 40.5
Δ = 71 km. (44 mi.)

3) eP_1 19 37 30.4
eS_1 37 44.5
Δ = 115 km. (72 mi.)

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

Weston

1) eP_1 13 22 54.5
eS_1 23 04.8
Δ = 84 km. (52 mi.)

2) iP_1 18 29 07.2 Dil. from West
iS_1 29 21.2 5 others in next three minutes.
Δ = 115 km. (71 mi.)

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

Weston

1) iP_1 11 38 41.7
eS_1 38 54.8
Δ = 107 km. (67 mi.)

2) iP_1 15 14 22.1
eS_1 14 42.0
Comp. to West
Δ = 163 km. (101 mi.)

3) eP_1 15 26 05.8
iS_1 26 18.0
Δ = 100 km. (63 mi.)

4) eP_1 19 05 27.8
iS_1 05 37.9
Δ = 83 km. (51 mi.)

5) iP_1 21 20 28.8
iS_1 20 40.7
Dil. from East
Δ = 97 km. (60 mi.)

6) eP_1 21 54 56.2
eS_1 55 08.0
Δ = 97 km. (60 mi.)

E. R. Powers, S.J.

International Seismological Centre

NESA B U L L E T I N

July 1 - 15, 1943 Bulletin No. 121

****

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

Weston

(1) iP_1 14 49 54.8
eS_1 50 10.2
Δ = 126 km. (78 mi.)

Weston

(2) eP_1 19 06 04.4
eS_1 06 16.5
Δ = 99 km. (61 mi.)

Weston

(3) eP_1 19 26 17.8
eS_1 26 29.6
Δ = 96 km. (59 mi.)

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

Weston

(1) iP_1 13 49 00.5
eS_1 49 15.1
Δ = 119 km. (74 mi.)

Weston

(2) iP_1 16 07 33.3
eS_1 07 51.7
Δ = 151 km. (94 mi.)

Weston

(3) eP_1 17 44 00.4
eS_1 44 17.2
Δ = 137 km. (85 mi.)
Another 12.5 min. later.

Fordham

i 21 26 20

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

Weston

(1) iP_1 14 51 39.9
eS_1 51 48.9
Δ = 74 km. (46 mi.)
2 others within 1 min.

Weston

(2) eP_1 23 24 15.0
eS_1? 24 41.3
Δ = 215 km. (134 mi.)

*****(July 4)*****

Weston

(1) iP_2 01 17 06.9
eS_2 17 30.2
Δ = 200 km. (124 mi.)

Fordham

iP_2 01 17 11.5
iS_2 17 33.5
Δ = 236 km. (147 mi.)

Weston

(2) eP_2 14 28 52.2
eS_2 29 10.9
Δ = 157 km. (98 mi.)

Weston

(3) iP_2 15 27 51.7
eS_2 28 09.9
Δ = 153 km. (95 mi.)

Weston

(4) eP_1 18 46 12.3
eS_2 46 29.8
Δ = 146 km. (91 mi.)

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

Woston

(1) eP1 14 07 07.4
eS1 07 13.8
Δ = 52 km. (33mi.)

Harvard

iP1 14 07 10
iS1 07 19
Δ = 74 km. (46 mi.)
H = 14 06 58

Weston

(2) iP1 16 54 50.2
iS1 55 03.5
Δ = 109 km. (68 mi.)

Harvard

eP1 16 54 54
iS1 55 11
Δ = 139 km. (86 mi.)
H = 16 54 32

Woston

(3) iP1 19 08 15.4
oS1 08 28
Δ = 105 km. (66 mi.)

Harvard

oP1 19 08 19
oS1 08 34
Δ = 128 km. (80 mi.)
H = 19 07 58

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

Burlington

iP1 22 10 22
iL 10 29
i2(S1S1) 10 35
Δ = 45 km. (28 mi.)

Shawinigan Falls

Pn 22 10 44
S? 11 06
S1 11 08.5
Δ = 186 km. (116 mi.)

Ottawa

iPn 22 10 48
iSn 11 14
i 11 17.5
i 11 23
eL 11 27
Δ = 225 km. (140 mi.)

Harvard

iPn 22 10 56.2
iP2 11 00
iP1 11 02.5
iS3 11 30
iS2 11 33
iS1 11 39
iL 11 58
Δ = 295 km. (183 mi.)

Seven Falls

Pn 22 10 58
S3 11 33.5
e 11 38.5
e 11 41.5
Δ = 310 km. (193 mi.)

Weston

iPn 22 10 58.6
iP3 11 02.5
iP1 11 05.5
iSn 11 32
iS3 11 34
iS2 11 38
iS1 11 45
eL 12 07
Δ = 315 km. (196 mi.)

Fordham

iP2 22 11 24
iS2 12 16
i 12 20
Δ = 460 km. (286 mi.)
H = 22 10 14.5
φ = 44°.9 N.
λ = 73°.2 W.
West of Swanton, Vt.
Intensity IV on R. F. scale.

Non-instrumental reports indicate that the region of strongest felt motion lay between Swanton, Vt., and St. Albans, Vt.

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

Weston

(1) ePl 15 08 10.6
iSl 08 20.6

Δ = 82 km. (51 mi.)

Weston

(2) ePl 18 35 58.1
i 35 59.7
iSl 36 10.6

Δ = 102 km. (64 mi.)

Harvard

iPl 18 36 02
PlPl 36 03
iSl 36 17

Δ = 122 km. (76 mi.)

Fordham

iPl 18 45 01.5
iSl 45 13.5

Δ = 98 km. (61 mi.)

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

Fordham

iPl 16 59 30.0
iSl 59 43.0

Δ = 106 km. (66 mi.)

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

Weston

ePl 16 00 32.6
eS2 00 50.9
eSl 00 52.5

Δ = 163 km. (101 mi.)

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

Weston

ePl 18 15 12.3
eSl 15 27.4

Δ = 124 km. (77 mi.)

*****(July 11)*****

Weston

ePl 17 11 06.5
iSl 11 14.5

Δ = 65 km. (41 mi.)

Harvard

iPl 17 11 10
iSl 11 20

H = 17 00 56

Δ = 82 km. (51 mi.)

Fordham

iPl 20 48 33.5
iSl 48 49.5

Δ = 131 km. (81 mi.)

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

Weston

(1) eP_1 13 02 41.0
iS_1 02 58.3
Δ = 142 km. (88 mi.)

Harvard

eP_1 13 02 42 H = 13 02 19
S_2 02 59
S_1 03 00 Another 4.5 sec. later.
Δ = 143 km. (90 mi.)

Weston

(2) eP 15 56 28.1 Δ = 121 km. (75 mi.)
eS 56 42.9 4 others at approximately the same distance within the next 8 minutes.

Weston

(3) iP 19 01 17.9
iS 01 30.0
Δ = 99 km. (61 mi.)

Harvard

iP 19 01 21.9 H = 19 01 01
iS 01 37 At least 5 others in next 2 min.
Δ = 124 km. (77 mi.)

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

Fordham

iP_2 18 42 57.4
iS_2 43 13.7 Δ = 136 km. (85 mi.)

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

Weston

(1) iP_1 18 17 14.5
eS_1 17 28
Δ = 110 km. (69 mi.)

Harvard

iP_1 18 17 20 H = 18 16 56
iS_1 17 37 Another 9 sec. later.
Δ = 139 km. (86 mi.)

Weston

(2) iP_1 18 25 12.3
iS_1 25 28.0
Δ = 130 km. (81 mi.)

Harvard

iP_1 18 25 17.3 H = 18 24 51
iS_2 25 35.8 4 others within next 15 sec.
Δ = 158 km. (98 mi.)

Below are listed short period disturbances which were too weak to be deciphered. The day, hour, and minute of the disturbance are given, together with the stations recording the undecipherable phases.

July	1	$22^h\ 20^m$	Weston
	3	15 27	"
	7	13-15 hrs.	Fordham, Harvard, Weston
	8	17 00	Weston
	9	18-20	"
	15	09 15	Weston, Harvard

D. Linehan, S.J.,
E. R. Powers, S.J.

International Seismological Centre

NESA B U L L E T I N

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

	Weston	Harvard	
1)	iP_1 14 15 00	iP_1 14 15 02	H = $14^h14^m40^s$
	eS_1 15 14.5	eS_1 15 18	ϕ = 41°.4 N.
			λ = 70°.0 W.
	Δ = 110 km. (71 mi.)	Δ = 130 km. (81 mi.)	

	Weston	Harvard	
2)	eP_1 14 18 10.9	eP_1 14 18 12.5	H = $14^h17^m51^s$
	eS_1 18 25	eS_1 18 30	ϕ = 41°.8 N.
			λ = 70°.1 W.
	Δ = 115 km. (71 mi.)	Δ = 143 km. (89 mi.)	

	Weston	Harvard	
3)	eP_1 14 20 19	iP_1 14 20 21	H = $14^h19^m58^s.5$
	eS_1 20 34	eS_1 20 37.5	ϕ = 43°.3 N.
			λ = 70°.4 W.
	Δ = 123 km. (76 mi.)	Δ = 127 km. (79 mi.)	

	Weston	Harvard	
4)	eP_1 15 42 05.5	eP_1 15 42 09.5	H = $15^h41^m52^s.5$
	eS_1 42 15.0	eS_1 42 22	ϕ = 42°.5 N.
			λ = 70°.1 W.
	Δ = 78 km. (48 mi.)	Δ = 103 km. (64 mi.)	

	Weston	Harvard	
5)	iP_1 19 32 16.3	iP_1 19 32 20	H = $19^h31^m54^s$
	iS_1 32 32.3	iS_1 32 38.6	ϕ = 41°.8 N.
			λ = 69°.8 W.
	Δ = 134 km. (83 mi.)	Δ = 160 km. (99 mi.)	

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

	Weston	Harvard	
1)	eP_1 12 50 52.8	eP_1 12 50 56.5	H = $12^h50^m46^s$
	eS_1 51 05.5	eS_1 51 11.5	ϕ = 41°.5 N.
			λ = 71°.2 W.
	Δ = 104 km. (65 mi.)	Δ = 123 km. (76 mi.)	

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

	Weston	Harvard	
2)	eP_1 16 16 56.3 eS_1 17 08.8	iP_1 16 16 59.5 eS_1 17 14.6	H = $16^h16^m49^s$ ϕ = 41°.5 N. λ = 71°.2 W.
	Δ = 104 km. (65 mi.)	Δ = 123 km. (76 mi.)	
	Weston	**Harvard**	
3)	eP_1 17 51 41.3 eS_1 51 56.5	iP_1 17 51 46.5 eS_1 52 03	H = $17^h51^m25^s$ ϕ = 42°.4 N. λ = 69°.9 W.
	Δ = 110 km. (68 mi.)	Δ = 133 km. (83 mi.)	
	Weston	**Harvard**	
4)	iP_1 17 56 13.0 eS_1 56 25.2	iP_1 17 56 16.5 eS_1 56 31	H = $17^h56^m06^s.7$ ϕ = 41°.5 N. λ = 71°.1 W.
	Δ = 98 km. (61 mi.)	Δ = 119 km. (74 mi.)	
	Weston	**Harvard**	
5)	eP_1 18 00 12.5 eS_1 00 24.5	eP_1 18 00 15.9 eS_1 00 30.3	H = $17^h59^m56^s.2$ ϕ = 41°.5 N. λ = 71°.2 W.
	Δ = 98 km. (61 mi.)	Δ = 119 km. (74 mi.)	
	Weston	**Harvard**	
6)	iP_1 18 00 50.5 iS_1 01 04.5	iP_2 18 00 54.5 eS_2 01 11.5	H = $18^h00^m31^s.2$ ϕ = 42°.4 N. λ = 69°.9 W.
	Δ = 115 km. (71 mi.)	Δ = 144 km. (89 mi.)	
	Weston	**Harvard**	
7)	eP_1 18 17 19.5 eS_1 17 32	eP_1 18 17 22.5 eS_1 17 37	H = $18^h17^m02^s.5$ ϕ = 41°.5 N. λ = 71°.2 W.
	Δ = 102 km. (63 mi.)	Δ = 121 km. (75 mi.)	
	Weston	**Harvard**	
8)	eP 18 28 49.5 eS 29 02	eP 18 28 52 eS 29 06.5	H = $18^h28^m33^s$ ϕ = 41°.5 N. λ = 71°.2 W.
	Δ = 102 km. (63 mi.)	Δ = 121 km. (75 mi.)	

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

Weston

9) eP 19 29 00
eS 29 15
Δ = 123 km. (76 mi.)

Harvard

eP 19 29 03
eS 29 20
Δ = 139 km. (86 mi.)

H = $19^h29^m39^s.5$
φ = 41°.3 N.
λ = 71°.3 W.

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

Harvard

1) eP_1 14 21 40.2
eS_1 21 50
H = $14^h21^m27^s$
Δ = 80 km. (50 mi.)

Weston

2) eP_1 15 27 55.5
i 28 07.5

Harvard

iP_1 15 27 57.5
i 28 08.3

Weston

3) eP 17 45 14.3
eS - 45 22.0
Δ = 63 km. (39 mi.)

Harvard

eP 17 45 17.5
eS 45 27.5
Δ = 82 km. (51 mi.)

H = $17^h45^m03^s.8$

Weston

4) eP_1 19 09 07.8
eS_1 09 22
Δ = 117 km. (73 mi.)

Harvard

eP_2 19 09 11.6
eS_2 09 28
Δ = 140 km. (87 mi.)

H = $19^h08^m48^s.5$
φ = 41°.4 N.
λ = 71°.0 W.

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

Weston

1) eP_2 02 21 26
eS_2 21 47.8
Δ = 190 km. (118 mi.)

Harvard

eP_2 02 21 27
eS_2 21 49
Δ = 195 km. (121 mi.)

H = $02^h20^m06^s$
φ = 43°.7 N.
λ = 69°.7 W.

Weston

2) iP_1 18 36 44.9
iS_1 37 00.3
Δ = 127 km. (79 mi.)

Harvard

eP_2 18 36 48.5
iS_2 37 06.5
Δ = 153 km. (95 mi.)

H = $18^h36^m24^s$
φ = 42°.3 N.
λ = 69°.8 W.

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

Weston

3) iP_1 18 39 20.9
iS_1 39 36
Δ = 123 km. (76 mi.)

Harvard

eP_2 18 39 23.8
iS_2 39 40.8
Δ = 142 km. (88 mi.)

H = $18^h39^m00^s.5$
φ = 41°.3 N.
λ = 69°.9 W.

Ottawa

4) P_2 23 20 09
S_2 20 27.8
F 23 21

H = $23^h19^m42^s$
Δ = 165 km. (102 mi.)

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

Weston

1) eP_2 12 23 32.6
iS_2 23 50.9
Δ = 151 km. (94 mi.)

Harvard

eP_2 12 23 36
iS_2 23 56.2
Δ = 173 km. (108 mi.)

H = $12^h23^m08^s.5$
φ = 41°.7 N.
λ = 69°.7 W.

Weston

2) eP_1 15 54 52.3
eS_1 55 01.5
Δ = 71 km. (44 mi.)

Harvard

eP_1 15 54 56
iS_1 55 07.5
Δ = 95 km. (59 mi.)

H = $12^h54^m40^s.5$
φ = 42°.1 N.
λ = 70°.5 W.

Weston

3) eP_1 18 53 29.1
eS? 53 43.5

Harvard

eP_1 18 53 33
eS_2 53 51
Δ = 160 km. (99 mi.)

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

Weston

1) iP_1 10 39 55.3
eS_1 40 09
Δ = 111 km. (69 mi.)

Harvard

eP_1 10 39 57.5
eS_1 40 12.5
Δ = 123 km. (76 mi.)

H = $10^h39^m37^s$
φ = 43°.1 N.
λ = 70°.3 W.

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

Fordham

2) iP 15 21 43

Weston

eP$_n$ 15 21 55.3
iP$_3$ 21 58.0
iP$_1$ 22 01.9
eS$_n$ 22 25.5
eS$_2$ 22 30.6

Δ = 279 km. (177 mi.)

Harvard

eP$_n$ 15 21 57.5
eP$_3$ 22 00.2
iP$_1$ 22 04.5
eS$_2$ 22 35

Δ = 298 km. (185 mi.)

Ottawa

P$_1$ 15 23 07
S$_3$ 24 03
S$_2$ 24 15

Δ = 687 km. (427 mi.)

H = 15^{h}21^{m}15^s.2
φ = 39°.9 N.
λ = 71°.9 W.

Weston

3) eP$_1$ 15 56 15.5
eS$_1$ 56 31

Δ = 129 km. (80 mi.)

Harvard

eP$_1$ 15 56 19
eS$_1$ 56 37

Δ = 153 km. (95 mi.)

H = 15^{h}56^{m}04^s
φ = 42°.3 N.
λ = 69°.8 W.

Weston

4) eP$_2$ 16 48 29.2
iS$_1$ 48 52.8

Δ = 183 km. (114 mi.)

Harvard

iP$_2$ 16 48 34.2
eS$_2$ 48 58.5

Δ = 209 km. (130 mi.)

H = 16^{h}48^{m}00^s.2

Weston

5) eP$_1$ 19 45 38
eS$_1$ 45 53

Δ = 122 km. (76 mi.)

Harvard

eP$_1$ 19 45 41
eS$_1$ 45 58

Δ = 142 km. (88 mi.)

H = 19^{h}45^{m}18^s
φ = 41°.4 N.
λ = 69°.8 W.

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

Weston

1) eP$_1$ 03 20 09.4
eS$_1$ 20 21.8

Δ = 105 km. (65 mi.)

Harvard

eP$_1$ 03 20 13
eS$_1$ 20 28.2

Δ = 127 km. (79 mi.)

H = 02^{h}19^{m}52^s
φ = 41°.6 N.
λ = 70°.1 W.

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

Weston

1) eP_1 14 30 13.2
eS_1 30 20
Δ = 54 km. (34 mi.)

Harvard

iP_1 14 30 16.5
eS_1 30 25
Δ = 74 km. (46 mi.)
H = $14^h30^m04^s.5$

Fordham

2) iP_2 17 48 56.0
$i(P_1S_1)$ 49 00.0
iS_2 49 12.0
$i(^2S_1S_1)$ 49 16.5
H = $17^h48^m34^s.2$
Δ = 133 km. (83 mi.)

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

Fordham

1) iP_2 05 19 00.6
iS_2 19 18.7
Δ = 152 km. (94 mi.)
H = $05^h18^m35^s.8$
φ = 40°.0 N.
λ = 72°.7 W.

Weston

eP_n 05 19 17.3
eP_1 19 23.2
eS_2 19 54.4
Δ = 293 km. (182 mi.)

Harvard

eP_n 05 19 17.5
iS_2 19 54.7
Δ = 294 km. (183 mi.)

Weston

2) eP_2 16 27 33.8
eS_2 27 49.8
H = $16^h27^m12^s.1$
Δ = 133 km. (83 mi.)

Weston

3) eP_2 18 57 44.0
eS_2 58 01.9
H = $18^h57^m19^s.5$
Δ = 152 km. (94 mi.)

Weston

4) iP_2 19 00 15.0
eS_1? 00 33.3

*****(July 25)*****

Weston

1) eP_1 19 13 54.7
eS_1 14 08.6
Δ = 114 km. (71 mi.)

Harvard

eP_1 19 13 57.2
eS_1 14 13.1
Δ = 130 km. (81 mi.)
H = $19^h13^m35^s.8$
φ = 43°.0 N.
λ = 70°.1 W.

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

Weston		Harvard	
1) eP_2	18 31 36.1	eP_2 18 31 40.6	$H = 18^h31^m08^s.7$
iS_1	31 59.3	eS_1 32 06.7	$\phi = 42°.0$ N.
Δ = 175 km. (109 mi.)		Δ = 201 km. (124 mi.)	$\lambda = 69°.2$ W.

Weston		Harvard	
2) eP_1	22 11 49.0	eP_2 22 11 52.5	$H = 22^h11^m32^s.1$
eS_1	12 02.1	eS_1? 12 09.2	
Δ = 103 km. (65 mi.)			

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

Weston		Harvard	
1) eP_1	19 04 44.8	eP_1 19 04 47.3	$H = 19^h04^m22^s.6$
eS_1	05 01.9	eS_1 05 06.6	$\phi = 41°.2$ N.
Δ = 136 km. (85 mi.)		Δ = 152 km. (94 mi.)	$\lambda = 71°.5$ W.

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

Weston		Harvard	
1) eP	04 12 58	eP 04 13 00	Aftershock of a strong
e	13 13	i 13 15	Caribbean Quake at 29^d03^h07
iS	17 02	iS 17 10	Followed by fourteen
Δ = 22°.9		Δ = 23°.6	others within next 2 days.

Weston		Harvard	
2) eP_1	12 13 41.8	iP_1 12 13 45.5	$H = 12^h13^m29^s.5$
eS_1	13 50.9	eS_1 13 56.0	$\phi = 42°.8$ N.
Δ = 74 km. (46 mi.)		Δ = 86 km. (53 mi.)	$\lambda = 60°.6$ W.

Weston		Harvard	
3) eP_2	15 01 46.0	eP_2 15 01 46.4	$H = 15^h01^m19^s.1$
eS_2	02 05.6	eS_2 02 06.1	$\phi = 41°.2$ N.
Δ = 167 km. (104 mi.)		Δ = 168 km. (104 mi.)	$\lambda = 72.4$ W.

From 15^h24^m to 16^h55^m, 5 undecipherable short period disturbances.

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

Weston

4) eP_1 19 02 52.8
eS_1 03 07.3
Δ = 119 km. (74 mi.)

Harvard

eS_1 19 03 10.2

H = $19^h02^m33^s.1$

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

Weston

1) eP_1 14 32 26.8
eS_1 32 34.2
Δ = 61 km. (38 mi.)

Harvard

eP_1 14 32 31.3
eS_1 32 41.9
Δ = 87 km. (54 mi.)

H = $14^h32^m16^s.3$
φ = 42°.3 N.
λ = 70°.5 W.

Weston

2) eP_1 16 37 00.6
iS_1 37 16.2
Δ = 128 km. (79 mi.)

Harvard

eP_1 16 37 05.2
eS_1 37 23.9
Δ = 153 km. (95 mi.)

H = $16^h36^m39^s.2$
φ = 41°.5 N.
λ = 70°.3 W.

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

Weston

1) eP_1 20 25 03.7
eS_1 25 18.0
Δ = 117 km. (73 mi.)

Harvard

eP_2 20 25 07.9
eS_2 25 24.9
Δ = 142 km. (88 mi.)

H = $20^h25^m44^s.5$
φ = 41°.5 N.
λ = 70°.6 W.

D. Linehan, S.J.
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NESA B U L L E T I N

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*****(August 1)*****

1) Caribbean Quake

13 others from the 1st to the 15th.

Weston

eP 01 17 38
eS 21 40
Δ = 22°.7

Harvard

eP 01 17 40
eS 21 44
Δ = 22°.9

Weston

2) eP_1 01 37 08.3
eS_1 37 15.3
Δ = 57 km. (36 mi.)

Harvard

eP_1 01 37 12.3
H = $01^h36^m58^s.5$

Weston

3) eP_1 14 06 33.7
iS_1 06 45.1
Δ = 93 km. (58 mi.)

Harvard

eP_1 14 06 37.8
eS_1 06 52.3
Δ = 119 km. (74 mi.)
H = $14^h06^m18^s.2$
φ = 42°.3 N.
λ = 70°.2 W.

Fordham

4) iP_1 14 22 21
Δ = 86 km. (53 mi.)
H = $14^h22^m07^s.0$
φ = 41°.6 N.
λ = 74°.1 W.

Harvard

eP_3 14 22 42.1
iP_1 22 43.5
iS_1 23 11.9
Δ = 226 km. (140 mi.)

Weston

eP_n 14 22 07.0
eP_1 22 46.3
eS_3 23 10.2
iS_2 23 12.3
iS_1 23 16.6
Δ = 241 km. (150 mi.)

Weston

5) eP_1 15 51 12.5
iS_1 51 23.7
Δ = 92 km. (57 mi.)

Harvard

eP_1 15 51 16.1
eS_1 51 29.6
Δ = 110 km. (69 mi.)
H = $15^h50^m57^s.3$
φ = 42.8 N.
λ = 70°.2 W.

Weston

6) eP_1 17 50 56.8
eS_1 51 12.4
Δ = 128 km. (79 mi.)

Harvard

eP_1 17 51 00.7
eS_1 51 18.8
Δ = 148 km. (92 mi.)
H = $17^h50^m36^s.1$
φ = 42°.6 N.
λ = 69°.8 W.

*****(August 1)*****

Weston		Harvard	
7) eP2	18 18 31.1	eP2 18 18 33.7	H = $18^h18^m03^s.2$
eS2	18 51.6	eS2 18 55.8	ϕ = 43°.1 N.
			λ = 69°.4 W.
Δ = 176 km. (109 mi.)		Δ = 190 km. (118 mi.)	

Weston		Harvard	
8) eP2	23 00 34.8	eP2 23 00 38.3	H = $23^h00^m07^s.7$
eS2	00 54.7	eS2 01 00.5	ϕ = 42°.6 N.
			λ = 69°.3 W.
Δ = 170 km. (106 mi.)		Δ = 192 km. (119 mi.)	

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

Weston		Harvard	
1) eP2	00 33 57.0	eP2 00 34 00.5	H = $00^h33^m30^s.5$
iS1	34 18.2	eS2 34 22.1	ϕ = 43°.1 N.
			λ = 69°.5 W.
Δ = 167 km. (104 mi.)		Δ = 186 km. (115 mi.)	

Weston		Harvard	
2) iP1	15 47 38.0	eP1 15 47 40.8	H = $15^h47^m25^s.6$
iS1	47 47.0	iS1 47 52.1	ϕ = 42°.6 N.
			λ = 70°.4 W.
Δ = 74 km. (46 mi.)		Δ = 92 km. (57 mi.)	

Weston		Harvard	
3) eP2	20 03 51.1	eS2? 20 04 14.8	Undecipherable.

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

Weston		Harvard	
1) iP1	17 36 28.8	eP1 17 36 31.8	H = $17^h36^m17^s.6$
iS1	36 37.6	iS1 36 42.0	ϕ = 42°.8 N.
			λ = 70°.6 W.
Δ = 69 km. (43 mi.)		Δ = 83 km. (52 mi.)	

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

Weston		Harvard	
1) eP1	14 07 40.9	eP1 14 07 45.4	H = $14^h07^m25^s.2$
iS1	07 52.4	iS1 08 00.0	ϕ = 42°.3 N.
			λ = 70°.2 W.
Δ = 94 km. (58 mi.)		Δ = 119 km. (74 mi.)	

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

Weston

2) iP$_2$ 18 22 22.0
iS$_2$ 22 38.8
iS$_1$ 22 39.7
Δ = 142 km. (88 mi.)

Harvard

eP$_2$ 18 22 25.5
iS$_2$ 22 44.7
iS$_1$ 22 46.2
Δ = 163 km. (100 mi.)

H = 18^{h}21^{m}59^s.0
φ = 42°.6 N.
λ = 69°.7 W.

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

Weston

1) eP$_2$ 16 38 15.9
iP$_1$ 38 16.3
eS$_2$ 38 32.8
Δ = 131 km. (81 mi.)

Harvard

eP$_2$ 16 38 19.0
i 38 20.0
iS$_1$ 38 38.4
Δ = 154 km. (96 mi.)

H = 16^{h}37^{m}54^s.3
φ = 41°.3 N.
λ = 70°.6 W.

Weston

2) e 19 53

Harvard

e 19 53

Undecipherable.

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

Weston

1) e 15 23

Harvard

e 15 23

Undecipherable.

Weston

2) eP$_1$ 16 31 48.8
eS$_1$ 32 01.8
Δ = 106 km. (66 mi.)

Harvard

eP$_2$ 16 31 52.3
eS$_1$ 32 08.5
Δ = 130 km. (81 mi.)

H = 16^{h}31^{m}31^s.0
φ = 41°.5 N.
λ = 70°.8 W.

Weston

3) e 17 06

Harvard

e 17 06

Undecipherable.

Weston

4) e 20 33

Harvard

e 20 33

Undecipherable.

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

Weston

1) e 15 24

Harvard

e 15 24

Undecipherable.

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

Weston

2) e 17 25

Harvard

i 17 25

Undecipherable.

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

Weston

1) eP1 13 47 01.4
eS1 47 09.9
Δ = 70 km. (43 mi.)

Harvard

eP1 13 47 05.5
eS1 47 16.5
Δ = 94 km. (58 mi.)

H = $13^h46^m50^s$
φ = 42°.3 N.
λ = 70°.4 W.

Weston

2) eP1 14 33 44.6
eS1 33 53.4
Δ = 72 km. (45 mi.)

Harvard

eP1 14 33 47.4
iS1 33 58.1
Δ = 88 km. (54 mi.)

H = $14^h33^m32^s.6$
φ = 42°.8 N.
λ = 70°.5 W.

Weston

3) eP1 14 58 38.3
eS1 58 47.0
Δ = 71 km. (44 mi.)

Harvard

eP1 14 58 41.8
eS1 58 53.2
Δ = 93 km. (58 mi.)

H = $14^h58^m26^s.4$
φ = 42°.4 N.
λ = 70°.4 W.

Weston

4) eP1 16 56 59.3
iS1 57 08.3
Δ = 74 km. (46 mi.)

Harvard

eP1 16 57 02.4
eS1 57 13.5
Δ = 91 km. (56 mi.)

H = $16^h56^m47^s.1$
φ = 42°.7 N.
λ = 70°.4 W.

Weston

5) e 21 57

Harvard

e 21 57

Undecipherable.

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

Weston

1) e 14 37

Harvard

e 14 37

Undecipherable.

Weston

2) e 15 57

Harvard

e 15 57

Undecipherable.

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

Weston	Harvard	
3) eP_1 17 09 20.1 eS_1 09 34.7 Δ = 119 km. (74 mi.)	eP_2 17 09 24.3 eS_2 09 41.5 Δ = 145 km. (90 mi.)	H = $17^h09^m00^s.5$ ϕ = 41°.7 N. λ = 70°.2 W.

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

Weston	Harvard	
1) iP_1 15 04 38.9 iS_1 04 52.0 Δ = 107 km. (66 mi.)	iP_1 15 04 41.4 eS_1 04 54.8 Δ = 110 km. (68 mi.)	H = $15^h04^m23^s.1$ ϕ = 42°.6 N. λ = 70°.0 W.
2) iP_1 15 51 17.0 eS_2 51 35.3 Δ = 163 km. (101 mi.)	eP2 15 51 20.1 eS2 51 42.0 Δ = 189 km. (117 mi.)	H = $15^h50^m50^s.0$ ϕ = 41.6 N. λ = 69.7 W.
3) eP_1 17 52 23.0 eS_1 52 36.0 Δ = 106 km. (66 mi.)	eP_1 17 52 26.7 eS_2 52 42.5 Δ = 131 km. (81 mi.)	H = $17^h52^m05^s.3$ ϕ = 41°.5 N. λ = 70°.6 W.
4) eP_1 21 08 00.5 eS_1 08 15.0 Δ = 115 km. (71 mi.)	eP_1 21 08 04.6 eS_2 08 21.5 Δ = 140 km. (87 mi.)	H = $21^h07^m41^s.8$ ϕ = 41°.5 N. λ = 70°.7 W.

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

Weston	Harvard	
1) eP_1 14 33 50.3 eS_1 34 06.5 Δ = 133 km. (83 mi.)	eP_1 14 33 53.4 eS_1 34 12.8 Δ = 152 km. (94 mi.)	H = $14^h33^m28^s.7$ ϕ = 41°.2 N. λ = 71°.3 W.

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

Weston

2) iP_1 16 02 56.0
iS_1 03 10.0
Δ = 111 km. (69 mi.)

Harvard

eP_1 16 02 59.0
iS_1 03 15.6
Δ = 132 km. (82 mi.)

H = $16^h02^m37^s.7$
φ = 42°.6 N.
λ = 70°.0 W.

Weston

3) eP_1 16 32 56.1
eS_1 33 14.6
Δ = 146 km (91 mi.)

Harvard

eP_1 16 32 58.4
eS_1 33 18.7
Δ = 160 km. (99 mi.)

H = $16^h32^m32^s.3$
φ = 41°.1 N.
λ = 71°.5 W.

Weston

4) eP_1 17 40 17.5
eS_1 40 31.6
Δ = 111 km. (69 mi.)

Harvard

eP_1 17 40 21.4
iS_1 40 38.5
Δ = 135 km. (84 mi.)

H = $17^h39^m59^s.4$
φ = 42°.6 N.
λ = 70°.0 W.

Weston

5) eP_1 18 05 55.5
eS_2 06 13.0
eS_1 06 14.0
Δ = 146 km. (91 mi.)

Harvard

eP_2 18 05 57.8
eS_2 06 17.4
eS_1 06 18.7
Δ = 163 km. (101 mi.)

H = $18^h05^m31^s.6$
φ = 41°.2 N.
λ = 70°.6 W.

Weston

6) eP_1 20 27 47.6
i 27 48.0
eS_1 28 01.9
Δ = 114 km. (71 mi.)

Harvard

eP_1 20 27 51.1
i 27 52.0
eS_1 28 08.3
Δ = 137 km. (85 mi.)

H = $20^h27^m28^s.9$

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

Weston

1) e 16 48
Undeciperable

Weston

2) iP_1 17 58 26.1
iS_1 58 42.0
Δ H = $17^h58^m05^s.6$
Δ = 126 km. (78 mi.)

D. Linehan, S.J.
E.R. Powers, S.J.

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

	Weston	Harvard	
1)	eP_1 20 27 40.0 eS_1 27 57.5 Δ = 144 km. (89 mi.)	eP_1 20 27 41.5 eS_1 28 00.0 Δ = 153 km. (95 mi.)	H = $20^h27^m16\overset{s}{.}0$ ϕ = 43°.3 N. λ = 70.0 W.
	Weston	Harvard	
2)	eP_1 21 58 54.2 eS_1 59 12.4 Δ = 139 km. (86 mi.)	eP_1 21 58 58 eS_1 59 26 Δ = 154 km. (96 mi.)	H = $21^h58^m32\overset{s}{.}5$ ϕ = 41°.2 N. λ = 71°.2 W.

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

	Weston	Harvard	
1)	eP_1 13 13 44.6 eS_1 14 03.1 Δ = 153 km. (95 mi.)	eP_1 13 13 46 eS_1 14 05.5 Δ = 162 km. (100 mi.)	H = $13^h13^m19\overset{s}{.}2$ ϕ = 43°.3 N. λ = 69°.9 W.
	Weston	Harvard	
2)	e 17 30	e 17 30	Undecipherable.
	Weston	Harvard	
3)	e 18 33	e 18 33	Undecipherable.
	Weston	Harvard	
4)	e 20 03	e 20 03	Undecipherable.

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

	Weston	Harvard	
1)	e 01 29	e 01 29	Undecipherable.

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

	Weston	Harvard	
2)	eP_1 13 46 06.6 iS_1 46 23.3 Δ = 133 km. (83 mi.)	iP_1 13 46 10 eS_1 46 29 Δ = 156 km. (97 mi.)	H = $13^h45^m44^s$ ϕ = 41°.3 N. λ = 70°.7 W.
3)	eP_1 15 39 51.5 eS_1 40 06.6 Δ = 125 km. (78 mi.)	eP_1 15 39 55 eS_1 40 12.5 Δ = 145 km. (90 mi.)	H = $15^h39^m31^s$ ϕ = 42°.7 N. λ = 69°.9 W.
4)	e 18 00	e 18 00	Undecipherable.
5)	e 18 47	e 18 47	Undecipherable.
6)	eP_1 18 57 57.5 eS_1 58 11 Δ = 112 km. (69 mi.)	eP_1 18 58 01.5 eS_1 58 18 Δ = 135 km. (84 mi.)	H = $18^h57^m39^s$ ϕ = 42°.5 N. λ = 69°.9 W.

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

	Weston	Harvard	
1)	iP_1 12 25 12.6 eS_1 25 24.5 Δ = 97 km. (60 mi.)	eP_1 12 25 16.5 eS_1 25 31 Δ = 121 km. (75 mi.)	H = $12^h24^m56^s$ ϕ = 42°.4 N. λ = 70°.1 W.
2)	e 14 46	eS_1 14 46 55	
3)	eP_1 15 46 07	eP_1 15 46 11 eS_1 46 29 Δ = 148 km. (92 mi.)	H = $15^h45^m46^s.5$
4)	iP 16 49 07.5	Undecipherable. ca 200 km. from Weston.	

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

	Weston	Harvard	
5)	eP_2 17 27 24.0 eS_2 27 48 Δ = 143 km. (89 mi.)	eP_1 17 27 29 eS_1 27 49 Δ = 168 km. (104 mi.)	H = $17^h27^m00.^s8$ ϕ = 41.°7 N. λ = 69.°9 W.

Between 17^h32^m and 20^h21^m five undecipherable disturbances recorded at Weston and Harvard.

	Weston	Harvard	
6)	eP_1 21 02 25.7 eS_1 02 37.2 Δ = 94 km. (58 mi.)	eP_1 21 02 29.3 iS_1 02 45.7 Δ = 115 km. (71 mi.)	H = $21^h02^m10.^s2$ ϕ = 42.°3 N. ? λ = 70.°3 W. ?
7)	eP_1 21 20 39.3 eS_1 20 52.2 Δ = 106 km. (66 mi.)	eP_1 21 20 42.8 eS_1 20 58.6 Δ = 129 km. (80 mi.)	H = $21^h20^m21.^s5$ ϕ = 42.°6 N. λ = 70.°0 W.
8)	eP_1 21 36 50.0	eP_1 21 36 54.9 eS_1 37 09.2 Δ = 118 km. (73 mi.)	H = $21^h36^m35.^s3$
9)	eP_1 21 44 14.2	eP_2 21 44 18.5	

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

	Weston	Harvard	
1)	eP_2 12 55 22.4 eS_2 55 39.4 Δ = 143 km. (89 mi.)	eP_2 12 55 25.0 eS_2 55 45.4 Δ = 161 km. (100 mi.)	H = $12^h54^m59.^s2$ ϕ = 42.°7 N λ = 69.°7 W.

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

Weston		Harvard	
2) eP_1 17 56 42.0		eP_2 17 56 45.4	H = $17^h56^m21.^s6$
eS_1 56 58.0		eS_1 57 04.0	ϕ = 42.°3 N.
Δ = 123 km. (76 mi.)		Δ = 148 km. (92 mi.)	λ = 69.°8 W.

Between 18^h40^m and 19^h11^m five undecipherable disturbances recorded at Weston and Harvard.

Weston		Harvard	
3) eP_2 20 14 58.5		eP_1 20 15 04.5	H = $20^h14^m35.^s5$
		eS_2 15 24	
		Δ = 174 km. (108 mi.)	

Weston		Harvard	
4) e 20 22		e 20 22	Undecipherable.

Weston		Harvard	
5) e 20 41		e 20 41	Undecipherable.

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

Weston		Harvard	
1) eP2 09 45 22.8		eP2 09 45 26.3	H = $09^h45^m02.^s0$
eS2 45 38.1		eS2 45 44.1	ϕ = 42.°4 N.
Δ = 126 km. (78 mi.)		Δ = 150 km. (93 mi.)	λ = 69.°8 W.

Weston		Harvard	
2) iP_1 09 50 48.7		eP_2 09 50 52.4	H = $09^h50^m27.^s9$
iS_1 51 04.0		eS_2 51 10.3	ϕ = 42.°4 N.
Δ = 125 km. (78 mi.)		Δ = 151 km. (94 mi.)	λ = 69.°8 W.

Weston		Harvard	
3) eP_2 12 49 02.9		eP_2 12 49 06.5	H = $12^h48^m38.^s5$
eS_2 49 20.9		eS_2 49 26.8	ϕ = 41.°6 N.
Δ = 152 km. (94 mi.)		Δ = 175 km. (109 mi.)	λ = 69.°9 W.

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

Weston		Harvard	
4) eP2	14 06 05.5	eP2 14 06 09.2	H = $14^h05^m42^s.1$
eS1	06 23.7	eS2 06 29.0	φ = 41°.6 N.
Δ = 147 km. (90 mi.)		Δ = 169 km. (105 mi.)	λ = 69°.9 W.
Weston		**Harvard**	
5) eP2	17 39 49.1	eP2 17 39 51.4	H = $17^h39^m18^s.7$
eS2	40 11.2	eS2 40 15.5	φ = 42°.8 N.
Δ = 190 km. (118 mi.)		Δ = 208 km. (129 mi.)	λ = 69°.1 W.
Weston		**Harvard**	
6) eP1	18 03 47.2	eP2 18 03 51.0	H = $18^h03^m28^s.5$
eS1	04 00.8	eS2 04 07.5	φ = 42°.3 N.
Δ = 113 km. (70 mi.)		Δ = 138 km. (86 mi.)	λ = 69°.9 W.
Weston		**Harvard**	
7) iP	18 12 42.7	iP 18 12 43.8	Undecipherable.
Weston		**Harvard**	
8) eP2	21 20 39.1	eP2 21 20 42.3	H = $21^h20^m18^s.5$
eS1	20 54.5	eS1 21 00.9	φ = 42°.7 N.
Δ = 125 km. (78 mi.)		Δ = 147 km. (92 mi.)	λ = 69°.8 W.

*****(August 22)*****

Weston		Harvard	
1) eP1	12 29 07.2	eP2 12 29 11.4	H = $12^h28^m46^s.8$
		eS2 29 29.4	
		Δ = 152 km. (94 mi.)	
Weston		**Harvard**	
2) e	14 45	e 14 45	Undecipherable.
Weston		**Harvard**	
3) e	17 23	e 17 23	Undecipherable.

*****(August 22)*****

Weston

4) eP1 19 04 44
eS1 05 13.3
Δ = 236 km. (147 mi.)

Harvard

eP1 19 04 46.5
eS1 05 18
Δ = 251 km. (155 mi.)

H = 19h04m05.s5
φ = 40.°3 N.
λ = 71.°3 W.

Weston

5) eP1 19 08 12.5
eS1 08 28.3
Δ = 128 km. (80 mi.)

Harvard

eP1 19 08 16.5
eS1 08 34.5
Δ = 152 km. (94 mi.)

H = 19h07m51.s7
φ = 42.°7 N.
λ = 69.°8 W.

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

Weston

1) e 15 50

Harvard

e 15 50

Undeciphorable.

Weston

2) eP1 16 35 39.0
eS1 35 55
Δ = 132 km. (82 mi.)

Harvard

eP2 16 35 42
eS1 36 01.5
Δ = 153 km. (95 mi.)

H = 16h35m17.s5
φ = 42.°5 N.
λ = 69.°7 W.

Weston

3) eP2 16 40 50.8
eS1 41 04
Δ = 108 km. (67 mi.)

Harvard

eP1 16 40 55.5
eS1 41 12
Δ = 135 km. (84 mi.)

H = 16h40m33.s
φ = 41.°8 N.
λ = 70.°3 W.

Weston

4) e 17 15

Harvard

e 17 15

Undecipherable.

Weston

5) eP1 19 28 20.8

Harvard

eP1 19 28 24.5
eS1 28 32
Δ = 63 km. (39 mi.)

H = 19h28m14.s3

Weston

6) e 19 37

Harvard

e 19 37

Undecipherable.

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

	Weston	Harvard	
7)	eP1 20 04 10.3 eS1 04 23.5 Δ = 108 km. (67 mi.)	eP1 20 04 13.2 eS1 04 28.6 Δ = 126 km. (78 mi.)	H = 20h03m52s.3 φ = 41°.5 N. λ = 70°.9 W.
	Weston	Harvard	
8)	e 21 30	e 21 30	Undecipherable.

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

	Weston	Harvard	
1)	e 18 02	e 18 02	Undecipherable

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

	Weston	Harvard	
1)	eP1 15 51 48 eS1 52 01.5 Δ = 110 km. (69 mi.)	eP1 15 51 51 Δ = 131 km. (81 mi.)	H = 15h51m29s.5 φ = 41°.4 N. λ = 70°.9 W.
	Weston	Harvard	
2)	eP1 20 51 40.5 eS1 51 54 Δ = 110 km. (69 mi.)	eP1 20 51 43.5 eS1 51 59.5 Δ = 131 km. (81 mi.)	H = 20h51m22s.2 φ = 41°.4 N. λ = 70°.9 W.

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

	Weston	Harvard	
1)	eP1 14 48 57.5 eS1 49 07.2 Δ = 79 km. (49 mi.)	eP1 14 49 01.5 eS1 49 14 Δ = 103 km. (64 mi.)	H = 14h48m54s.5 φ = 42°.5 N. λ = 70°.3 W.
	Weston	Harvard	
2)	eP1 16 14 58 eS1 15 11.5 Δ = 103 km. (64 mi.)	eP1 16 15 02 eS1 15 17 Δ = 124 km. (77 mi.)	H = 16h14m39s.5 φ = 42°.5 N. λ = 70°.3 W.

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

	Weston	Harvard	
3)	eP_1 17 10 00.5 eS_1 10 13.8	eP_1 17 10 05 eS_2 10 21	H = $17^h09^m42^s.3$ ϕ = 41°.6 N. λ = 70°.5 W.
	Δ = 110 km. (68 mi.)	Δ = 136 km. (84 mi.)	

	Weston	Harvard	
4)	eP_2 18 27 14.0 iS_1 27 32	eP_1 18 27 18.5 eS_1 27 38.5	H = $18^h26^m50^s.5$ ϕ = 41°.8 N. λ = 69°.8 W.
	Δ = 144 km. (89 mi.)	Δ = 167 km. (104 mi.)	

	Weston	Harvard
5)	eP_1 19 05 10.5 eS_1 05 24.0	eP_1 19 05
	Δ = 110 km. (69 mi.)	

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

	Weston	Harvard	
1)	e 14 37	e 14 37	Undecipherable.
2)	e 16 30	e 16 30	Undecipherable.
3)	eP_1 16 40 46.5	eP_1 16 40 50 eS_1 41 06	H = $16^h40^m28^s$ ϕ = 42°.9 N. λ = 70°.1 W.
	Δ = 112 km. (70 mi.)	Δ = 131 km. (81 mi.)	

The above is the second of four disturbances all from the same epicenter, occurring at intervals of approx. 7 seconds.

	Fordham	Weston	Harvard
4)	iP_2 17 57 27.3 eS_2 57 48.5	eP_1 17 57 49.6 eS_1 58 29.5	eP_1 17 57 51.2 eS_2 58 32
	Δ = 182 km. (113 mi.)	Δ = 317 km. (197 mi.)	Δ = 331 km. (202 mi.)
	H = $17^h56^m58^s.1$	ϕ = 39°42' N.	λ = 72°21' W.

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

Fordham	Harvard	Weston
5) eP_1 19 00 45	eP_2 19 00 49	eP_1 19 00 51.5
e 01 04	eS_2 01 09.3	iS_1 01 14.3
Δ = 148 km. (92 mi.)	Δ = 166 km. (103 mi.)	Δ = 180 km. (112 mi.)

H = $19^h00^m22^s$

The above interpretation is only probable; intersection of the arcs is not sufficiently good to afford determination of the epicenter.

Weston	Harvard	
6) eP_1 20 06 17.3	eP_1 20 06 21.6	H = $20^h05^m59^s.3$
eS_1 06 31	eS_1 06 38	ϕ = 41°.5 N.
Δ = 112 km. (70 mi.)	Δ = 134 km. (83 mi.)	λ = 70°.8 W.

Fordham	Weston	Harvard
7) eP_1 23 00 21	ePn 23 00 34	ePn 23 00 35
	eS_1 01 11.5	eS_1 01 14
	Δ = 263 km. (163 mi.)	Δ = 270 km. (168 mi.)
	ϕ = 40°.1 N.	λ = 72°.2 W.

H = $22^h59^m56^s$

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

Weston	Harvard	
1) eP_1 15 00 33	eP_1 15 00 37.2	H = $15^h00^m21^s$
eS_1 00 42	eS_1 00 49	ϕ = 42°.4 N.
Δ = 72 km. (45 mi.)	Δ = 97 km. (60 mi.)	λ = 70°.4 W.

Weston	Harvard	
2) eP_1 18 37 25.0	eP_2 18 37 27.9	H = $18^h37^m05^s.8$
eS_1 37 39.0	eS_1 37 45.0	ϕ = 41°.5 N.
Δ = 114 km. (71 mi.)	Δ = 137 km. (85 mi.)	λ = 70°.7 W.

Weston	Harvard	
3) iP_1 19 07 08.7	iP_1 19 07 12.1	H = $19^h06^m52^s.8$
eS_1 07 20.5	eS_1 07 26.1	ϕ = 42°.7 N.
Δ = 96 km. (60 mi.)	Δ = 114 km. (71 mi.)	λ = 70°.2 W.

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

	Weston	Harvard	
4)	e 20 00	e 20 00	Undecipherable

	Weston	Harvard	
5)	eP_1 20 02 32.2 eS_1 02 42.4 Δ = 83 km. (52 mi.)	eP_1 20 02 35.9 eS_1 02 48.6 Δ = 102 km. (63 mi.)	H = $20^h02^m18^s.4$ ϕ = 42°.7 N. λ = 70°.4 W.

*****(August 29)*****

	Weston	Harvard	
1)	iP_1 13 50 33.6 eS_1 50 45.7 Δ = 99 km. (61 mi.)	eP_1 13 50 36.2 eS_1 50 49.8 Δ = 111 km. (69 mi.)	H = $13^h50^m17^s.3$ ϕ = 42°.9 N. λ = 70°.3 W.

	Weston	Harvard	
2)	e 14 12	e 14 12	Undecipherable

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

	Weston	Harvard	
1)	eP_2 14 59 42.8 eS_1 59 58.6 Δ = 127 km. (79 mi.)	eP_2 14 59 45.3 eS_1 15 00 03.6 Δ = 145 km. (90 mi.)	H = $14^h59^m21^s.8$ ϕ = 42°.9 N. λ = 69°.9 W.

	Weston	Harvard	
2)	e 18 07	e 18 07	Undecipherable.

	Weston	Harvard	
3)	iP_1 20 16 56.1 iS_1 17 00 Δ = 32 km. (20 mi.)	eP_1 20 16 59.9 eS_1 17 06.4 Δ = 53 km. (33 mi.)	H = $20^h16^m50^s.6$

D. Linehan, S.J.
E.R. Powers, S.J.

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*****(September 1)*****

Harvard		Weston		
1) eP_1	18 04 30.5	eP_1	18 04 35.0	H = $18^h04^m18^s.7$
eS_1	04 39.2	iS_1	04 46.8	
Δ = 71 km. (44 mi.)		Δ = 97 km. (60 mi.)		

Between 14^h26^m and 20^h10^m five undecipherable short period disturbances recorded at Weston and Harvard.

*****(September 2)*****

Fordham		Weston	Harvard	
1) iP_1	00 22 27.0	eP_1 00 23 04	eP_1	00 23 04.5
iS_1	22 40.3		eS_2	23 39
i	22 42.5	Δ = 332 km. (206 mi.)	eS_1	23 46.5
Δ = 105 km. (65 mi.)			Δ = 335 km. 208 mi.)	
H = $00^h22^m10^s$		φ = 39°.9 N.	λ = 73°.5 W.	

*****(September 4)*****

Weston		Harvard		
1) e	15 57	e 15 57	Undecipherable.	
Weston		Harvard		
2) e	18 46	e 18 46	Undecipherable.	
Weston		Harvard		
3) eP_1	19 03 26.2	eP_1 19 03 29	H = $19^h03^m08^s$	
eS_1	03 39.5	eS_1 03 44.8	φ = 41°.4 N.	
Δ = 109 km. (68 mi.)		Δ = 128 km. (79 mi.)	λ = 71°.1 W.	
Weston		Harvard		
4) e	21 33	e 21 33	Undecipherable.	

*****(September 5)*****

Woston

1) o 14 37

Harvard

o 14 37

Undociphorable.

Fordham

2) oP_1 19 25 28.5
oS_1 25 37.5

Δ = 70 km. (43 mi.)
H = $19^h25^m17^s$

Woston

oP_3 19 26 01.7
oS_2 26 40

Δ = 286 km. (178 mi.)
φ = 40°.3 N.
λ = 73°.4 W.

Harvard

oP_n 19 25 58.5
oP_1 26 04

Δ = ca. 292 km. (181 mi.)

Fordham

3) oP_1 19 33 16

Woston

oP_1 19 33 34

*****(September 6)*****

Woston

1) oP_1 12 47 02.8
oS_1 47 17.7

Δ = 123 km. (76 mi.)

Harvard

oP_2 12 47 05.5
oS_1 47 23

Δ = 140 km. (87 mi.)

H = $12^h46^m42^s.4$
φ = 41°.3 N.
λ = 71°.2 W.

Woston

2) oP_1 12 50 22.5
oS_1 50 37

Δ = 120 km. (74 mi.)

Harvard

oP_1 12 50 26
oS_1 50 43.5

Δ = 143 km. (89 mi.)

H = $12^h50^m02^s.6$
φ = 41°.3 N.
λ = 71°.2 W.

Woston

3) oP_1 17 12 13.7
oS_1 12 24

Δ = 89 km. (55 mi.)

Harvard

oP_1 17 12 17.5
oS_1 12 31

Δ = 111 km. (69 mi.)

H = $17^h11^m59^s$
φ = 42°.4 N.
λ = 70°.2 W.

Woston

4) oP_1 18 26 30.3
oS_1 26 41

Δ = 85 km. (53 mi.)

Harvard

oP_1 18 26 35
oS_1 26 48.5

Δ = 111 km. (69 mi.)

H = $18^h23^m16^s.5$
φ = 42°.0 N.
λ = 70°.4 W.

*****(September 6)*****

	Weston	Harvard	
5)	eP_1 20 25 21 eS_1 25 28	eP_1 20 25 21.5 eS_1 25 29	H = $20^h25^m11^s.5$
	Δ = 57 km. (35 mi.)	Δ = 61 km. (38 mi.)	

*****(September 7)*****

	Weston	Harvard	
1)	eP_2 15 28 44.7 eS_2 29 02.5	eS_1 15 29 05.8 ?	H = $15^h28^m21^s.3$
	Δ = 145 km. (90 mi.)		
2)	Weston	Harvard	
	e 16 46	e 16 46	Undecipherable.
	Weston	Harvard	
3)	eP_1 18 51 33.5 eS_1 51 45.7	eP_1 18 51 36.5 eS_1 51 50.8	H = $18^h51^m16^s.8$ ϕ = 42°.8 N. λ = 70°.2 W.
	Δ = 100 km. (62 mi.)	Δ = 118 km. (73 mi.)	
	Weston	Harvard	
4)	eP_2 19 06 54.0 eS_2 07 10.0	eP_2 19 06 55.4 eS_1 07 13.3	H = $19^h06^m32^s.3$ ϕ = 43°.2 N. λ = 70°.1 W.
	Δ = 133 km. (83 mi.)	Δ = 143 km. (89 mi.)	

*****(September 8)*****

	Weston	Harvard	
1)	e 13 59	e 13 59	Undecipherable.
	Ottawa		
2)	P_2 15 13 49 S_n 14 11 S_2 14 12.5	H = $15^h13^m15^s$ Δ = 205 km. (127 mi.)	

*****(September 8)*****

Woston		Harvard	
3) oP 17 08 43		oP 17 08 44	Caribbean Quake.
oS 12 44		oS 12 50	
Δ = 22°.5		Δ = 23°.1	

*****(September 9)*****

Woston		Harvard	
1) oP_2 11 59 46.1		oP_1 11 59 50.4	H = $11^h59^m23^s.5$
iS_1^2 12 00 03.4		oS_2^1 12 00 08.8	φ = 41°.7 N.
			λ = 69°.9 W.
Δ = 139 km. (86 mi.)		Δ = 163 km. (101 mi.)	
Woston			
2) oP_2 12 25 38.1	H = $12^h25^m16^s.1$		
oS_2 25 53.5	Δ = 128 km. (79 mi.)		
Woston		Harvard	
3) iP_1 14 58 58.8		iP_1 14 59 02.7	H = $14^h58^m45^s.7$
iS_1 59 08.6		oS_1 59 15.0	φ = 42°.7 N.
			λ = 70°.4 W.
Δ = 80 km. (50 mi.)		Δ = 101 km. (62 mi.)	
Woston		Harvard	
4) oP_1 17 38 16.4		oP_1 17 38 20.7	H = $17^h37^m57^s.9$
oS_1 38 30.0		oS_1 38 37.5	φ = 41°.6 N.
			λ = 70°.5 W.
Δ = 111 km. (69 mi.)		Δ = 137 km. (85 mi.)	
Woston		Harvard	
5) oP_2 17 48 55.3		oP_1 17 48 59	H = $17^h48^m34^s.5$
oS_2 49 10.8		oS_1 49 18	φ = 42°.3 N.
			λ = 69°.7 W.
Δ = 126 km. (78 mi.)		Δ = 151 km. (94 mi.)	
Woston		Harvard	
6) iP_1 21 05 03.0		iP_1 21 05 07	H = $21^h04^m43^s.6$
iS_1 05 17.0		iS_1 05 24	φ = 42°.2 N.
			λ = 69°.9 W.
Δ = 115 km. (71 mi.)		Δ = 140 km. (87 mi.)	

*****(September 10)*****

Weston	Harvard	
1) eP_2 13 15 49.0 eS_2 16 05.0 Δ = 133 km. (83 mi.)	eP_1 13 15 53.5 eS_1 16 12.4 Δ = 157 km. (97 mi.)	H = $13^h15^m27.^s3$ ϕ = 42°.6 N. λ = 69°.7 W.
Weston	Harvard	
2) eP 16 33 29.8	eP_n 16 33 34.5 eS_n 34 02.2 Δ = 255 km. (158 mi.)	H = $16^h32^m57.^s2$
Weston	Harvard	
3) eP_1 17 58 55.2 eS_1 59 08.5 Δ = 109 km. (67 mi.)	eP_1 17 58 57.2 eS_1 59 12.5 Δ = 125 km. (78 mi.)	H = $17^h58^m37.^s3$ ϕ = 41°.4 N. λ = 71°.1 W.
Weston	Harvard	
4) eP_1 18 07 25.7 eS_1 07 40.7 Δ = 123 km. (76 mi.)	eP_2 18 07 28.3 eS_1 07 45.8 Δ = 139 km. (86 mi.)	H = $18^h07^m05.^s4$ ϕ = 41°.3 N. λ = 71°.2 W.
Weston	Harvard	
5) e 22 36 16.1	e 22 36 20.6	Undecipherable.

*****(September 11)*****

Weston	Harvard	
1) eP_1 13 52 39.3 eS_1 52 55.8 Δ = 135 km. (84 mi.)	eP_1 13 52 44 eS_1 53 03 Δ = 155 km. (96 mi.)	H = $13^h51^m18^s$
Weston	Harvard	
2) e 14 23	e 14 23	Undecipherable.
Weston	Harvard	
3) e 14 27	e 14 27	Undecipherable.

*****(September 11)*****

Weston		Harvard		
4) eP_1	15 00 55	eP_2	15 00 58	H = $15^h00^m32^s.5$
eS_1	01 11.5	eS_2	01 16.5	
Δ = 135 km. (84 mi.)		Δ = 158 km. (98 mi.)		

Weston		Harvard		
5) iP_1	18 33 17.3	eP_1	18 33 21	H = $18^h33^m01^s.3$
eS_1	33 29	eS_1	33 35.5	
Δ = 96 km. (59 mi.)		Δ = 119 km. (74 mi.)		

Weston		Harvard		
6) eP_1	19 42 36.3	eP_1	19 42 41	H = $19^h42^m26^s$
eS_1	42 43.8	eS_1	42 51.5	
Δ = 61 km. (38 mi.)		Δ = 86 km. (53 mi.)		

*****(September 12)*****

Weston		Harvard		
1) eP_1	13 45 19.0	eP_1	13 45 23	H = $13^h45^m00^s.3$
eS_1	45 32.7	eS_1	45 39.5	φ = 42°.7 N.
Δ = 112 km. (70 mi.)		Δ = 135 km. (84 mi.)		λ = 70°.0 W.

Weston		Harvard		
2) eP_1	18 13 00.4	eP_2	18 13 04.5	H = $18^h12^m45^s$
iS_1	13 13.0	eS_2	13 20	
Δ = 103 km. (64 mi.)		Δ = 130 km. (81 mi.)		

*****(September 13)*****

Weston		Harvard		
1) eP_1	16 33 50	eP_2	16 33 52	H = $16^h33^m27^s.5$
eS_1	34 06.5	eS_2	34 10	φ = 41°.2 N.
Δ = 135 km. (84 mi.)		Δ = 152 km. (94 mi.)		λ = 71°.2 W.

Weston		Harvard		
2) e	16 46	e	16 46	Undecipherable.

*****(September 13)*****

	Weston	Harvard	
3)	e 18 00	e 18 00	Undociphorable.
	Weston	**Harvard**	
4)	eP_1 18 51 22.3 oS_1 51 34	oP_1 18 51 25.5 oS_1 51 39.5	H = $18^h51^m06^s.5$ ϕ = 42°.6 N. λ = 70°.2 W.
	Δ = 96 km. (59 mi.)	Δ = 114 km. (71 mi.)	
	Weston	**Harvard**	
5)	oP 21 04 28.4	oP 21 04 31.5	Undociphorable.
	Weston	**Harvard**	
6)	oP_1 21 23 00.5 oS_1 23 14.8	oP_2 21 23 03 oS_1 23 20	H = $21^h22^m41^s$
	Δ = 117 km. (73 mi.)	Δ = 136 km. (84 mi.)	

*****(September 14)*****

	Weston	Harvard	
1)	oP_1 12 46 16.3 oS_1 46 31.5	oP_2 12 46 19.5 oS_1 46 38	H = $12^h45^m55^s.5$ ϕ = 42°.4 N. λ = 69°.8 W.
	Δ = 125 km. (78 mi.)	Δ = 149 km. (92 mi.)	
	Weston	**Harvard**	
2)	iP_1 19 07 45.0 iS_1 07 57.3	eP_1 19 07 49 eS_1 08 04	H = $19^h07^m28^s$ ϕ = 42°.4 N. λ = 70°.1 W.
	Δ = 101 km. (63 mi.)	Δ = 126 km. (78 mi.)	
	Weston	**Harvard**	
3)	eP_1 20 17 12.3 eS_1 17 24.5	eP_1 20 17 14 eS_1 17 28	H = $20^h16^m55^s$
	Δ = 103 km. (64 mi.)	Δ = 114 km. (71 mi.)	

D. Linehan, S.J.
E.R. Powers, S.J.

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*****(September 16)*****

Weston		Harvard		
1)	iP_1 13 52 00.4	eP_1 13 52 03.5		H = 13 51 42.5
	iS_1 52 13.0	eS_1 52 18.5		ϕ = 42°.6 N.
	Δ = 105 km. (65 mi.)	Δ = 125 km. (78 mi.)		λ = 70°.0 W.
	Weston	**Harvard**		
2)	eP_1 16 27 35.5	eP_1 16 27 40		H = 16 27 16.5
	eS_1 27 49.5	eS_1 27 57		
	Δ = 114 km. (71 mi.)	Δ = 140 km. (87 mi.)		
	Weston	**Harvard**		
3)	eP 18 44 58.7	e 18 44		Undecipherable.

*****(September 17)*****

Weston		Harvard		
1)	eP_1 12 34 50.0	eP_1 12 34 55		H = 12 34 27
	eS_1 35 07.7	eS_1 35 15		ϕ = 42°.2 N.
	Δ = 145 km. (90 mi.)	Δ = 167 km. (104 mi.)		λ = 69.6 W.
	Weston	**Harvard**		
2)	e 15 12	e 15 12		Undecipherable.
	Weston	**Harvard**		
3)	eP_1 15 29 29	eP_1 15 29 32.5		H = 15 29 14
	eS_1 29 40	eS_1 29 46		ϕ = 42°.5 N.
	Δ = 90 km. (56 mi.)	Δ = 110 km. (69 mi.)		λ = 72°.2 W.

*****(September 17)***** (Continued)

Weston

4) eP_1 15 55 27.2
eS_1 55 34.9
Δ = 63 km. (39 mi.)

Harvard

eP_1 15 55 32
eS_1 55 42.5
Δ = 86 km. (53 mi.)

H = 15 55 17.5

Weston

5) e 17 50

Harvard

e 17 50

Undecipherable.

Weston

6) eP_1 18 55 11.5
eS_1 55 25.5
Δ = 114 km. (71 mi.)

Harvard

eP_1 18 55 13
eS_1 55 28.5
Δ = 127 km. (79 mi.)

H = 18 54 52
φ = 41°.4 N.
λ = 71°.5 W.

Weston

7) e 19 14

Harvard

e 19 14

Undecipherable

Weston

8) eP_1 19 27 58
eS_1 28 13
Δ = 123 km. (76 mi.)

Harvard

eP_2 19 28 01
eS_2 28 18.5
Δ = 146 km. (91 mi.)

H = 19 27 47.5
φ = 41°.4 N.
λ = 70°.6 W.

Weston

9) eP_1 19 37 08.5
eS_1 37 20.8
Δ = 101 km. (62 mi.)

Harvard

eP_1 19 37 12.5
eS_1 37 28
Δ = 127 km. (79 mi.)

H = 19 36 51.5

Weston

10) e 19 47

Harvard

e 19 47

Undecipherable.

Weston

11) e 20 15

Harvard

e 20 15

Undecipherable.

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*****(September 17)***** (Continued)

Weston		Harvard	
12)	eP_2 22 28 57	eP_2 22 28 56 eS 29 16.5	

*****(September 18)*****

Weston		Harvard	
1)	eP_1 19 33 05.5 eS_1 33 21 Δ = 127 km. (79 mi.)	eP_2 19 33 09 eS_1 33 28 Δ = 153 km. (95 mi.)	H = 19 32 44.3

Weston		Harvard	
2)	eP_1 20 26 06.5 eS_1 26 23.5 Δ = 139 km. (86 mi.)	eP_2 20 26 10.5 eS_2 26 29.5 Δ = 162 km. (101 mi.)	H = 20 25 44.5 φ = 42°.3 N. λ = 69°.7 W.

*****(September 19)*****

Weston		Harvard	
1)	e 18 18	e 18 18	Undecipherable.

Weston		Harvard	
2)	iP_2 20 51 21 iS_2 51 39.3 Δ = 159 km. (99 mi.)	eP_2 20 51 24 eS_2 51 45 Δ = 179 km. (111 mi.)	H = 20 50 55.5 φ = 41°.1 N. λ = 70°.6 W.

*****(September 20)*****

Between 14^h46^m and 18^h several undecipherable short period disturbances recorded at Weston and Harvard.

Harvard		Weston	
1)	iP_1 18 31 52 eS_1 32 04.5 Δ = 102 km. (63 mi.)	iP_1 18 31 54 eS_1 32 08 Δ = 114 km. (71 mi.)	H = 18 31 35

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*****(September 21)*****

Weston

1) eP_1 15 44 41
eS_1 44 59
Δ = 147 km. (91 mi.)

Harvard

eP_1 15 44 42
eS_1 45 00
Δ = 152 km. (94 mi.)

I = 15 44 17.5

Weston

2) iP_1 18 47 38.8
eS_1 47 45.1
Δ = 51 km. (32 mi.)

Harvard

eP_1 18 47 41.3
eS_1 47 49.5
Δ = 67 km. (42 mi.)

I = 18 47 30.3
φ = 42°.7
λ = 70°.7 W.

Weston

3) eP_1 20 47 14.5
eS_1 47 22.7
Δ = 67 km. (42 mi.)

Harvard

eP_1 20 47 17.7
eS_1 47 28.2
Δ = 86 km. (53 mi.)

I = 20 47 03.1
φ = 42°.6 N.
λ = 70°.5 W.

*****(September 23)*****

Weston

1) iP_1 16 48 32.0
iS_1 48 43.3
Δ = 92 km. (57 mi.)

Harvard

iP_1 16 48 35.5
iS_1 48 49.5
Δ = 114 km. (71 mi.)

H = 16 48 16.3

Weston

2) iP_1 16 55 01.2
iS_1 55 13.7
Δ = 102 km. (63 mi.)

Harvard

eP_2 16 55 05.0
iS_2 55 20.3
Δ = 127 km. (79 mi.)

H = 16 54 44.2

*****(September 24)*****

Weston

1) eP_1 15 14 33.8
eS_1 14 42.5
Δ = 71 km. (44 mi.)

Weston

2) eP 15 39 12.7

Weston

3) eP_1 15 56 52.5
eS_1 57 03.3
Δ = 88 km. (55 mi.)

Weston

4) eP_1 17 56 42.0
e 57 04.8

Weston

5) eP_1 19 22 44.7
eS_1 22 58.3
Δ = 111 km. (69 mi.)

Weston

6) iP_1 22 32 46.9
eS_1 32 56.8
Δ = 81 km. (50 mi.)

*****(September 25)*****

Weston		Harvard		
1) iP_1	13 53 46.6	eP_1	13 53 50.6	H = 13 53 29.2
eS_1	53 59.2	eS_2	54 05.8	
Δ = 103 km. (64 mi.)		Δ = 128 km. (79 mi.)		

Weston		Harvard		
2) eP_1	18 37 50.4	eP_1	18 37 54.6	H = 18 37 30.6
eS_1	38 05.0	eS_1	38 12.0	
Δ = 119 km. (74 mi.)		Δ = 141 km. (88 mi.)		

*****(September 27)*****

Weston		Harvard		
1) eP_1	15 01 28.3	eP_1	15 01 32.2	H = 15 01 04.3
eS_1	01 47.1	eS_1	01 52.5	
Δ = 149 km. (92 mi.)		Δ = 173 km. (107 mi.)		

*****(September 28)*****

Fordham		Harvard	
1) iP_2	00 22 04	2) eP_1	14 20 06.5
iS_2	22 28	eS_1	20 20.3
Δ = 210 km. (130 mi.)		Δ = 113 km. (70 mi.)	

Weston		Harvard		
3) eP_1	14 40 09.8	eP_1	14 40 12.0	H = 14 39 59.1
eS_1	40 17.6	eS_1	40 21.5	
Δ = 64 km. (40 mi.)		Δ = 78 km. (48 mi.)		

Ottawa

4) P_2 16 32 20 Undecipherable at Harvard and Weston.
S_2 32 32.5
Δ = 105 km. (65 mi.)

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*****(September 28)***** (Continued)

	Weston	Harvard	
5)	eP$_2$ 19 23 22.5	eP$_2$ 19 23 24.0	E = 19 23 01
	iS$_1$ 23 38.5	iS$_1$ 23 41.0	
	Δ = 129 km. (80 mi.)	Δ = 135 km. (84 mi.)	

	Weston	Harvard	
6)	eP$_2$ 20 18 54.6	eP$_2$ 20 18 55.2	E = 20 18 32.8
	eS$_2$ 19 10.5	eS$_2$ 19 12.5	
	Δ = 132 km. (82 mi.)	Δ = 143 km. (89 mi.)	

*****(September 30)*****

	Weston	Harvard	
1)	eP 13 38 23.5	eP 13 38 25.2	E = 13 38 03.1
	eS 38 38.5	eS 38 42.0	
	Δ = 123 km. (76 mi.)	Δ = 137 km. (85 mi.)	

E. R. Powers, S.J.

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NOTICE:

Beginning with Bulletin No. 127 (October, 1943) those disturbances known or believed to be submarine disturbances connected with military operations will be omitted. The reason for doing this is to save paper and not fill this bulletin with disturbances which affect only a few stations.

Caribbean disturbances will be included as they may frequently be confused with local disturbances. Quarry blasts and Rockbursts will also be included with local quakes, as these are part of the study of this Association.

****

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

Weston

iP_1	19	54	55	
iS_1		55	04	dist. = 73 km. (45 mi.)

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

Weston

eP	12	37	27	
iS		41	17	dist. = 21° Caribbean Quake !
eT		59	53	

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

Weston

iS	22	46	40	

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

Weston

iP	22	32	50	
eS		36	40	
eT		55	00	dist. = 21° Caribbean Quake !

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

Weston

iP_1 06 34 04
iS_1 34 15 dist. = 89 km. (55 mi.)

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

Weston

eP 05 20 55
eS 24 45 dist. = 21° Caribbean Quake !

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

Ottawa		Weston	
iP_1	23 00 27.5	eS	23 01 35
iS_1	00 47		

dist. = 165 km. (102 mi.)

Daniel Linehan, S.J.
Seismologist.

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*****(October 16)*****

Weston

eP 10 06 42
iS 10 36
eT 27 10 dist. = 21°6 Caribbean Quake !

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

Weston

eP 10 36 14
eS 40 05 dist. = 21° Caribbean Quake !

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

Ottawa		Weston	
P_3	16 18 44	eS_1? 16 21 55	Rockburst at Lake Shore Mines, Kirkland Lake.
P_2	18 54		
S_3	19 31		
S_2	19 41		

dist. = 450 km. (279 mi.)

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

Fordham		Weston		
iP_1	15 29 28	iP_2	15 29 38	H = 15 29 11
iS_1	29 41	iS_2	29 58	Quarry Blast near New Haven, Conn. ?

dist. = 105 km. (65 mi.) Δ = 170 km. (105 mi.)

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

Fordham

iP_2 18 22 30
iS_2 22 55.5 dist. = 192 km. (119 mi.)

Daniel Linehan, S.J.
Seismologist.

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

Weston

P_1 17 11 56
S_1 12 08 dist. = 97 km. (60 mi.)

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

Seven Falls	Shawinigan Falls	Ottawn
iP_1 00 06 51	e 00 07 42	e 00 08 38
iS_1 06 59		e 08 56
dist. = 70 km. (43 mi.)	Weston	
	eS_1? 00 09 22	

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

Weston

iP 20 56 19
eS 21 00 08
eT 18 45 dist. = 20°9 Caribbean Quake !

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

Fordham	Weston
iP_2 21 38 23	eP ? 21 39 03
iS_2 38 46	eS ? 39 43
dist. = 197 km. (122 mi.)	eS_1 39 55

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

Weston

iP_1 07 11 46
iS_1 11 55 dist. = 73 km. (45 mi.)

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

Fordham	Weston
iP_2 21 41 23	eS_1 21 42 56
iS_2 41 47	

dist. = 206 km. (128 mi.)

Daniel Linehan, S.J.
Seismologist.

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

Weston

ePn 21 38 37
eS 42 28 dist. = 21°2 Caribbean Quake !

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

Weston

Several short period disturbances around 18 hours to 22 hours. Phases are indistinct but do not have submarine characteristics.

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

Weston

iP1 16 46 01
iS1 46 13 dist. = 97 km. (60 mi.)

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

Saskatoon

e 20 45 01
e 45 04 local ?

*****(November 28)*****

Weston

iS1 13 42 20

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*****(December 4)*****

Weston

iP$_1$ 13 47 57
iS$_1$ 48 10 dist. = 105 km. (65 mi.)

*****(December 6)*****

Ottawa

P$_n$ 07 20 19
P$_1$ 20 24
S$_n$ 20 49
S$_2$ 20 53
dist. = 265 km. (165 mi.)

Shawinigan Falls

e 07 20 38

Weston

e 07 22 19

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

Weston

iP 03 53 24
eS 57 44 dist. = 24°.7 Caribbean Quake !

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

Weston

iP$_1$ 09 26 51
iS$_1$ 27 26 dist. = 280 km. (175 mi.)

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

Weston

During 16 hours and 17 hours a series of short period disturbances. These are not of submarine or Caribbean character.

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

Fordham

i 14 08 17

Weston

i 14 09 09
iS 09 35 disturbed by microseisms.

Daniel Linehan, S.J.
Seismologist

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

Weston

iP_2 09 01 22.2
iS_3 01 48.1
iS_2 01 50
iS_1 01 55
dist. = 245 km. (152 mi.)
H = 09 00 43.7

Intensity III-IV (R-For) near Waterville, Maine. This datum obtained through 127 cards sent out courtesy of the U.S.C.G.S.

Weston's distance comes within 20 miles at nearest point to Waterville.

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

Weston

Several shocks in the Gulf of Venezuela present characteristics similar to Caribbean shocks.

*****(December 24)*****

Fordham		Weston		
iP_2	17 39 04	iP_1	17 40 19	Doubtful if these
iS_2	39 23	iS_1	40 32	are same shock.
dist. = 160 km. (99 mi.)		dist. = 105 km. (65 mi.)		

Daniel Linehan, S.J.
Seismologist.