CANADA

# SEISMOLOGICAL STATION, DOMINION OBSERVATORY
## OTTAWA

International Seismological Centre

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$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. $h = 83$ m.

Foundation: boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight. Time correction: within 0·25s.

## AUXILIARY STATIONS

### SASKATOON

$\varphi = 52° 08'$ N. $\lambda = 106° 38'$ W. $h = 515$ m.

Foundation: clay and sand. Time correction: from manually recorded radio time signals.

### HALIFAX

$\varphi = 44° 38'$ N. $\lambda = 63° 36'$ W. $h = 46$ m.

Foundation: carbonaceous slate. Time correction: from hourly recorded railroad time service.

### SHAWINIGAN FALLS

$\varphi = 46° 33'{\cdot}1$ N. $\lambda = 72° 45'{\cdot}8$ W. $h = 60$ m. *ca.*

Foundation: solid granite of Canadian Shield. Time correction: from automatically recorded radio time signals.

### SEVEN FALLS

$\varphi = 47° 07'{\cdot}4$ N. $\lambda = 70° 49'{\cdot}6$ W. $h = 232$ m. *ca.*

Foundation: solid granite of Canadian Shield. Time correction: from automatically recorded radio time signals.

## INSTRUMENTS—FIXED CONSTANTS

| STATION | INSTRUMENT | SYMBOL | REGISTRATION | DAMPING | PAPER SPEED | MASS |
|---|---|---|---|---|---|---|
| Ottawa | Bosch | I | Photographic | Air | 15 mm. per min. | 200 g. |
| Ottawa | Bosch | II | Photographic | Magnetic | 15 mm. per min. | 200 g. |
| Ottawa | Milne-Shaw | 17 | Photographic | Magnetic | 15 mm. per min. | 1 lb. |
| Ottawa | Milne-Shaw | 23 | Photographic | Magnetic | 15 mm. per min. | 1 lb. |
| Ottawa | Spindler-Hoyer | W | Smoked Sheet | Air | 15 mm. per min. | 80 kg. |
| Halifax | Mainka | HN | Smoked Sheet | Air | 15 mm per min. | 139 kg. |
| Halifax | Mainka | HE | Smoked Sheet | Air | 15 mm. per min. | 139 kg. |
| Saskatoon | Mainka | SN | Smoked Sheet | Air | 15 mm. per min. | 139 kg. |
| Saskatoon | Mainka | SE | Smoked Sheet | Air | 15 mm. per min. | 139 kg. |
| Shawinigan Falls | Wood-Anderson | SA | Photographic | Magnetic | 60 mm. per min. | 15 g. |
| Seven Falls | Wood-Anderson | SF | Photographic | Magnetic | 60 mm. per min. | 15 g. |
| Seven Falls | Milne-Shaw | SM | Photographic | Magnetic | 6 mm. per min. | 1 lb. |

## INSTRUMENTS—DETERMINED CONSTANTS

| INSTRUMENT | $T_0$ | $r/T_0^2$ | $V$ | $\epsilon$ | COMP. | DISPLACEMENT FOR 1″ ARC TILT |
|---|---|---|---|---|---|---|
| I | 5.1 | | 120 | 2:1 | NS | |
| II | 6.0 | | 120 | 12:1 | EW | |
| 17 | 12.0 | | 250 | 20:1 | EW | 44 mm. |
| 23 | 12.0 | | 250 | 20:1 | NS | 44 mm. |
| W | 5.3 | | 160 | 10:1 | Z | |
| HN | 10.3 | | 92 | Aper. | NS | |
| HE | 9.4 | | 155 | " | EW | |
| SN | 9.0 | | 61 | " | NS | |
| SE | 9.0 | | 56 | " | EW | |
| SA | 0.9 | | 2000 | | NS | |
| SF | 1.0 | | 1800 | | EW | |
| SM | 12.0 | | 250 | 20:1 | EW | 44 mm. |

DOM. OBS. No. 67

Reqn. No. 7329

International Seismological Centre

OTTAWA, CANADA

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## AUXILIARY STATIONS

### Toronto

$\phi$ = 43°40' N. $\lambda$ = 79°24' W. h = 111 m.

Foundation: sand and clay

Instruments: Milne-Shaw, NS. and EW. components, photographic recording, paper speed of 8 mm. per min., mass 1 lb., period 12 secs., magnetic damping 20:1, and magnification 150 fold.

### Victoria

$\phi$ = 48°25' N. $\lambda$ = 123°19' W. h = 68 m.

Foundation: rock

Instruments: Milne-Shaw, NS. and EW. components, photographic recording, paper speed of 8 mm. per min., mass 1 lb., period 12 secs., magnetic damping 20:1, and magnification 250 fold.

Wiechert Vertical not operating.

OTTAWA, CANADA
SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM January 1, 1937 to January 7, 1937 No. 1

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 7 Jan. 7 | e | 6 35 40 | | | |
| | eL | 6 48 | | | |
| | F | 7 28 | | | |
| | | Victoria | | | |
| | e | 6 31 18 | | | |
| | eL | 6 39 | | | |
| | F | 8 03 | | | |
| | | Ottawa | | | |
| 9 Jan. 7 | H | 13 21ca | | 10,200ca | USCGS. gives:- |
| | PP | 13 37.5 | | | ϕ = 35°.5 N. |
| | e | 13 45 08 | | | λ = 97°.5 E. |
| | PS | 13 45 52 | | | |
| | LE | 14 00 | | | JSA. gives:- |
| | F | 17 17 | | | ϕ = 36°.1 N. |
| | | Toronto | | | λ = 98°.6 E. |
| | e | 13 38.8 | | 10,200ca | |
| | ScPcS | 13 45 17 | | | |
| | PS | 13 47 36 | | | |
| | eL | 14 09 | | | |
| | F | 17 00 | | | |
| | | Victoria | | | |
| | H | 13 21.1 | | 9,400 | |
| | P | 13 33 38 | | | |
| | PP | 13 36 59 | | | |
| | S | 13 44 07 | | | |
| | SS | 13 50.0 | | | |
| | eL | 13 58 | | | |
| | F | 18 40 | | | |
| | | Saskatoon | | | |
| | H | 13 21.1 | | 9,780 | |
| | P | 13 33 51 | | | |
| | S | 13 44 36 | | | |
| | L | 13 59 | | | |
| | F | 15 07 | | | |
| | | Shawinigan | | | |
| | H | 13 21.2 | | 10,200ca | |
| | P | 13 34 16 | | | |
| | PPP | 13 39 39 | | | |
| | ScPcPcS | 13 44 59 | | | |
| | eL | 14 05 | | | |
| | F | 15 37 | | | |
| | | Seven Falls | | | |
| | P | 13 34 41 | | 10,300ca | |
| | PP | 13 38.5 | | | |
| | ScPcPcS | 13 45 32 | | | |
| | SS | 13 52 07 | | | |
| | SSS | 13 55 38 | | | |
| | eL | 14 05 | | | |
| | F | 17 42 | | | |

OTTAWA, CANADA
SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM January 7, 1937 to January 23, 1937 No. 2

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 11 | e | 13 28.4 | | | |
| Jan. | e | 13 34 | | | |
| 11 | eL | 13 37 | | | |
| | F | 13 57 | | | |
| | | Toronto | | | |
| | $e_E$ | 13 31.7 | | | |
| | $e_N$ | 13 33 | | | |
| | eL | 13 36 | | | |
| | F | 13 57 | | | |
| | | Victoria | | | |
| | e | 13 34 50 | | | |
| | e | 13 38 43 | | | |
| | eL | 13 43 | | | |
| | F | 14 05 | | | |
| | | Seven Falls | | | |
| | i | 13 29 35 | | | |
| | eL | 13 35 | | | |
| | F | 14 29 | | | |
| | | Ottawa | | | |
| 15 | $e_E$ | 22 33 | | | |
| Jan. | eL | 22 37 | | | |
| 19 | F | 23 23 | | | |
| | | Victoria | | | |
| | e | 22 29.5 | | | |
| | eL | 22 32 | | | |
| | F | 23 30 | | | |
| | | Ottawa | | | |
| 17 | H | 10 56ca | | 11,600ca | |
| Jan. | $e_E$ | 11 14.3 | | | |
| 23 | PPP | 11 16.3 | | | |
| | S | 11 21.4 | | | |
| | SSS | 11 32 40 | | | |
| | eL | 11 46 | | | |
| | F | 13 22 | | | |
| | | Toronto | | | |
| | $e_E$ | 11 16.6 | | | |
| | e | 11 21.6 | | | |
| | e | 11 32 24 | | | |
| | $e_E$ | 11 37.3 | | | |
| | eL | 11 46 | | | |
| | F | 13 22 | | | |
| | | Victoria | | | |
| | H | 10 55.5 | | 10,620 | |
| | P | 11 08 52 | | | |
| | PP | 11 12 41 | | | |
| | $\overline{S_cP_cS}$ | 11 19 15 | | | |
| | $S_N$ | 11 20 12 | | | |
| | eL | 11 37 | | | |
| | F | 14 02 | | | |

OTTAWA, CANADA
SEISMOLOGICAL STATION, DOMINION OBSERVATORY

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FROM January 23, 1937 to January 31, 1937 No. 3

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Seven Falls | | | |
| 17 Jan. 23 (Cont'd) | e | 11 17.9 | | | |
| | e | 11 23.4 | | | |
| | e | 11 26.2 | | | |
| | e | 11 33.1 | | | |
| | eL | 11 45 | | | |
| | F | 13 47 | | | |
| | | Saskatoon | | | |
| | e | 11 13.7 | | | |
| | e | 11 28 | | | |
| | eL | 11 42 | | | |
| | F | 12 21 | | | |
| | | Ottawa | | | |
| 18 Jan. 25 | H | 6 34ca | | 13,300ca | USCGS. gives:- |
| | PP | 6 54.3 | | | ϕ = 12° S. |
| | ScPcS | 6 59.8 | | | λ = 164° E. |
| | PS | 7 04 | | | |
| | SS | 7 10.4 | | | JSA. gives:- |
| | eL | 7 24 | | | ϕ = 10°.6 S. |
| | F | 9 37 | | | λ = 163°.3 E. |
| | | Halifax | | | |
| | eE | 6 59 | | | |
| | eL ? | 7 13 | | | |
| | F | 8 11 | | | |
| | | Toronto | | | |
| | e | 7 01 | | | |
| | e | 7 10 10 | | | |
| | eL | 7 23 | | | |
| | F | 9 40 | | | |
| | | Victoria | | | |
| | H | 6 34.2 | | 9,620 | |
| | P | 6 46 54 | | | |
| | ScPcS | 6 57 15 | | | |
| | S | 6 57 32 | | | |
| | SS | 7 03 32 | | | |
| | e | 7 10 | | | |
| | eL | 7 14 | | | |
| | F | 10 24 | | | |
| | | Saskatoon | | | |
| | e | 6 58.5 | | | |
| | e | 7 06 | | | |
| | eL | 7 19 | | | |
| | F | 8 11+ | | | |
| | | Seven Falls | | | |
| | e | 6 54.8 | | | |
| | e | 6 59.8 | | | |
| | e | 7 04.6 | | | |
| | e | 7 11.3 | | | |
| | eL | 7 29 | | | |
| | F | 9 46 | | | |

N.B. :- With the amalgamation of Canadian seismic services it is now practicable to record chronologically all earthquakes registered in Canada. Beginning with 1937 each year's registrations will be numbered separately.

W. D. Dobbs.

International Seismological Centre

# CORRELATION TABLE

This tabulation not only provides a serially numbered list of all earthquakes recorded at the Ottawa station but also shows a correlation of the entire Ottawa series with those obtained in each of the three Quebec series (Shawinigan-Wood-Anderson: Seven Falls-Wood-Anderson: Seven Falls-Milne-Shaw). The entries for each of the four series show in hours and minutes the time of beginning of the tremors in Greenwich Mean Time. The appearance of entries for two or more series in the same line indicates that these are known to be concerned with the same earthquake even though the times of beginning may differ slightly. The figures after the plus sign show the duration of the record in hours and minutes. The Ottawa serial number of the earthquake and the day of the month on which it occurred are listed in the first and second columns respectively, while the extreme right hand column is reserved for index letters to a series of notes following the tabulation. Certain letters are reserved for the purpose of classifying the entries; these are as follows:

d (domesticus) epicentre less than 100 km.
v (vicinus) epicentre between 100 and 1000 km.
r (remotus) epicentre between 1000 and 5000 km.
u (ultimus) epicentre beyond 5000 km.

(above lower-case letters apply to earthquakes of the lowest order of intensity on a scale of three).

D, V, R, U : distance as above, intensity intermediate.

D, V, R, U : distance as above, intensity top of scale.

L Long (or surface waves) alone recorded.

Q Questionable (may not be seismic).

T Time uncertain.

P Preliminary tremors alone recorded.

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# EARTHQUAKE CORRELATION TABLE



Month January, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | | |
| 1 | 2 | 22 46+0 41r | 22 46+0 24r | 22 52+0 17r | 22 51+0 10r | ..... | 22 55+0 12r | ..... | 22 54+0 06r | .. |
| 2 | 4 | 23 49+0 28L | ..... | ..... | ..... | ..... | 23 51+0 18L | ..... | ..... | .. |
| 3 | 5 | 0 55+0 43L | 0 39+0 38L | 0 51+0 37L | ..... | ..... | 0 21+1 12u | ..... | ..... | .. |
| 4 | 5 | 5 52+0 37L | 5 31+0 39L | 5 50+0 31L | ..... | ..... | 5 46+0 32L | ..... | ..... | .. |
| 5 | 5 | 11 37+0 18L | ..... | ..... | ..... | ..... | 11 41+0 15L | ..... | ..... | .. |
| 6 | 5 | 22 03+1 12u | 21 59+0 53u | 22 05+1 14u | ..... | ..... | 22 03+1 28u | ..... | ..... | .. |
| 7 | 7 | 6 36+0 52u | 6 31+1 32u | 6 56+0 25L | ..... | ..... | 6 34+0 54u | ..... | ..... | .. |
| 8 | 7 | 7 32+0 39L | ..... | 7 31+0 47L | ..... | ..... | 7 28+0 42L | ..... | ..... | .. |
| 9 | 7 | 13 38+3 39U | 13 34+5 09U | 13 39+3 21U | 13 34+1 33U | ..... | 13 38+4 03U | 13 35+2 02U | 13 34+2 02U | A |
| 10 | 8 | 15 55+0 28L | 15 57+0 21L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 11 | 11 | 13 28+0 29r | 13 35+0 30r | 13 32+0 25r | ..... | ..... | 13 30+0 48r | 13 29+0 15r | 13 28+0 15r | .. |
| 12 | 16 | 18 01+0 12L | ..... | 18 00+0 14L | ..... | ..... | 18 02+0 11L | ..... | ..... | .. |
| 13 | 17 | 9 04+0 11L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 14 | 19 | ..... | ..... | ..... | ..... | ..... | ..... | 20 58.5+0 0.3d | ..... | B |
| 15 | 19 | 22 33+0 50r | 22 30+1 00r | 22 34+0 47r | 22 34+0 02L | ..... | 22 39+0 27r | 22 40+0 13r | 22 39+0 13r | .. |
| 16 | 21 | 15 01+0 11L | 15 19+0 21L | ..... | ..... | ..... | 15 01+0 11L | ..... | ..... | .. |
| 17 | 23 | 11 14+2 08u | 11 09+2 53u | 11 17+2 05u | 11 14+1 07u | 11 32+0 41u | 11 18+2 17u | 11 56+0 20L | 11 17+0 56u | C |
| 18 | 25 | 6 54+2 40u | 6 47+3 37U | 6 55+2 45u | 6 58+1 13u | 6 59+1 12u | 6 55+2 51u | 6 55+1 16u | 6 55+1 25u | E |
| 19 | 29 | 18 13+0 25L | 17 59+0 23L | 18 15+0 22L | ..... | ..... | 18 20+0 08L | ..... | ..... | .. |
| 20 | 30 | 6 46+0 17L | 6 47+0 56L | 6 52+0 08L | ..... | ..... | ..... | ..... | ..... | .. |
| 21 | 30 | 7 19+0 44L | ..... | 7 25+0 18L | ..... | ..... | ..... | ..... | ..... | .. |
| 22 | 31 | 2 19+0 05L | 2 14+0 07L | 2 18+0 06L | ..... | ..... | ..... | ..... | ..... | .. |

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM February 1, 1937 to February 15, 1937 No. 4

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 26 Feb. 4 | $e_E$ | 10 45.4 | | | |
| | eL | 10 51 | | | |
| | F | 11 15 | | | |
| | | Victoria | | | |
| | iL | 10 33 42 | | | |
| | F | 11 16 | | | |
| | | Saskatoon | | | |
| | $e_E$ | 10 36 | | | |
| | e | 10 40 | | | |
| | eL | 10 41.5 | | | |
| | F | 10 53 | | | |
| | | Ottawa | | | |
| 27 Feb. 7 | H | 4 41.8 | | 3850 | USCGS. gives:- |
| | $P_E$ | 4 48 39 | | | $\phi$ = 41° N. |
| | S | 4 54 17 | | | $\lambda$ = 124° W. |
| | $SS_N$ | 4 56.5 | | | |
| | eL | 4 59.5 | | | |
| | F | 5 40 | | | |
| | | Victoria | | | |
| | e | 4 43 30 | | | |
| | eL | 4 46 | | | |
| | F | 6 05 | | | |
| | | Toronto | | | |
| | H | 4 41.7 | | 3620 | |
| | $P_E$ | 4 48 19 | | | |
| | $S_N$ | 4 53 43 | | | |
| | L | 4 57 | | | |
| | F | 5 40 | | | |
| | | Saskatoon | | | |
| | e | 4 45.5 | | | |
| | e | 4 48.7 | | | |
| | eL | 4 50.4 | | | |
| | F | 5 05 | | | |
| | | Shawinigan | | | |
| | H | 4 41.8 | | 4040 | |
| | P | 4 48 53 | | | |
| | S | 4 54 43 | | | |
| | F | 5 16 | | | |
| | | Seven Falls | | | |
| | H | 4 41.7 | | 4180 | |
| | P | 4 48 55 | | | |
| | S | 4 54 54 | | | |
| | F | 5 10 | | | |
| | | Ottawa | | | |
| 30 Feb. 15 | $e_Z$ | 2 25 51 | | | |
| | $e_E$ | 2 26 22 | | | |
| | eL | 2 28.0 | | | |
| | F | 2 39 | | | |

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM February 15, 1937 to February 21, 1937 No. 5

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 30 Feb. 15 (Cont'd) | i | 2 28 50 | | | |
| | M | 2 30.2 | | | |
| | F | 2 33 | | | |
| | | Saskatoon | | | |
| | i | 2 24 00 | | | |
| | M | 2 25.7 | | | |
| | F | 2 37 | | | |
| | | Shawinigan | | | |
| | H | 2 18.0 | | 2040 | |
| | P | 2 22 13 | | | |
| | S | 2 25 42 | | | |
| | e | 2 26 02 | | | |
| | L | 2 28.0 | | | |
| | F | 2 46 | | | |
| | | Seven Falls | | | |
| | H | 2 18.0 | | 1980 | |
| | P | 2 22 04 | | | |
| | S | 2 25 28 | | | |
| | L | 2 27.7 | | | |
| | F | 2 46 | | | |
| | | Ottawa | | | |
| 34 Feb. 21 | H | 7 02.9 | | 8900 | USCGS. gives:- |
| | P | 7 15 02 | | | $\phi$ = 45° N. |
| | PP | 7 18 14 | | | $\lambda$ = 148° E. |
| | S | 7 25 08 | | | |
| | $SS_E$ | 7 30 40 | | | |
| | eL | 7 38 | | | |
| | F | 12 34 | | | |
| | | Halifax | | | |
| | H | 7 03.0 | | 9420 | |
| | P | 7 15.5 | | | |
| | S | 7 26.0 | | | |
| | PS | 7 26.8 | | | |
| | SS | 7 35.6 | | | |
| | L | 7 42 | | | |
| | F | 9 27 | | | |
| | | Toronto | | | |
| | H | 7 03.0 | | 8840 | |
| | P | 7 15 03 | | | |
| | $PP_N$ | 7 18 16 | | | |
| | S | 7 25 07 | | | |
| | $SS_E$ | 7 30 37 | | | |
| | L | 7 38 | | | |
| | F | 12 20 | | | |
| | | Victoria | | | |
| | H | 7 03.0 | | 6080 | |
| | P | 7 12 26 | | | |
| | S | 7 20 11 | | | |
| | SS | 7 24.0 | | | |
| | eL | 7 27 | | | |
| | F | 12 41 | | | |

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM February 21, 1937 to February 28, 1937 No. 6

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Saskatoon | | | |
| | H | 7 03.0 | | 6900 | |
| | P | 7 13 18 | | | |
| | S | 7 21 50 | | | |
| | L | 7 32 | | | |
| | F | 9 32 | | | |
| | | Shawinigan | | | |
| | H | 7 02.9 | | 8950 | |
| | P | 7 15 00 | | | |
| | Se | 7 25 08 | | | |
| | L | 7 35 | | | |
| | F | 7 43 | | | |
| | | 8 58 | | | |
| | | Seven Falls | | | |
| | H | 7 02.9 | | 8840 | |
| | P | 7 14 56 | | | |
| | S | 7 25 00 | | | |
| | L | 7 41 | | | |
| | F | 8 50 | | | |
| | | Ottawa | | | |
| 40 Feb. 23 | H | 0 48.6 | | 8740 | |
| | P | 1 00.6 | | | |
| | $PP_N$ | 1 03.7 | | | |
| | S | 1 10 36 | | | |
| | eL | 1 26 | | | |
| | F | 3 20 | | | |
| | | Toronto | | | |
| | $e_N$ | 1 11 | | | |
| | eL | 1 27 | | | |
| | F | 3 06 | | | |
| | | Victoria | | | |
| | H | 0 48.6 | | 6050 | |
| | P | 0 58 00 | | | |
| | S | 1 05 43 | | | |
| | eL | 1 15 | | | |
| | F | 3 18 | | | |

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE
Month February, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | |
| 23 | 1 | 9 41+1 22u | 9 37+0 51u | ..... | ..... | ..... | 9 51+0 56u | ..... | ..... |
| 24 | 1 | 21 24+0 35L | 21 06+0 25L | ..... | ..... | ..... | ..... | ..... | ..... |
| 25 | 2 | 16 59+0 12L | 16 40+0 17L | ..... | ..... | ..... | ..... | ..... | ..... |
| 26 | 4 | 10 45+0 30r | 10 34+0 42r | 10 41+0 18r | 10 36+0 17r | ..... | 10 53+0 15r | ..... | 10 52+0 07r |
| 27 | 7 | 4 49+0 51R | 4 44+1 21R | 4 48+0 37R | 4 46+0 20R | 4 57+0 06L | 4 55+0 50R | 4 49+0 21R | 4 49+0 27R |
| 28 | 10 | 8 46+0 12L | 9 00+0 13L | ..... | ..... | ..... | ..... | ..... | ..... |
| 29 | 12 | ..... | ..... | ..... | ..... | ..... | 6 18+0 17L | ..... | ..... |
| 30 | 15 | 2 26+0 13r | 2 32+0 02L | 2 29+0 04r | 2 24+0 13r | ..... | 2 26+0 05r | 2 22+0 24r | 2 22+0 24r |
| 31 | 17 | 10 01+0 21L | 10 40+0 14L | 10 06+0 12L | ..... | ..... | ..... | ..... | ..... |
| 32 | 17 | ..... | 23 27+0 12r | ..... | ..... | ..... | ..... | ..... | ..... |
| 33 | 20 | 16 37+0 06L | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 34 | 21 | 7 15+5 19U | 7 12+5 10U | 7 15+5 05U | 7 13+2 20U | 7 15+2 12U | ..... | 7 15+1 34U | 7 15+1 43U |
| 35 | 21 | 23 00+0 56L | 22 56+0 49L | 23 06+0 39L | ..... | ..... | ..... | ..... | ..... |
| 36 | 22 | 1 39+0 14L | 1 09+0 37L | 1 38+0 07L | 1 19+0 26L | ..... | ..... | ..... | ..... |
| 37 | 22 | 3 33+0 45L | 3 12+0 59L | 3 35+0 29L | ..... | ..... | ..... | ..... | ..... |
| 38 | 22 | 5 19+0 37L | 5 05+0 26L | ..... | ..... | ..... | ..... | ..... | ..... |
| 39 | 22 | 13 51+1 17L | 13 41+0 48L | 13 46+0 58L | ..... | ..... | ..... | ..... | ..... |
| 40 | 23 | 1 01+2 19u | 0 58+2 20u | 1 11+1 55u | ..... | ..... | ..... | ..... | ..... |
| 41 | 25 | 1 27+0 16L | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 42 | 25 | 6 09+0 09L | 5 58+0 10L | 6 10+0 10L | 6 00+0 07L | ..... | ..... | ..... | 6 10+0 04L |

International Seismological Centre

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# CORRELATION OF EARTHQUAKES
## February, 1937

## N O T E S

| | | | |
|---|---|---|---|
| A : | Ottawa | Δ = 3,850 km. | H = $4^h41^m.8$ G. M. T. |
| | Toronto | Δ = 3,620 km. | H = 4 41.7 G. M. T. |
| | Shawinigan Falls | Δ = 4,040 km. | H = 4 41.8 G. M. T. |
| | Seven Falls | Δ = 4,180 km. | H = 4 41.7 G. M. T. |
| B : | Shawinigan Falls | Δ = 2,040 km. | H = 2 18.0 G. M. T. |
| | Seven Falls | Δ = 1,980 km. | H = 2 18.0 G. M. T. |
| C : | Ottawa | Δ = 8,900 km. | H = 7 02.9 G. M. T. |
| | Halifax | Δ = 9,420 km. | H = 7 03.0 G. M. T. |
| | Victoria | Δ = 6,080 km. | H = 7 03.0 G. M. T. |
| | Toronto | Δ = 8,840 km. | H = 7 03.0 G. M. T. |
| | Saskatoon | Δ = 6,900 km. | H = 7 03.0 G. M. T. |
| | Shawinigan Falls | Δ = 8,960 km. | H = 7 02.9 G. M. T. |
| | Seven Falls | Δ = 8,840 km. | H = 7 02.9 G. M. T. |
| E : | Ottawa | Δ = 8,740 km. | H = 0 48.6 G. M. T. |
| | Victoria | Δ = 6,050 km. | H = 0 48.6 G. M. T. |

Seven Falls Milne-Shaw not in operation during the period February 16 to February 28.

Dominion Observatory,
Ottawa, Canada,
March 12, 1937.

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

International Seismological Centre

FROM March 1, 1937 to March 9, 1937 No. 7

| NO. AND DATE | PHASE | TIME | AMP | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 43 Mar. 2 | e | 14 50 54 | | | JSA. gives:- |
| | e | 14 51 01 | | | $\phi$ = 40°.4 N. |
| | e | 14 51 12 | | | $\lambda$ = 84°.2 W. |
| | L | 14 51 33 | | | |
| | F | 14 58 | | | |
| | | Shawinigan | | | |
| | H | 14 47.8 | | 1040 | |
| | P | 14 50 05 | | | |
| | S | 14 51 54 | | | |
| | i | 14 52 08 | | | |
| | L | 14 52 44 | | | |
| | F | 15 08 | | | |
| | | Seven Falls | | | |
| | H | 14 47.7 | | 1165 | |
| | P | 14 50 16 | | | |
| | S | 14 52 25 | | | |
| | L | 14 53.3 | | | |
| | F | 15 05 | | | |
| | | Ottawa | | | |
| 47 Mar. 9 | H | 5 44.7 | | 820 | JSA. gives:- |
| | $P_E$ | 5 46.5 | | | $\phi$ = 40°.4 N. |
| | S | 5 47 56 | | | $\lambda$ = 84°.2 W. |
| | L | 5 48 10 | | | |
| | F | 5 57 | | | USCGS. gives |
| | | Toronto | | | $\phi$ = 40°23' N. |
| | i | 5 46 45 | | | $\lambda$ = 84°06' W. |
| | L | 5 47 00 | | | |
| | F | 5 53 | | | |
| | | Saskatoon | | | |
| | e | 5 51 10 | | | |
| | L | 5 53.4 | | | |
| | F | 6 00 | | | |
| | | Shawinigan | | | |
| | H | 5 44.7 | | 1070 | |
| | P | 5 47 02 | | | |
| | S | 5 48 54 | | | |
| | M | 5 49 46 | | | |
| | F | 6 07 | | | |
| | | Seven Falls | | | |
| | H | 5 44.7 | | 1165 | |
| | P | 5 47 17 | | | |
| | S | 5 49 26 | | | |
| | L | 5 50 23 | | | |
| | F | 6 04 | | | |

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

International Seismological Centre

FROM March 9, 1937 to March 9, 1937 No. 8

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s. | μ | km. | |
| | | Ottawa | | | |
| 48 Mar. 9 | H | 15 40.5 | | 4000 | USCGS. gives:- |
| | P | 15 47 33 | | | $\phi$ = 8°.9 N. |
| | PP | 15 49 06 | | | $\lambda$ = 83°.8 W. |
| | S | 15 53 20 | | | |
| | SS | 15 55 15 | | | |
| | iN | 15 56 50 | | | |
| | eL | 15 58 | | | |
| | F | 18 09 | | | |
| | | Halifax | | | |
| | e | 15 48.0 | | | |
| | eN | 15 57 | | | |
| | eL | 16 00 | | | |
| | F | 16 20 | | | |
| | | Victoria | | | |
| | H | 15 40.5 | | 5680 | |
| | P | 15 49 31 | | | |
| | S | 15 56 54 | | | |
| | iN | 15 59 24 | | | |
| | SSS | 16 02 | | | |
| | L | 16 04 | | | |
| | F | 17 20 | | | |
| | | Toronto | | | |
| | H | 15 40.5 | | 3700 | |
| | P | 15 47 13 | | | |
| | PPP | 15 48 26 | | | |
| | e | 15 52 24 | | | |
| | iS | 15 52 42 | | | |
| | SS | 15 54.6 | | | |
| | L | 15 55.5 | | | |
| | F | 17 18 | | | |
| | | Saskatoon | | | |
| | e | 15 48.0 | | | |
| | e | 15 54.8 | | | |
| | e | 15 58.6 | | | |
| | L | 16 07 | | | |
| | F | 16 37 | | | |
| | | Shawinigan | | | |
| | H | 15 40.5 | | 4180 | |
| | P | 15 47 48 | | | |
| | e | 15 49 16 | | | |
| | S | 15 53 47 | | | |
| | L | 16 01 | | | |
| | F | 16 21 | | | |
| | | Seven Falls | | | |
| | H | 15 40.6 | | 4260 | |
| | P | 15 47 56 | | | |
| | PPP | 15 49 32 | | | |
| | S | 15 54 00 | | | |
| | SSS | 15 57 11 | | | |
| | L | 16 00 | | | |
| | F | 17 31 | | | |

OTTAWA, CANADA
SEISMOLOGICAL STATION, DOMINION OBSERVATORY

International Seismological Centre

FROM March 9, 1937 to March 17, 1937 No. 9

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 51 Mar. 14 | H | 11 56.0 | | 7620 | USCGS. gives:- |
| | P | 12 07 00 | | | $\phi$ = 25° S. |
| | S | 12 16 07 | | | $\lambda$ = 70° W. |
| | $PS_E$ | 12 16 34 | | | |
| | $e_E$ | 12 24.0 | | | |
| | eL | 12 29 | | | |
| | F | 14 03 | | | |
| | | Victoria | | | |
| | H | 11 55.9 | | 9470 | |
| | P | 12 08 27 | | | |
| | PP | 12 11 52 | | | |
| | S | 12 19 00 | | | |
| | L | 12 32 | | | |
| | F | 13 31 | | | |
| | | Toronto | | | |
| | H | 11 56.0 | | 7440 | |
| | P | 12 06 46 | | | |
| | S | 12 15 45 | | | |
| | SSS | 12 23.0 | | | |
| | L | 12 29 | | | |
| | F | 13 38 | | | |
| | | Shawinigan | | | |
| | H | 11 56.0 | | 7780 | |
| | P | 12 07 05 | | | |
| | S | 12 16 19 | | | |
| | F | 12 22 | | | |
| | | Seven Falls | | | |
| | H | 11 56.0 | | | |
| | P | 12 07 07 | | | |
| | S | 12 16 21 | | | |
| | F | 12 22 | | | |
| | | Ottawa | | | |
| 54 Mar. 17 | $e_N$ | 14 07.1 | | | |
| | e | 14 08.6 | | | |
| | $e_E$ | 14 12 52 | | | |
| | $e_E$ | 14 16.0 | | | |
| | M | 14 24 | | | |
| | F | 15 13 | | | |
| | | Victoria | | | |
| | e | 14 09 | | | |
| | e | 14 16.4 | | | |
| | eL | 14 25 | | | |
| | F | 15 21 | | | |
| | | Seven Falls | | | |
| | e | 14 09 | | | |
| | i | 14 13 39 | | | |
| | eL | 14 20 | | | |
| | F | 14 56 | | | |

OTTAWA, CANADA
SEISMOLOGICAL STATION, DOMINION OBSERVATORY

International Seismological Centre

FROM March 17, 1937 to March 24, 1937 No. 10

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 55 Mar. 19 | H | 18 12.0 | | 8250 | |
| | PN | 18 23.5 | | | |
| | S | 18 33 08 | | | |
| | SSN | 18 38.0 | | | |
| | e | 18 42 | | | |
| | eL | 18 46 | | | |
| | F | 19 23 | | | |
| | | Toronto | | | |
| | H | 18 12.1 | | 7920 | |
| | P | 18 23 23 | | | |
| | S | 18 32 44 | | | |
| | L | 18 48 | | | |
| | F | 19 15 | | | |
| | | Seven Falls | | | |
| | S? | 18 33.3 | | | |
| | L | 18 48 | | | |
| | F | 19 18 | | | |
| | | Ottawa | | | |
| 58 Mar. 21 | eE | 19 52 44 | | | |
| | eL | 20 13 | | | |
| | F | 20 34 | | | |
| | | Seven Falls | | | |
| | e | 19 52 34 | | | |
| | eL | 20 16 | | | |
| | F | 20 40 | | | |
| | | Ottawa | | | |
| 60 Mar. 23 | e | 1 07.4 | | | |
| | e | 1 12 | | | |
| | eL | 1 19 | | | |
| | F | 2 05 | | | |
| | | Victoria | | | |
| | e | 1 07.7 | | | |
| | eL | 1 21 | | | |
| | F | 2 34 | | | |
| | | Toronto | | | |
| | i | 1 06 52 | | | |
| | eL | 1 18.5 | | | |
| | F | 2 06 | | | |
| | | Seven Falls | | | |
| | e | 1 08 | | | |
| | e | 1 14 | | | |
| | eL | 1 20 | | | |
| | F | 2 10 | | | |
| | | Victoria | | | |
| 62 Mar. 24 | iE | 1 22 39 | | | |
| | e | 1 26 | | | |
| | L | 1 29 | | | |
| | F | 2 22 | | | |

OTTAWA, CANADA
SEISMOLOGICAL STATION, DOMINION OBSERVATORY

International Seismological Centre

FROM March 24, 1937 to March 26, 1937 No. 11

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 64 | e | 17 01.2 | | | USCGS. gives:- |
| Mar. | e | 17 04 | | | $\phi$ = 33°.4 N. |
| 25 | eL | 17 06 | | | $\lambda$ = 116°.7 W. |
| | F | 18 05 | | | |
| | | Toronto | | | |
| | $e_N$ | 17 01.7 | | | |
| | e | 17 03 48 | | | |
| | eL | 17 05 | | | |
| | F | 18 06 | | | |
| | | Saskatoon | | | |
| | e | 16 57 20 | | | |
| | eL | 16 59 | | | |
| | F | 17 20 | | | |
| | | Victoria | | | |
| | H | 16 49.0 | | 1865 | |
| | P | 16 52 55 | | | |
| | S | 16 56 09 | | | |
| | eL | 16 57 | | | |
| | F | 18 02 | | | |
| | | Seven Falls | | | |
| | e | 17 02.5 | | | |
| | e | 17 05.3 | | | |
| | L | 17 08.5 | | | |
| | F | 18 05 | | | |
| | | Ottawa | | | |
| 67 | e | 21 22.1 | | | |
| Mar. | eL | 21 24.5 | | | |
| 26 | F | 22 13 | | | |
| | | Victoria | | | |
| | e | 21 11.2 | | | |
| | eL | 21 13 | | | |
| | F | 21 34 | | | |
| | | Toronto | | | |
| | e | 21 21.7 | | | |
| | eL | 21 26.4 | | | |
| | F | 22 03 | | | |
| | | Saskatoon | | | |
| | e | 21 13 | | | |
| | eL | 21 17 | | | |
| | F | 21 32 | | | |
| | | Seven Falls | | | |
| | e | 21 23 | | | |
| | L | 21 31 | | | |
| | F | 22 03 | | | |

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

International Seismological Centre

FROM March 26, 1937 to March 31, 1937 No. 12

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 69 Mar. 29 | $e_N$ | 6 27 30 | | | |
| | e | 6 31.8 | | | |
| | eL | 6 37 | | | |
| | F | 7 07 | | | |
| | | Toronto | | | |
| | $e_N$ | 6 27 08 | | | |
| | $e_N$ | 6 31.5 | | | |
| | $eL_N$ | 6 38 | | | |
| | F | 7 04 | | | |
| | | Seven Falls | | | |
| | e | 6 27.1 | | | |
| | e | 6 31.6 | | | |
| | e | 6 34.6 | | | |
| | eL | 6 37.5 | | | |
| | F | 7 07 | | | |
| | | Ottawa | | | |
| 70 Mar. 29 | $e_N$? | 8 00 | | | |
| | e | 8 08.0 | | | |
| | eL | 8 16 | | | |
| | F | 8 48 | | | |
| | | Victoria | | | |
| | e | 8 02.3 | | | |
| | $e_N$ | 8 11 36 | | | |
| | eL | 8 27 | | | |
| | F | 8 53 | | | |
| | | Toronto | | | |
| | $e_N$ | 8 07.8 | | | |
| | eL | 8 19 | | | |
| | F | 8 39 | | | |
| | | Seven Falls | | | |
| | i | 8 08 22 | | | |
| | i | 8 09 08 | | | |
| | eL | 8 15.6 | | | |
| | F | 8 36 | | | |
| | | Ottawa | | | |
| 71 Mar. 29 | $e_N$ | 12 21 | | | |
| | eL | 12 27 | | | |
| | F | 12 43 | | | |
| | | Victoria | | | |
| 73 Mar. 30 | e | 15 10.2 | | | |
| | L | 15 27 | | | |
| | F | 15 44 | | | |
| | | Ottawa | | | |
| 74 Mar. 31 | e | 17 10 01 | | | Felt at Kemptville, Ont. |
| | F | 17 10 12 | | | |
| | | | W. | W. Doxsee. | |

International Seismological Centre

# EARTHQUAKE CORRELATION TABLE

Month March, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | | |
| 43 | 2 | 14 51+0 07v | 15 03+0 04L | ..... | 14 55+0 07r | ..... | ..... | 14 50+0 15r | 14 50+0 18r | A |
| 44 | | ..... | 16 07+0 06r | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 45 | 3 | 9 42+0 07L | 9 36+0 07L | 9 40+0 08L | ..... | ..... | ..... | ..... | ..... | .. |
| 46 | 5 | 23 32+0 32u | 23 37+0 13L | 23 40+0 14L | ..... | ..... | ..... | ..... | ..... | .. |
| 47 | 9 | 5 47+0 10v | 6 00+0 04L | 15 47+0 06v | 5 51+0 09r | ..... | 5 50+0 02r | 5 47+0 17r | 5 47+0 20r | B |
| 48 | 9 | 15 48+2 21R | 15 49+1 31u | 15 47+1 31R | 15 48+0 49u | 15 48+0 52r | 15 48+1 43r | 15 48+0 26r | 15 48+0 33r | C |
| 49 | 10 | 5 18+0 30L | 4 59+0 35L | 5 10+0 37L | ..... | ..... | 5 19+0 21L | ..... | ..... | .. |
| 50 | 12 | 10 37+0 27L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 51 | 14 | 12 07+1 56u | 12 08+1 23u | 12 07+1 04u | ..... | ..... | 12 16+1 45u | 12 07+0 15u | 12 07+0 15u | E |
| 52 | 15 | 7 13+0 26L | ..... | 7 23+0 14L | ..... | ..... | 7 15+0 23L | ..... | ..... | .. |
| 53 | 16 | 16 21+1 04u | ..... | 16 55+0 17L | ..... | ..... | 16 39+0 28L | ..... | ..... | .. |
| 54 | 17 | 14 07+1 06u | 14 09+1 12u | 14 28+0 39L | ..... | ..... | 14 09+0 47u | ..... | ..... | .. |
| 55 | 19 | 18 23+1 00u | 18 53+0 18L | 18 23+0 52u | ..... | ..... | 18 33+0 45u | ..... | 18 24+0 01P | F |
| 56 | 21 | 4 04+0 05L | 3 59+0 07L | 4 03+0 04L | ..... | ..... | 3 57+0 12L | ..... | ..... | .. |
| 57 | 21 | 16 57+0 38L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 58 | 21 | 19 53+0 41u | ..... | ..... | ..... | ..... | 19 53+0 48u | ..... | ..... | .. |
| 59 | 22 | 10 57+0 04L | ..... | ..... | ..... | ..... | 10 55+0 05L | ..... | ..... | .. |
| 60 | 23 | 1 07+0 58u | 1 08+1 26u | 1 07+0 59u | ..... | ..... | 1 08+1 02u | ..... | ..... | .. |
| 61 | 23 | 19 19+0 24L | 19 44+0 16L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 62 | 24 | 1 37+1 08L | 1 23+1 00u | 1 41+0 57L | ..... | ..... | 1 43+0 48L | ..... | ..... | .. |
| 63 | 24 | 9 52+0 08L | 9 34+0 10L | 9 51+0 10L | ..... | ..... | 9 53+0 05L | ..... | ..... | .. |
| 64 | 25 | 17 01+1 04r | 16 53+1 09r | 17 02+1 04r | 16 57+0 23r | 17 07+0 12r | 17 02+1 02r | 17 08+0 12r | 17 07+0 12r | G |
| 65 | 26 | 11 00+0 28L | 10 55+0 38L | ..... | ..... | ..... | 11 02+0 21L | ..... | ..... | .. |
| 66 | 26 | 16 58+0 14u | ..... | ..... | ..... | ..... | 17 06+0 07L | ..... | ..... | .. |
| 67 | 26 | 21 22+0 51r | 21 11+0 23r | 21 22+0 41r | 21 13+0 19r | ..... | 21 23+0 40r | ..... | ..... | .. |
| 68 | 27 | 7 57+0 07L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 69 | 29 | 6 28+0 39u | 6 32+0 48u | 6 27+0 37u | ..... | ..... | 6 27+0 40u | ..... | ..... | .. |
| 70 | 29 | 8 00+0 48u | 8 02+0 51u | 8 08+0 31u | ..... | ..... | 8 08+0 27u | ..... | 8 00+0 04P | .. |
| 71 | 29 | 12 21+0 22u | ..... | 12 27+0 16L | ..... | ..... | 12 27+0 13L | ..... | ..... | .. |
| 72 | 29 | 15 30+0 18L | ..... | 15 38+0 05L | ..... | ..... | 15 37+0 09L | ..... | ..... | .. |
| 73 | 30 | 15 36+0 42L | 15 10+0 34u | ..... | ..... | ..... | 15 48+0 21L | ..... | ..... | .. |
| 74 | 31 | 17 10+0 0.1d | ..... | ..... | ..... | ..... | ..... | ..... | ..... | H |

International Seismological Centre

# CORRELATION OF EARTHQUAKES

March, 1937.

## N O T E S

A : Shawinigan Falls Δ = 1,040 km. H = $14^h47^m.8$ G. M. T.
Seven Falls Δ = 1,165 km. H = 14 47.7 G. M. T.

B : Ottawa Δ = 820 km. H = $5^h44^m.7$ G. M. T.
Shawinigan Falls Δ = 1,070 km. H = 5 44.7 G. M. T.
Seven Falls Δ = 1,165 km. H = 5 44.7 G. M. T.

C : Ottawa Δ = 4,000 km. H = $15^h40^m.5$ G. M. T.
Victoria Δ = 5,680 km. H = 15 40.5 G. M. T.
Toronto Δ = 3,700 km. H = 15 40.5 G. M. T.
Shawinigan Falls Δ = 4,180 km. H = 15 40.5 G. M. T.
Seven Falls Δ = 4,260 km. H = 15 40.6 G. M. T.

E : Ottawa Δ = 7,620 km. H = $11^h56^m.0$ G. M. T.
Victoria Δ = 9,470 km. H = 11 55.9 G. M. T.
Toronto Δ = 7,440 km. H = 11 56.0 G. M. T.
Shawinigan Falls Δ = 7,780 km. H = 11 56.0 G. M. T.
Seven Falls Δ = 7,780 km. H = 11 56.0 G. M. T.

F : Ottawa Δ = 8,250 km. H = $18^h12^m.0$ G. M. T.
Toronto Δ = 7,920 km. H = 18 12.1 G. M. T.

G : Victoria Δ = 1,865 km. H = $16^h49^m.0$ G. M. T.

H : Local - tremors felt at Kemptville, Ontario.

Dominion Observatory,
Ottawa, Canada,
May 3, 1937.

CANADA

# SEISMOLOGICAL STATION, DOMINION OBSERVATORY
## OTTAWA

International Seismological Centre

R. MELDRUM STEWART, *Director*

ERNEST A. HODGSON, *Seismologist*

W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. $h = 83$ m.

**Foundation: boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight. Time correction: within 0·25s.**

## AUXILIARY STATIONS

### SASKATOON

$\varphi = 52° 08'$ N. $\lambda = 106° 38'$ W. $h = 515$ m.

**Foundation: clay and sand. Time correction: from manually recorded radio time signals.**

### HALIFAX

$\varphi = 44° 38'$ N. $\lambda = 63° 36'$ W. $h = 46$ m.

**Foundation: carbonaceous slate. Time correction: from hourly recorded railroad time service.**

### SHAWINIGAN FALLS

$\varphi = 46° 33'·1$ N. $\lambda = 72° 45'·8$ W. $h = 60$ m. *ca.*

**Foundation: solid granite of Canadian Shield. Time correction: from automatically recorded radio time signals.**

### SEVEN FALLS

$\varphi = 47° 07'·4$ N. $\lambda = 70° 49'·6$ W. $h = 232$ m. *ca.*

**Foundation: solid granite of Canadian Shield. Time correction: from automatically recorded radio time signals.**

## INSTRUMENTS—FIXED CONSTANTS

| STATION | INSTRUMENT | SYMBOL | REGISTRATION | DAMPING | PAPER SPEED | MASS |
|---|---|---|---|---|---|---|
| Ottawa | Bosch | I | Photographic | Air | 15 mm. per min. | 200 g. |
| Ottawa | Bosch | II | Photographic | Magnetic | 15 mm. per min. | 200 g. |
| Ottawa | Milne-Shaw | 17 | Photographic | Magnetic | 15 mm. per min. | 1 lb. |
| Ottawa | Milne-Shaw | 23 | Photographic | Magnetic | 15 mm. per min. | 1 lb. |
| Ottawa | Spindler-Hoyer | W | Smoked Sheet | Air | 15 mm. per min. | 80 kg. |
| Halifax | Mainka | HN | Smoked Sheet | Air | 15 mm per min. | 139 kg. |
| Halifax | Mainka | HE | Smoked Sheet | Air | 15 mm. per min. | 139 kg. |
| Saskatoon | Mainka | SN | Smoked Sheet | Air | 15 mm. per min. | 139 kg. |
| Saskatoon | Mainka | SE | Smoked Sheet | Air | 15 mm. per min. | 139 kg. |
| Shawinigan Falls | Wood-Anderson | SA | Photographic | Magnetic | 60 mm. per min. | 15 g. |
| Seven Falls | Wood-Anderson | SF | Photographic | Magnetic | 60 mm. per min. | 15 g. |
| Seven Falls | Milne-Shaw | SM | Photographic | Magnetic | 6 mm. per min. | 1 lb. |

## INSTRUMENTS—DETERMINED CONSTANTS

| INSTRUMENT | $T_0$ | $r/T_0^2$ | $V$ | $\epsilon$ | COMP. | DISPLACEMENT FOR 1″ ARC TILT |
|---|---|---|---|---|---|---|
| | 5.1 | | 120 | 2:1 | NS | |
| I | 6.0 | | 120 | 12:1 | EW | |
| II | 12.0 | | 250 | 20:1 | EW | 44 mm. |
| 17 | 12.0 | | 250 | 20:1 | NS | 44 mm. |
| 23 | 5.3 | | 160 | 10:1 | Z | |
| W | 10.3 | | 92 | Aper. | NS | |
| HN | 9.4 | | 155 | " | EW | |
| HE | 9.0 | | 61 | " | NS | |
| SN | 9.0 | | 56 | " | EW | |
| SE | 0.9 | | 2000 | | NS | |
| SA | 1.0 | | 1800 | | EW | |
| SF | 12.0 | | 250 | 20:1 | EW | 44 mm. |
| SM | | | | | | |

International Seismological Centre

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

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AUXILIARY STATIONS

Toronto

$\phi$ = 43°40' N. $\lambda$ = 79°24' W. h = 111 m.

Foundation: sand and clay

Instruments: Milne-Shaw, NS. and EW. components, photographic recording, paper speed of 8 mm. per min., mass 1 lb., period 12 secs., magnetic damping 20:1, and magnification 150 fold.

Victoria

$\phi$ = 48°25' N. $\lambda$ = 123°19' W. h = 68 m.

Foundation: rock

Instruments: Milne-Shaw, NS. and EW. components, photographic recording, paper speed of 8 mm. per min., mass 1 lb., period 12 secs., magnetic damping 20:1, and magnification 250 fold.

Wiechert Vertical not operating.

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM April 1, 1937 to April 16, 1937 No. 13

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 82 | e | 7 17 44 | | | |
| Apr. | e | 7 19 00 | | | |
| 5 | e | 7 27 46 | | | |
| | e | 7 30 29 | | | |
| | e | 7 35 24 | | | |
| | e | 7 44 04 | | | |
| | eL ? | 7 51 | | | |
| | F | 8 59+ | | | |
| | | Toronto | | | |
| | e | 7 17 44 | | | |
| | e | 7 19 02 | | | |
| | e | 7 27 30 | | | |
| | e | 7 35 | | | |
| | eL | 7 57 | | | |
| | F | 9 54 | | | |
| | | Victoria | | | |
| | $e_E$ | 7 10.0 | | | |
| | $e_E$ | 7 14.5 | | | |
| | $i_E$ | 7 20 45 | | | |
| | $i_E$ | 7 23 15 | | | |
| | $e_N$ | 7 28 50 | | | |
| | $i_E$ | 7 29 02 | | | |
| | L | 7 37 | | | |
| | F | 10 07 | | | |
| | | Seven Falls | | | |
| | e | 7 18.7 | | | |
| | e | 7 19.9 | | | |
| | e | 7 35.9 | | | |
| | L | 8 05 | | | |
| | F | 10 02 | | | |
| | | Ottawa | | | |
| 87 | $e_E$ | 3 17.4 | | | USCGS. gives:- |
| Apr. | e | 3 20 26 | | | $\phi$ = 22° S |
| 16 | $i_N$ | 3 25 51 | | | $\lambda$ = 174° W. |
| | $i_E$ | 3 27 38 | | | Depth 400 km. ca. |
| | $i_N$ | 3 27 51 | | | |
| | $i_E$ | 3 29 44 | | | JSA. gives:- |
| | $i_N$ | 3 30 28 | | | $\phi$ = 22°.2 S. |
| | $i_E$ | 3 30 44 | | | $\lambda$ = 179°.0 E. |
| | $i_E$ | 3 32 00 | | | Depth 390 ± km. |
| | $i_E$ | 3 35 46 | | | |
| | eL ? | 3 49 | | | |
| | F | 7 32 | | | |
| | | Halifax | | | |
| | $e_E$ | 3 21 | | | |
| | $i_E$ | 3 26 24 | | | |
| | e | 3 31.0 | | | |
| | eL ? | 3 38 | | | |
| | F | 4 53 | | | |

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM April 16, 1937 to April 29, 1937 No. 14

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Victoria | | | |
| 87 | H | 3 01.8 | | | |
| Apr. | eP | 3 13 31 | | 8480 | |
| 16 | i | 3 15 00 | | | |
| (Cont'd) | iS | 3 23 21 | | | |
| | eL ? | 3 36 | | | |
| | F | 7 00 | | | |
| | | Toronto | | | |
| | eE | 3 17 11 | | | |
| | eN | 3 19.4 | | | |
| | eE | 3 22 14 | | | |
| | eE | 3 25 30 | | | |
| | i | 3 27 28 | | | |
| | iE | 3 29 19 | | | |
| | iE | 3 31 34 | | | |
| | i | 3 35 04 | | | |
| | iE | 3 37 34 | | | |
| | iN | 3 39 26 | | | |
| | eL | 3 45 | | | |
| | F | 6 24 | | | |
| | | Saskatoon | | | |
| | H | 3 01.9 | | 9360 | |
| | eP | 3 14 23 | | | |
| | eS | 3 24 50 | | | |
| | F | 5 00 | | | |
| | | Shawinigan | | | |
| | e | 3 19 39 | | | |
| | e | 3 28 09 | | | |
| | e | 3 30 07 | | | |
| | e | 3 36 09 | | | |
| | eL | 3 50 | | | |
| | F | 4 24 | | | |
| | | Seven Falls | | | |
| | e | 3 19.7 | | | |
| | e | 3 20 45 | | | |
| | i | 3 26 01 | | | |
| | i | 3 27 09 | | | |
| | i | 3 30 02 | | | |
| | eL | 3 51 | | | |
| | F | 4 39 | | | |
| | | Ottawa | | | |
| 95 | H | 18 11.7 | | 3110 | |
| Apr. | eP | 18 17 34 | | | |
| 29 | SE | 18 22 25 | | | |
| | L | 18 25 | | | |
| | F | 19 01+ | | | |
| | | Toronto | | | |
| | e | 18 18 | | | |
| | e | 18 23.0 | | | |
| | eL | 18 27 | | | |
| | F | 19 00+ | | | |

International Seismological Centre

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM April 29, 1937 to April 30, 1937 No. 15

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Victoria | | | |
| 95 | e | 18 22.7 | | | |
| Apr. | e | 18 28 | | | |
| 29 | eL | 18 36 | | | |
| (Cont'd) | F | 18 58+ | | | |
| | | Seven Falls | | | |
| | H | 18 11.4 | | 2850 | |
| | eP | 18 16 57 | | | |
| | iS | 18 21 30 | | | |
| | eL | 18 24 | | | |
| | F | 18 47+ | | | |
| | | Ottawa | | | |
| 96 | H | 18 52.8 | | 5700 | USCGS. gives:- |
| Apr. | P | 19 01 49 | | | $\phi$ = 53° N. |
| 29 | S | 19 09 13 | | | $\lambda$ = 161° W. |
| | $e_E$ | 19 11 34 | | | |
| | SS | 19 12 56 | | | |
| | eL | 19 17.5 | | | |
| | F | 22 18 | | | |
| | | Toronto | | | |
| | H | 18 52.8 | | 5630 | |
| | $eP_N$ | 19 01 42 | | | |
| | $S_N$ | 19 09 02 | | | |
| | $e_N$ | 19 11 30 | | | |
| | $SS_N$ | 19 12 48 | | | |
| | $eL_N$ | 19 19 | | | |
| | F | 21 51 | | | |
| | | Saskatoon | | | |
| | e | 18 59.0 | | | |
| | e | 19 03.0 | | | |
| | L | 19 06 | | | |
| | F | 20 25 | | | |
| | | Victoria | | | |
| | H | 18 52.8 | | 2610 | |
| | $iP_E$ | 18 57 59 | | | |
| | $PP_E$ | 18 58 29 | | | |
| | iS | 19 02 14 | | | |
| | $SS_N$ | 19 03 33 | | | |
| | iL | 19 04 44 | | | |
| | F | 22 30 | | | |
| | | Shawinigan | | | |
| | H | 18 52.8 | | 5780 | |
| | P | 19 01 53 | | | |
| | S | 19 09 21 | | | |
| | e | 19 16 | | | |
| | eL | 19 20 | | | |
| | F | 20 05 | | | |
| | | Seven Falls | | | |
| | H | 18 52.8 | | 5790 | |
| | P | 19 01 57 | | | |
| | S | 19 09 26 | | | |

H. W. Norris

International Seismological Centre

# EARTHQUAKE CORRELATION TABLE

Month April, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | | |
| 75 | 1 | 4 03+0 05L | 3 46+0 07L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 76 | 1 | 17 45+1 27L | 17 42+1 24L | ..... | ..... | ..... | 18 15+1 10L | ..... | ..... | .. |
| 77 | 2 | 5 57+0 19L | 5 51+0 12L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 78 | 3 | 1 23+0 16L | 1 15+0 08L | ..... | ..... | ..... | 1 27+0 10L | ..... | ..... | .. |
| 79 | 3 | 4 49+1 18L | 4 15+1 15L | 4 57+0 20L | ..... | ..... | 4 49+1 10L | ..... | ..... | .. |
| 80 | 3 | 22 28+0 14L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 81 | 5 | 6 59+0 08L | ..... | 6 58+0 07L | ..... | ..... | 7 02+0 05L | ..... | ..... | .. |
| 82 | 5 | 7 18+1 41u | 7 10+2 57u | 7 18+2 36u | 7 22+0 55u | 7 20+0 07P | 7 19+2 43u | 7 16+0 31u | 7 16+0 35u | .. |
| 83 | 5 | ..... | 20 37+0 11L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 84 | 8 | 16 19+0 15L | ..... | ..... | ..... | ..... | 16 22+0 11L | ..... | ..... | .. |
| 85 | 11 | ..... | ..... | ..... | ..... | ..... | 6 03+0 21L | ..... | ..... | .. |
| 86 | 13 | 5 17+0 29L | ..... | ..... | ..... | ..... | 5 25+0 16L | ..... | ..... | .. |
| 87 | 16 | 3 17+4 15U | 3 14+3 47U | 3 17+3 07U | 3 14+1 46U | 3 21+1 32U | 3 16+3 24U | 3 20+1 19U | 3 20+1 04U | A |
| 88 | 21 | 22 15+0 11L | ..... | ..... | ..... | ..... | 22 15+0 07L | ..... | ..... | .. |
| 89 | 23 | 12 59+0 14L | ..... | ..... | ..... | ..... | 13 00+0 10L | ..... | ..... | .. |
| 90 | 24 | 8 03+0 08L | 7 52+0 09L | ..... | 7 53+0 06L | ..... | 8 03+0 06L | ..... | ..... | .. |
| 91 | 25 | 10 50+0 07L | 10 44+0 10L | 10 49+0 07L | ..... | ..... | ..... | ..... | ..... | .. |
| 92 | 25 | 22 02+0 16L | 22 03+0 15L | ..... | ..... | ..... | 22 03+0 08L | ..... | ..... | .. |
| 93 | 26 | 7 51+0 03L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 94 | 29 | 0 59+0 21L | 0 51+0 25L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 95 | 29 | 18 18+0 43r | 18 23+0 35u | 18 18+0 42r | ..... | ..... | 18 17+0 31r | 18 17+0 12r | 18 17+0 17r | B |
| 96 | 29 | 19 02+3 16U | 18 58+3 32R | 19 02+2 49U | 18 59+1 26r | 19 19+0 33L | 19 02+3 35U | 19 02+0 53U | 19 02+1 03U | C |

International Seismological Centre

# CORRELATION OF EARTHQUAKES

## April, 1937

## N O T E S

| | | | |
|---|---|---|---|
| A : | Victoria | $\Delta$ = 8,480 km. | H = $3^h01^m.8$ G. M. T. |
| | Saskatoon | $\Delta$ = 9,360 km. | H = 3 01.9 G. M. T. |
| B : | Ottawa | $\Delta$ = 3,110 km. | H = $18^h11^m.7$ G. M. T. |
| | Seven Falls | $\Delta$ = 2,850 km. | H = 18 11.4 G. M. T. |
| C : | Ottawa | $\Delta$ = 5,700 km. | H = $18^h52^m.8$ G. M. T. |
| | Toronto | $\Delta$ = 5,630 km. | H = 18 52.8 G. M. T. |
| | Victoria | $\Delta$ = 2,610 km. | H = 18 52.8 G. M. T. |
| | Shawinigan Falls | $\Delta$ = 5,780 km. | H = 18 52.8 G. M. T. |
| | Seven Falls | $\Delta$ = 5,790 km. | H = 18 52.8 G. M. T. |

Dominion Observatory
Ottawa, Canada,
May 29, 1937.

CANADA

# SEISMOLOGICAL STATION, DOMINION OBSERVATORY
## OTTAWA

International Seismological Centre

R. MELDRUM STEWART, *Director*

ERNEST A. HODGSON, *Seismologist*

W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. $h = 83$ m.

**Foundation:** boulder clay over limestone (Ordovician). **Time:** Mean Greenwich, midnight to midnight. **Time correction:** within 0·25s.

## AUXILIARY STATIONS

### SASKATOON

$\varphi = 52° 08'$ N. $\lambda = 106° 38'$ W. $h = 515$ m.

**Foundation:** clay and sand. **Time correction:** from manually recorded radio time signals.

### HALIFAX

$\varphi = 44° 38'$ N. $\lambda = 63° 36'$ W. $h = 46$ m.

**Foundation:** carbonaceous slate. **Time correction:** from hourly recorded railroad time service.

### SHAWINIGAN FALLS

$\varphi = 46° 33'{\cdot}1$ N. $\lambda = 72° 45'{\cdot}8$ W. $h = 60$ m. *ca.*

**Foundation:** solid granite of Canadian Shield. **Time correction:** from automatically recorded radio time signals.

### SEVEN FALLS

$\varphi = 47° 07'{\cdot}4$ N. $\lambda = 70° 49'{\cdot}6$ W. $h = 232$ m. *ca.*

**Foundation:** solid granite of Canadian Shield. **Time correction:** from automatically recorded radio time signals.

## INSTRUMENTS—FIXED CONSTANTS

| STATION | INSTRUMENT | SYMBOL | REGISTRATION | DAMPING | PAPER SPEED | MASS |
|---|---|---|---|---|---|---|
| Ottawa | Bosch | I | Photographic | Air | 15 mm. per min. | 200 g. |
| Ottawa | Bosch | II | Photographic | Magnetic | 15 mm. per min. | 200 g. |
| Ottawa | Milne-Shaw | 17 | Photographic | Magnetic | 15 mm. per min. | 1 lb. |
| Ottawa | Milne-Shaw | 23 | Photographic | Magnetic | 15 mm. per min. | 1 lb. |
| Ottawa | Spindler-Hoyer | W | Smoked Sheet | Air | 15 mm. per min. | 80 kg. |
| Halifax | Mainka | HN | Smoked Sheet | Air | 15 mm per min. | 139 kg. |
| Halifax | Mainka | HE | Smoked Sheet | Air | 15 mm. per min. | 139 kg. |
| Saskatoon | Mainka | SN | Smoked Sheet | Air | 15 mm. per min. | 139 kg. |
| Saskatoon | Mainka | SE | Smoked Sheet | Air | 15 mm. per min. | 139 kg. |
| Shawinigan Falls | Wood-Anderson | SA | Photographic | Magnetic | 60 mm. per min. | 15 g. |
| Seven Falls | Wood-Anderson | SF | Photographic | Magnetic | 60 mm. per min. | 15 g. |
| Seven Falls | Milne-Shaw | SM | Photographic | Magnetic | 6 mm. per min. | 1 lb. |

## INSTRUMENTS—DETERMINED CONSTANTS

| INSTRUMENT | $T_0$ | $r/T_0^2$ | $V$ | $\epsilon$ | COMP. | DISPLACEMENT FOR 1″ ARC TILT |
|---|---|---|---|---|---|---|
| I | 5.1 | | 120 | 2:1 | NS | |
| II | 6.0 | | 120 | 12:1 | EW | |
| 17 | 12.0 | | 250 | 20:1 | EW | 44 mm. |
| 23 | 12.0 | | 250 | 20:1 | NS | 44 mm. |
| W | 5.3 | | 160 | 10:1 | Z | |
| HN | 10.3 | | 92 | Aper. | NS | |
| HE | 9.4 | | 155 | " | EW | |
| SN | 9.0 | | 61 | " | NS | |
| SE | 9.0 | | 56 | " | EW | |
| SA | 0.9 | | 2000 | | NS | |
| SF | 1.0 | | 1800 | | EW | |
| SM | 12.0 | | 250 | 20:1 | EW | 44 mm. |

# SEISMOLOGICAL BULLETINS RECEIVED
## May, 1937

International Seismological Centre

We acknowledge, with thanks, the receipt of the following seismological publications and bulletins:-

| STATIONS | BULLETINS | RECEIVED |
|---|---|---|
| Taihoku | March, 1937 | May 1 |
| Nagoya | January to July, 1936 | " 3 |
| Helwan | March, 1937 | " 4 |
| Manila | February, 1937 | " 4 |
| Rome | April 2 - 15th, 1937 | " 6 |
| La Plata | February and March, 1937 | " 8 |
| Chiufeng | March, 1937 | " 11 |
| Riverview | March, 1937 | " 13 |
| Santa Clara | December, 1936 and January, 1937 | " 14 |
| Batavia | July to September, 1936 | " 15 |
| New Zealand Stations | February, 1937 | " 15 |
| Bureau Central) | | |
| Paris ) | March, 1937 | " 18 |
| Strasbourg ) | | |
| Tananarive | August and September, 1937 | " 20 |
| Bucarest | April, 1937 | " 20 |
| Rome | April 16 - 29th, 1937 | " 20 |
| Saint Louis and Auxiliary Stations | Preliminaries for March 9, 14th, 25th, and April 16, 1937 | " 20 |
| Zurich | March and April, 1937 | " 20 |
| Cartuja | June to September, 1936 | " 21 |
| Dublin | March and April, 1937 | " 21 |
| Ksara | April, 1937 | " 25 |
| Weston | January and February, 1937 | " 25 |
| Sydney | January to March, 1937 | " 25 |
| Algiers | March and April, 1937 | " 28 |
| Williams College | March, 1937 | " 28 |
| Rome | April 30 to May 13, 1937 | " 29 |
| Richmond | April, 1937 | " 31 |
| Helwan | April, 1937 | " 31 |
| Ithaca | Year 1936 | " 31 |
| Manila | March, 1937 | " 31 |

DOMINION OBSERVATORY
OTTAWA - CANADA.

R. Meldrum Stewart,
Dominion Astronomer.

Ernest A. Hodgson,
Seismologist.

W. W. Doxsee,
Assistant Seismologist.

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM May 1, 1937 to May 4, 1937 No. 16

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 97 | e | 12 44.2 | | | |
| May | eL | 12 50 | | | |
| 1 | F | 13 23 | | | |
| | | Ottawa | | | |
| 98 | $e_E$ | 15 37.4 | | | |
| May | eL | 15 44 | | | |
| 1 | F | 16 19 | | | |
| | | Saskatoon | | | |
| | e | 15 42 41 | | | |
| | eL | 15 45 | | | |
| | F | 15 51 | | | |
| | | Ottawa | | | |
| 100 | H | 5 08.9 | | 5060 | USCGS. gives |
| May | $P_E$ | 5 17 18 | | | $\phi$ = 59°.5 N. |
| 4 | S | 5 24 06 | | | $\lambda$ = 154° W. |
| | SS | 5 27 26 | | | |
| | eL | 5 32 | | | |
| | F | 7 07 | | | |
| | | Toronto | | | |
| | S | 5 24 04 | | | |
| | SS | 5 27.7 | | | |
| | eL | 5 33 | | | |
| | F | 6 27 | | | |
| | | Victoria | | | |
| | H | 5 08.7 | | 2360 | |
| | P | 5 13 29 | | | |
| | S | 5 17 23 | | | |
| | L | 5 19.5 | | | |
| | F | 6 57 | | | |
| | | Saskatoon | | | |
| | H | 5 08.7 | | 2960 | |
| | P | 5 14 27 | | | |
| | S | 5 19 07 | | | |
| | eL | 5 22 | | | |
| | F | 6 00 | | | |
| | | Shawinigan | | | |
| | e | 5 17 22 | | | |
| | eL | 5 33 | | | |
| | F | 5 51 | | | |
| | | Seven Falls | | | |
| | H | 5 08.9 | | 5180 | |
| | P | 5 17 19 | | | |
| | S | 5 24 14 | | | |
| | SS | 5 27.9 | | | |
| | eL | 5 34 | | | |
| | F | 7 24 | | | |

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM May 4, 1937 to May 16, 1937 No. 17

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 101 May 7 | $e_E$ | 14 27 34 | | | |
| | eL | 14 37 | | | |
| | F | 15 23 | | | |
| | | Toronto | | | |
| | $e_N$ | 14 27.6 | | | |
| | eL | 14 39 | | | |
| | F | 14 42 | | | |
| | | Victoria | | | |
| | H | 14 11.3 | | 2600 | |
| | P | 14 16 23 | | | |
| | S | 14 20 36 | | | |
| | L | 14 23 | | | |
| | F | 15 17 | | | |
| | | Seven Falls | | | |
| | e | 14 27 40 | | | |
| | L | 14 40 | | | |
| | F | 15 18 | | | |
| | | Ottawa | | | |
| 103 May 9 | e | 15 09 03 | | | |
| | eL | 15 23 | | | |
| | F | 17 09 | | | |
| | | Victoria | | | |
| | e | 15 04 08 | | | |
| | eL | 15 11 | | | |
| | F | 16 38 | | | |
| | | Seven Falls | | | |
| | e | 15 09 04 | | | |
| | eL | 15 23 | | | |
| | F | 17 05 | | | |
| | | Ottawa | | | |
| 106 May 13 | e | 9 31.3 | | | |
| | e | 9 33 | | | |
| | eL | 9 38 | | | |
| | F | 10 01 | | | |
| | | Ottawa | | | |
| 108 May 16 | e | 12 08.5 | | | |
| | eL | 12 31 | | | |
| | F | 14 01 | | | |
| | | Toronto | | | |
| | e | 12 08 | | | |
| | e | 12 14.5 | | | |
| | eL | 12 37 | | | |
| | F | 13 33 | | | |
| | | Victoria | | | |
| | e | 12 02 41 | | | |
| | eL | 12 22 | | | |

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM May 16, 1937 to May 28, 1937 No. 18

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Seven Falls | | | |
| 108 | e | 12 04.9 | | | |
| May | e | 12 09.0 | | | |
| 16 | L | 12 40 | | | |
| (Cont'd) | F | 14 05 | | | |
| | | Ottawa | | | |
| 111 | e | 15 40 20 | | | Local - may not be seismic. |
| May | F | 15 40 23 | | | |
| 19 | | | | | |
| | | Ottawa | | | |
| 113 | H | 13 12.6 | | 4530 | USCGS. gives |
| May | P | 13 20 19 | | | $\phi$ = 2°.5 N. |
| 21 | S | 13 26 38 | | | $\lambda$ = 78°.7 W. |
| | $SSS_N$ | 13 30 10 | | | |
| | eL | 13 32 | | | |
| | F | 13 52 | | | |
| | | Victoria | | | |
| | H | 13 12.5 | | 6520 | |
| | $P_E$ | 13 22 25 | | | |
| | S | 13 30 35 | | | |
| | eL | 13 40 | | | |
| | F | 14 02 | | | |
| | | Ottawa | | | |
| 115 | e | 8 31.6 | | | |
| May | eL | 8 39 | | | |
| 23 | F | 9 09 | | | |
| | | Ottawa | | | |
| 118 | H | 0 40.7 | | 5030 | = 45°.3 |
| May | P | 0 49 00 | | | |
| 24 | S | 0 55 46 | | | |
| | SS | 0 59.0 | | | |
| | eL | 1 03 | | | |
| | F | 1 32 | | | |
| | | Toronto | | | |
| | H | 0 40.4 | | 4860 | = 43°.85 |
| | P | 0 48 30 | | | |
| | S | 0 55 07 | | | |
| | eL | 1 02 | | | |
| | F | 1 23 | | | |
| | | Seven Falls | | | |
| | i | 0 56 02 | | | |
| | L | 1 01 | | | |
| | F | 1 35 | | | |
| | | Ottawa | | | |
| 122 | H | (15 36.0) | | (3250) | |
| May | eP ? | 15 42 08 | | | |
| 28 | e | 15 42 44 | | | |
| | eS ? | 15 47 08 | | | |
| | e | 15 48 12 | | | |
| | eL | 15 50.4 | | | |
| | F | 16 38 | | | |

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM May 28, 1937 to to May 31, 1937 No. 19

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 122 | e | 15 41 44 | | | |
| May | e | 15 47 11 | | | |
| 28 | F | 16 21 | | | |
| (Cont'd) | | Victoria | | | |
| | e | 15 49 21 | | | |
| | eL | 15 53 | | | |
| | F | 16 15 | | | |
| | | Seven Falls | | | |
| | e | 15 46 03 | | | |
| | i | 15 47 31 | | | |
| | L | 15 52 | | | |
| | F | 16 44 | | | |
| | | Ottawa | | | |
| 123 | e | 20 18 52 | | | |
| May | e | 20 21 40 | | | |
| 28 | eL ? | 20 25 | | | |
| | F | 21 24 | | | |
| | | Toronto | | | |
| | e | 20 18 52 | | | |
| | eE | 20 27.5 | | | |
| | e | 20 50 | | | |
| | F | 21 10 | | | |
| | | Victoria | | | |
| | e | 20 15.8 | | | |
| | e | 20 27 | | | |
| | e | 20 53 | | | |
| | F | 21 02 | | | |
| | | Seven Falls | | | |
| | e | 20 24.3 | | | |
| | i | 20 27 06 | | | |
| | eL | 20 32 | | | |
| | e | 20 58 | | | |
| | F | 21 38 | | | |
| | | Ottawa | | | |
| 124 | e | 15 57.5 | | | |
| May | e | 15 59 09 | | | |
| 31 | e | 16 09 | | | |
| | eL | 16 26 | | | |
| | F | 17 24 | | | |
| | | Victoria | | | |
| | e | 15 55 | | | |
| | e | 15 57 | | | |
| | e | 16 02 | | | |
| | eL | 16 12 | | | |
| | F | 16 54 | | | |
| | | Seven Falls | | | |
| | e | 16 03 | | | |
| | e | 16 10 | | | |
| | L | 16 31 | | | |
| | F | 17 23 | | | |

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month May, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | | |
| 97 | 1 | 12 44+0 39u | ..... | 13 05+0 12L | ..... | ..... | 12 48+0 16L | ..... | ..... | .. |
| 98 | 1 | 15 37+0 42u | 15 42+0 13L | 15 43+0 24L | 15 43+0 08u | ..... | 15 47+0 21L | ..... | ..... | .. |
| 99 | 2 | 23 11+0 26L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 100 | 4 | 5 17+1 50u | 5 13+1 44r | 5 24+1 03u | 5 14+0 46r | 5 35+0 17L | 5 17+2 07u | 5 17+0 28u | 5 17+0 34u | A |
| 101 | 7 | 14 28+0 55u | 14 16+1 01r | 14 28+0 47u | ..... | ..... | 14 28+0 50u | ..... | ..... | B |
| 102 | 8 | 20 17+0 14L | 20 17+0 10L | ..... | ..... | ..... | 20 22+0 08L | ..... | ..... | .. |
| 103 | 9 | 15 09+2 00u | 15 04+1 34u | ..... | 15 11+0 37L | ..... | 15 09+1 56u | ..... | ..... | .. |
| 104 | 10 | 15 56+0 32L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 105 | 12 | 3 17+1 02u | 3 30+0 23L | ..... | ..... | ..... | 3 39+0 30L | ..... | ..... | .. |
| 106 | 13 | 9 31+0 30r | 9 35+0 17r | ..... | ..... | ..... | 9 40+0 33r | ..... | ..... | .. |
| 107 | 13 | 21 11+0 29L | 21 21+0 12L | 21 19+0 20L | ..... | ..... | ..... | ..... | ..... | .. |
| 108 | 16 | 12 08+1 53u | 12 03+1 14u | 12 08+1 25u | ..... | ..... | 12 05+2 00u | ..... | ..... | .. |
| 109 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | 0 58+0 03P | 0 58+0 03P | .. |
| 110 | 17 | 23 48+0 17L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 111 | 19 | 15 40+0 0.1d | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C |
| 112 | 21 | 2 49+0 26L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 113 | 21 | 13 20+0 32r | 13 22+0 40u | ..... | ..... | ..... | ..... | 13 20+0 08P | 13 20+0 08P | E |
| 114 | 23 | 7 16+0 15L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 115 | 23 | 8 32+0 37u | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 116 | 23 | 11 41+0 09L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 117 | 23 | 18 50+0 15L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 118 | 24 | 0 49+0 43u | 1 06+0 17L | 0 48+0 35r | ..... | ..... | 0 56+0 39u | ..... | ..... | F |
| 119 | 25 | 3 27+0 17L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 120 | 27 | 5 25+0 19L | ..... | ..... | ..... | ..... | 5 16+0 22L | ..... | ..... | .. |
| 121 | 28 | ..... | 9 39+0 10L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 122 | 28 | 15 42+0 57r | 15 49+0 26r | 15 42+0 37r | ..... | ..... | 15 46+0 58r | 15 43+0 16r | 15 42+0 17r | G |
| 123 | 28 | 20 19+1 05u | 20 16+0 46u | 20 19+0 51u | ..... | ..... | 20 24+1 14u | ..... | ..... | .. |
| 124 | 31 | 15 58+1 26u | 15 55+0 59u | 16 29+0 35L | ..... | ..... | 16 03+1 20u | ..... | ..... | .. |

International Seismological Centre

International Seismological Centre

# OTTAWA, CANADA

# SEISMOLOGICAL STATION, DOMINION OBSERVATORY

---

## AUXILIARY STATIONS

### Toronto

$\phi$ = 43°40' N. $\lambda$ = 79°24' W. h = 111 m.

Foundation: sand and clay

Instruments: Milne-Shaw, NS. and EW. components, photographic recording, paper speed of 8 mm. per min., mass 1 lb., period 12 secs., magnetic damping 20:1, and magnification 150 fold.

### Victoria

$\phi$ = 48°25' N, $\lambda$ = 123°19' W. h = 68 m.

Foundation: rock

Instruments: Milne-Shaw, NS. and EW. components, photographic recording, paper speed of 8 mm. per min., mass 1 lb., period 12 secs., magnetic damping 20:1, and magnification 250 fold.

Wiechert Vertical not operating.

International Seismological Centre

# CORRELATION OF EARTHQUAKES

May, 1937.

## N O T E S

| | | | |
|---|---|---|---|
| A : | Ottawa | Δ = 5,060 km. | H = $5^h08^m.9$ G, M. T. |
| | Victoria | Δ = 2,360 km. | H = 5 08.7 G. M. T. |
| | Saskatoon | Δ = 2,960 km. | H = 5 08.7 G. M. T. |
| | Seven Falls | Δ = 5,180 km. | H = 5 08.9 G. M. T. |
| B : | Victoria | Δ = 2,600 km. | H = $14^h11^m.3$ G. M. T. |
| C : | May not be seismic. | | |
| E : | Ottawa | Δ = 4,530 km. | H = $13^h12^m.6$ G. M. T. |
| | Victoria | Δ = 6,520 km. | H = 13 12.5 G. M. T. |
| F : | Ottawa | Δ = 5,030 km. | H = $0^h40^m.7$ G. M. T. |
| | Toronto | Δ = 4,860 km. | H = 0 40.4 G. M. T. |
| G : | Ottawa | Δ = (3,250) km. | H = ($15^h36^m.0$) G. M. T. |

Dominion Observatory,
Ottawa, Canada,
July 6, 1937.

# SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM June 1, 1937 to June 13, 1937 No. 20

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 126 June 2 | e | 21 17.2 | | | |
| | e | 21 19.8 | | | |
| | eL | 21 22 | | | |
| | F | 21 57 | | | |
| | | Ottawa | | | |
| 128 June 8 | H | 22 29.9 | | 3250 | USCGS. gives |
| | P | 22 35 58 | | | $\phi$ = 16°.2 N. |
| | S | 22 40 58 | | | $\lambda$ = 92°.4 W. |
| | SSN | 22 42 16 | | | |
| | L | 22 43.3 | | | |
| | F | 23 51 | | | |
| | | Toronto | | | |
| | H | 22 29.8 | | 3020 | |
| | P | 22 35 33 | | | |
| | PPN | 22 36 16 | | | |
| | S | 22 40 18 | | | |
| | SS | 22 41 30 | | | |
| | L | 22 43 | | | |
| | F | 23 34 | | | |
| | | Victoria | | | |
| | H | 22 29.9 | | 4135 | |
| | P | 22 37 08 | | | |
| | S | 22 43 04 | | | |
| | L | 22 46.5 | | | |
| | F | 23 35 | | | |
| | | Saskatoon | | | |
| | H | 22 29.8 | | 3800 | |
| | P | 22 36 35 | | | |
| | PPPN | 22 38.1 | | | |
| | S | 22 42 10 | | | |
| | L | 22 46.5 | | | |
| | F | 22 53 | | | |
| | | Shawinigan | | | |
| | H | 22 29.7 | | 3650 | |
| | P | 22 36 16 | | | |
| | S | 22 41 41 | | | |
| | L | 22 44 | | | |
| | F | 22 52 | | | |
| | | Seven Falls | | | |
| | H | (22 29.8) | | 3680 | |
| | P | (22 36 29) | | | |
| | PPP | (22 38 00) | | | |
| | S | (22 41 56) | | | |
| | SS | (22 44 19) | | | |
| | F | (23 56) | | | |
| | | Ottawa | | | |
| 131 June 13 | H | 23 23.9 | | 3900 | |
| | P | 23 30 48 | | | |
| | S | 23 36 29 | | | |
| | L | 23 43 | | | |
| | F | 0 54 | | | |

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

FROM June 13, 1937 to June 21, 1937 No. 21

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 131 June 13 (Cont'd) | H | 23 23.9 | | 3520 | |
| | P | 23 30 22 | | | |
| | S | 23 35 39 | | | |
| | L | 23 41 | | | |
| | F | 0 31 | | | |
| | | Victoria | | | |
| | H | 23 23.9 | | 4180 | |
| | P | 23 31 13 | | | |
| | PP | 23 32 48 | | | |
| | S | 23 37 12 | | | |
| | L | 23 43 | | | |
| | F | 0 29 | | | |
| | | Saskatoon | | | |
| | e | 23 29 57 | | | |
| | L | 23 42 | | | |
| | F | 0 16 | | | |
| | | Shawinigan | | | |
| | H | 23 23.9 | | 4100 | |
| | P | 23 31 08 | | | |
| | S | 23 37 02 | | | |
| | L | 23 46 | | | |
| | F | 0 02 | | | |
| | | Seven Falls | | | |
| | H | (23 23.9) | | 3950 | |
| | P | (23 30 55) | | | |
| | PP | (23 31 57) | | | |
| | S | (23 36 39) | | | |
| | L | (23 47) | | | |
| | F | ( 0 52) | | | |
| | | Seven Falls | | | |
| 132 June 14 | e | (13 01) | | | |
| | e | (13 09) | | | |
| | L | (13 32) | | | |
| | F | (15 36) | | | |
| | | Ottawa | | | |
| 137 June 19 | $e_E$ | 17 31 | | | |
| | $e_N$ | 17 33.6 | | | |
| | $e_N$ | 17 37.7 | | | |
| | L | 17 51 | | | |
| | F | 18 33 | | | |
| | | Ottawa | | | |
| 138 June 21 | H | 15 13.2 | | 5800 | USCGS. gives $\phi$ = 7°.8 S. $\lambda$ = 80°.0 W. |
| | iP | 15 22 22 | | | |
| | PP | 15 24 26 | | | |
| | iS | 15 29 52 | | | |
| | $S_N$ | 15 34.0 | | | |
| | $e_E$ | 15 36.1 | | | |
| | L | 15 40 | | | |
| | F | 20 15 | | | |

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

International Seismological Centre

FROM June 21, 1937 to June 24, 1937 No. 22

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Victoria | | | |
| 138 | H | 15 13.1 | | 7550 | |
| June | P | 15 24 04 | | | |
| 21 | S | 15 33 08 | | | |
| (Cont'd) | SS | 15 38.3 | | | |
| | L | 15 47 | | | |
| | F | 19 22 | | | |
| | | Saskatoon | | | |
| | H | (15 13) | | 7100 | |
| | P | (15 23.5 | | | |
| | S | (15 32.2) | | | |
| | L | (15 41) | | | |
| | F | (16 40) | | | |
| | | Shawinigan | | | |
| | H | 15 13.2 | | 6010 | |
| | P | 15 22 33 | | | |
| | S | 15 30 14 | | | |
| | L | 15 39 | | | |
| | F | 16 24 | | | |
| | | Seven Falls | | | |
| | H | (15 13.2) | | 6080 | |
| | P | (15 22 37) | | | |
| | S | (15 30 22) | | | |
| | L | (15 38) | | | |
| | F | (20 06) | | | |
| | | Ottawa | | | |
| 142 | H | 13 13.7 | | 4020 | USCGS. gives |
| June | P | 13 20 47 | | | $\phi$ = 8° N. |
| 24 | PP | 13 21 49 | | | $\lambda$ = 84° W. |
| | S | 13 26 38 | | | |
| | SS | 13 29.4 | | | |
| | F | 14 46 | | | |
| | | Toronto | | | |
| | H | 13 13.7 | | 3760 | |
| | P | 13 20 28 | | | |
| | S | 13 26 00 | | | |
| | SSE | 13 29.1 | | | |
| | F | 14 47 | | | |
| | | Victoria | | | |
| | H | 13 13.6 | | 5790 | |
| | P | 13 22 42 | | | |
| | S | 13 30 11 | | | |
| | L | 13 38 | | | |
| | F | 15 45 | | | |

OTTAWA, CANADA

SEISMOLOGICAL STATION, DOMINION OBSERVATORY

International Seismological Centre

FROM June 24, 1937 to June 30, 1937 No. 23

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Seven Falls | | | |
| 142 | H | (13 13.7) | | 4360 | |
| June | P | (13 21 12) | | | |
| 24 | S | (13 27 22) | | | |
| (Cont'd) | SSS | (13 30.4) | | | |
| | L | (13 33) | | | |
| | F | (14 47) | | | |
| | | Ottawa | | | |
| 143 | H | 20 00.0 | | 3465 | USCGS. gives: |
| June | P | 20 06 26 | | | $\phi$ = 36° N. |
| 24 | PP | 20 07 17 | | | $\lambda$ = 36° W. |
| | S | 20 11 40 | | | |
| | L | 20 15 | | | |
| | F | 21 21 | | | |
| | | Toronto | | | |
| | H | 20 00.0 | | 3790 | |
| | P | 20 06 47 | | | |
| | PPP | 20 08 13 | | | |
| | S | 20 12 21 | | | |
| | L | 20 16 | | | |
| | F | 21 10 | | | |
| | | Victoria | | | |
| | H | 20 00.0 | | 7140 | |
| | P | 20 10 29 | | | |
| | PPP | 20 14 15 | | | |
| | S | 20 19 14 | | | |
| | L | 20 31 | | | |
| | F | 21 22 | | | |
| | | Seven Falls | | | |
| | H | (20 00.0) | | 3200 | |
| | P | (20 05 59) | | | |
| | S | (20 10 56) | | | |
| | SS | (20 12.4) | | | |
| | L | (20 14) | | | |
| | F | (21 20) | | | |

W. W. Doxsee

International Seismological Centre

# EARTHQUAKE CORRELATION TABLE

Month June, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | | |
| 125 | 2 | 1 36+0 11L | ..... | ..... | ..... | ..... | 1 34+0 12L | ..... | ..... | .. |
| 126 | 2 | 21 17+0 40u | 21 19+0 13L | **21 22+0 21L** | ..... | ..... | 21 17+0 23u | 21 28+0 08L | 21 25+0 07L | .. |
| 127 | 5 | 15 22+0 18L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 128 | 8 | 22 36+1 15r | 22 37+0 58r | 22 36+0 58r | 22 37+0 16r | ..... | 22 36+1 20r | 22 36+0 19r | 22 36+0 16r | A |
| 129 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2 57+0 01P | .. |
| 130 | 10 | 15 17+0 29L | ..... | ..... | ..... | ..... | 15 16+0 26L | ..... | ..... | .. |
| 131 | 13 | 23 31+1 23r | 23 31+0 58R | 23 30+0 59r | 23 30+0 46r | ..... | 23 31+1 21r | 23 36+0 28r | 23 31+0 31r | B |
| 132 | 14 | 13 34+2 05u | 13 40+0 49L | 13 46+1 51u | ..... | ..... | 13 01+2 35u | ..... | ..... | .. |
| 133 | 15 | 10 57+0 12L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 134 | 16 | ..... | 0 04+0 08L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 135 | 16 | 19 58+0 15L | ..... | ..... | ..... | ..... | 19 57+0 19L | ..... | ..... | .. |
| 136 | 18 | 9 23+0 13L | 9 11+0 10L | ..... | ..... | ..... | 9 23+0 13L | ..... | ..... | .. |
| 137 | 19 | 17 31+1 02u | ..... | ..... | ..... | ..... | 17 31+1 00u | ..... | ..... | .. |
| 138 | 21 | 15 22+4 53U | 15 24+3 58U | ..... | 15 24+1 16u | ..... | 15 22+4 43U | 15 22+1 16U | 15 22+1 01U | C |
| 139 | 23 | 1 20+0 16L | 1 04+0 14L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 140 | 23 | 7 54+0 12L | ..... | ..... | ..... | ..... | 7 54+0 22L | ..... | ..... | .. |
| 141 | 24 | 3 42+0 27L | 3 41+0 21L | ..... | ..... | ..... | 3 42+0 35L | ..... | ..... | .. |
| 142 | 24 | 13 21+1 25R | 13 20+2 22u | 13 20+1 27R | 13 30+0 12L | ..... | 13 21+1 26R | 13 21+0 24r | 13 21+0 22r | E |
| 143 | 24 | 20 06+1 15r | 20 10+1 12u | 20 07+1 03r | ..... | ..... | 2 06+1 14r | 2 06+0 21r | 20 06+0 15r | F |
| 144 | 28 | 19 49+1 10L | 19 59+0 34L | ..... | ..... | ..... | 19 55+0 53L | ..... | ..... | .. |
| 145 | 29 | 0 58+0 09L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 146 | 30 | 14 57+0 19L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |

# CORRELATION OF EARTHQUAKES

June, 1937.

## N O T E S

| | | | |
|---|---|---|---|
| A : | Ottawa | Δ = 3,250 km. | H = $22^h29^m.9$ G. M. T. |
| | Toronto | Δ = 3,020 km. | H = 22 29.8 G. M. T. |
| | Victoria | Δ = 4,135 km. | H = 22 29.9 G. M. T. |
| | Saskatoon | Δ = 3,800 km. | H = 22 29.8 G. M. T. |
| | Shawinigan Falls | Δ = 3,650 km. | H = 22 29.7 G. M. T. |
| | Seven Falls | Δ = 3,680 km. | H =(22 29.8)G. M. T. |
| B : | Ottawa | Δ = 3,900 km. | H = $23^h23^m.9$ G. M. T. |
| | Toronto | Δ = 3,520 km. | H = 23 23.9 G. M. T. |
| | Victoria | Δ = 4,180 km. | H = 23 23.9 G. M. T. |
| | Shawinigan Falls | Δ = 4,100 km. | H = 23 23.9 G. M. T. |
| | Seven Falls | Δ = 3,950 km. | H =(23 23.9) G.M. T. |
| C : | Ottawa | Δ = 5,800 km. | H = $15^h13^m.2$ G. M. T. |
| | Victoria | Δ = 7,550 km. | H = 15 13.1 G. M. T. |
| | Saskatoon | Δ = 7,100 km. | H =(15 13 ) G. M. T. |
| | Shawinigan Falls | Δ = 6,010 km. | H = 15 13.2 G. M. T. |
| | Seven Falls | Δ = 6,080 km. | H =(15 13.2)G. M. T. |
| E :: | Ottawa | Δ = 4,020 km. | H = $13^h13^m.7$ G. M. T. |
| | Toronto | Δ = 3,760 km. | H = 13 13.7 G. M. T. |
| | Victoria | Δ = 5,790 km. | H = 13 13.6 G. M. T. |
| | Seven Falls | Δ = 4,360 km. | H =(13 13.7)G. M. T. |
| F : | Ottawa | Δ = 3,465 km. | H = $20^h00^m.0$ G. M. T. |
| | Toronto | Δ = 3,790 km. | H = 20 00.0 G. M. T. |
| | Victoria | Δ = 7,140 km. | H = 20 00.0 G. M. T. |
| | Seven Falls | Δ = 3,200 km. | H =(20 00.0)G. M. T. |

Dominion Observatory,
Ottawa, Canada,
August 14, 1937.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

R. Meldrum Stewart, Dominion Astronomer
Ernest A. Hodgson, Seismologist
W. W. Doxsee, Assistant Seismologist.

International Seismological Centre

# S T A T I O N S

## OTTAWA

$\phi$ = 45°23'38" N. $\lambda$ = 75°42'57" W. h = 83 m.
Time correction within 0.25s.
Foundation: boulder clay over limestone
Instruments: Milne-Shaw N and E components, designated 23 and 17, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 1 lb.

Benioff Vertical, short and long period, designated BS and BL, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

## HALIFAX

$\phi$ = 44°38' N. $\lambda$ = 63°36' W. h = 46 m.
Time correction from recorded railroad time signals
Foundation: carbonaceous slate
Instruments: Mainka N and E components, designated HN and HE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

## SHAWINIGAN FALLS

$\phi$ = 46°33'.1 N. $\lambda$ = 72°45'.8 W. h = 60 m. ca.
Time correction from recorded radio time signals
Foundation: solid granite of Canadian Shield
Instruments: Wood-Anderson N component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15 g.

## SASKATOON

$\phi$ = 52°08' N. $\lambda$ = 106°38' W. h = 515 m.
Time correction from radio time signals
Foundation: clay and sand
Instruments: Mainka N and E components, designated SN and SE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

## Toronto

$\phi$ = 43°40' N. $\lambda$ = 79°24' W. h = 111 m.
Time correction from radio time signals
Foundation: sand and clay
Instruments: Milne-Shaw N and E components, designated 18 and 22, respectively, each with photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

International Seismological Centre

## Victoria

$\phi$ = 48°24'49" N. $\lambda$ = 123°19'26" W. h = 67 m.
Time correction from radio time signals
Foundation: rock
Instruments: Milne-Shaw N and E components, designated 21 and 20, respectively, each with photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

Wiechert Vertical, designated WV - not operating.

## Seven Falls

$\phi$ = 47°07'.4 N. $\lambda$ = 70°49'.6 W. h = 232 m. ca.
Time correction from recorded radio time signals
Foundation: solid granite of Canadian Shield
Instruments: Wood-Anderson and Milne-Shaw, both E component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15 g., SM a paper speed of 6 mm. per min. and mass 1 lb.

## DETERMINED CONSTANTS

| INSTRUMENT | $T_o$ | V | $\varepsilon$ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR $10^{-5}$ g. |
|---|---|---|---|---|---|
| 17 | 12.0 | 250 | 20:1 | 44 mm. | |
| 23 | 12.0 | 250 | 20:1 | 44 mm. | |
| BS | | | | | 4.8 mm. |
| BL | | | | | 20.0 mm. |
| HN | 10.3 | 92 | Aper. | | |
| HE | 9.4 | 155 | " | | |
| SA | 1.0 | 2000 | | | |
| 18 | 12.0 | 150 | 20:1 | | |
| 22 | 12.0 | 150 | 20:1 | | |
| 20 | 12.0 | 250 | 20:1 | | |
| 21 | 12.0 | 250 | 20:1 | | |
| WV | | | | | |
| SF | 1.0 | 1800 | | | |
| SM | 12.0 | 250 | 20:1 | 44 mm. | |
| SN | 9.0 | 55 | Aper. | | |
| SE | 9.0 | 50 | " | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

R. Meldrum Stewart, Dominion Astronomer
Ernest A. Hodgson, Seismologist
W. W. Doxsee, Assistant Seismologist.

International Seismological Centre

# S T A T I O N S

## OTTAWA

$\phi$ = 45°23'38" N. $\lambda$ = 75°42'57" W. h = 83 m.
Time correction within 0.25s.
Foundation: boulder clay over limestone
Instruments: Milne-Shaw N and E components, designated 23 and 17, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 1 lb.

Benioff Vertical, short and long period, designated BS and BL, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

## HALIFAX

$\phi$ = 44°38' N. $\lambda$ = 63°36' W. h = 46 m.
Time correction from recorded railroad time signals
Foundation: carbonaceous slate
Instruments: Mainka N and E components, designated HN and HE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

## SHAWINIGAN FALLS

$\phi$ = 46°33'.1 N. $\lambda$ = 72°45'.8 W. h = 60 m. ca.
Time correction from recorded radio time signals
Foundation: solid granite of Canadian Shield
Instruments: Wood-Anderson N component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15 g.

## SASKATOON

$\phi$ = 52°08' N. $\lambda$ = 106°38' W. h = 515 m.
Time correction from radio time signals
Foundation: clay and sand
Instruments: Mainka N and E components, designated SN and SE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

Geophysics

## Toronto

$\phi$ = 43°40' N. $\lambda$ = 79°24' W. h = 111 m.
Time correction from radio time signals
Foundation: sand and clay
Instruments: Milne-Shaw N and E components, designated 18 and 22, respectively, each with photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

International Seismological Centre

## Victoria

$\phi$ = 48°24'49" N. $\lambda$ = 123°19'26" W. h = 67 m.
Time correction from radio time signals
Foundation: rock
Instruments: Milne-Shaw N and E components, designated 21 and 20, respectively, each with photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

Wiechert Vertical, designated WV - not operating.

## Seven Falls

$\phi$ = 47°07!4 N. $\lambda$ = 70°49!6 W. h = 232 m. ca.
Time correction from recorded radio time signals
Foundation: solid granite of Canadian Shield
Instruments: Wood-Anderson and Milne-Shaw, both E component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15 g., SM a paper speed of 6 mm. per min. and mass 1 lb.

## DETERMINED CONSTANTS

| INSTRUMENT | $T_o$ | V | $\varepsilon$ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR $10^{-5}$ g. |
|---|---|---|---|---|---|
| 17 | 12.0 | 250 | 20:1 | 44 mm. | |
| 23 | 12.0 | 250 | 20:1 | 44 mm. | |
| BS | | | | | 4.8 mm. |
| BL | | | | | 20.0 mm. |
| HN | 10.3 | 92 | Aper. | | |
| HE | 9.4 | 155 | " | | |
| SA | 1.0 | 2000 | | | |
| 18 | 12.0 | 150 | 20:1 | | |
| 22 | 12.0 | 150 | 20:1 | | |
| 20 | 12.0 | 250 | 20:1 | | |
| 21 | 12.0 | 250 | 20:1 | | |
| WV | | | | | |
| SF | 1.0 | 1800 | | | |
| SM | 12.0 | 250 | 20:1 | 44 mm. | |
| SN | 9.0 | 55 | Aper. | | |
| SE | 9.0 | 50 | " | | |

Geophysics Library

International Seismological Centre

# CORRELATION OF EARTHQUAKES
July, 1937

N O T E S

| | | | |
|---|---|---|---|
| A : | Victoria | Δ = 9,700 km. | H = $2^h37^m.1$ G.M.T. |
| B : | Ottawa | Δ = 13,100 km.ca. | H = $5^h55^m.5$ G.M.T. |
| | Victoria | Δ = 9,140 km. | H = 5 55.8 G.M.T. |
| | Seven Falls | Δ = 13,300 km.ca. | H = 5 55.5 G.M.T. |
| C : | Ottawa | Δ = 3,930 km. | H = $17^h19^m.6$ G.M.T. |
| | Victoria | Δ = 3,310 km. | H = 17 19.4 G.M.T. |
| E : | Slight shock - felt at Vaudreuil, Quebec. | | |
| F : | Ottawa | Δ = 4,860 km. | H = $19^h35^m.6$ G.M.T. |
| | Toronto | Δ = 4,740 km. | H = 19 35.8 G.M.T. |
| | Victoria | Δ = 6,800 km. | H = 19 35.5 G.M.T. |
| | Seven Falls | Δ = 4,920 km. | H = 19 35.7 G.M.T. |
| | Shawinigan Falls | Δ = 5,100 km. | H = 19 35.5 G.M.T. |
| G : | Ottawa | Δ = 4,590 km. | H = $17^h09^m.6$ G.M.T. |
| | Halifax | Δ = 5,160 km. | H = 17 09.6 G.M.T. |
| | Saskatoon | Δ = 2,650 km. | H = 17 09.5 G.M.T. |
| | Toronto | Δ = 4,500 km. | H = 17 09.7 G.M.T. |
| | Victoria | Δ = 2,300 km. | H = 17 09.5 G.M.T. |
| | Seven Falls | Δ = 4,820 km. | H = 17 09.5 G.M.T. |
| H : | Victoria | Δ = 2,140 km. | H = $13^h13^m.2$ ca.G.M.T. |
| J : | Ottawa | Δ = 3,330 km. | H = $3^h47^m.3$ G.M.T. |
| | Halifax | Δ = 3,900 km. | H = 3 47.4 G.M.T. |
| | Saskatoon | Δ = 3,630 km. | H = 3 47.3 G.M.T. |
| | Toronto | Δ = 2,970 km. | H = 3 47.3 G.M.T. |
| | Victoria | Δ = 3,870 km. | H = 3 47.3 G.M.T. |
| | Seven Falls | Δ = 3,700 km. | H = 3 47.3 G.M.T. |
| | Shawinigan Falls | Δ = 3,550 km. | H = 3 47.3 G.M.T. |

International Seismological Centre

# CORRELATION OF EARTHQUAKES
## July, 1937

## N O T E S

K : Ottawa $\Delta$ = 9,400 km. H = $19^h57^m.0$ G.M.T.
Victoria $\Delta$ = 6,880 km. H = 19 57.0 G.M.T.
Seven Falls $\Delta$ = 10,130 km. H = 19 56.6 G.M.T.

M : Quake felt at Timiskaming, Quebec.

N : Victoria $\Delta$ = 9,550 km. H = $20^h35^m.1$ G.M.T.

Dominion Observatory,
Ottawa, Canada,
September 27, 1937.

DOMINION OBSERVATORY, OTTAWA

FROM July 1, 1937 to July 2, 1937 No. 24

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 147 July 1 | e | 6 13.6 | | | |
| | eL | 6 17 | | | |
| | F | 7 06 | | | |
| | | Seven Falls | | | |
| | e | 6 14.4 | | | |
| | eL | 6 19 | | | |
| | F | 6 57 | | | |
| | | Ottawa | | | |
| 148 July 1 | e | 10 07.3 | | | |
| | L | 10 12 | | | |
| | F | 10 26 | | | |
| | | Ottawa | | | |
| 149 July 1 | $e_N$ | 12 11.1 | | | |
| | i | 12 12 22 | | | |
| | e | 12 28.3 | | | |
| | eL | 12 50 | | | |
| | F | 14 26 | | | |
| | | Victoria | | | |
| | e | 12 09.8 | | | |
| | e | 12 29.5 | | | |
| | eL | 12 47 | | | |
| | F | 14 23 | | | |
| | | Toronto | | | |
| | $e_N$ | 12 12 24 | | | |
| | e | 12 29 | | | |
| | eL | 12 59 | | | |
| | F | 14 11 | | | |
| | | Ottawa | | | |
| 150 July 1 | $e_E$ | 15 06.6 | | | |
| | eL | 15 10 | | | |
| | F | 15 30 | | | |
| | | Seven Falls | | | |
| | e | 15 07 11 | | | |
| | eL | 15 14 | | | |
| | F | 15 30 | | | |
| | | Ottawa | | | |
| 151 July 2 | $e_E$ | 2 57.3 | | | |
| | $e_N$ | 3 04 | | | |
| | $e_E$ | 3 07.0 | | | |
| | e | 3 13.8 | | | |
| | eL | 3 26 | | | |
| | F | 5 26 | | | |
| | | Victoria | | | |
| | H | 2 37.1 | | 9700 | |
| | P | 2 49 52 | | | |
| | S | 3 00 33 | | | |
| | $S_N$ | 3 06.5 | | | |
| | L | 3 13 | | | |
| | F | 5 37 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM July 2, 1937 to July 9, 1937 No. 25

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 151 July 2 (Cont'd) | $e_E$ | 3 03 | | | |
| | $e_N$ | 3 08 | | | |
| | eL | 3 25 | | | |
| | F | 5 24 | | | |
| | | Seven Falls | | | |
| | e | 2 57.3 | | | |
| | e | 3 07.6 | | | |
| | e | 3 15.0 | | | |
| | eL | 3 23 | | | |
| | F | 5 24 | | | |
| | | Ottawa | | | |
| 153 July 4 | H | 5 55.5 | | 13,100 | |
| | PP | 6 15.3 | | | |
| | ScPcS | 6 21.1 | | | |
| | PS | 6 25 14 | | | |
| | SS | 6 31 44 | | | |
| | eL | 6 50 | | | |
| | F | 10 31 | | | |
| | | Victoria | | | |
| | H | 5 55.8 | | 9,140 | |
| | P | 6 08 11 | | | |
| | S | 6 18 28 | | | |
| | SS | 6 24.6 | | | |
| | L | 6 31 | | | |
| | F | 11 46 | | | |
| | | Toronto | | | |
| | e | 6 15 | | | |
| | $e_E$ | 6 25 | | | |
| | e | 6 31.3 | | | |
| | eL | 6 50 | | | |
| | F | 10 23 | | | |
| | | Seven Falls | | | |
| | H | 5 55.5 | | 13,300 | |
| | PP | 6 15.7 | | | |
| | PS | 6 25.7 | | | |
| | SS | 6 32.2 | | | |
| | eL | 6 50 | | | |
| | F | 10 23 | | | |
| | | Ottawa | | | |
| 157 July 9 | e | 17 45 22 | | | |
| | $e_E$ | 17 47.0 | | | |
| | eL | 17 52 | | | |
| | F | 18 11 | | | |
| | | Seven Falls | | | |
| | i | 17 45 41 | | | |
| | eL | 17 52 | | | |
| | F | 18 06 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 9, 1937 to July 16, 1937 No. 26

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 159 July 11 | H | 17 19.6 | | 3930 | |
| | P | 17 26 36 | | | |
| | S | 17 32 19 | | | |
| | SS | 17 34.6 | | | |
| | eL | 17 37.3 | | | |
| | F | 18 39 | | | |
| | | Victoria | | | |
| | H | 7 19.4 | | 3310 | |
| | P | 17 25 35 | | | |
| | S | 17 30 39 | | | |
| | eL | 17 34 | | | |
| | F | 18 54 | | | |
| | | Toronto | | | |
| | S | 17 31 28 | | | |
| | $e_N$ | 17 33.2 | | | |
| | eL | 17 36.5 | | | |
| | F | 18 34 | | | |
| | | Seven Falls | | | |
| | S | 17 33 17 | | | |
| | i | 17 36 14 | | | |
| | L | 17 40 | | | |
| | F | 18 38 | | | |
| | | Ottawa | | | |
| 162 July 14 | e | 22 52 12 | | | |
| | e | 22 59 25 | | | |
| | eL | 23 12 | | | |
| | F | 0 30 | | | |
| | | Victoria | | | |
| | e | 22 36 | | | |
| | e | 22 48.3 | | | |
| | eL | 22 56 | | | |
| | F | 0 13 | | | |
| | | Toronto | | | |
| | e | 22 52 | | | |
| | eL | 23 12 | | | |
| | F | 0 13 | | | |
| | | Seven Falls | | | |
| | e | 22 52 | | | |
| | e | 22 59 | | | |
| | L | 23 16 | | | |
| | F | 0 27 | | | |
| | | Ottawa | | | Felt at Vaudreuil, Quebec |
| 163 July 14 | e | 23 01 42 | | | |
| | L | 23 01 55 | | | |
| | F | 23 04 | | | |
| | | Seven Falls | | | |
| 165 July | e | 10 42 | | | |
| | eL | 11 03 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM July 16, 1937 to July 19, 1937 No. 27

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 167 July 19 | e | 3 26 | | | |
| | e | 3 31.6 | | | |
| | $e_N$ | 3 42.5 | | | |
| | L | 3 46 | | | |
| | F | 4 27 | | | |
| | | Victoria | | | |
| | e | 3 17.3 | | | |
| | eL | 3 28 | | | |
| | F | 4 20 | | | |
| | | Seven Falls | | | |
| | e | 3 24.5 | | | |
| | eL | 3 45 | | | |
| | F | 5 02 | | | |
| | | Ottawa | | | |
| 168 July 19 | $e_N$ | 10 03 | | | |
| | e | 10 09.5 | | | |
| | eL | 10 15 | | | |
| | F | 11 39 | | | |
| | | Seven Falls | | | |
| | e | 10 10 | | | |
| | eL | 10 29 | | | |
| | F | 11 41 | | | |
| | | Ottawa | | | |
| 169 July 19 | H | 19 35.6 | | 4860 | USCGS. gives: |
| | P | 19 43 42 | | | $\phi$ = 0°.0 N. |
| | i | 19 44 22 | | | $\lambda$ = 77° W. |
| | S | 19 46 11 | | | Focal depth = 160 km. ca. |
| | i | 19 50 19 | | | |
| | e | 19 51 36 | | | |
| | $i_N$ | 19 53 21 | | | |
| | L | 19 54 16 | | | |
| | F | 19 56 | | | |
| | | 21 49 | | | |
| | | Victoria | | | |
| | H | 19 35.5 | | 6800 | |
| | P | 19 45 40 | | | |
| | i | 19 46 23 | | | |
| | S | 19 54 06 | | | |
| | L | 20 05 | | | |
| | F | 21 45 | | | |
| | | Toronto | | | |
| | H | 19 35.8 | | 4740 | |
| | P | 19 43.7 | | | |
| | i | 19 44.5 | | | |
| | S | 19 50.2 | | | |
| | i | 19 51.3 | | | |
| | L | 19 56 | | | |
| | F | 21 ca. | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM July 19, 1937 to July 22, 1937 No. 28

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | | | |
| | | Saskatoon | | | |
| 169 | e | 19 46 00 | | | |
| July | e | 19 53 12 | | | |
| 19 | L | 20 00 | | | |
| (Cont'd) | F | 20 26 | | | |
| | | Seven Falls | | | |
| | H | 19 35.7 | | 4920 | |
| | P | 19 43 54 | | | |
| | e | 19 44.6 | | | |
| | S | 19 50 34 | | | |
| | e | 19 51 59 | | | |
| | L | 19 54 | | | |
| | F | 21 44 | | | |
| | | Shawinigan | | | |
| | H | 19 35.5 | | 5100 | |
| | P | 19 43 51 | | | |
| | i | 19 44 32 | | | |
| | S | 19 50 42 | | | |
| | F | 20 04 | | | |
| | | Ottawa | | | |
| 170 | H | 17 09.6 | | 4590 | USCGS. gives: |
| July | P | 17 17 25 | | | $\phi$ = 64°.6 N. |
| 22 | PP | 17 19 06 | | | $\lambda$ = 145°.8 W. |
| | S | 17 23 47 | | | |
| | i | 17 24 21 | | | |
| | SSS | 17 27 04 | | | |
| | L | 17 29.2 | | | |
| | F | 21 33 | | | |
| | | Victoria | | | |
| | H | 17 09.5 | | 2300 | |
| | P | 17 14 11 | | | |
| | S | 17 18 01 | | | |
| | L | 17 23 | | | |
| | F | 21 23 | | | |
| | | Toronto | | | |
| | H | 17 09.7 | | 4500 | |
| | P | 17 17 22 | | | |
| | PP | 17 18 56 | | | |
| | S | 17 23 39 | | | |
| | SSS | 17 26 40 | | | |
| | L | 17 29 | | | |
| | F | 21 19 | | | |
| | | Halifax | | | |
| | H | 17 09.6 | | 5160 | |
| | P | 17 18.1 | | | |
| | PP | 17 20.0 | | | |
| | S | 17 25.0 | | | |
| | SS | 17 28.5 | | | |
| | L | 17 30 | | | |
| | F | 18 50 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM July 22, 1937 to July 24, 1937 No. 29

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Saskatoon | | | |
| 170 July 22 (Cont'd) | H | 17 09.5 | | 2650 | |
| | P | 17 14 40 | | | |
| | S | 17 18 58 | | | |
| | L | 17 21.6 | | | |
| | F | 20 28 | | | |
| | | Seven Falls | | | |
| | H | 17 09.5 | | 4820 | |
| | P | 17 17 29 | | | |
| | PP | 17 19 12 | | | |
| | S | 17 24 04 | | | |
| | SS | 17 26 44 | | | |
| | L | 17 30 | | | |
| | F | 21 33 | | | |
| | | Ottawa | | | |
| 171 July 22 and 23 | e | 0 02.7 | | | |
| | e | 0 10.0 | | | |
| | L | 0 15.2 | | | |
| | F | 0 50 | | | |
| | | Victoria | | | |
| | e | 23 51 | | | |
| | L | 0 01 | | | |
| | F | 0 28 | | | |
| | | Seven Falls | | | |
| | e | 0 10.7 | | | |
| | L | 0 14.4 | | | |
| | F | 0 50 | | | |
| | | Ottawa | | | |
| 173 July 23 | e | 7 25.3 | | | |
| | L | 7 29 | | | |
| | F | 8 10 | | | |
| | | Victoria | | | |
| | e | 7 14 | | | |
| | L | 7 18 | | | |
| | F | 7 51 | | | |
| | | Seven Falls | | | |
| | e | 7 25.7 | | | |
| | L | 7 37 | | | |
| | F | 8 16 | | | |
| | | Ottawa | | | |
| 175 July 24 | e | 9 19.3 | | | |
| | L | 9 23 | | | |
| | F | 9 48 | | | |
| | | Seven Falls | | | |
| | e | 9 19.6 | | | |
| | L | 9 24 | | | |
| | F | 9 55 | | | |

DOMINION OBSERVATORY, OTTAWA

FROM July 24, 1937 to July 26, 1937 No. 30

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 176 | e | 16 26 | | | |
| July | L | 16 28.7 | | | |
| 24 | F | 16 50 | | | |
| | | Ottawa | | | |
| 178 | e | 13 21 12 | | | |
| July | $e_N$ | 13 27 44 | | | |
| 25 | L | 13 34 | | | |
| | F | 14 20+ | | | |
| | | Victoria | | | |
| | H | 13 13.2 | | 2140 | |
| | P | 13 17.6 | | | |
| | S | 13 21.2 | | | |
| | L | 13 23.2 | | | |
| | F | 14 50 | | | |
| | | Toronto | | | |
| | e | 13 27.5 | | | |
| | L | 13 36 | | | |
| | F | 14 21 | | | |
| | | Saskatoon | | | |
| | e | 13 18.3 | | | |
| | e | 13 22.6 | | | |
| | L | 13 26 | | | |
| | F | 13 47 | | | |
| | | Ottawa | | | |
| 179 | H | 3 47.3 | | | |
| July | P | 3 53 30 | | 3330 | USCGS. gives: |
| 26 | i | 3 53 54 | | | $\phi$ = 18°33' N. |
| | PPP | 3 54 35 | | | $\lambda$ = 95°44' W. |
| | S | 3 58 35 | | | |
| | i | 3 58 50 | | | |
| | i | 4 01 12 | | | |
| | L | 4 02.2 | | | |
| | F | 6 50 | | | |
| | | Victoria | | | |
| | H | 3 47.3 | | 3870 | |
| | P | 3 54 12 | | | |
| | S | 3 59 51 | | | |
| | L | 4 04 | | | |
| | F | 7 17 | | | |
| | | Toronto | | | |
| | H | 3 47.3 | | 2970 | |
| | P | 3 53 03 | | | |
| | i | 3 53 29 | | | |
| | S | 3 57 41 | | | |
| | L | 4 02 | | | |
| | F | 6 21 | | | |
| | | Saskatoon | | | |
| | H | 3 47.3 | | 3630 | |
| | P | 3 53 54 | | | |
| | S | 3 59 18 | | | |
| | L | 4 06 | | | |
| | F | 4 54 | | | |

International Seismological Centre

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 26, 1937 to July 26, 1937 No. 31

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Halifax | | | |
| 179 July 26 (Cont'd) | H | 3 47.4 | | 3900 | |
| | P | 3 54 21 | | | |
| | PPP | 3 55 46 | | | |
| | iS | 4 00 02 | | | |
| | L | 4 03 | | | |
| | F | 5 00 ca. | | | |
| | | Shawinigan | | | |
| | H | 3 47.3 | | 3550 | |
| | P | 3 53 51 | | | |
| | PP | 3 54 44 | | | |
| | S | 3 59 10 | | | |
| | SS | 4 01 02 | | | |
| | L | 4 04 | | | |
| | F | 4 41 | | | |
| | | Seven Falls | | | |
| | H | 3 47.3 | | 3700 | |
| | P | 3 53 57 | | | |
| | e | 3 55 07 | | | |
| | S | 3 59 26 | | | |
| | F | 4 37 | | | |
| | | Ottawa | | | |
| 180 July 26 | eN | 8 30.5 | | | |
| | e | 8 40 36 | | | |
| | L | 8 57 | | | |
| | F | 9 25 | | | |
| | | Seven Falls | | | |
| | e | 8 41.5 | | | |
| | L | 8 57 | | | |
| | F | 9 26 | | | |
| | | Ottawa | | | |
| 181 July 26 | H | 19 57.0 | | 9400 | USCGS, gives: |
| | P | 20 09 33 | | | $\phi$ = 40° N. |
| | PP | 20 13 12 | | | $\lambda$ = 141° E. |
| | S | 20 20 02 | | | |
| | SS | 20 25.7 | | | |
| | L | 20 37 | | | |
| | F | 22 20 | | | |
| | | Victoria | | | |
| | H | 19 57.0 | | 6880 | |
| | P | 20 07 17 | | | |
| | S | 20 15 48 | | | |
| | L | 20 24 | | | |
| | F | 22 25 | | | |
| | | Toronto | | | |
| | i | 20 20 00 | | | |
| | e | 20 26 | | | |
| | L | 20 41 | | | |
| | F | 21 57 | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM July 26, 1937 to July 31, 1937 No. 32

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Seven Falls | | | |
| | H | 19 56.6 | | 10,130 | |
| | P | 20 09.5 | | | |
| | S | 20 20.5 | | | |
| | L | 20 35 | | | |
| | F | 22 36 | | | |
| | | Ottawa | | | |
| 182 | e | 0 18.4 | | | Slight shock felt at |
| July | F | 0 20 | | | Timiskaming, Quebec. |
| 28 | | | | | |
| | | Ottawa | | | |
| 186 | i | 1 47 37 | | | |
| July | L | 1 48 00 | | | |
| 31 | F | 1 49 | | | |
| | | Ottawa | | | |
| 188 | e | 21 00.1 | | | |
| July | L | 21 19 | | | |
| 31 | F | 23 00 | | | |
| | | Victoria | | | |
| | H | 20 35.1 | | 9550 | |
| | P | 20 47.7 | | | |
| | S | 20 58.3 | | | |
| | L | 21 12 | | | |
| | F | 22 40 | | | |
| | | Toronto | | | |
| | e | 21 00.1 | | | |
| | L | 21 20 | | | |
| | F | 22 31 | | | |
| | | Shawinigan | | | |
| | e | 21 00 | | | |
| | L | 21 35 | | | |
| | F | 21 48 | | | |
| | | Seven Falls | | | |
| | e | 21 00 | | | |
| | L | 21 19 | | | |
| | F | 23 03 | | | |

W. W. Doyle

International Seismological Centre

# EARTHQUAKE CORRELATION TABLE

Month July, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | | |
| 147 | 1 | 6 14+0 52r | 6 12+0 24L | 6 17+0 28L | ..... | ..... | 6 14+0 42r | ..... | ..... | .. |
| 148 | 1 | 10 07+0 19u | ..... | 10 15+0 04L | ..... | ..... | 10 10+0 16L | ..... | ..... | .. |
| 149 | 1 | 12 11+2 15u | 12 10+2 13u | 12 12+1 59u | ..... | ..... | 12 11+2 27u | ..... | ..... | .. |
| 150 | 1 | 15 07+0 23u | ..... | 15 10+0 13L | ..... | ..... | 15 07+0 22u | ..... | ..... | .. |
| 151 | 2 | 2 57+2 29U | 2 50+2 47U | 3 03+2 21U | ..... | ..... | 2 57+2 27U | 3 40+0 07L | ..... | A |
| 152 | 3 | 2 21+0 10L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 153 | 4 | 6 15+4 16U | 6 08+5 38U | 6 15+4 08U | ..... | ..... | 6 16+4 07U | 6 53+0 14L | 6 59+0 09L | B |
| 154 | 5 | 1 54+0 26r | 1 51+0 14L | ..... | ..... | ..... | 1 54+0 28r | 1 59+0 06L | ..... | .. |
| 155 | 8 | 13 15+0 28L | 13 19+0 22L | ..... | ..... | ..... | 13 16+0 18L | ..... | ..... | .. |
| 156 | 8 | ..... | ..... | ..... | ..... | ..... | 23 50+0 13L | ..... | ..... | .. |
| 157 | 9 | 17 45+0 26u | ..... | ..... | ..... | ..... | 17 46+0 20u | ..... | 17 38+0 03P | .. |
| 158 | 11 | 14 15+0 40L | 14 00+1 16L | ..... | ..... | ..... | 14 24+0 24L | ..... | ..... | .. |
| 159 | 11 | 17 27+1 12R | 17 26+1 28R | 17 31+1 03R | 17 36+0 18L | ..... | 17 33+1 05R | ..... | 17 32+0 25L | C |
| 160 | 12 | 1 09+0 30L | 1 06+0 28L | ..... | ..... | ..... | 1 15+0 21L | ..... | ..... | .. |
| 161 | 14 | 4 31+0 20L | ..... | ..... | ..... | ..... | 4 37+0 17L | ..... | ..... | .. |
| 162 | 14 | 22 52+1 38u | 22 36+1 37u | 22 52+1 21u | ..... | ..... | 22 52+1 35u | ..... | ..... | .. |
| 163 | 14 | 23 02+0 02v | ..... | ..... | ..... | ..... | ..... | ..... | ..... | E |
| 164 | 15 | 3 31+0 17L | ..... | ..... | ..... | ..... | 3 31+0 15L | ..... | ..... | .. |
| 165 | 16 | 11 03+1 03L | ..... | ..... | ..... | ..... | 10 42+1 19u | ..... | ..... | .. |
| 166 | 18 | 1 18+0 24L | ..... | ..... | ..... | ..... | 1 18+0 25L | ..... | ..... | .. |
| 167 | 19 | 3 26+1 01u | 3 17+1 03u | 3 46+0 35L | ..... | ..... | 3 25+1 38u | ..... | ..... | .. |
| 168 | 19 | 10 03+1 36u | 10 27+1 27u | ..... | ..... | ..... | 10 10+1 31u | ..... | ..... | .. |
| 169 | 19 | 19 44+2 05r | 19 46+1 59u | 19 44+1 16r | 19 46+0 40u | ..... | 19 44+2 00r | 19 44+0 27r | 19 44+0 20u | F |
| 170 | 22 | 17 17+4 16R | 17 14+4 09R | 17 17+4 02R | 17 15+3 13R | 17 18+1 32R | 17 17+4 15R | 17 17+1 30R | ..... | G |
| 171 | 23 | 0 03+0 47r | 23 51+0 37r | ..... | 1 04+0 11L | ..... | 0 11+0 40r | 0 15+0 06L | 0 15+0 05L | .. |
| 172 | 23 | 4 59+0 01L | ..... | ..... | ..... | ..... | 4 59+0 03L | ..... | ..... | .. |

International Seismological Centre

# EARTHQUAKE CORRELATION TABLE

Month July, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | | |
| 173 | 23 | 7 25+0 45u | 7 14+0 37u | ..... | ..... | ..... | 7 26+0 50u | ..... | ..... | .. |
| 174 | 24 | 0 14+0 21L | 0 03+0 12L | ..... | 0 07+0 08L | ..... | 0 16+0 20L | 0 16+0 03L | 0 15+0 06L | .. |
| 175 | 24 | 9 19+0 29u | 9 11+0 18L | ..... | 9 12+0 14L | ..... | 9 20+0 35u | 9 24+0 06L | 9 22+0 11L | .. |
| 176 | 24 | 16 26+0 24u | 16 24+0 10L | 16 27+0 07L | ..... | ..... | ..... | ..... | ..... | .. |
| 177 | 25 | 11 52+0 14L | 11 39+0 16L | 11 52+0 06L | 11 39+0 12L | ..... | ..... | 11 52+0 05L | 11 52+0 06L | .. |
| 178 | 25 | 13 21+1 00u | 13 18+1 32r | 13 28+0 53u | 13 18+0 30u | ..... | ..... | 13 36+0 12u | 13 21+0 28u | H |
| 179 | 26 | 3 54+2 56R | 3 54+2 23R | 3 53+2 28R | 3 54+1 00R | 3 54+1 06R | 4 31+2 35R | 3 54+0 43R | 3 54+0 47R | J |
| 180 | 26 | 8 31+0 54u | 8 25+1 13u | ..... | ..... | ..... | 8 43+0 44u | ..... | ..... | .. |
| 181 | 26 | 20 10+2 10u | 20 07+2 18u | 20 20+1 37u | ..... | ..... | 20 10+2 26u | 20 10+0 13u | 20 10+0 06P | K |
| 182 | 28 | 0 18+0 02v | ..... | ..... | ..... | ..... | ..... | ..... | ..... | M |
| 183 | 28 | 9 46+0 14L | 9 34+0 10L | ..... | ..... | ..... | 9 46+1 10L | ..... | ..... | .. |
| 184 | 30 | 14 30+1 33u | 14 27+1 24u | 15 02+0 34L | ..... | ..... | 14 32+1 30u | ..... | ..... | .. |
| 185 | 30 | 18 12+0 17L | 18 01+0 11L | ..... | ..... | ..... | 18 12+0 10L | 18 12+0 03L | 18 12+0 03L | .. |
| 186 | 31 | 1 48+0 01r | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 187 | 31 | ..... | 2 53+0 09r | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 188 | 31 | 21 00+2 00u | 20 48+1 52u | 21 00+1 31u | ..... | ..... | 21 00+2 03u | 21 29+0 20L | 21 00+0 48u | N |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

R. Meldrum Stewart, Dominion Astronomer
Ernest A. Hodgson, Seismologist
W. W. Doxsee, Assistant Seismologist.

International Seismological Centre

# S T A T I O N S

## OTTAWA

$\phi$ = 45°23'38" N. $\lambda$ = 75°42'57" W. h = 83 m.
Time correction within 0.25s.
Foundation: boulder clay over limestone
Instruments: Milne-Shaw N and E components, designated 23 and 17, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 1 lb.

Benioff Vertical, short and long period, designated BS and BL, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

## HALIFAX

$\phi$ = 44°38' N. $\lambda$ = 63°36' W. h = 46 m.
Time correction from recorded railroad time signals
Foundation: carbonaceous slate
Instruments: Mainka N and E components, designated HN and HE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

## SHAWINIGAN FALLS

$\phi$ = 46°33'.1 N. $\lambda$ = 72°45'.8 W. h = 60 m. ca.
Time correction from recorded radio time signals
Foundation: solid granite of Canadian Shield
Instruments: Wood-Anderson N component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15 g.

## SASKATOON

$\phi$ = 52°08' N. $\lambda$ = 106°38' W. h = 515 m.
Time correction from radio time signals
Foundation: clay and sand
Instruments: Mainka N and E components, designated SN and SE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

## Toronto

$\phi$ = 43°40' N. $\lambda$ = 79°24' W. h = 111 m.
Time correction from radio time signals
Foundation: sand and clay
Instruments: Milne-Shaw N and E components, designated 18 and 22, respectively, each with photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

## Victoria

$\phi$ = 48°24'49" N. $\lambda$ = 123°19'26" W. h = 67 m.
Time correction from radio time signals
Foundation: rock
Instruments: Milne-Shaw N and E components, designated 21 and 20, respectively, each with photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

Wiechert Vertical, designated WV - not operating.

## Seven Falls

$\phi$ = 47°07'.4 N. $\lambda$ = 70°49'.6 W. h = 232 m. ca.
Time correction from recorded radio time signals
Foundation: solid granite of Canadian Shield
Instruments: Wood-Anderson and Milne-Shaw, both E component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15 g., SM a paper speed of 6 mm. per min. and mass 1 lb.

## DETERMINED CONSTANTS

| INSTRUMENT | $T_o$ | V | $\epsilon$ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR $10^{-5}$ g. |
|---|---|---|---|---|---|
| 17 | 12.0 | 250 | 20:1 | 44 mm. | |
| 23 | 12.0 | 250 | 20:1 | 44 mm. | |
| BS | | | | | 4.8 mm. |
| BL | | | | | 20.0 mm. |
| HN | | | | | |
| HE | | | | | |
| SA | 1.0 | 2000 | | | |
| 18 | 12.0 | 150 | 20:1 | | |
| 22 | 12.0 | 150 | 20:1 | | |
| 20 | 12.0 | 250 | 20:1 | | |
| 21 | 12.0 | 250 | 20:1 | | |
| WV | | | | | |
| SF | 1.0 | 1800 | | | |
| SM | 12.0 | 250 | 20:1 | 44 mm. | |
| SN | 9.0 | 55 | Aper. | | |
| SE | 9.0 | 50 | " | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM August 1, 1937 to August 5, 1937 No. 33

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 190 Aug. 1 | e | 11 05 22 | | | |
| | $e_E$ | 11 19.0 | | | |
| | $e_L$ | 11 26 | | | |
| | F | 12 42 | | | |
| | | Toronto | | | |
| | e | 11 05 21 | | | |
| | $e_E$ | 11 16 | | | |
| | $e_L$ | 11 26 | | | |
| | F | 12 34 | | | |
| | | Victoria | | | |
| | $e_N$ | 11 03.7 | | | |
| | $e_{LN}$ | 11 17 | | | |
| | F | 12 41 | | | |
| | | Seven Falls | | | |
| | e | 11 21 | | | |
| | $e_L$ | 11 38 | | | |
| | F | 13 04 | | | |
| | | Ottawa | | | |
| 191 Aug. 2 | e | 16 07 | | | |
| | $e_E$ | 16 16 | | | |
| | $e_L$ | 16 24 | | | |
| | F | 17 02 | | | |
| | | Toronto | | | |
| | e | 16 07 | | | |
| | $e_E$ | 16 16 | | | |
| | $e_L$ | 16 23 | | | |
| | F | 16 58 | | | |
| | | Seven Falls | | | |
| | e | 16 21 | | | |
| | $e_L$ | 16 33 | | | |
| | F | 17 05 | | | |
| | | Ottawa | | | |
| 193 Aug. 3 | e | 22 07 | | | |
| | $e_L$ | 22 13 | | | |
| | F | 22 29 | | | |
| | | Ottawa | | | |
| 195 Aug. 4 and 5 | $e_N$ | 23 56.4 | | | |
| | e | 23 13.4 | | | |
| | $e_L$ | 0 31 | | | |
| | F | 1 26 | | | |
| | | Victoria | | | |
| | $e_E$ | 23 55 20 | | | |
| | $e_E$ | 0 11 | | | |
| | $e_{LE}$ | 0 29 | | | |
| | F | 1 15 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM August 5, 1937 to August 11, 1937 No. 34

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Seven Falls | | | |
| 195 Aug. 5 (Cont'd) | e | 0 27 | | | |
| | L | 0 42 | | | |
| | F | 1 27 | | | |
| | | Ottawa | | | |
| 196 Aug. 5 | e | 15 04.4 | | | |
| | e | 15 16.8 | | | |
| | e | 15 21.2 | | | |
| | eL | 15 34 | | | |
| | F | 16 40 | | | |
| | | Victoria | | | |
| | $e_E$ | 14 56 59 | | | |
| | $e_E$ | 15 00.8 | | | |
| | e | 15 07 16 | | | |
| | L | 15 21 | | | |
| | F | 16 36 | | | |
| | | Seven Falls | | | |
| | e | 15 04.2 | | | |
| | e | 15 16.8 | | | |
| | e | 15 22.3 | | | |
| | eL | 15 36 | | | |
| | F | 16 57 | | | |
| | | Victoria | | | |
| 199 Aug. 9 | e | 14 51.1 | | | |
| | e | 15 00.6 | | | |
| | eL | 15 13 | | | |
| | F | 15 48 | | | |
| | | Ottawa | | | |
| 200 Aug. 10 | e | 16 14.8 | | | |
| | $e_N$ | 16 19.3 | | | |
| | eL | 16 25 | | | |
| | F | 16 52 | | | |
| | | Seven Falls | | | |
| | e | 16 15.7 | | | |
| | L | 16 26 | | | |
| | F | 16 45 | | | |
| | | Ottawa | | | |
| 203 Aug. 11 | H | 1 03.7 | | 7100 | |
| | P | 1 14 08 | | | |
| | e | 1 17 24 | | | |
| | $i_N$ | 1 20 14 | | | |
| | $PS_N$ | 1 23 20 | | | |
| | L | 1 34 | | | |
| | F | 3 37 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM August 11, 1937 to August 20, 1927 No. 35

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 203 Aug. 11 (Cont'd) | H | 1 03.9 | | 7030 | |
| | P | 1 14 15 | | | |
| | PP | 1 16 41 | | | |
| | PPP | 1 17 56 | | | |
| | e | 1 20 11 | | | |
| | PS | 1 23 24 | | | |
| | L | 1 35 | | | |
| | F | 3 27 | | | |
| | | Victoria | | | |
| | H | 1 04.3 | | 6880 | |
| | P | 1 14 36 | | | |
| | S | 1 23 07 | | | |
| | SS | 1 27 07 | | | |
| | SSS | 1 29.8 | | | |
| | L | 1 34 | | | |
| | F | 3 50 | | | |
| | | Shawinigan | | | |
| | e | 1 14 00 | | | |
| | e | 1 17 04 | | | |
| | e | 1 23.1 | | | |
| | L | 1 35 | | | |
| | F | 1 59 | | | |
| | | Seven Falls | | | |
| | e | 1 14 06 | | | |
| | e | 1 17 55 | | | |
| | L | 1 35 | | | |
| | F | 3 53 | | | |
| | | Ottawa | | | |
| 209 Aug. 20 | e | 6 57 42 | | | |
| | L | 7 20 | | | |
| | F | 8 36 | | | |
| | | Victoria | | | |
| | e | 6 58.0 | | | |
| | e | 7 21.8 | | | |
| | L | 7 28 | | | |
| | F | 9 47 | | | |
| | | Seven Falls | | | |
| | e | 6 57.4 | | | |
| | L | 7 22 | | | |
| | F | 8 58 | | | |
| | | Ottawa | | | |
| 210 Aug. 20 | e | 12 19 20 | | | |
| | e | 12 29 10 | | | |
| | $e_N$ | 12 31 12 | | | |
| | e | 12 35 36 | | | |
| | $e_N$ | 12 39.8 | | | |
| | e | 12 47.1 | | | |
| | eL | 12 51 | | | |
| | F | 16 27 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM August 20, 1937 to August 24, 1937 NO. 36

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 210 Aug. 20 (Cont'd) | e | 12 19 29 | | | |
| | e | 12 29 18 | | | |
| | e | 12 34.7 | | | |
| | eE | 12 47.0 | | | |
| | eL | 12 49 | | | |
| | F | 16 ca | | | |
| | | Victoria | | | |
| | e | 12 12 46 | | | |
| | e | 12 13 12 | | | |
| | e | 12 23 40 | | | |
| | eN | 12 30 34 | | | |
| | eL | 12 38 | | | |
| | F | 16 45 | | | |
| | | Shawinigan | | | |
| | e | 12 19 21 | | | |
| | e | 12 29 39 | | | |
| | e | 12 35 33 | | | |
| | e | 12 39.3 | | | |
| | L | 12 57 | | | |
| | F | 13 46. | | | |
| | | Seven Falls | | | |
| | e | 12 17 02 | | | |
| | e | 12 19.4 | | | |
| | e | 12 34.9 | | | |
| | i | 12 39 39 | | | |
| | L | 12 51 | | | |
| | F | 16 38 | | | |
| | | Ottawa | | | |
| 211 Aug. 21 | e | 23 33.4 | | | |
| | eL | 23 50 | | | |
| | F | 0 19 | | | |
| | | Toronto | | | |
| 213 Aug. 24 | eE | 18 46.5 | | | |
| | e | 18 52.5 | | | |
| | L | 19 19 | | | |
| | F | 20 22+ | | | |
| | | Victoria | | | |
| | H | 18 21.9 | | 8680 | |
| | P | 18 40 10 | | | |
| | S | 18 50 07 | | | |
| | L | 19 06 | | | |
| | F | 20 21+ | | | |
| | | Seven Falls | | | |
| | e | 18 54.1 | | | |
| | L | 19 20 | | | |
| | F | 20 28+ | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM August 24, 1937 to August 31, 1937 No. 37

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 214 Aug. 24 | H | 20 13.5 | | 4550 | |
| | PN | 20 21 16 | | | |
| | PP | 20 22.8 | | | |
| | S | 20 27.6 | | | |
| | SS | 20 30.5 | | | |
| | L | 20 34 | | | |
| | F | 21 18 | | | |
| | | Toronto | | | |
| | PP | 20 22 37 | | | |
| | S | 20 27 00 | | | |
| | L | 20 33 | | | |
| | F | 21 10 | | | |
| | | Victoria | | | |
| | H | 20 13.5 | | 5750 | |
| | P | 20 22 38 | | | |
| | S | 20 30 05 | | | |
| | L | 20 38 | | | |
| | F | 21 32 | | | |
| | | Seven Falls | | | |
| | e | 20 21.6 | | | |
| | i | 20 28 20 | | | |
| | L | 20 32 | | | |
| | F | 21 30 | | | |
| | | Victoria | | | |
| 216 Aug. 26 | e | 19 15.8 | | | |
| | L | 19 27 | | | |
| | F | 20 36 | | | |
| | | Ottawa | | | |
| 219 Aug. 31 | e | 14 49 | | | |
| | E | 15 04 | | | |
| | L | 16 03 | | | |
| | F | | | | |
| | | Toronto | | | |
| | e | 14 41.8 | | | |
| | eL | 15 04 | | | |
| | F | 16 10 | | | |
| | | Victoria | | | |
| | e | 14 39 22 | | | |
| | eL | 14 59 | | | |
| | F | 16 22 | | | |
| | | Seven Falls | | | |
| | e | 14 41.2 | | | |
| | L | 15 07 | | | |
| | F | 16 12 | | | |

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE
Month August, 1937.

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | |
| 189 | 1 | 10 25+0 09L | 10 20+0 07L | 10 24+0 06L | ..... | ..... | ..... | ..... | ..... |
| 190 | 1 | 11 05+1 37u | 11 04+1 37u | 11 05+1 29u | 11 25+0 32L | ..... | 11 21+1 43u | ..... | ..... |
| 191 | 2 | 16 07+0 55u | ..... | 16 07+0 51u | ..... | ..... | 16 21+0 44u | ..... | ..... |
| 192 | 3 | 3 55+0 06L | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 193 | 3 | 22 07+0 22u | ..... | ..... | ..... | ..... | 22 29+0 11L | ..... | ..... |
| 194 | 4 | 8 50+0 07L | ..... | ..... | ..... | ..... | 9 06+0 04L | ..... | ..... |
| 195 | 4 | 23 56+1 30u | 23 55+1 19u | ..... | ..... | ..... | 0 27+1 00u | ..... | ..... |
| 196 | 5 | 15 04+1 36u | 14 57+1 39u | ..... | ..... | ..... | 15 04+1 53u | ..... | ..... |
| 197 | 6 | ..... | 6 14+0 27L | ..... | ..... | ..... | ..... | ..... | ..... |
| 198 | 9 | 0 45+0 10L | ..... | ..... | ..... | ..... | 0 46+0 07L | ..... | ..... |
| 199 | 9 | 14 56+0 16L | 14 51+0 57u | ..... | ..... | ..... | 15 29+0 33L | ..... | ..... |
| 200 | 10 | 16 15+0 37u | ..... | ..... | ..... | ..... | 16 16+0 30u | ..... | ..... |
| 201 | 10 | 20 00+0 11L | 19 59+0 12L | ..... | ..... | ..... | ..... | ..... | ..... |
| 202 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | 22 43+0 02P | 22 44+0 02P |
| 203 | 11 | 1 14+2 23u | 1 15+2 35u | 1 14+2 13u | ..... | ..... | 1 14+2 39u | 1 14+0 30u | 1 14+0 45u |
| 204 | 12 | 0 47+0 29L | ..... | ..... | ..... | ..... | 0 50+0 23L | ..... | ..... |
| 205 | 15 | 0 26+0 13L | 0 16+0 23L | ..... | ..... | ..... | 0 27+0 12L | 0 26+0 05L | 0 27+0 07L |
| 206 | 15 | 5 22+0 32L | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 207 | 17 | 13 56+0 30L | 13 30+0 48L | ..... | ..... | ..... | 13 41+0 56L | ..... | ..... |
| 208 | 17 | 20 39+0 13L | 20 28+0 13L | ..... | ..... | ..... | 20 39+0 12L | 20 39+0 06L | 20 38+0 05L |
| 209 | 20 | 6 58+1 38u | 6 58+2 49u | ..... | ..... | ..... | 6 58+2 01u | ..... | 6 58+0 01P |
| 210 | 20 | 12 19+4 08U | 12 13+4 32U | 12 19+3 40U | 12 26+1 17L | ..... | 12 17+4 21U | 12 19+1 21U | 12 19+1 27U |
| 211 | 21 | 23 33+0 56u | 23 22+0 48u | ..... | ..... | ..... | 23 49+0 36L | ..... | ..... |
| 212 | 23 | ..... | ..... | ..... | ..... | ..... | 17 39+0 36L | ..... | ..... |
| 213 | 24 | 19 17+1 06L | 18 40+1 41u | 18 46+1 36u | ..... | ..... | 18 54+1 34u | ..... | ..... |
| 214 | 24 | 20 21+0 57r | 20 23+1 10u | 20 23+0 43r | ..... | ..... | 20 28+1 08r | 20 21+0 15r | 20 21+0 03P |
| 215 | 25 | ..... | 12 19+0 06L | ..... | ..... | ..... | ..... | ..... | ..... |
| 216 | 26 | 19 39+0 38L | 19 16+1 20u | 19 41+0 38L | ..... | ..... | 19 31+1 15L | ..... | ..... |
| 217 | 27 | 0 22+0 12L | 0 06+0 20L | 0 21+0 07L | ..... | ..... | 0 25+0 08L | ..... | ..... |
| 218 | 31 | 3 26+0 36L | 3 05+0 44L | ..... | ..... | ..... | 3 30+0 45L | ..... | ..... |
| 219 | 31 | 14 49+1 14u | 14 39+1 43u | 14 42+1 28u | ..... | ..... | 14 40+1 31u | ..... | ..... |

International Seismological Centre

International Seismological Centre

# CORRELATION OF EARTHQUAKES
## August, 1937

## N O T E S

A : Ottawa $\Delta$ = 7,100 km. H = $1^h03^m.7$ G. M. T.
Victoria $\Delta$ = 6,880 km. H = 1 04.3 G. M. T.
Toronto $\Delta$ = 7,030 km. H = 1 03.9 G. M. T.

B : Victoria $\Delta$ = 8,680 km. H = $18^h21^m.9$ G. M. T.

C : Ottawa $\Delta$ = 4,550 km. H = $20^h13^m.5$ G. M. T.
Victoria $\Delta$ = 5,750 km. H = 20 13.5 G. M. T.

E : Halifax station inoperative during the month of August - pending installation of new equipment.

Dominion Observatory,
Ottawa, Canada,
November 2, 1937.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM September 1, 1937 to September 1, 1937 No. 38

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 220 Sept. 1 | H | 8 38.5 | | 13,800 | USCGS. gives: |
| | PP | 8 59 08 | | | ϕ = 31°.5 S. |
| | SKS | 9 04.5 | | | λ = 179° W. |
| | SKKS | 9 06 00 | | | |
| | S | 9 07.2 | | | |
| | PS | 9 09 20 | | | |
| | SS | 9 15 40 | | | |
| | L | 9 32 | | | |
| | F | 11 11 | | | |
| | | Victoria | | | |
| | H | 8 39 | | 10,380 | |
| | P | 8 52 13 | | | |
| | SKS | 9 02 27 | | | |
| | S | 9 03 23 | | | |
| | L | 9 22 | | | |
| | F | 11 36 | | | |
| | | Toronto | | | |
| | H | 8 38.7 | | 13,200 | |
| | PP | 8 58 46 | | | |
| | SKS | 9 04.3 | | | |
| | SKKS | 9 05 37 | | | |
| | PS | 9 08 37 | | | |
| | SS | 9 15 22 | | | |
| | L | 9 30 | | | |
| | F | 11 13 | | | |
| | | Seven Falls | | | |
| | e | 8 59.3 | | | |
| | e | 9 04 35 | | | |
| | e | 9 06 19 | | | |
| | e | 9 08.9 | | | |
| | e | 9 16.5 | | | |
| | L | 9 36 | | | |
| | F | 11 26 | | | |
| | | Ottawa | | | |
| 221 Sept. 1 | e | 17 32.0 | | | |
| | e | 17 38.8 | | | |
| | F | 17 56 | | | |
| | | Ottawa | | | |
| 222 Sept. 1 | e | 22 07.3 | | | |
| | e | 22 11.4 | | | |
| | L | 22 36 | | | |
| | F | 23 29 | | | |
| | | Victoria | | | |
| | e | 22 05 | | | |
| | L | 22 26 | | | |
| | F | 23 05 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM September 1, 1937 to September 4, 1937 No. 39

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 223 Sept. 3 | H | 18 48.5 | | 6,500 | USCGS. gives:- |
| | P | 18 58 26 | | | ϕ = 52°.5 N. |
| | S | 19 06 35 | | | λ = 177°.5 W. |
| | SS | 19 10 42 | | | Felt at sea by S. S. |
| | L | 19 14 | | | Bencleuch, Hide Maru, |
| | F | 22 33 | | | and Kingsbury within |
| | | Victoria | | | latitude range of 49°-51° |
| | H | 18 48.5 | | 3,480 | N. and longitude range of |
| | P | 18 54 54 | | | 168° to 177° W. |
| | PPP | 18 56 17 | | | |
| | S | 19 00 09 | | | |
| | L | 19 03.8 | | | |
| | F | 23 38 | | | |
| | | Saskatoon | | | |
| | H | (18 48.3) | | 4,360 | |
| | P | (18 55 46) | | | |
| | S | (19 01 56) | | | |
| | SSS | (19 05.0) | | | |
| | L | (19 07.4) | | | |
| | F | (19 36) | | | |
| | | Shawinigan Falls | | | |
| | H | 18 48.6 | | 6,540 | |
| | P | 18 58 30 | | | |
| | S | 19 06 41 | | | |
| | L | 19 14 | | | |
| | F | 20 25 | | | |
| | | Seven Falls | | | |
| | H | 18 48.4 | | 6,670 | |
| | P | 18 58 27 | | | |
| | S | 19 06 46 | | | |
| | L | 19 14 | | | |
| | F | 22 55 | | | |
| | | Ottawa | | | |
| 226 Sept. 4 | e | 6 41 | | | |
| | e | 6 50.3 | | | |
| | L | 7 04 | | | |
| | F | 8 42 | | | |
| | | Victoria | | | |
| | e | 6 37.6 | | | |
| | e | 6 42.8 | | | |
| | e | 6 49.7 | | | |
| | L | 6 53.6 | | | |
| | F | 9 02 | | | |
| | | Seven Falls | | | |
| | e | 6 34.3 | | | |
| | e | 6 50.8 | | | |
| | L | 7 09 | | | |
| | F | 9 00 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM September 4, 1937 to September 15, 1937 No. 40

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 227 | H | 0 38 | | 11,350 | |
| Sept. | PPP | 0 58,1 | | | |
| 8 | e | 0 59 14 | | | |
| | PS | 1 04 41 | | | |
| | $PPS_N$ | 1 05 34 | | | |
| | e | 1 08 00 | | | |
| | SSS | 1 14.4 | | | |
| | L | 1 26 | | | |
| | F | 3 35 | | | |
| | | Victoria | | | |
| | e | 1 01.5 | | | |
| | $i_E$ | 1 01 52 | | | |
| | $i_N$ | 1 02 07 | | | |
| | e | 1 19.3 | | | |
| | L | 1 36 | | | |
| | F | 3 23 | | | |
| | | Toronto | | | |
| | e | 0 59.0 | | | |
| | i | 1 04 44 | | | |
| | $i_N$ | 1 05 34 | | | |
| | e | 1 14.0 | | | |
| | L | 1 30 | | | |
| | F | 3 23 | | | |
| | | Shawinigan Falls | | | |
| | e | 0 58 42 | | | |
| | e | 1 04 41 | | | |
| | e | 1 08.1 | | | |
| | F | 1 26 | | | |
| | | Seven Falls | | | |
| | e | 1 00.8 | | | |
| | e | 1 03.5 | | | |
| | e | 1 07 | | | |
| | e | 1 13 | | | |
| | L | 1 25 | | | |
| | F | 3 29 | | | |
| | | Ottawa | | | |
| 232 | H | 12 27.5 | | 13,350 | USCGS. gives:- |
| Sept. | $P'_Z$ | 12 46 19 | | | $\phi$ = 9° S. |
| 15 | PP | 12 47 42 | | | $\lambda$ = 161° E. |
| | SKS | 12 53 16 | | | |
| | PS | 12 57 31 | | | |
| | SS | 13 04 05 | | | |
| | L | 13 29 | | | |
| | F | 15 20 | | | |
| | | Victoria | | 9,400 | |
| | H | 12 27.8 | | | |
| | P | 12 40 19 | | | |
| | S | 12 50 48 | | | |
| | e | 13 03.6 | | | |
| | L | 13 07 | | | |
| | F | 15 34 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM September 15, 1937 to September 15, 1937 No. 42

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Saskatoon | | | |
| 232 Sept. 15 (Cont'd) | e | 12 52 | | | |
| | L | 13 13 | | | |
| | F | 13 49 | | | |
| | | Toronto | | | |
| | $e_E$ | 12 47 20 | | | |
| | e | 12 53.3 | | | |
| | e | 12 57 22 | | | |
| | $e_E$ | 13 04 | | | |
| | L | 13 23 | | | |
| | F | 15 01 | | | |
| | | Shawinigan Falls | | | |
| | e | 12 46 24 | | | |
| | e | 12 48 09 | | | |
| | e | 13 04.4 | | | |
| | L | 13 28 | | | |
| | F | 13 41 | | | |
| | | Seven Falls | | | |
| | e | 12 46 23 | | | |
| | e | 12 47 53 | | | |
| | i | 12 54 52 | | | |
| | e | 12 57 59 | | | |
| | e | 13 04.8 | | | |
| | L | 13 27 | | | |
| | F | 15 25 | | | |
| | | Ottawa | | | |
| 234 Sept. 15 and 16 | H | 23 48.9 | | 3,660 | USCGS. gives:- $\phi$ = 14° N. $\lambda$ = 92° W. |
| | P | 23 55 32 | | | |
| | PPP | 23 57.0 | | | |
| | S | 0 00 58 | | | |
| | SS | 0 03 29 | | | |
| | L | 0 04.5 | | | |
| | F | 2 22 | | | |
| | | Victoria | | | |
| | H | 23 49.0 | | 4,660 | |
| | P | 23 56 51 | | | |
| | S | 0 03 17 | | | |
| | SS | 0 06 45 | | | |
| | L | 0 08 | | | |
| | F | 2 20 | | | |
| | | Toronto | | | |
| | H | 23 49.1 | | 3,220 | |
| | P | 23 55 08 | | | |
| | S | 0 00 06 | | | |
| | L | 0 04.5 | | | |
| | F | 1 41 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM September 15 to September 20, 1937 No. 42

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Shawinigan Falls | | | |
| 234 Sept. 15 and 16 (Cont'd) | H | 23 49.1 | | 3,840 | |
| | P | 23 55 55 | | | |
| | S | 0 01 32 | | | |
| | L | 0 05.2 | | | |
| | F | 0 28 | | | |
| | | Seven Falls | | | |
| | H | 23 49.0 | | 4,000 | |
| | P | 23 56 00 | | | |
| | S | 0 01 47 | | | |
| | L | 0 05 | | | |
| | F | 2 08 | | | |
| | | Ottawa | | | |
| 235 Sept. 17 | e | 9 57 | | | |
| | $e_E$ | 10 05.3 | | | |
| | L | 10 16 | | | |
| | F | 12 06 | | | |
| | | Victoria | | | |
| | e | 9 53 51 | | | |
| | $e_N$ | 10 10 | | | |
| | L | 10 30 | | | |
| | F | 12 05 | | | |
| | | Toronto | | | |
| | e | 9 55.7 | | | |
| | L | 10 28 | | | |
| | F | 12 03 | | | |
| | | Seven Falls | | | |
| | e | 9 56.8 | | | |
| | e | 10 05.7 | | | |
| | L | 10 16 | | | |
| | F | 12 10 | | | |
| | | Ottawa | | | |
| 237 Sept. 20 | H | 7 04.0 | | 3,880 | |
| | P | 7 10 52 | | | |
| | PP | 7 12 05 | | | |
| | $S_E$ | 7 16 32 | | | |
| | L | 7 23 | | | |
| | F | 8 40 | | | |
| | | Victoria | | | |
| | e | 7 15 48 | | | |
| | L | 7 21 | | | |
| | F | 8 11 | | | |
| | | Toronto | | | |
| | e | 7 11.5 | | | |
| | L | 7 22 | | | |
| | F | 8 02 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM September 20 to September 23, 1937 No. 42

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Seven Falls | | | |
| 237 | H | 7 04.1 | | | |
| Sept. | P | 7 11 25 | | 4,200 | |
| 20 | e | 7 12 51 | | | |
| (Cont'd) | S | 7 17 25 | | | |
| | L | 7 25 | | | |
| | F | 8 15 | | | |
| | | Ottawa | | | |
| 239 | $e_Z$ | 9 58 53 | | | |
| Sept. | e | 10 01 | | | |
| 21 | L | 10 33 | | | |
| | F | 12 12 | | | |
| | | Victoria | | | |
| | $e_N$ | 9 58 | | | |
| | $e_E$ | 10 04.2 | | | |
| | e | 10 13.5 | | | |
| | L | 10 22 | | | |
| | F | 11 37 | | | |
| | | Toronto | | | |
| | e | 10 02 | | | |
| | L | 10 45 | | | |
| | F | 11 49 | | | |
| | | Seven Falls | | | |
| | e | 10 02 | | | |
| | L | 10 27 | | | |
| | F | 11 48 | | | |
| | | Ottawa | | | |
| 243 | H | 13 06 | | 13,800 | USCGS. gives:- |
| Sept. | $P'_Z$ | 13 24 52 | | | $\phi$ = 6° S. |
| 23 | e | 13 25 22 | | | $\lambda$ = 154° E. |
| | $PP_E$ | 13 26.5 | | | |
| | SKS | 13 32 06 | | | |
| | SKKS | 13 33 27 | | | |
| | PPS | 13 37.7 | | | |
| | SS | 13 43 32 | | | |
| | SSS | 13 48.0 | | | |
| | L | 13 57 | | | |
| | F | 17 36 | | | |
| | | Victoria | | | |
| | H | 13 05.8 | | 10,380 | |
| | P | 13 19 00 | | | |
| | S | 13 30 10 | | | |
| | PPS | 13 31 40 | | | |
| | SS | 13 36 30 | | | |
| | eN | 13 44 | | | |
| | L | 13 47 | | | |
| | F | 17 35 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM September 23, 1937 to September 27, 1937 No. 44

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 243 Sept. 23 (Cont'd) | e | 13 26 20 | | | |
| | $e_E$ | 13 47 42 | | | |
| | L | 14 00 | | | |
| | F | 16 38 | | | |
| | | Shawinigan Falls | | | |
| | H | 13 05.9 | | 14,000 | |
| | P' | 13 24 56 | | | |
| | PP | 13 26 42 | | | |
| | SKKS | 13 33 44 | | | |
| | SS | 13 43 32 | | | |
| | L | 14 04 | | | |
| | F | 15 04 | | | |
| | | Seven Falls | | | |
| | H | 13 05.9 | | 13,900 | |
| | P' | 13 24 55 | | | |
| | PP | 13 26 42 | | | |
| | SKKS | 13 33.6 | | | |
| | PS | 13 36 23 | | | |
| | SS | 13 44.0 | | | |
| | SSS | 13 47.7 | | | |
| | L | 13 59 | | | |
| | F | 17 25 | | | |
| | | Ottawa | | | |
| 249 Sept. 24 | i | 6 46 22 | | | Felt in Montreal, Quebec. |
| | i | 6 46 24 | | | |
| | F | 6 46 42 | | | |
| | | Shawinigan Falls | | | |
| | i | 6 46 14 | | | |
| | F | 6 46 21 | | | |
| | | Ottawa | | | |
| 256 Sept. 27 | H | 8 58.6 | | 14,450 | |
| | P | 9 14 44 | | | |
| | P' | 9 17 54 | | | |
| | SKS | 9 24 42 | | | |
| | S | 9 28.0 | | | |
| | SS | 9 37.2 | | | |
| | L | 10 04 | | | |
| | F | 11 27 | | | |
| | | Victoria | | | |
| | i | 9 15 29 | | | |
| | i | 9 20 59 | | | |
| | $i_E$ | 9 22 25 | | | |
| | i | 9 25 09 | | | |
| | e | 9 31 45 | | | |
| | L | 9 44 | | | |
| | F | 12 43 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM September 27, 1937 to September 28, 1937 No. 45

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 256 Sept. 27 (Cont'd) | i | 9 14 50 | | | |
| | e | 9 18 06 | | | |
| | e | 9 24 49 | | | |
| | e | 9 36 36 | | | |
| | L | 10 07 | | | |
| | F | 11 25 | | | |
| | | Shawinigan Falls | | | |
| | e | 9 14 46 | | | |
| | e | 9 24 38 | | | |
| | e | 9 38 | | | |
| | F | 10 30 | | | |
| | | Seven Falls | | | |
| | e | 9 14 40 | | | |
| | e | 9 20.7 | | | |
| | e | 9 31.7 | | | |
| | e | 9 35.3 | | | |
| | L | 9 59 | | | |
| | F | 12 15 | | | |
| | | Ottawa | | | |
| 258 Sept. 28 | H | 6 20.7 | | 3,910 | |
| | P | 6 27 36 | | | |
| | S | 6 33 18 | | | |
| | SS | 6 35.7 | | | |
| | L | 6 39 | | | |
| | F | 7 48 | | | |
| | | Victoria | | | |
| | H | 6 20.7 | | 4,920 | |
| | P | 6 28 53 | | | |
| | S | 6 35 33 | | | |
| | L | 6 42 | | | |
| | F | 8 15 | | | |
| | | Toronto | | | |
| | H | 6 20.8 | | 3,500 | |
| | P | 6 27 14 | | | |
| | S | 6 32.5 | | | |
| | L | 6 39 | | | |
| | F | 7 40 | | | |
| | | Shawinigan Falls | | | |
| | e | 6 27 55 | | | |
| | e | 6 38 | | | |
| | L | 6 44 | | | |
| | F | 6 54 | | | |
| | | Seven Falls | | | |
| | H | 6 20.6 | | 4,300 | |
| | P | 6 28 00 | | | |
| | e | 6 29.5 | | | |
| | S | 6 34.2 | | | |
| | e | 6 36.8 | | | |
| | L | 6 39.8 | | | |
| | F | 8 03 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM September 28, 1937 to September 30, 1937 No. 46

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 260 Sept. 28 | e | 18 26 03 | | | |
| | e | 18 32 46 | | | |
| | L | 18 39 | | | |
| | F | 19 02 | | | |
| | | Seven Falls | | | |
| | e | 18 32.5 | | | |
| | L | 18 38 | | | |
| | F | 19 13 | | | |
| | | Ottawa | | | |
| 261 Sept. 29 | H | 11 30.4 | | 3,920 | |
| | P | 11 37 23 | | | |
| | S | 11 43 06 | | | |
| | L | 11 49 | | | |
| | F | 12 27 | | | |
| | | Seven Falls | | | |
| | e | 11 39.2 | | | |
| | e | 11 43.2 | | | |
| | L | 11 49 | | | |
| | F | 12 38 | | | |
| | | Ottawa | | | |
| 263 Sept. 30 | H | 7 58.1 | | 750 | Felt in St. John, N. B. |
| | P | 7 59 51 | | | |
| | S | 8 01 10 | | | |
| | L | 8 02 | | | |
| | F | 8 10 | | | |
| | | Shawinigan Falls | | | |
| | H | 7 58.2 | | 525 | |
| | P | 7 59 22 | | | |
| | S | 8 00 18 | | | |
| | L | 8 00.6 | | | |
| | F | 8 10 | | | |
| | | Seven Falls | | | |
| | H | 7 58.2 | | 315 | |
| | P | 7 58 06 | | | |
| | S | 7 59 31 | | | |
| | F | 8 05 | | | |
| | | Ottawa | | | |
| 264 Sept. 30 | e | 22 28 | | | |
| | L | 22 39 | | | |
| | F | 23 23 | | | |
| | | Victoria | | | |
| | e | 21 57.4 | | | |
| | L | 22 13 | | | |
| | F | 23 13 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

R. Meldrum Stewart, Dominion Astronomer
Ernest A. Hodgson, Seismologist
W. W. Doxsee, Assistant Seismologist.

International Seismological Centre

# S T A T I O N S

## OTTAWA

$\phi$ = 45°23'38" N. $\lambda$ = 75°42'57" W. h = 83 m.
Time correction within 0.25s.
Foundation: boulder clay over limestone
Instruments: Milne-Shaw N and E components, designated 23 and 17, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 1 lb.

Benioff Vertical, short and long period, designated BS and BL, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

## HALIFAX

$\phi$ = 44°38' N. $\lambda$ = 63°36' W. h = 46 m.
Time correction from recorded railroad time signals
Foundation: carbonaceous slate
Instruments: Mainka N and E components, designated HN and HE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

## SHAWINIGAN FALLS

$\phi$ = 46°33'.1 N. $\lambda$ = 72°45'.8 W. h = 60 m. ca.
Time correction from recorded radio time signals
Foundation: solid granite of Canadian Shield
Instruments: Wood-Anderson N component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15 g.

## SASKATOON

$\phi$ = 52°08' N. $\lambda$ = 106°38' W. h = 515 m.
Time correction from radio time signals
Foundation: clay and sand
Instruments: Mainka N and E components, designated SN and SE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

## Toronto

$\phi$ = 43°40' N. $\lambda$ = 79°24' W. h = 111 m.
Time correction from radio time signals
Foundation: sand and clay
Instruments: Milne-Shaw N and E components, designated 18 and 22, respectively, each with photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

## Victoria

$\phi$ = 48°24'49" N. $\lambda$ = 123°19'26" W. h = 67 m.
Time correction from radio time signals
Foundation: rock
Instruments: Milne-Shaw N and E components, designated 21 and 20, respectively, each with photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

Wiechert Vertical, designated WV - not operating.

## Seven Falls

$\phi$ = 47°07!4 N. $\lambda$ = 70°49!6 W. h = 232 m. ca.
Time correction from recorded radio time signals
Foundation: solid granite of Canadian Shield
Instruments: Wood-Anderson and Milne-Shaw, both E component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15 g., SM a paper speed of 6 mm. per min. and mass 1 lb.

## DETERMINED CONSTANTS

| INSTRUMENT | $T_o$ | V | $\epsilon$ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR $10^{-5}$ g. |
|---|---|---|---|---|---|
| 17 | 12.0 | 250 | 20:1 | 44 mm. | |
| 23 | 12.0 | 250 | 20:1 | 44 mm. | |
| BS | | | | | 4.8 mm. |
| BL | | | | | 20.0 mm. |
| HN | | | | | |
| HE | | | | | |
| SA | 1.0 | 2000 | | | |
| 18 | 12.0 | 150 | 20:1 | | |
| 22 | 12.0 | 150 | 20:1 | | |
| 20 | 12.0 | 250 | 20:1 | | |
| 21 | 12.0 | 250 | 20:1 | | |
| WV | | | | | |
| SF | 1.0 | 1800 | | | |
| SM | 12.0 | 250 | 20:1 | 44 mm. | |
| SN | 9.0 | 55 | Aper. | | |
| SE | 9.0 | 50 | " | | |

International Seismological Centre

# CORRELATION OF EARTHQUAKES

## October, 1937

## N O T E S

| | | | |
|---|---|---|---|
| A : | Ottawa | $\Delta$ = 3,520 km. | H = $9^h47^m.4$ G. M. T. |
| | Victoria | $\Delta$ = 3,900 km. | H = 9 47.3 G. M. T. |
| | Saskatoon | $\Delta$ = 3,630 km. | H = 9 47.3 G. M. T. |
| | Toronto | $\Delta$ = 3,160 km. | H = 9 47.4 G. M. T. |
| | Shawinigan Falls | $\Delta$ = 3,750 km. | H = 9 47.4 G. M. T. |
| | Seven Falls | $\Delta$ = 3,900 km. | H = (9 47.3) G. M. T. |
| B : | Origin probably within 500 km. of Ottawa. | | |
| C : | Victoria | $\Delta$ = 4,600 km. | H = $16^h00^m.2$ G. M. T. |
| E : | Ottawa | $\Delta$ = 4,860 km. | H = $11^h36^m.1$ G. M. T. |
| | Saskatoon | $\Delta$ = 2,740 km. | H = ($11^h36^m$) G. M. T. |
| | Seven Falls | $\Delta$ = 5,080 km. | H = (11 36.2) G. M. T. |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM October 1, 1937 to October 6, 1937 No. 47

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 265 Oct. 1 | $e_E$ | 19 45.5 | | | |
| | $e_N$ | 19 52 | | | |
| | L | 20 13 | | | |
| | F | 21 48 | | | |
| | | Victoria | | | |
| | e | 19 39.7 | | | |
| | L | 20 01 | | | |
| | F | 21 23 | | | |
| | | Seven Falls | | | |
| | e | 19 46.6 | | | |
| | L | 20 17 | | | |
| | F | 21 57 | | | |
| | | Ottawa | | | |
| 270 Oct. 5 | $e_Z$ | 6 28 25 | | | USCGS, gives:- $\phi$ = 22° N. $\lambda$ = 108° W. |
| | $e_N$ | 6 36 | | | |
| | L | 6 38 | | | |
| | F | 7 25 | | | |
| | | Victoria | | | |
| | e | 6 27 | | | |
| | L | 6 32 | | | |
| | F | 7 51 | | | |
| | | Toronto | | | |
| | e | 6 33 | | | |
| | L | 6 36 | | | |
| | F | 7 28 | | | |
| | | Seven Falls | | | |
| | e | 6 36 | | | |
| | L | 6 40 | | | |
| | F | 7 51 | | | |
| | | Ottawa | | | |
| 271 Oct. 6 | H | 9 47.4 | | 3,520 | USCGS. gives:- $\phi$ = 18° N. $\lambda$ = 99° W. |
| | P | 9 53 50 | | | |
| | $e_E$ | 9 55 04 | | | |
| | S | 9 59 07 | | | |
| | e | 10 02 08 | | | |
| | L | 10 06 | | | |
| | F | 11 00 | | | |
| | | Victoria | | | |
| | H | 9 47.3 | | 3,900 | |
| | P | 9 54 11 | | | |
| | e | 9 56.0 | | | |
| | S | 9 59 51 | | | |
| | L | 10 03 | | | |
| | F | 10 55 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM October 6, 1937 to October 6, 1937 No. 48

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km, | |
| | | Saskatoon | | | |
| 271 Oct. 6 (Cont'd) | H | 9 47.3 | | 3,630 | |
| | P | 9 53 52 | | | |
| | PPP | 9 55 12 | | | |
| | S | 9 59 16 | | | |
| | L | 10 04.5 | | | |
| | F | 10 20 | | | |
| | | Toronto | | | |
| | H | 9 47.4 | | 3,160 | |
| | P | 9 53 24 | | | |
| | S | 9 58 18 | | | |
| | L | 10 03 | | | |
| | F | 10 40 | | | |
| | | Shawinigan Falls | | | |
| | H | 9 47.4 | | 3,750 | |
| | P | 9 54 10 | | | |
| | e | 9 55 30 | | | |
| | S | 9 59 42 | | | |
| | L | 10 04 | | | |
| | F | 10 22 | | | |
| | | Seven Falls | | | |
| | H | ( 9 47.3) | | 3,900 | |
| | P | ( 9 54 14) | | | |
| | S | ( 9 59 56) | | | |
| | L | (10 05) | | | |
| | F | (11 12) | | | |
| | | Ottawa | | | |
| 272 Oct. 6 | $e_Z$ | 17 23 44 | | | |
| | e | 17 25.3 | | | |
| | e | 17 30 50 | | | |
| | e | 17 32 20 | | | |
| | L | 17 42.5 | | | |
| | F | 19 39 | | | |
| | | Victoria | | | |
| | e | 17 30 | | | |
| | L | 17 52 | | | |
| | F | 20 00 | | | |
| | | Toronto | | | |
| | $e_E$ | 17 25 | | | |
| | $e_N$ | 17 33 | | | |
| | L | 18 11 | | | |
| | F | 19 38 | | | |
| | | Seven Falls | | | |
| | e | 17 25 | | | |
| | L | 17 42 | | | |
| | F | 19 51 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM October 6, 1937 to October 17, 1937 No. 49

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 282 | eZ | 16 06 35 | | | |
| Oct. | L | 16 13 | | | |
| 12 | F | 16 44 | | | |
| | | Victoria | | | |
| | H | 16 00.2 | | 4,600 | |
| | P | 16 08 00 | | | |
| | S | 16 14 23 | | | |
| | SSS | 16 18 00 | | | |
| | L | 16 23 | | | |
| | F | 17 08 | | | |
| | | Ottawa | | | |
| 283 | e | 21 02 01 | | | |
| Oct. | i | 21 11 04 | | | |
| 12 | e | 21 11 53 | | | |
| | F | 21 46 | | | |
| | | Victoria | | | |
| | i | 21 03 50 | | | |
| | L | 21 14 | | | |
| | F | 22 14 | | | |
| | | Seven Falls | | | |
| | e | 21 11.4 | | | |
| | L | 21 19 | | | |
| | F | 21 39 | | | |
| | | Ottawa | | | |
| 284 | eZ | 5 00 16 | | | |
| Oct. | e | 5 10 46 | | | |
| 17 | eN ? | 5 17.5 | | | |
| | L | 5 24 | | | |
| | F | 6 28 | | | |
| | | Victoria | | | |
| | e | 5 07 | | | |
| | L | 5 15 | | | |
| | F | 6 26 | | | |
| | | Toronto | | | |
| | i | 5 10 52 | | | |
| | L | 5 35 | | | |
| | F | 6 00 | | | |
| | | Seven Falls | | | |
| | e | 5 11.1 | | | |
| | L | 5 35 | | | |
| | F | 7 04 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM October 17, 1937 to October 24, 1937 No. 50

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 287 Oct. 20 | $e_Z$ | 5 54 13 | | | |
| | e | 5 59 36 | | | |
| | L | 6 04 | | | |
| | F | 6 18 | | | |
| | | Ottawa | | | |
| 289 Oct. 23 | $e_Z$ | 17 12 23 | | | |
| | L | 17 58 | | | |
| | F | 18 30 | | | |
| | | Ottawa | | | |
| 290 Oct. 24 | H | 11 36.1 | | 4,860 | USCGS. gives:- |
| | P | 11 44 15 | | | $\phi$ = 62° N. |
| | PPP | 11 46.3 | | | $\lambda$ = 150° W. |
| | S | 11 50 52 | | | |
| | SSS | 11 54 18 | | | |
| | L | 11 56 44 | | | |
| | F | 12 47 | | | |
| | | Victoria | | | |
| | i | 11 40 34 | | | |
| | L | 11 44 | | | |
| | F | 12 47 | | | |
| | | Saskatoon | | | |
| | H | (11 36) | | 2,740 | |
| | P | (11 41 17) | | | |
| | S | (11 45 41) | | | |
| | L | (11 49) | | | |
| | F | (12 03) | | | |
| | | Toronto | | | |
| | e | 11 44 27 | | | |
| | e | 11 50.7 | | | |
| | L | 11 56 | | | |
| | F | 12 32 | | | |
| | | Shawinigan Falls | | | |
| | e | 11 44 20 | | | |
| | L | 11 59 | | | |
| | F | 12 15 | | | |
| | | Seven Falls | | | |
| | H | (11 36.2) | | 5,080 | |
| | P | (11 44 31) | | | |
| | S | (11 51 20) | | | |
| | L | (11 58) | | | |
| | F | (12 50) | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM October 24, 1937 to October 31, 1937 No. 91

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 292 | $e_Z$ | 10 52 25 | | | |
| Oct. | L | 11 39 | | | |
| 25 | F | 12 03 | | | |
| | | Seven Falls | | | |
| | e | (10 56 05) | | | |
| | e | (11 10) | | | |
| | L | (11 37) | | | |
| | F | (12 33) | | | |
| | | Ottawa | | | |
| 295 | $e_Z$ | 7 39 24 | | | |
| Oct. | $e_N$ | 7 49.6 | | | |
| 29 | L | 8 00 | | | |
| | F | 8 13 | | | |

EARTHQUAKE CORRELATION TABLE

Month November, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | |
| 297 | 2 | *5 51+0 01P | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 298 | 2 | 11 59+0 29L | 11 20+1 01u | ..... | ..... | ..... | 11 59+0 33LT | ..... | ..... |
| 299 | 5 | ..... | 10 18+0 14L | ..... | ..... | ..... | ..... | ..... | ..... |
| 300 | 6 | 14 32+0 04v | ..... | ..... | ..... | ..... | ..... | 14 33+0 01vT | 14 32+0 01v |
| 301 | 7 | ..... | 9 49+0 38L | ..... | ..... | ..... | ..... | ..... | ..... |
| 302 | 9 | ..... | 10 56+0 20L | ..... | ..... | ..... | ..... | ..... | ..... |
| 303 | 10 | 7 32+1 09u | 7 21+0 59L | 7 32+0 48u | ..... | ..... | 7 33+1 00uT | ..... | ..... |
| 304 | 11 | 0 58+0 15L | ..... | ..... | ..... | ..... | 0 58+0 13LT | ..... | ..... |
| 305 | 12 | 14 44+0 03v | ..... | ..... | ..... | ..... | ..... | 14 44+0 0.3vT | 14 44+0 02v |
| 306 | 12 | 16 58+0 02v | ..... | ..... | ..... | ..... | ..... | 16 58+0 0.3vT | 16 58+0 01.2v |
| 307 | 13 | 10 20+2 00u | 10 15+2 30u | 10 45+0 51L | ..... | ..... | 10 21+2 12uT | ..... | ..... |
| 308 | 13 | 18 53+0 46L | 18 18+1 00u | 18 57+0 26L | ..... | ..... | 18 54+0 43LT | ..... | ..... |
| 309 | 14 | 11 11+2 49U | 11 11+2 57U | 11 11+1 24U | ..... | 11 11+0 42U | 11 11+2 30UT | 11 11+0 50UT | 11 11+0 44U |
| 310 | 15 | 22 02+1 10u | 22 01+1 15u | 22+19+0 46L | ..... | ..... | 22 18+1 01LT | ..... | ..... |
| 311 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 17 11+0 03P |
| 312 | 17 | 0 09+0 07L | 23 52+0 25L | ..... | ..... | ..... | 0 11+0 03LT | ..... | ..... |
| 313 | 18 | 3 50+0 30L | 3 12+0 53u | ..... | ..... | ..... | 3 51+0 27LT | ..... | ..... |
| 314 | 18 | 22 00+0 21L | 22 09+0 15L | ..... | ..... | ..... | 22 00+0 19LT | ..... | ..... |
| 315 | 19 | 1 06+0 04L | 0 56+0 08L | ..... | ..... | ..... | ..... | ..... | ..... |
| 316 | 21 | 20 47+0 17L | 21 03+0 20L | ..... | ..... | ..... | 20 49+0 13LT | ..... | ..... |
| 317 | 22 | ..... | 4 20+0 08L | ..... | ..... | ..... | ..... | ..... | ..... |
| 318 | 23 | 14 43+0 25L | 14 17+1 12L | ..... | ..... | ..... | 14 37+1 19LT | ..... | ..... |
| 319 | 24 | 2 37+0 13L | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 320 | 25 | 5 35+0 58L | 5 06+0 54u | 5 46+0 33L | ..... | ..... | 5 51+1 05LT | ..... | ..... |
| 321 | 26 | 11 37+0 28L | ..... | ..... | ..... | ..... | 11 30+0 42LT | ..... | ..... |
| 322 | 27 | 14 32+0 30L | 13 55+1 37u | ..... | ..... | ..... | 14 32+0 34LT | ..... | ..... |
| 323 | 28 | 5 46+1 43u | 5 44+2 13u | 6 00+1 25u | ..... | ..... | 6 04+1 52uT | ..... | ..... |
| 324 | 30 | 1 14+1 17u | 1 00+2 24u | 1 50+0 33L | ..... | ..... | 1 14+1 17uT | ..... | ..... |
| 325 | 30 | 13 22+1 00u | 13 24+2 20u | 13 53+0 30L | ..... | ..... | 13 28+1 26uT | ..... | ..... |

International Seismological Centre

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM November 1, 1937 to November 12, 1937 No. 52

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Victoria | | | |
| 298 | e | 11 20 | | | |
| Nov. | L | 11 41 | | | |
| 2 | F | 12 21 | | | |
| | | Ottawa | | | |
| 300 | H | 14 31.3 | | 155 | H and Δ from Joliat's Tables. |
| Nov. | P | 14 31 45 | | | |
| 6 | i | 14 31 51 | | | |
| | S | 14 32 03 | | | |
| | F | 14 32 37 | | | |
| | | Shawinigan Falls | | | |
| | e | 14 32 21 | | | |
| | i | 14 32 24 | | | |
| | F | 14 33 51 | | | |
| | | Ottawa | | | |
| 303 | e | 7 32 | | | |
| Nov. | L | 7 37 | | | |
| 10 | F | 8 41 | | | |
| | | Toronto | | | |
| | e | 7 32 | | | |
| | L | 7 37 | | | |
| | F | 8 20 | | | |
| | | Seven Falls | | | |
| | e | ( 7 33) | | | |
| | L | ( 7 38) | | | |
| | F | ( 8 33) | | | |
| | | Ottawa | | | |
| 305 | H | 14 43.7 | | 110 | H and Δ from Joliat's Tables. |
| Nov. | P | 14 44 02 | | | Felt at St. Jerome, Que. |
| 12 | i | 14 44 11 | | | |
| | S | 14 44 16 | | | |
| | F | 14 47 | | | |
| | | Shawinigan Falls | | | |
| | H | 14 43.8 | | 120 | |
| | eP | 14 44 06 | | | |
| | iS | 14 44 21 | | | |
| | F | 14 46 | | | |
| | | Seven Falls | | | |
| | e | (14 44.3) | | | |
| | F | (15 00) | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM November 12, 1937 to November 14, 1937 No. 53

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | | km. | |
| | | Ottawa | | | |
| 306 Nov. 12 | H | 16 57.5 | | 110 | Same remarks as for quake No. 305 |
| | P | 16 57 51 | | | |
| | i | 16 57 58 | | | |
| | S | 16 58 05 | | | |
| | F | 17 00 | | | |
| | | Shawinigan Falls | | | |
| | H | 16 57.5 | | 130 | |
| | eP | 16 57 54 | | | |
| | iS | 16 58 10 | | | |
| | F | 16 59 | | | |
| | | Seven Falls | | | |
| | e | (16 58.1) | | | |
| | F | (16 58.4) | | | |
| | | Ottawa | | | |
| 307 Nov. 13 | eE | 10 20.4 | | | |
| | e | 10 26.4 | | | |
| | eL | 10 44 | | | |
| | F | 12 20 | | | |
| | | Victoria | | | |
| | e | 10 14.6 | | | |
| | L | 10 35 | | | |
| | F | 12 47 | | | |
| | | Seven Falls | | | |
| | e | (10 21.1) | | | |
| | L | (10 52) | | | |
| | F | (12 32) | | | |
| | | Victoria | | | |
| 308 Nov. 13 | e | 18 17.8 | | | |
| | L | 18 38 | | | |
| | F | 19 17 | | | |
| | | Ottawa | | | |
| 309 Nov. 14 | e | 11 11 03 | | | |
| | e | 11 14 46 | | | |
| | e | 11 16 02 | | | |
| | i | 11 21 14 | | | |
| | e | 11 23 00 | | | |
| | e | 11 28 00 | | | |
| | L | 11 36 | | | |
| | F | 14 00 | | | |
| | | Victoria | | | |
| | i | 11 11 11 | | | |
| | e | 11 12 34 | | | |
| | eN | 11 15 06 | | | |
| | i | 11 21 20 | | | |
| | i | 11 23 12 | | | |
| | L | 11 35 | | | |
| | F | 14 08 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM November 14, 1937 to November 25, 1937 No. 14

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 309 Nov. 14 (Cont'd) | e | 11 11 15 | | | |
| | e | 11 15 00 | | | |
| | i | 11 21 27 | | | |
| | e | 11 30 | | | |
| | L | 11 36 | | | |
| | F | 13 35 | | | |
| | | Shawinigan Falls | | | |
| | e | 11 10 54 | | | |
| | i | 11 11 52 | | | |
| | e | 11 21 34 | | | |
| | e | 11 22 49 | | | |
| | L | 11 35 | | | |
| | F | 11 55 | | | |
| | | Seven Falls | | | |
| | e | (11 11) | | | |
| | e | (11 14.5) | | | |
| | e | (11 21) | | | |
| | e | (11 23) | | | |
| | e | (11 26) | | | |
| | L | (11 35) | | | |
| | F | (13 41) | | | |
| | | Halifax | | | |
| | e | 11 10.5 | | | |
| | i | 11 20.8 | | | |
| | i | 11 21.3 | | | |
| | e | 11 22.5 | | | |
| | L | 11 33 | | | |
| | F | 11 52 | | | |
| | | Ottawa | | | |
| 310 Nov. 15 | $e_E$ | 22 01.5 | | | |
| | $e_N$ | 22 09 | | | |
| | L | 22 20 | | | |
| | F | 23 12 | | | |
| | | Victoria | | | |
| | e | 22 01.4 | | | |
| | L | 22 33 | | | |
| | F | 23 16 | | | |
| | | Victoria | | | |
| 313 Nov. 18 | e | 3 12 | | | |
| | e | 3 14 | | | |
| | L | 3 26 | | | |
| | F | 4 05 | | | |
| | | Victoria | | | |
| 320 Nov. 25 | e | 5 06 | | | |
| | L | 5 27 | | | |
| | F | 6 00 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM November 25, 1937 to November 30, 1937 No. 55

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Victoria | | | |
| 322 Nov. 27 | e | 13 55.2 | | | |
| | L | 14 42 | | | |
| | F | 15 23 | | | |
| | | Ottawa | | | |
| 323 Nov. 28 | e | 5 46 | | | |
| | L | 6 35 | | | |
| | F | 7 29 | | | |
| | | Victoria | | | |
| | e | 5 44 | | | |
| | L | 6 24 | | | |
| | F | 7 57 | | | |
| | | Toronto | | | |
| | e | 6 00 | | | |
| | L | 6 32 | | | |
| | F | 7 25 | | | |
| | | Seven Falls | | | |
| | e | ( 6 04) | | | |
| | L | ( 6 32) | | | |
| | F | ( 7 56) | | | |
| | | Ottawa | | | |
| 324 Nov. 30 | eN | 1 13.5 | | | |
| | e | 1 19 | | | |
| | L | 1 35 | | | |
| | F | 2 31 | | | |
| | | Victoria | | | |
| | e | 1 00 | | | |
| | e | 1 17 | | | |
| | L | 1 30 | | | |
| | F | 3 24 | | | |
| | | Seven Falls | | | |
| | e | ( 1 14) | | | |
| | L | ( 1 35) | | | |
| | F | ( 2 31) | | | |
| | | Ottawa | | | |
| 325 Nov. 30 | eE | 13 22.5 | | | |
| | eN | 13 39 | | | |
| | L | 13 46 | | | |
| | F | 14 22 | | | |
| | | Victoria | | | |
| | eN | 13 24 | | | |
| | eE | 13 35 | | | |
| | L | 13 53 | | | |
| | F | 15 44 | | | |
| | | Seven Falls | | | |
| | e | (13 28) | | | |
| | L | (13 47) | | | |
| | F | (14 54) | | | |

E. W. Osborn

International Seismological Centre

# CORRELATION OF EARTHQUAKES

November, 1937.

## N O T E S

A : Ottawa Δ = 155 km. H = $14^h31^m.3$ G. M. T.

B : Ottawa Δ = 110 km. H = $14^h43^m.7$ G. M. T.
Shawinigan Falls Δ = 120 km. H = 14 43.8 G. M. T.
Felt at St. Jerome, Quebec.

C : Ottawa Δ = 110 km. H = $16^h57^m.5$ G. M. T.
Shawinigan Falls Δ = 130 km. H = 16 57.5 G. M. T.
Felt at St. Jerome, Quebec.

E : Registration at Ottawa and Seven Falls begins on the 18th.

Dominion Observatory,
Ottawa, Canada,
December 21, 1937.

# EARTHQUAKE CORRELATION TABLE

Month October, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | | |
| 265 | 1 | 19 46+2 02u | 19 40+1 43u | 20 13+0 59L | ..... | ..... | 19 47+2 10u | ..... | ..... | .. |
| 266 | 2 | ..... | ..... | 3 30+0 11L | ..... | ..... | 3 33+0 16L | ..... | ..... | .. |
| 267 | 2 | 5 20+0 23L | 5 28+0 21L | ..... | ..... | ..... | 5 24+0 23L | ..... | ..... | .. |
| 268 | 3 | 19 52+0 04L | 19 32+0 19L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 269 | 4 | 8 38+0 39L | 8 03+0 55L | 8 37+0 25L | ..... | ..... | 8 40+0 38L | ..... | ..... | .. |
| 270 | 5 | 6 28+0 57r | 6 27+1 24r | 6 33+0 55r | 6 42+0 17L | ..... | 6 36+1 15r | 6 41+0 39L | 6 38+0 21L | .. |
| 271 | 6 | 9 54+1 06r | 9 54+1 01r | 9 54+0 53r | 9 54+0 26r | ..... | 9 56+1 18rT | 9 54+0 28rT | 9 54+0 28r | A |
| 272 | 6 | 17 24+2 15u | 17 30+2 30u | 17 25+2 13u | ..... | ..... | 17 25+2 26u | ..... | ..... | .. |
| 273 | 6 | 22 07+0 24L | 22 30+0 21L | ..... | ..... | ..... | 22 07+0 24L | ..... | ..... | .. |
| 274 | 7 | 8 10+0 20L | 8 51+0 15L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 275 | 9 | 15 50+0 0.4v | ..... | ..... | ..... | ..... | ..... | ..... | ..... | B |
| 276 | 9 | 17 18+0 03v | ..... | ..... | ..... | ..... | ..... | ..... | ..... | B |
| 277 | 10 | 7 59+0 06L | ..... | ..... | ..... | ..... | 8 00+0 07L | ..... | ..... | .. |
| 278 | 11 | 21 59+0 17L | 22 03+0 36L | ..... | ..... | ..... | 22 01+0 22L | ..... | ..... | .. |
| 279 | 12 | *3 30+0 0.5P* | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 280 | 12 | ..... | 14 25+0 08L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 281 | 12 | ..... | 14 53+0 12L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 282 | 12 | 16 07+0 37r | 16 08+1 00r | 16 13+0 28L | ..... | ..... | 16 18+0 31L | ..... | ..... | C |
| 283 | 12 | 21 02+0 44u | 21 04+1 10u | ..... | ..... | ..... | 21 11+0 28u | 21 02+0 02P | 21 02+0 02P | .. |
| 284 | 17 | 5 00+1 28u | 5 07+1 19u | 5 11+0 49u | ..... | ..... | 5 11+1 53u | ..... | 5 00+0 04P | .. |
| 285 | 17 | *10 09+0 0.7P | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 286 | 20 | 2 12+0 24L | 2 21+0 13L | ..... | ..... | ..... | 2 22+0 19L | ..... | ..... | .. |
| 287 | 20 | 5 54+0 24u | 6 12+0 12L | ..... | ..... | ..... | 6 05+0 14L | ..... | ..... | .. |
| 288 | 20 | ..... | 12 00+0 05L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 289 | 23 | 17 12+1 18u | ..... | ..... | ..... | ..... | 18 01+0 36L | ..... | ..... | .. |
| 290 | 24 | 11 44+1 03r | 11 41+1 06r | 11 44+0 48r | 11 41+0 22r | ..... | 11 44+1 06u | 11 44+0 28u | 11 44+0 31r | E |
| 291 | 25 | 9 00+0 11L | ..... | ..... | ..... | ..... | 8 46+0 28L | ..... | ..... | .. |
| 292 | 25 | 10 52+1 11u | ..... | ..... | ..... | ..... | 10 56+1 37u | ..... | ..... | .. |
| 293 | 25 | 23 59+0 17L | ..... | ..... | ..... | ..... | 23 42+0 50u | ..... | ..... | .. |
| 294 | 27 | *9 54+0 01P | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 295 | 29 | 7 39+0 34u | ..... | ..... | ..... | ..... | 8 00+0 16L | ..... | ..... | .. |
| 296 | 29 | ..... | 19 55+0 09L | ..... | ..... | ..... | ..... | ..... | ..... | .. |

International Seismological Centre

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM December 1, 1937 to December 8, 1937 No. 56

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 329 | $e_E$ | 15 48.5 | | | |
| Dec. | L | 16 15 | | | |
| 5 | F | 17 14 | | | |
| | | Victoria | | | |
| | e | 15 42.8 | | | |
| | L | 16 02 | | | |
| | F | 16 57 | | | |
| | | Ottawa | | | |
| 331 | e | 17 36 22 | | | Nearby quake. |
| Dec. | F | 17 36 29 | | | |
| 6 | | | | | |
| | | Ottawa | | | |
| 332 | e | 19 05 22 | | | Same as No. 331 |
| Dec. | F | 19 05 42 | | | |
| 6 | | | | | |
| | | Ottawa | | | |
| 333 | e | 21 13 50 | | | |
| Dec. | e | 21 19.0 | | | |
| 6 | L | 21 24 | | | |
| | F | 21 54 | | | |
| | | Ottawa | | | |
| 334 | $e_N$ | 21 54.7 | | | |
| Dec. | $e_E$ | 21 56 18 | | | |
| 6 | L | 21 59 | | | |
| | F | 22 54 | | | |
| | | Victoria | | | |
| | e | 21 37 | | | |
| | L | 22 06 | | | |
| | F | 22 45 | | | |
| | | Ottawa | | | |
| 336 | e | 2 37 | | | USCGS. gives:- |
| Dec. | L | 2 41 | | | $\phi$ = 13°.5 N. |
| 8 | F | 3 20 | | | $\lambda$ = 82°.5 W. |
| | | Ottawa | | | |
| 337 | e ? | 8 51.5 | | | USCGS. gives:- |
| Dec. | e | 9 00.6 | | | $\phi$ = 26° N. |
| 8 | L | 9 23 | | | $\lambda$ = 119° E. |
| | F | 10 50 | | | |
| | | Toronto | | | |
| | e | 9 01 | | | |
| | L | 9 20 | | | |
| | F | 10 31 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM December 8, 1937 to December 17, 1937 No. 57

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Victoria | | | |
| 337 | H | 8 32.2 | | 9760 | |
| Dec. | P | 8 45 00 | | | |
| 8 | S | 8 55 44 | | | |
| (Cont'd) | $SS_E$ | 9 01 15 | | | |
| | L | 9 09 | | | |
| | F | 11 20 | | | |
| | | Seven Falls | | | |
| | e | 8 58.9 | | | |
| | e | 9 06.4 | | | |
| | L | 9 19 | | | |
| | F | 11 03 | | | |
| | | Ottawa | | | |
| 340 | e | 8 33.5 | | | |
| Dec. | L | 8 55 | | | |
| 12 | F | 9 55 | | | |
| | | Ottawa | | | |
| 342 | e | 19 22.5 | | | |
| Dec. | e | 19 38.2 | | | |
| 13 | $s_E$ | 19 43 | | | |
| | L | 19 47 | | | |
| | F | 20 44 | | | |
| | | Victoria | | | |
| | e | 19 17.4 | | | |
| | e | 19 23.4 | | | |
| | $e_{E?}$ | 19 30.1 | | | |
| | L | 19 38 | | | |
| | F | 20 40 | | | |
| | | Seven Falls | | | |
| | e | 19 28.5 | | | |
| | L | 19 41 | | | |
| | F | 21 10 | | | |
| | | Ottawa | | | |
| 343 | $e_E$ | 23 06 | | | |
| Dec. | e | 23 10 20 | | | |
| 13 | L | 23 12 | | | |
| | F | 23 55 | | | |
| | | Ottawa | | | |
| 345 | $e_N$ | 10 00.6 | | | |
| Dec. | $e_E$ | 10 12 | | | |
| 17 | L | 10 22 | | | |
| | F | 11 22 | | | |
| | | Victoria | | | |
| | e | 9 56 | | | |
| | L | 10 20 | | | |
| | F | 11 20 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM December 17, 1937 to December 22, 1937 No. 58

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Seven Falls | | | |
| 345 Dec. 17 (Cont'd) | e | 10 10 | | | |
| | L | 10 21 | | | |
| | F | 11 29 | | | |
| | | Ottawa | | | |
| 346 Dec. 17 | eZ | 17 00 17 | | | Nearby quake |
| | F | 17 00 19 | | | |
| | | Ottawa | | | |
| 347 Dec. 17 | e | 17 29 51 | | | Same type as No. 346 |
| | F | 17 30 10 | | | |
| | | Ottawa | | | |
| 348 Dec. 17 | e | 19 23 21 | | | Same type as No. 346 |
| | F | 19 23 40 | | | |
| | | Ottawa | | | |
| 350 Dec. 18 | iZ | 13 30 49 | | | |
| | e | 13 41.4 | | | |
| | e | 13 51 | | | |
| | L | 13 56 | | | |
| | F | 14 57 | | | |
| | | Victoria | | | |
| | e | 13 41.8 | | | |
| | L | 14 00 | | | |
| | F | 14 49 | | | |
| | | Seven Falls | | | |
| | i | 13 41 16 | | | |
| | e | 13 49.4 | | | |
| | L | 14 04 | | | |
| | F | 14 46 | | | |
| | | Ottawa | | | |
| 352 Dec. 18 | eN | 20 58 | | | |
| | L | 21 03 | | | |
| | F | 21 44 | | | |
| | | Ottawa | | | |
| 357 Dec. 22 | H | 3 37.3 | | 4140 | USCGS. gives;- |
| | eP | 3 44 32 | | | $\phi$ = 17° N. |
| | PP | 3 46 00 | | | $\lambda$ = 106° W. |
| | e | 3 50.3 | | | |
| | iS | 3 50 28 | | | |
| | SSN | 3 53 04 | | | |
| | SSS | 3 53 30 | | | |
| | L | 3 56 | | | |
| | F | 6 30 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM December 22, 1937 to December 22, 1937 No. 58

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Victoria | | | |
| 357 Dec. 22 (Cont'd) | e | 3 44 15 | | | |
| | S | 3 49 28 | | | |
| | SS | 3 51.8 | | | |
| | L | 3 54.7 | | | |
| | F | 5 45 | | | |
| | | Toronto | | | |
| | H | 3 37.4 | | 3720 | |
| | P | 3 44 09 | | | |
| | PP | 3 45.2 | | | |
| | S | 3 49 39 | | | |
| | SS | 3 51.8 | | | |
| | L | 3 54 | | | |
| | F | 5 15 | | | |
| | | Saskatoon | | | |
| | e | 3 49.5 | | | |
| | e | 3 52 | | | |
| | L | 3 54 | | | |
| | F | 4 17 | | | |
| | | Shawinigan Falls | | | |
| | H | 3 37.3 | | 4400 | |
| | P | 3 44 49 | | | |
| | S | 3 51 01 | | | |
| | L | 3 57.5 | | | |
| | F | 4 27 | | | |
| | | Seven Falls | | | |
| | H | 3 37.3 | | 4510 | |
| | P | 3 45 00 | | | |
| | e | 3 46.5 | | | |
| | S | 3 51 18 | | | |
| | SSS | 3 54 11 | | | |
| | L | 3 57 | | | |
| | F | 5 58 | | | |
| | | Ottawa | | | |
| 358 Dec. 22 | H | 7 35.3 | | 4000 | |
| | P | 7 42 21 | | | |
| | S | 7 48 08 | | | |
| | L | 7 55 | | | |
| | F | 8 41 | | | |
| | | Victoria | | | |
| | e | 7 47.4 | | | |
| | L | 7 51 | | | |
| | F | 8 14 | | | |
| | | Toronto | | | |
| | e | 7 47.3 | | | |
| | L | 7 53 | | | |
| | F | 8 14 | | | |
| | | Seven Falls | | | |
| | e | 7 49 | | | |
| | L | 7 56 | | | |
| | F | 8 31 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM December 22, 1937 to December 23, 1937 No. 60

International Seismological Centre

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 359 Dec. 22 | e | 15 36 31 | | | Nearby quake |
| | e | 15 36 51 | | | |
| | F | 15 36 57 | | | |
| | | Ottawa | | | |
| 361 Dec. 23 | H | 13 17.9 | | 3880 | USCGS gives:- |
| | eP ? | 13 24 41 | | | $\phi$ = 15°.5 N. |
| | iP | 13 24 47 | | | $\lambda$ = 98°.5 W. |
| | PPP | 13 26 14 | | | |
| | iS | 13 30 27 | | | |
| | $SS_E$ | 13 32 27 | | | |
| | L | 13 35 11 | | | |
| | F | 18 00 | | | |
| | | Victoria | | | |
| | H | 13 18.0 | | 4200 | |
| | P | 13 25 16 | | | |
| | PPP | 13 26 52 | | | |
| | S | 13 31 16 | | | |
| | $SSS_E$ | 13 33 50 | | | |
| | L | 13 36 | | | |
| | F | 17 26 | | | |
| | | Toronto | | | |
| | H | 13 18.1 | | 3460 | |
| | P | 13 24 30 | | | |
| | PP | 13 25 23 | | | |
| | S | 13 29 43 | | | |
| | L | 13 35 | | | |
| | F | 17 26 | | | |
| | | Saskatoon | | | |
| | H | 13 18.1 | | 3840 | |
| | P | 13 25 00 | | | |
| | S | 13 30 37 | | | |
| | SSS | 13 33 24 | | | |
| | L | 13 35.4 | | | |
| | F | 15 25 | | | |
| | | Shawinigan Falls | | | |
| | H | 13 17.8 | | 4150 | |
| | P | 13 25 05 | | | |
| | S | 13 31 02 | | | |
| | L | 13 37.5 | | | |
| | F | 14 53 | | | |
| | | Seven Falls | | | |
| | H | 13 17.9 | | 4200 | |
| | P | 13 25 12 | | | |
| | PPP | 13 26 54 | | | |
| | S | 13 31 12 | | | |
| | SS | 13 34 08 | | | |
| | L | 13 37 | | | |
| | F | 18 01 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM December 23, 1937 to December 24, 1937 No. 61

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 362 Dec. 23 | H | 23 21.3 | | 3800 | USCGS gives:- |
| | P | 23 28 09 | | | $\phi$ = 15°.5 N. |
| | S | 23 33 34 | | | $\lambda$ = 98°.5 W. |
| | L | 23 39 | | | |
| | F | 0 40 | | | |
| | | Victoria | | 4100 | |
| | H | 23 21.4 | | | |
| | P | 23 28 36 | | | |
| | PPP | 23 30 15 | | | |
| | S | 23 34 30 | | | |
| | L | 23 40 | | | |
| | F | 0 39 | | | |
| | | Toronto | | | |
| | H | 23 21.3 | | 3520 | |
| | P | 23 27 43 | | | |
| | S | 23 33 00 | | | |
| | L | 23 38 | | | |
| | F | 0 28 | | | |
| | | Saskatoon | | | |
| | e | 23 38 | | | |
| | L | 23 41 | | | |
| | F | 23 59 | | | |
| | | Seven Falls | | | |
| | H | 23 21.3 | | 4200 | |
| | P | 23 28 38 | | | |
| | PP | 23 30 08 | | | |
| | S | 23 34 38 | | | |
| | L | 23 40 | | | |
| | F | 0 38 | | | |
| | | Victoria | | | |
| 364 Dec. 24 | $e_E$? | 4 51.6 | | | |
| | $e_N$ | 4 52.8 | | | |
| | L | 4 56.6 | | | |
| | F | 5 11 | | | |
| | | Ottawa | | | |
| 365 Dec. 24 | H | 6 20.8 | | 6180 | USCGS. gives:- |
| | P | 6 30 19 | | | $\phi$ = 10°.5 S. |
| | S | 6 38 10 | | | $\lambda$ = 75°.5 W. |
| | L | 6 46 | | | |
| | F | 8 23 | | | |
| | | Victoria | | | |
| | H | 6 20.7 | | 8060 | |
| | P | 6 32 09 | | | |
| | S | 6 41 38 | | | |
| | L | 6 50 | | | |
| | F | 8 53 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM December 24, 1937 to December 30, 1937 No. 62

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Toronto | | | |
| 365 Dec. 24 (Cont'd) | H | 6 20.7 | | 6100 | |
| | P | 6 30 12 | | | |
| | S | 6 37 58 | | | |
| | L | 6 48 | | | |
| | F | 7 34 | | | |
| | | Seven Falls | | | |
| | S | 6 38 30 | | | |
| | L | 6 44 | | | |
| | F | 8 33 | | | |
| | | Victoria | | | |
| 369 Dec. 25 | e | 21 32.6 | | | |
| | L | 21 58 | | | |
| | F | 22 52 | | | |
| | | Ottawa | | | |
| 374 Dec. 28 | $e_Z$ | 6 29 38 | | | USCGS. gives:- $\phi$ = 1° N. $\lambda$ = 28° W. approximately. |
| | e | 6 38 | | | |
| | L | 6 44 | | | |
| | F | 7 15 | | | |
| | | Victoria | | | |
| | i | 6 43 42 | | | |
| | L | 6 59 | | | |
| | F | 7 38 | | | |
| | | Toronto | | | |
| | e | 6 38 | | | |
| | L | 6 45 | | | |
| | F | 7 13 | | | |
| | | Ottawa | | | |
| 376 Dec. 30 | $e_Z$ | 11 47 50 | | | USCGS. gives:- $\phi$ = 15°.5 N. $\lambda$ = 98° W. |
| | e | 11 53.5 | | | |
| | L | 11 58 | | | |
| | F | 12 28 | | | |
| | | Victoria | | | |
| | e | 11 57 | | | |
| | L | 12 00 | | | |
| | F | 12 22 | | | |
| | | Seven Falls | | | |
| | e | 11 47 | | | |
| | L | 12 00 | | | |
| | F | 12 27 | | | |

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

International Seismological Centre

FROM December 30, 1937 to December 31, 1937 No. 63

| NO. AND DATE | PHASE | TIME | AMP. | DISTANCE | REMARKS |
|---|---|---|---|---|---|
| | | h m s | μ | km. | |
| | | Ottawa | | | |
| 377 Dec. 31 | H | 17 41.3 | | 3860 | USCGS. gives:- |
| | P | 17 48 14 | | | ϕ = 15° N. |
| | S | 17 53 53 | | | λ = 98° W. |
| | SSS | 17 56 21 | | | |
| | L | 17 59 | | | |
| | F | 19 27 | | | |
| | | Toronto | | | |
| | H | 17 41.3 | | 3550 | |
| | P | 17 47 48 | | | |
| | S | 17 53 07 | | | |
| | L | 17 57 | | | |
| | F | 18 55 | | | |
| | | Saskatoon | | | |
| | e | 17 54.2 | | | |
| | L | 18 01 | | | |
| | F | 18 26 | | | |
| | | Shawinigan Falls | | | |
| | H | 17 41.4 | | | |
| | P | 17 48 34 | | | |
| | S | 17 54 26 | | | |
| | L | 17 59 | | | |
| | F | 18 31 | | | |
| | | Seven Falls | | | |
| | H | 17 41.4 | | 4240 | |
| | P | 17 48 45 | | | |
| | PP | 17 50 03 | | | |
| | S | 17 54 47 | | | |
| | L | 18 01 | | | |
| | F | 19 14 | | | |

W. W. Doxsee.

International Seismological Centre

# EARTHQUAKE CORRELATION TABLE

Month December, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | | |
| 326 | 2 | 17 29+0 31L | ..... | ..... | ..... | ..... | 17 24+0 35L | ..... | ..... | .. |
| 327 | 2 | 23 30+0 06L | 23 12+0 08L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 328 | 5 | 5 56+0 15L | 6 07+0 11L | ..... | ..... | ..... | 5 55+0 14L | ..... | ..... | .. |
| 329 | 5 | 15 49+1 25u | 15 43+1 14u | 16 19+0 51L | ..... | ..... | 16 25+0 39L | ..... | ..... | .. |
| 330 | 6 | 5 07+1 03L | 4 54+1 17L | 5 24+0 26L | ..... | ..... | 5 19+0 41L | ..... | ..... | .. |
| 331 | 6 | 17 36+0 0.1v | ..... | ..... | ..... | ..... | ..... | ..... | ..... | A |
| 332 | 6 | 19 05+0 0.3v | ..... | ..... | ..... | ..... | ..... | ..... | ..... | A |
| 333 | 6 | 21 14+0 40u | ..... | 21 19+0 18L | ..... | ..... | 21 22+0 19L | ..... | ..... | .. |
| 334 | 6 | 21 56+0 55u | 21 37+1 08u | 21 54+0 42L | ..... | ..... | 21 54+0 57L | ..... | ..... | .. |
| 335 | 7 | 18 13+0 36L | 18 21+0 31L | 18 16+0 17L | ..... | ..... | 18 16+0 32L | ..... | ..... | .. |
| 336 | 8 | 2 37+0 43r | 2 46+0 49L | 2 40+0 36L | ..... | ..... | 2 39+0 48L | ..... | ..... | .. |
| 337 | 8 | 8 52+1 58u | 8 45+2 35u | 9 01+1 30u | ..... | ..... | 8 58+2 04u | ..... | ..... | B |
| 338 | 10 | ..... | ..... | ..... | ..... | ..... | 14 14+0 51L | ..... | ..... | .. |
| 339 | 10 | ..... | ..... | ..... | ..... | ..... | 18 36+0 09L | ..... | ..... | .. |
| 340 | 12 | 8 34+1 21u | ..... | 9 01+0 25L | ..... | ..... | 9 02+0 42L | ..... | ..... | .. |
| 341 | 12 | 11 37+0 41L | ..... | ..... | ..... | ..... | 11 41+0 25L | ..... | ..... | .. |
| 342 | 13 | 19 22+1 22u | 19 17+1 23u | 19 49+0 52L | ..... | ..... | 19 28+1 41u | ..... | ..... | .. |
| 343 | 13 | 23 06+0 49u | 23 27+0 25L | 23 13+0 24L | ..... | ..... | 23 11+0 35L | ..... | ..... | .. |
| 344 | 16 | 17 47+0 01P | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 345 | 17 | 10 01+1 21u | 9 56+1 24u | 10 25+1 09L | ..... | ..... | 10 10+1 19u | ..... | ..... | .. |
| 346 | 17 | 17 00+0 0.1v* | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C |
| 347 | 17 | 17 30+0 0.3v | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C |
| 348 | 17 | 19 23+0 0.3v | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C |
| 349 | 17 | 19 37+0 22L | ..... | ..... | ..... | ..... | 19 38+0 12L | ..... | ..... | .. |
| 350 | 18 | 13 31+1 26u | 13 42+1 07u | 14 07+0 24L | ..... | ..... | 13 41+1 05u | 13 31+0 02P | 13 31+0 02P | .. |
| 351 | 18 | 19 36+0 08L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 352 | 18 | 20 58+0 46u | 21 17+0 16L | 21 07+0 12L | ..... | ..... | 21 03+0 28L | ..... | ..... | .. |

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# EARTHQUAKE CORRELATION TABLE

Month December, 1937

| No. | Date | Ottawa | Victoria | Toronto | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M. S. | W. A. | | |
| 353 | 20 | 4 32+0 35L | 4 16+0 25L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 354 | 20 | 22 55+0 01P | ..... | ..... | ..... | ..... | ..... | 22 55+0 01P | 22 55+0 02P | .. |
| 355 | 21 | 10 12+0 11L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 356 | 21 | 21 55+0 04L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 357 | 22 | 3 45+2 45R | 3 44+2 01R | 3 44+1 31R | 3 50+0 27r | ..... | .3 45+2 13R | 3 45+0 39R | 3 45+0 42R | E |
| 358 | 22 | 7 42+0 59r | 7 47+0 27r | 7 47+0 27r | ..... | ..... | 7 49+0 42r | 7 57+0 07L | 7 56+0 09L | F |
| 359 | 22 | ..... | ..... | 15 36+0 0.5v | ..... | ..... | ..... | ..... | ..... | G |
| 360 | 22 | 21 45+0 20L | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 361 | 23 | 13 25+4 35R | 13 25+4 01R | 13 24+4 02R | 13 25+2 00R | ..... | 13 25+4 36R | 13 25+1 22R | 13 25+1 28R | H |
| 362 | 23 | 23 28+1 12r | 23 29+1 10r | 23 28+1 00r | 23 38+0 21r | ..... | 23 29+1 09r | 23 50+0 05L | 23 47+0 11L | J |
| 363 | 24 | ..... | 2 52+0 08L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 364 | 24 | 4 56+0 28L | 4 52+0 19r | ..... | ..... | ..... | 4 56+0 15L | ..... | ..... | .. |
| 365 | 24 | 6 30+1 53u | 6 32+2 21u | 6 30+1 04u | ..... | ..... | 6 38+1 55u | 6 30+0 02P | 6 30+0 03P | K |
| 366 | 25 | ..... | 4 57+0 04L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 367 | 25 | 10 32+0 23L | 10 33+0 16L | ..... | ..... | ..... | 10 32+0 28L | ..... | ..... | .. |
| 368 | 25 | ..... | 20 09+0 07L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 369 | 25 | 21 35+1 30L | 21 33+1 20u | ..... | ..... | ..... | 21 37+1 22L | ..... | ..... | .. |
| 370 | 26 | ..... | 6 25+0 09L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 371 | 26 | ..... | 18 17+0 09L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 372 | 26 | 23 58+0 40L | 0 08+0 37L | 23 56+0 18L | ..... | ..... | 0 01+0 22L | ..... | ..... | .. |
| 373 | 27 | 15 22+0 01P | 15 34+0 18L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 374 | 28 | 6 30+0 45u | 6 44+0 54u | 6 38+0 35u | ..... | ..... | 6 45+0 14L | ..... | ..... | .. |
| 375 | 30 | 11 12+0 22L | 11 08+0 16L | ..... | ..... | ..... | 11 17+0 10L | ..... | ..... | .. |
| 376 | 30 | 11 48+0 40r | 11 57+0 25r | ..... | ..... | ..... | 11 47+0 40r | ..... | ..... | .. |
| 377 | 31 | 17 48+1 39R | 18 13+0 57L | 17 48+1 07R | 17 54+0 32r | ..... | 17 49+1 25R | 17 49+0 36R | 17 49+0 42R | M |

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# CORRELATION OF EARTHQUAKES

## December, 1937.

## N O T E S

A : Origin probably within 500 km. of Ottawa. Harvard recorded the disturbance at $17^h36^m$ but had no trace of the quake at $19^h05^m$.

B : Victoria  Δ = 9760 km.  H = $8^h32^m.2$  U. T.

C : Recorded at Ottawa only - origin probably within 500 km. of the Ottawa station.

E : Ottawa  Δ = 4140 km.  H = $3^h37^m.3$  U. T.
Toronto  Δ = 3720 km.  H = 3 37.4  U. T.
Shawinigan Falls  Δ = 4400 km.  H = 3 37.3  U. T.
Seven Falls  Δ = 4510 km.  H = 3 37.3  U. T.

F : Ottawa  Δ = 4000 km.  H = $7^h35^m.3$  U. T.

G : Origin probably within 500 km. of the Toronto station.

H : Ottawa  Δ = 3880 km.  H = $13^h17^m.9$  U. T.
Victoria  Δ = 4200 km.  H = 13 18.0  U. T.
Toronto  Δ = 3460 km.  H = 13 18.1  U. T.
Saskatoon  Δ = 3840 km.  H = 13 18.1  U. T.
Shawinigan Falls  Δ = 4150 km.  H = 13 17.8  U. T.

J : Ottawa  Δ = 3800 km.  H = $23^h21^m.3$  U. T.
Victoria  Δ = 4100 km.  H = 23 21.4  U. T.
Toronto  Δ = 3520 km.  H = 23 21.3  U. T.
Seven Falls  Δ = 4200 km.  H = 23 21.3  U. T.

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# CORRELATION OF EARTHQUAKES

December, 1937.

N O T E S

| | | | |
|---|---|---|---|
| K : | Ottawa | $\Delta$ = 6180 km. | H = $6^h 20^m.8$ U. T. |
| | Victoria | $\Delta$ = 8060 km. | H = 6 20.7 U. T. |
| | Toronto | $\Delta$ = 6100 km. | H = 6 20.7 U. T. |
| M : | Ottawa | $\Delta$ = 3860 km. | H = $17^h 41^m.3$ U. T. |
| | Toronto | $\Delta$ = 3550 km. | H = 17 41.3 U. T. |
| | Shawinigan Falls | $\Delta$ = 4080 km. | H = 17 41.4 U. T. |
| | Seven Falls | $\Delta$ = 4240 km. | H = 17 41.4 U. T. |

Dominion Observatory,
Ottawa, Canada,
February 5, 1938.