

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

January

1943

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DOMINION OBSERVATORY
OTTAWA, CANADA

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83$ m.

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46$ m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'.4$ N. $\lambda = 70^{\circ}49'.6$ 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 EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N. $\lambda = 123^{\circ}24'56''$ W. $h = 197$ m.

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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 smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

S T A T I O N S (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

$\phi = 46^{\circ}33'11''$ N. $\lambda = 72^{\circ}45'8''$ W. $h = 60$ m. ca.
 Time correction from recorded radio time signals
 Foundation: solid granite of Canadian Shield
 Instrument: Wood-Anderson NS component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15g.

SASKATOON

University of Saskatchewan

$\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.
 Time correction from radio time signals
 Foundation: clay and sand
 Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

$\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.
 Time correction from recorded radio time signals
 Foundation: rock
 Instrument: Converted Feiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10 ⁻⁶ g |
|--------------------|-------|-------------------|--------------|------------------------------|-------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | 5 mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2200 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2x10 ⁴ | at 30 cycles | | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 1, 1943 to January 17, 1943 No. 1

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|----------------|------------------|----------|----------------------|
| | | h m s | km. | |
| | | Ottawa | | |
| 9 Jan. | eZ | 9 56 56 | | |
| 10 | eL | 10 05.5 | | |
| | L | 10 10 | | |
| | F | 10 24. | | |
| | | Ottawa | | |
| 12 Jan. | eZ | 20 03 26 | | |
| 11 | eN | 20 14 00 | | |
| | L | 20 40 | | |
| | F | 21 16 | | |
| | | Seven Falls | | |
| | e | 20 03.3 | | |
| | e | 20 14.1 | | |
| | eL | 20 30 | | |
| | F | 21 14 | | |
| | | Ottawa | | |
| 14 Jan. | H | 21 32.4 | 535 | |
| 14 | P ₃ | 21 33 44 | | |
| | P ₂ | 21 33 52 | | |
| | i | 21 34 18 | | |
| | S ₂ | 21 34 52 | | |
| | F | 21 53 | | |
| | | Halifax | | |
| | e | (21 31 34) | | No clock correction. |
| | L | (21 31.7) | | |
| | F | (21 33) | | |
| | | Seven Falls | | |
| | H | 21 32.5 | 265 | |
| | P ₂ | 21 33 11 | | |
| | S ₂ | 21 33 41 | | |
| | F | 21 52 | | |
| | | Shawinigan Falls | | |
| | H | 21 32.5 | 320 | |
| | P ₃ | 21 33 19.5 | | |
| | P ₂ | 21 33 24 | | |
| | S ₂ | 21 34 00 | | |
| | F | 21 49 | | |
| | | Ottawa | | |
| 15 Jan. | H | 17 15.4 | 195 | |
| 16 | P ₁ | 17 16 01.5 | | |
| | S ₁ | 17 16 24.5 | | |
| | F ₁ | 17 17.5 | | |
| | | Ottawa | | |
| 16 Jan. | eZ | 17 09 23 | | |
| 17 | L | 17 20 | | |
| | F | 17 31 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 17, 1943 to January 24, 1943 No. 2

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|------------------------------------|----------|-------------|---|--|
| | | h m s | km. | | |
| 18 Jan. 23 | eZ L F | Ottawa | | | |
| | | 13 36 01 | | | |
| | | 13 42 | | | |
| | | | 14 00 ca. | | |
| | | | Seven Falls | | |
| | e L F | 13 36.1 | | | |
| 13 42 | | | | | |
| 14 04 | | | | | |
| 21 Jan. 24 | Ottawa | | | | |
| | H P PP S eL F | 9 27.1 | 3300 | | |
| | | 9 33 19 | | | |
| | | 9 34 01 | | | |
| | | 9 38 22 | | | |
| | | 9 41 | | | |
| | | | 9 59 | | |
| | Seven Falls | | | | |
| | H P S F | 9 27.2 | 3620 | | |
| | | 9 33 47 | | | |
| | | 9 39 11 | | | |
| | | 9 58 | | | |
| | Shawinigan Falls | | | | |
| | H P S F | 9 27.1 | 3540 | | |
| | | 9 33 37 | | | |
| 9 38 55 | | | | | |
| 9 42 | | | | | |
| 22 Jan. 24 | Ottawa | | | | |
| | H P i PPP S L F | 20 41.9 | 3650 | USCGS. gives:- $\phi = 15^{\circ}N.$ $\lambda = 91^{\circ}W.$ | |
| | | 20 48 30 | | | |
| | | 20 48 43 | | | |
| | | 20 50 00 | | | |
| | | 20 53 55 | | | |
| | | 20 59 | | | |
| | | 21 38 | | | |
| | | Victoria | | | |
| | H P S _E L F | 20 42.2 | 4620 | | |
| | | 20 49 59 | | | |
| | | 20 56 23 | | | |
| | | 21 06 | | | |
| | | 21 49 | | | |
| | Saskatoon | | | | |
| | H P e S L F | 20 41.9 | 5790 | | |
| | | 20 51 00 | | | |
| | | 20 55 25 | | | |
| 20 58 29 | | | | | |
| 21 07 | | | | | |
| 21 42 | | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM January 24, 1943 to January 27, 1943 No. 3

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|------------------------------|-------------------------|--------------------|----------|---|
| | | h m s | km. | |
| 22 Jan. 24 (Cont'd) | e | (20 45 16) | | No clock correction. |
| | e | (20 50.0) | | |
| | L | (20 56) | | |
| | F | (21 15) | | |
| | | Seven Falls | | |
| | H | 20 41.9 | 4000 | |
| | P | 20 48 57 | | |
| | S | 20 54 44 | | |
| | e | 20 57 41 | | |
| | L | 21 02 | | |
| F | 21 54 | | | |
| | Shawinigan Falls | | | |
| | H | 20 41.9 | 3870 | |
| | P | 20 48 48 | | |
| | PPP | 20 50.4 | | |
| | S | 20 54 27 | | |
| | L | 21 01 | | |
| | F | 21 14 | | |
| | | Ottawa | | |
| 26 Jan. 26 | H | 11 51.9 | 115 | |
| | P ₁ | 11 52 15.5 | | |
| | S ₁ | 11 52 29 | | |
| | F | 11 53 | | |
| | | Ottawa | | |
| 29 Jan. 27 | H | 2 45.3 | 6980 | USCGS. gives:- $\phi = 52^{\pm} \text{N.}$ $\lambda = 80^{\pm} \text{W.}$ |
| | P | 2 55 42 | | |
| | S | 3 04 18 | | |
| | e | 3 05 32 | | |
| | SS | 3 09.0 | | |
| | SSS | 3 11.1 | | |
| | eL | 3 14 | | |
| | F | 5 00 ca. | | |
| | | Victoria | | |
| | e ^E | 2 57 48 | | |
| | L | 3 00 | | |
| | F | 3 44 | | |
| | | Halifax | | |
| | e | 3 00 | | |
| | L | 3 14 | | |
| | F | 4 14 | | |
| | | Seven Falls | | |
| | H | 2 45.3 | 7140 | |
| | P | 2 55 50 | | |
| | S | 3 04 35 | | |
| | SS | 3 09 02 | | |
| | SSS | 3 11.6 | | |
| | L | 3 16 | | |
| | F | 5 33 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 27, 1943 to January 30, 1943 No. 4

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------|-------|------------------|----------|---|
| | | h m s | km. | |
| | | Shawinigen Falls | | |
| 29 | P | 2 55 47 | | |
| Jan. | L | 3 16 | | |
| 27 | F | 3 51 | | |
| (Cont'd) | | Ottawa | | |
| 32 | eZ | 10 41.0 | | |
| Jan. | L | 11 02 | | |
| 27 | F | 11 13 | | |
| | | Ottawa | | |
| 34 | e | 6 12 55.5 | | Series of rockbursts at Lake Shore Mines, Kirkland Lake, Ontario. |
| Jan. | e | 6 13 33 | | |
| 29 | e | 6 13 46 | | |
| | e | 6 14 28 | | |
| | e | 6 15 03.5 | | |
| | e | 6 15 18 | | |
| | F | 6 18 | | |
| | | Shawinigen Falls | | |
| | e | 6 14 21 | | |
| | e | 6 15 44 | | |
| | F | 6 16.8 | | |
| | | Ottawa | | |
| 35 | H | 5 33.2 | 5060 | USCGS. gives:- $\phi = 2^{\circ} \text{ S.}$ $\lambda = 80^{\circ} \text{ W.}$ Depth = 100 km. ca. |
| Jan. | P | 5 41 32 | | |
| 30 | PPP | 5 43 32 | | |
| | S | 5 48 20 | | |
| | SS | 5 51 14 | | |
| | eL | 5 54 | | |
| | F | 6 33 | | |
| | | Victoria | | |
| | H | 5 33.1 | 6900 | |
| | P | 5 43 22 | | |
| | S | 5 51 54 | | |
| | L | 6 03 | | |
| | F | 6 31 | | |
| | | Saskatoon | | |
| | H | 5 33.2 | 6290 | |
| | P | 5 42 54 | | |
| | S | 5 50 51 | | |
| | L | 6 01 | | |
| | F | 6 32 | | |
| | | Halifax | | |
| | e | 5 42 10 | | |
| | e | 5 46 | | |
| | F | 5 54 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 30, 1943 to January 31, 1943 No. 5

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|------------------------------|------------------|------------------|----------|---------|
| | | h m s | km. | |
| 35 Jan. 30 (Cont'd) | | Seven Falls | | |
| | H | 5 33.2 | 5360 | |
| | P | 5 41 50 | | |
| | S | 5 48 55 | | |
| | SSS | 5 52.7 | | |
| | L | 5 57 | | |
| | F | 6 44 | | |
| | | Shawinigan Falls | | |
| | H | 5 33.2 | 5240 | |
| | P | 5 41 44 | | |
| S | 5 48 42 | | | |
| F | 5 53 | | | |
| 36 Jan. 31 | | Ottawa | | |
| | iz | 8 35 20 | | |
| | iz | 8 35 44 | | |
| | e | 8 40.5 | | |
| | eZ | 8 41 58 | | |
| | e | 8 43 | | |
| | L | 8 47 | | |
| | F | 9 10 | | |
| | | Saskatoon | | |
| | e | 8 37 11 | | |
| | e | 8 41 34 | | |
| | e | 8 46.3 | | |
| | L | 8 53 | | |
| | F | 9 05 | | |
| | | Seven Falls | | |
| | e | 8 36 13 | | |
| | e | 8 42 01 | | |
| | e | 8 44.7 | | |
| F | 9 06 | | | |
| | Shawinigan Falls | | | |
| e | 8 36 03 | | | |
| e | 8 44.5 | | | |
| F | 8 52 | | | |

W. W. Doysee.

CORRELATION TABLE

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This tabulation not only provides a yearly numbered list of all earthquakes recorded in Canada but also correlates the seismic registrations of the seven Canadian stations. The seismograph at the Kirkland Lake rockburst station (Established Dec. 19, 1939) records only the bursts and those earthquakes originating very close to Kirkland Lake. Entries for this station in the Correlation Table will be confined to those earthquakes and rockbursts which registered at Kirkland Lake and also at one or more outside stations. Such entries will be indexed as notes. Entries for each station show in hours and minutes the time of beginning of the tremors in Greenwich Mean Time. The appearance of entries in two or more columns 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 earthquake number 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.
- * Recorded only by short period seismograph.

EARTHQUAKE CORRELATION TABLE
 Month January, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|----------------|-------------|-------------|--------------|-------------|-------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 1 | 2 | 5 12+0 02P* | | | | | | | |
| 2 | 2 | 12 04+0 01P* | | | | | | | |
| 3 | 5 | 13 46+0 03P | | | | | | | |
| 4 | 6 | 6 59+0 02P* | | | | | | | |
| 5 | 6 | 10 00+0 02P | 10 25+0 15L | | | | | | |
| 6 | 7 | 11 26+0 02P | | | | | | | |
| 7 | 7 | 22 47+0 01P | | | | | | | |
| 8 | 9 | 6 11+0 03P* | | | | | | | |
| 9 | 10 | 9 57+0 27u | 10 08+0 08L | | | 10 11+0 14L | | | |
| 10 | 10 | 15 32+0 02P* | 15 49+0 09L | | | | | | |
| 11 | 10 | 20 20+0 0.2P* | | | | 20 14+1 00u | | 20 03+0 04P | |
| 12 | 11 | 20 03+1 13u | 20 35+0 25L | 20 45+0 14L | | 21 34+0 03v | | 21 33+0 16v | A |
| 13 | 12 | 9 18+0 0.5P* | | | | | | | B |
| 14 | 14 | 21 34+0 19v | | | (21 32+0 02v | 17 23+0 10L | | 17 23+0 03L | |
| 15 | 16 | 17 16+0 01.5v* | | | | 13 41+0 22L | | 13 36+0 03P | |
| 16 | 17 | 17 09+0 22u | | | | | | | |
| 17 | 17 | | 18 06+0 10L | | | | | | |
| 18 | 23 | 13 36+0 24r | 13 39+0 31L | | | | | | |
| 19 | 23 | 13 42+0 02P* | | | | | | | |
| 20 | 23 | 23 19+0 01P* | | | | | | | |
| 21 | 24 | 9 33+0 26r | | | | 9 39+0 19r | | 9 34+0 08r | C |
| 22 | 24 | 20 48+0 50r | 20 50+0 59r | 20 51+0 51u | (20 45+0 30r | 20 49+1 05r | | 20 49+0 25r | E |
| 23 | 25 | 2 43+0 02P* | | | | | | | |
| 24 | 25 | 4 07+0 0.6P* | | | | | | | |
| 25 | 25 | 18 39+0 03P | | | | | | 18 39+0 02P | |
| 26 | 26 | 11 52+0 01v* | | | | | | | |
| 27 | 26 | 15 56+0 06L | | | | 15 58+0 06L | | 15 56+0 04L | F |
| 28 | 27 | 2 02+0 01P* | | | | 2 24+0 17L | | | |
| 29 | 27 | 2 56+2 03u | 2 58+0 46u | | 3 00+1 14u | 2 56+2 37u | | 2 56+0 54u | G |
| 30 | 27 | 3 08+0 02P* | | | | | | | |
| 31 | 27 | 3 18+0 01P* | | | | | | | |
| 32 | 27 | 10 41+0 32u | | | | 11 03+0 08L | | | |
| 33 | 28 | 22 17+0 0.3P* | | | | | | | |
| 34 | 29 | 6 13+0 05v* | | | | | | | |
| 35 | 30 | 5 42+0 51u | 5 43+0 48u | 5 43+0 49u | 5 42+0 12u | 5 42+1 02u | | 6 14+0 02v | J |
| 36 | 31 | 8 35+0 35u | 8 51+0 17L | 8 37+0 28u | | 8 42+0 24u | | 5 42+0 11u | K |
| | | | | | | | | 8 36+0 13u | |

CORRELATION OF EARTHQUAKES

January, 1943

.....

N O T E S

| | | | |
|-------|---|---------------------|---|
| ===== | | | |
| A : | Ottawa | $\Delta = 535$ km. | H = 21 ^h 32 ^m .4 U.T. |
| | Seven Falls | $\Delta = 265$ km. | H = 21 32.5 U.T. |
| | Shawinigan Falls | $\Delta = 320$ km. | H = 21 32.5 U.T. |
| B : | Ottawa | $\Delta = 195$ km. | H = 17 ^h 15 ^m .4 U.T. |
| C : | Ottawa | $\Delta = 3300$ km. | H = 9 ^h 27 ^m .1 U.T. |
| | Seven Falls | $\Delta = 3620$ km. | H = 9 27.2 U.T. |
| | Shawinigan Falls | $\Delta = 3540$ km. | H = 9 27.1 U.T. |
| E : | Ottawa | $\Delta = 3650$ km. | H = 20 ^h 41 ^m .9 U.T. |
| | Victoria | $\Delta = 4620$ km. | H = 20 42.2 U.T. |
| | Saskatoon | $\Delta = 5790$ km. | H = 20 41.9 U.T. |
| | Seven Falls | $\Delta = 4000$ km. | H = 20 41.9 U.T. |
| | Shawinigan Falls | $\Delta = 3870$ km. | H = 20 41.9 U.T. |
| F : | Ottawa | $\Delta = 115$ km. | H = 11 ^h 51 ^m .9 U.T. |
| G : | Ottawa | $\Delta = 6980$ km. | H = 2 ^h 45 ^m .3 U.T. |
| | Seven Falls | $\Delta = 7140$ km. | H = 2 45.3 U.T. |
| J : | A series of pronounced rockburst shocks at Lake Shore Mines, Kirkland Lake, Ont. | | |
| K : | Ottawa | $\Delta = 5060$ km. | H = 5 ^h 33 ^m .2 U.T. |
| | Victoria | $\Delta = 6900$ km. | H = 5 33.1 U.T. |
| | Saskatoon | $\Delta = 6290$ km. | H = 5 33.2 U.T. |
| | Seven Falls | $\Delta = 5360$ km. | H = 5 33.2 U.T. |
| | Shawinigan Falls | $\Delta = 5240$ km. | H = 5 33.2 U.T. |

Dominion Observatory,
 Ottawa, Canada,
 March 23, 1943.

SEISMOLOGICAL BULLETINS RECEIVED

January, 1943

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

| STATIONS | BULLETINS | RECEIVED |
|------------------------------------|--------------------------------|-----------|
| Berkeley and Auxiliary Stations | January to March, 1940 | January 6 |
| Apia | July to September, 1942 | " 7 |
| Sydney | May and June, 1942 | " 9 |
| Weston | Preliminary for December, 1942 | " 9 |
| Brisbane | October, 1942 | " 11 |
| Santa Clara | December, 1942 | " 12 |
| New Zealand Stations | November and December, 1942 | " 19 |
| Brisbane | November, 1942 | " 21 |
| Riverview | January to April, 1942 | " 26 |
| Perth | October and November, 1942 | " 26 |

DOMINION OBSERVATORY,
OTTAWA - CANADA.



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DOMINION OBSERVATORY
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DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

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$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83$ m.

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Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46$ m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

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Quebec Power Company

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Wiechert Vertical, designated WV smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

STATIONS (Cont'd)

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Shawinigan Water and Power Company

 $\phi = 46^{\circ}33'1''$ N. $\lambda = 72^{\circ}45'8''$ W. $h = 60$ m. ca.

Time correction from recorded radio time signals

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Instrument: Wood-Anderson NS component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15g.

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University of Saskatchewan

 $\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.

Time correction from radio time signals

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Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

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Lake Shore Mines

 $\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.

Time correction from recorded radio time signals

Foundation: rock

Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | 5 mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2200 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 | cycles | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM February 1, 1943 to February 16, 1943 No. 6

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-----------------------------|-------|------------------|----------|---------|
| | | h m s |  |  | km. |
| 40 Feb. 7 | eE | 4 54.0 | | |
| | eN | 5 17 | | |
| | eL | 5 29 | | |
| | F | 7 22 | | |
| | | Ottawa | | |
| 43 Feb. 10 | eZ | 21 38 10 | | |
| | L | 21 49 | | |
| | F | 22 02 | | |
| | | Ottawa | | |
| 46 Feb. 16 | H | 7 28.8 | 6280 | |
| | P | 7 38 28 | | |
| | e | 7 42 30 | | |
| | S | 7 46 24 | | |
| | i | 7 48 00 | | |
| | SS | 7 50 27 | | |
| | e | 7 53.0 | | |
| | F | 8 23 | | |
| | | Victoria | | |
| H P S e eL F | H | 7 28.7 | 8365 | |
| | P | 7 40 23 | | |
| | S | 7 50 06 | | |
| | e | 7 51 23 | | |
| | eL | 8 02 | | |
| | F | 8 30 | | |
| | | Saskatoon | | |
| is SS L F | is | 7 49 09 | | |
| | SS | 7 53 22 | | |
| | L | 7 58 | | |
| | F | 8 24 | | |
| | | Halifax | | |
| e L F | e | 7 37 19 | | |
| | L | 7 44 | | |
| | F | 8 24 | | |
| | | Seven Falls | | |
| H P S L F | H | 7 28.8 | 6450 | |
| | P | 7 38 39 | | |
| | S | 7 46 45 | | |
| | L | 7 53 | | |
| F | 8 27 | | | |
| | | Shawinigan Falls | | |
| H P S F | H | 7 28.8 | 6380 | |
| | P | 7 38 34 | | |
| | S | 7 46 36 | | |
| | F | 7 49 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM February 16, 1943 to February 22, 1943 No. 7

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|---|---|----------|--|
| | | h m s | km. | |
| | | Ottawa | | |
| 47 Feb. 16 | eZ L F | 14 56 58 15 40 16 07 | | |
| | | Victoria | | |
| | e L F | 15 01 47 15 19 15 54 | | |
| | | Ottawa | | |
| 48 Feb. 16 | H P ₂ S ₂ F | 16 51.0 16 51 21 16 51 33 16 55 | 105 | Felt at Hawkesbury and Alexandria, Ont. and at Lachute, Que. |
| | | Seven Falls | | |
| | e F | 16 52 28 16 54 | | |
| | | Shawinigan Falls | | |
| | H P ₂ S ₂ F | 16 51.0 16 51 33 16 51 54 16 54 | 180 | |
| | | Ottawa | | |
| 51 Feb. 17 | eZ e L F | 2 34 21 2 55.0 3 18 4 25 | | |
| | | Seven Falls | | |
| | e L F | 2 55.5 3 23 4 21 | | |
| | | Ottawa | | |
| 52 Feb. 17 | eZ L F | 5 52 41 6 54 7 19 | | |
| | | Ottawa | | |
| 57 Feb. 22 | H P PP e S i SS SSS e L F | 9 20.1 9 27 38 9 29 02 9 33 20 9 33 50 9 35 16 9 36 45 9 37 12 9 39 9 41 12 50+ | 4400 | Compression NE. |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

| FROM | February 22, 1943 | | to | February 22, 1943 | No. 8 | |
|------------------------------|-------------------|-----------|----------|-------------------|-------|--|
| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | | |
| | | h m s | km. | | | |
| 57 Feb. 22 (Cont'd) | | Victoria | | | | |
| | H | 9 20.5 | 4200 | | | |
| | P | 9 27 49 | | | | |
| | e _F | 9 28 05 | | | | |
| | PP | 9 29 16 | | | | |
| | e _F | 9 33 38 | | | | |
| | S | 9 33 49 | | | | |
| | SS | 9 36 11 | | | | |
| | SSS | 9 37 13 | | | | |
| | L | 9 38.5 | | | | |
| | F | 11 53 | | | | |
| | | Saskatoon | | | | |
| | H | 9 20.4 | 4035 | | | |
| | P | 9 27 33 | | | | |
| | PPP | 9 29 13 | | | | |
| | S | 9 33 23 | | | | |
| | e | 9 35 21 | | | | |
| | SSS | 9 36 06 | | | | |
| e | 9 37.4 | | | | | |
| L | 9 39 | | | | | |
| F | 13 14 | | | | | |
| | Halifax | | | | | |
| H | 9 20.3 | 4920 | | | | |
| P | 9 28 30 | | | | | |
| PPP | 9 30 30 | | | | | |
| eS | 9 35.2 | | | | | |
| SSS | 9 38.2 | | | | | |
| L | 9 41 | | | | | |
| F | 11 28 | | | | | |
| | Seven Falls | | | | | |
| H | 9 20.0 | 4920 | | | | |
| P | 9 28 09 | | | | | |
| PP | 9 29 49 | | | | | |
| e | 9 34 29 | | | | | |
| iS | 9 34 49 | | | | | |
| SSS | 9 38 29 | | | | | |
| eL | 9 41 | | | | | |
| F | 12 22 | | | | | |
| | Shawinigan Falls | | | | | |
| H | 9 20.0 | 4740 | | | | |
| P | 9 27 58 | | | | | |
| PP | 9 29.5 | | | | | |
| S | 9 34.5 | | | | | |
| SS | 9 37.4 | | | | | |
| L | 9 42 | | | | | |
| F | 11 08 | | | | | |
| | Ottawa | | | | | |
| 59 | eZ | 11 01 43 | | | | |
| Feb. | L | 11 15 | | | | |
| 22 | F | 11 28 | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM February 22, 1943 to February 28, 1943 No. 9

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|-------|-------------|----------|---------|--|
| | | h m s | km. | | |
| 60 Feb. 23 | eZ | 23 02.0 | | | |
| | L | 23 15 | | | |
| | F | 23 35 | | | |
| | | Ottawa | | | |
| 62 Feb. 24 | eZ | 4 30 56 | | | |
| | eN | 4 39 26 | | | |
| | L | 4 45 | | | |
| | F | 5 18 | | | |
| | | Seven Falls | | | |
| | e | 4 33.1 | | | |
| | L | 4 49 | | | |
| | F | 5 22 | | | |
| | | Ottawa | | | |
| 65 Feb. 28 | H | 12 55.3 | 8960 | | |
| | PZ | 13 07 25 | | | |
| | eZ | 13 11 07 | | | |
| | S | 13 17 34 | | | |
| | SS | 13 23.0 | | | |
| | SSS | 13 25.6 | | | |
| | L | 13 32 | | | |
| | F | 14 12 | | | |
| | | | Victoria | | |
| | | H | 12 55.5 | 8960 | |
| | PN | 13 07.38 | | | |
| | eN | 13 11 19 | | | |
| | eS | 13 17 47 | | | |
| | L | 13 29 | | | |
| | F | 14 09 | | | |
| | | Saskatoon | | | |
| | e | 13 17.5 | | | |
| | L | 13 35 | | | |
| | F | 14 00 | | | |
| | | Halifax | | | |
| | e | 13 16 59 | | | |
| | F | 13 25 | | | |
| | | Seven Falls | | | |
| | H | 12 55.2 | 8860 | | |
| | P | 13 07 14 | | | |
| | e | 13 09 19 | | | |
| | e | 13 10 45 | | | |
| | S | 13 17 19 | | | |
| | e | 13 19 21 | | | |
| | SS | 13 23.0 | | | |
| | L | 13 31 | | | |
| | F | 14 25 | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM February 28, 1943 to February 28, 1943 No. 10

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|----------------|------------------|----------|----------------------|
| | | h m s | km, | |
| | | Ottawa | | |
| 66 Feb. 28 | H | 16 40.0 | 130 | |
| | P ₂ | 16 40 21 | | |
| | S ₂ | 16 40 36 | | |
| | F | 16 43 | | |
| | | Seven Falls | | |
| | e | 16 41 38 | | |
| | e | 16 41 51 | | |
| | F | 16 43 | | |
| | | Shawinigan Falls | | |
| | e | 16 41 05 | | |
| | F | 16 42 | | |
| | | | | <i>W. W. Doxsee.</i> |

EARTHQUAKE CORRELATION TABLE

Month February, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 37 | 3 | 23 17+0 02P* | 3 35+0 20L | 3 41+0 11L | ..... | ..... | ..... | ..... | .. |
| 38 | 6 | 3 25+0 42L | 9 46+0 06L | ..... | ..... | ..... | ..... | ..... | .. |
| 39 | 6 | 9 51+0 01P* | 5 50+0 41L | 5 21+1 31L | ..... | ..... | ..... | ..... | .. |
| 40 | 7 | 4 54+2 28u | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 41 | 8 | 20 19+0 02P | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 42 | 9 | 12 45+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 43 | 10 | 21 38+0 24u | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 44 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 45 | 14 | 7 39+0 02P | ..... | 8 14+0 09L | ..... | ..... | ..... | 11 44+0 03P | .. |
| 46 | 16 | 7 38+0 45u | 7 40+0 50u | 7 49+0 35u | 7 37+0 12u | ..... | ..... | 7 39+0 10u | A |
| 47 | 16 | 14 57+1 10u | 15 02+0 52u | 15 36+0 06L | ..... | 15 37+0 39L | ..... | ..... | .. |
| 48 | 16 | 16 51+0 04v | ..... | ..... | ..... | ..... | ..... | 16 52+0 02v | B |
| 49 | 16 | 17 09+0 04P | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 50 | 17 | 0 42+0 0.4P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 51 | 17 | 2 34+1 51u | 3 07+0 48L | ..... | ..... | ..... | ..... | ..... | .. |
| 52 | 17 | 5 53+1 26u | ..... | 3 14+0 47L | ..... | ..... | ..... | ..... | .. |
| 53 | 21 | 0 15+0 03P | ..... | 6 42+0 18L | ..... | 2 55+1 26u | ..... | ..... | .. |
| 54 | 21 | 16 49+0 01P | ..... | ..... | ..... | 6 57+0 39L | ..... | ..... | .. |
| 55 | 21 | 18 30+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 56 | 21 | 19 30+0 03P | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 57 | 22 | 9 28+3 22R | 9 28+2 25R | 9 28+3 46R | 9 28+2 00R | 9 28+2 49R | 9 28+1 36R | 9 28+1 40R | C |
| 58 | 22 | 10 19+0 04P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 59 | 22 | 11 02+0 26r | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 60 | 23 | 23 02+0 33r | 23 13+0 09L | ..... | ..... | ..... | ..... | ..... | .. |
| 61 | 24 | ..... | 4 43+0 11L | ..... | ..... | ..... | ..... | ..... | .. |
| 62 | 24 | 4 31+0 47u | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 63 | 24 | 15 27+0 0.4P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 64 | 25 | 5 24+0 0.3P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 65 | 28 | 13 07+1 05u | 13 08+1 01u | 13 17+0 43u | 13 17+0 08u | 13 07+1 18u | 13 07+0 14u | 13 07+0 02P | E |
| 66 | 28 | 16 40+0 03v | ..... | ..... | ..... | ..... | 16 42+0 01v | 16 41+0 01v | F |

CORRELATION OF EARTHQUAKES
February, 1943

.....

N O T E S

| | | | |
|-------|--|---------------------|---|
| ----- | | | |
| A : | Ottawa | $\Delta = 6280$ km. | H = 7 ^h 28 ^m .8 U.T. |
| | Victoria | $\Delta = 8365$ km. | H = 7 28.7 U.T. |
| | Seven Falls | $\Delta = 6450$ km. | H = 7 28.8 U.T. |
| | Shawinigan Falls | $\Delta = 6380$ km. | H = 7 28.8 U.T. |
| B : | Ottawa | $\Delta = 105$ km. | H = 16 ^h 51 ^m .0 U.T. |
| | Shawinigan Falls | $\Delta = 180$ km. | H = 16 51.0 U.T. |
| | Felt at Hawkesbury and Alexandria, Ont., and at Lachute, Que. | | |
| C : | Ottawa | $\Delta = 4400$ km. | H = 9 ^h 20 ^m .1 U.T. |
| | Victoria | $\Delta = 4200$ km. | H = 9 20.5 U.T. |
| | Saskatoon | $\Delta = 4035$ km. | H = 9 20.5 U.T. |
| | Halifax | $\Delta = 4920$ km. | H = 9 20.3 U.T. |
| | Seven Falls | $\Delta = 4920$ km. | H = 9 20.0 U.T. |
| | Shawinigan Falls | $\Delta = 4740$ km. | H = 9 20.0 U.T. |
| E : | Ottawa | $\Delta = 8960$ km. | H = 12 ^h 55 ^m .3 U.T. |
| | Victoria | $\Delta = 8960$ km. | H = 12 55.5 U.T. |
| | Seven Falls | $\Delta = 8860$ km. | H = 12 55.2 U.T. |
| F : | Ottawa | $\Delta = 130$ km. | H = 16 ^h 40 ^m .0 U.T. |

Dominion Observatory,
Ottawa, Canada,
March 25, 1943.

SEISMOLOGICAL BULLETINS RECEIVED
February and March, 1943

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

| STATIONS | BULLETINS | RECEIVED |
|--|--------------------------------|------------|
| United States Coast and Geodetic Survey | September to December, 1940 | February 1 |
| New Zealand Stations | November and December, 1942 | " 2 |
| Martinique | October to December, 1941 | " 2 |
| Mexico | January 1/35 to December 31/39 | " 4 |
| Santa Clara | January, 1943 | " 22 |
| Pasadena | January to March, 1941 | March 2 |
| Perth | December, 1942 | " 6 |
| Sydney | July and August, 1942 | " 9 |
| Santa Clara | February, 1943 | " 11 |
| Riverview | June to September, 1942 | " 13 |
| Bogota | July, 1942 | " 24 |

DOMINION OBSERVATORY,
OTTAWA - CANADA.

SEISMOLOGICAL SERVICE OF CANADA



SEISMOLOGICAL BULLETIN
March,
1943

o o o o

DOMINION OBSERVATORY
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N, $\lambda = 75^{\circ}42'57''$ W. h = 83m.

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. h = 46m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'4''$ N. $\lambda = 70^{\circ}49'6''$ W. h = 232m. ca.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield

Instruments: Wood-Anderson and Milne-Shaw, both EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N. $\lambda = 123^{\circ}24'56''$ W. h = 197m.

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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 smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

S T A T I O N S (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

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

SASKATOON

University of Saskatchewan

$\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.
 Time correction from radio time signals
 Foundation: clay and sand
 Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

$\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.
 Time correction from recorded radio time signals
 Foundation: rock
 Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | 5 mm. 16 mm. |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | |
| BL (Ottawa) | 1.0 | | | | |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2200 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 | cycles | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM March 1, 1943 to March 7, 1943 No. 11

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|------------------|-----------|---------------------|--|--|
| | | h m s | km. | | |
| 70 March 5 | | Ottawa | | | |
| | H | 0 31.8 | 4460 | USCGS. gives:- $\phi = 5^{\circ}8' N.$ $\lambda = 82^{\circ}8' W.$ | |
| | P | 0 39 21 | | | |
| | PP | 0 40 51 | | | |
| | S | 0 45 36 | | | |
| | SSS | 0 48.6 | | | |
| | eL | 0 52 | | | |
| | F | 2 14 | | | |
| | | Victoria | | | |
| | H | 0 31.8 | 6200 | | |
| | P | 0 41 19 | | | |
| | S | 0 49 11 | | | |
| | L | 0 59 | | | |
| | F | 2 04 | | | |
| | | Saskatoon | | | |
| H | (0 30.0) | 6520 | No time correction. | | |
| P | (0 39.9) | | | | |
| S | (0 48 04) | | | | |
| L | (0 58) | | | | |
| F | (1 40) | | | | |
| | Halifax | | | | |
| eN | 0 41.5 | | | | |
| eL | 0 45 42 | | | | |
| L | 0 48 | | | | |
| F | 1 20 | | | | |
| | Seven Falls | | | | |
| H | 0 31.8 | 4740 | | | |
| P | 0 39 44 | | | | |
| S | 0 46 14 | | | | |
| SSS | 0 49.4 | | | | |
| L | 0 55 | | | | |
| F | 2 07 | | | | |
| | Shawinigan Falls | | | | |
| H | 0 31.9 | 4480 | | | |
| P | 0 39 35 | | | | |
| PP | 0 41 21 | | | | |
| S | 0 45.8 | | | | |
| SSS | 0 49 11 | | | | |
| L | 0 55 | | | | |
| F | 1 09 | | | | |
| | Ottawa | | | | |
| 72 March 7 | H | 3 01.9 | 7010 | USCGS. gives:- $\phi = 57^{\circ}\pm N.$ $\lambda = 164^{\circ}\pm E.$ | |
| | P | 3 12 16 | | | |
| | S | 3 20.9 | | | |
| | SS | 3 25.3 | | | |
| | SSS | 3 28 | | | |
| | L | 3 32 | | | |
| | F | 5 23 | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM March 7, 1943 to March 9, 1943 No. 12

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|------------------------------|----------------|------------------|----------|---|--|
| | | h m s | km. | | |
| | | Victoria | | | |
| 72 March 7 (Cont'd) | H | 3 01.9 | 4480 | | |
| | P | 3 09 29 | | | |
| | PP | 3 11 08 | | | |
| | S | 3 15 45 | | | |
| | SSS | 3 19 08 | | | |
| | L F | 3 22 5 30 | | | |
| | | Saskatoon | | | |
| | H | 3 02.0 | 5010 | | |
| | P | 3 10 19 | | | |
| | S | 3 17 04 | | | |
| | SS | 3 20 08 | | | |
| | L F | 3 24 4 34 | | | |
| | | Halifax | | | |
| | H | 3 01.5 | 7660 | | |
| | P | 3 12 29 | | | |
| | S | 3 21 38 | | | |
| | L F | 3 37 4 20 | | | |
| | | Seven Falls | | | |
| | H | 3 01.9 | 7080 | | |
| | P | 3 12 21 | | | |
| | S | 3 21 03 | | | |
| | SS | 3 25.8 | | | |
| | SSS | 3 28 03 | | | |
| | L F | 3 33 6 05 | | | |
| | | Shawinigan Falls | | | |
| | H | 3 01.8 | 7140 | | |
| | P | 3 12 16 | | | |
| | S | 3 21 01 | | | |
| | L F | 3 38 3 56 | | | |
| | | Ottawa | | | |
| 76 March 9 | H | 3 25.9 | 410 | USCGS. gives:- $\phi = 42^{\circ}2' N.$ $\lambda = 80^{\circ}9' W.$ | |
| | P ₃ | 3 26 50 | | | |
| | P ₂ | 3 26 59 | | | |
| | S ₂ | 3 27 45 | | | |
| | L _? | 3 28 12 | | | |
| | F | 3 37 | | | |
| | | Shawinigan Falls | | | |
| | e | 3 28 38 | | | |
| | e | 3 29 20 | | | |
| | F | 3 36 | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM March 9, 1943 to March 10, 1943 No. 13

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|-------------------|-------------|-----------|----------|---|--|
| | | h m s | km. | | |
| 77 March 9 | | Ottawa | 12,800 | USCGS. gives:- $\phi = 56^\circ$ S. $\lambda = 72^\circ$ W. | |
| | H | 9 48.7 | | | |
| | P'Z | 10 07 30 | | | |
| | PP | 10 08 15 | | | |
| | SKSN | 10 14.1 | | | |
| | PS | 10 17 55 | | | |
| | SS | 10 24 08 | | | |
| | SSS | 10 28.0 | | | |
| | L | 10 47 | | | |
| | F | 13 41 | | | |
| | | Victoria | | | |
| | e | 10 10 45 | | | |
| | e | 10 11 44 | | | |
| | L | 10 52 | | | |
| | F | 13 35 | | | |
| | | Saskatoon | | | |
| | e | 10 11.6 | | | |
| | e | 10 27 | | | |
| | F | 13 16 | | | |
| | | Halifax | 12,300 | Clock correction uncertain. | |
| H | (10 48.1) | | | | |
| PP | (10 08.5) | | | | |
| SKS | (10 14 34) | | | | |
| PS | (10 17 44) | | | | |
| SS | (10 23) | | | | |
| F | (12 30) | | | | |
| | Seven Falls | | | | |
| e | 10 08 28 | | | | |
| e | 10 13 36 | | | | |
| e | 10 18 01 | | | | |
| e | 10 24 10 | | | | |
| L | 10 35 | | | | |
| F | 13 55 | | | | |
| | Ottawa | | | | |
| ez | 20 01.6 | | | | |
| eN | 20 11 | | | | |
| eL | 20 31 | | | | |
| F | 21 20 | | | | |
| | Seven Falls | | | | |
| e | 20 17 37 | | | | |
| L | 20 28 | | | | |
| | Ottawa | | | | |
| e | 8 34 45 | | | | |
| e | 8 40.7 | | | | |
| e | 8 44 | | | | |
| eL | 9 09 | | | | |
| | Ottawa | | | | |
| F | 10 20 | | | | |
| 81 March 10 | | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM March 10, 1943 to March 14, 1943 No. 14

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------------------|-------------------------------------|---|----------|--|
| | | h m s | km. | |
| 81 March 10 (Cont'd) | e L F | Victoria 8 37 20 9 23 10 19 | | |
| | e L F | Seven Falls 8 40.4 9 02 10 51 | | |
| 83 March 11 | eZ eN L F | Ottawa 9 53 00 10 15.5 10 26 11 19 | | |
| | e L F | Seven Falls 10 15.5 10 33 10 51 | | |
| 86 March 14 | eZ L F | Ottawa 12 12.4 12 45 13 53 | | |
| 88 March 14 | H P2 S2 e L? F | Ottawa 14 02.3 14 03 27 14 04 14.5 14 04 16.5 14 04 20 14 07 | 420 | |
| 89 March 14 | eZ eE eN eE e L F | Ottawa 17 29 58 17 31.4 17 34 17 37 17 41 48 17 48.7 18 05 18 56+ | | USCGS. gives:- $\phi = 22^{\circ} \pm S.$ $\lambda = 170^{\circ} \pm E.$ |
| | eE L F | Victoria (17 34) (17 55) (18 47) | | |
| | e L F | Saskatoon 17 38.5 18 00 18 58 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM March 14, 1943 to March 15, 1943 No. 15

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------------------|-------|------------------|----------|--|
| | | h m s | km. | |
| | | Seven Falls | | |
| 89 March 14 (Cont'd) | e | 17 31 52 | | |
| | e | 17 43.6 | | |
| | e | 17 49.2 | | |
| | L | 18 10 | | |
| | F | 20 34 | | |
| | | Ottawa | | |
| 90 March 14 | H | 18 38.3 | 6900 | USCGS. gives:- $\phi = 21^{\circ} \pm S.$ $\lambda = 71^{\circ} \pm W.$ |
| | P | 18 48 30 | | |
| | S | 18 57 02 | | |
| | L | 19 13 | | |
| | F | 20 05 | | |
| | | Saskatoon | | |
| | H | 18 38.1 | 8480 | |
| | P | 18 49 50 | | |
| | S | 18 59 38 | | |
| | L | 19 13 | | |
| | F | 19 53 | | |
| | | Halifax | | |
| | H | 18 38.2 | 6800 | |
| | P | 18 49.6 | | |
| | S | 18 58 03 | | |
| | e | 18 58 48 | | |
| | F | 19 34 | | |
| | | Seven Falls | | |
| | H | 18 38.2 | 7050 | |
| | P | 18 48 39 | | |
| | S | 18 57 19 | | |
| | PS | 18 58 05 | | |
| | M | 19 24 | | |
| F | 19 29 | | | |
| | | Shawinigan Falls | | |
| | H | 18 38.2 | 7020 | |
| | P | 18 48 36 | | |
| | S | 18 57 15 | | |
| | PS | 18 58 00 | | |
| | F | 19 04 | | |
| | | Ottawa | | |
| 91 March 15 | eZ | 2 43 36 | | USCGS. gives:- $\phi = 21^{\circ} \pm S.$ $\lambda = 169^{\circ} \pm E.$ |
| | e | 2 55.0 | | |
| | L | 3 22 | | |
| | F | 4 53 | | |
| | | Saskatoon | | |
| | e | 2 52.3 | | |
| | L | 3 15 | | |
| | F | 3 57 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM March 15, 1943 to March 15, 1943 No. 16

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------------------|----------------------------|---|----------|--|
| | | h m s | km. | |
| 91 March 15 (Cont'd) | e e L F | Seven Falls 2 45.6 2 55.3 3 26 5 30+ | | |
| 92 March 15 | eZ eN L F | Ottawa 5 06.6 5 15 5 33 6 37 | | USCGS. gives:- $\phi = 10^{\circ} \pm N.$ $\lambda = 142^{\circ} \pm E.$ |
| 93 March 15 | e e L F | Saskatoon 5 12 38 5 19 02 5 30 6 01 | | |
| 94 March 15 | eZ L F | Ottawa 15 06.4 15 15 15 34 | | |
| 94 March 15 | e e e e L F | Ottawa 23 17 35 23 23 18 23 24 08 23 27 05 23 32 30 23 44 0 42 | | USCGS. gives:- $\phi = 14^{\circ} \pm S.$ $\lambda = 174^{\circ} \pm W.$ |
| | H P S L F | Victoria 22 59.6 23 10 55 23 20 21 23 32 0 33 | 8000 | |
| | e e i e F | Saskatoon 23 16 38 23 23 04 23 23 27 23 29.6 0 00 | | |
| | e e e e F | Seven Falls 23 18 02 23 23 32 23 24 33 23 27 18 23 33 0 48 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM March 15, 1943 to March 20, 1943 No. 17

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|-------------------------------|-------------|----------|---------|--|
| | | h m s | km. | | |
| 97 March 16 | eZ e L F | Ottawa | | | |
| | | 10 00 04 | | | |
| | | 10 06.8 | | | |
| | | 10 10 | | | |
| | e e L F | Victoria | | | |
| | | 10 02 10 | | | |
| | | 10 10 22 | | | |
| | | 10 26 | | | |
| 99 March 17 | H P S L F | Ottawa | 7480 | | |
| | | 22 58.0 | | | |
| | | 23 08 49 | | | |
| | | 23 17 50 | | | |
| | e L F | Victoria | | | |
| | | 23 30 | | | |
| | | 23 51 | | | |
| | | 23 21 03 | | | |
| | H P S L F | Seven Falls | | 7680 | |
| | | 23 44 | | | |
| | | 23 57 | | | |
| | | 22 57.9 | | | |
| 105 March 19 | eZ L F | Ottawa | | | |
| | | 23 08 57 | | | |
| | | 23 18 07 | | | |
| 107 March 20 | e L F | Ottawa | | | |
| | | 17 35 27 | | | |
| | | 17 54 | | | |
| | e _E e L F | Ottawa | | | |
| | | 18 05 | | | |
| | | 5 20.2 | | | |
| | e L F | Victoria | | | |
| | | 5 26.4 | | | |
| | | 5 43 | | | |
| | e L F | Saskatoon | | | |
| | | 6 50 | | | |
| | | 5 13.8 | | | |
| e L F | Saskatoon | | | | |
| | 5 29 | | | | |
| | 6 19 | | | | |
| e L F | Saskatoon | | | | |
| | 5 16.8 | | | | |
| | 5 22.4 | | | | |
| e L F | Saskatoon | | | | |
| | 5 35 | | | | |
| | 6 24 | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM March 20, 1943 to March 25, 1943 No. 18

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | | | |
|--------------------------------|----------|-------------|----------|---|----------|--|--|
| | | h m s | km. | | | | |
| 107 March 20 (Cont'd) | e | 5 20.6 | 13,900 | USCGS. gives:- $\phi = 6^{\circ} \pm$ S. $\lambda = 146^{\circ} \pm$ E. | | | |
| | e | 5 27.4 | | | | | |
| | L | 5 46 | | | | | |
| | F | 7 21 | | | | | |
| | | Ottawa | | | | | |
| 110 March 21 | H | 20 35.6 | 9900 | | | | |
| | P'Z | 20 54 39 | | | | | |
| | e | 20 56 48 | | | | | |
| | SN | 21 04.4 | | | | | |
| | PS | 21 06.3 | | | | | |
| | SS | 21 13.1 | | | | | |
| | eL | 21 27 | | | | | |
| | F | 23 37 | | | | | |
| | | | | | Victoria | | |
| | H | 20 36.1 | | | | | |
| P | 20 49.0 | | | | | | |
| S | 20 59 50 | | | | | | |
| L | 21 13 | | | | | | |
| F | 23 35 | | | | | | |
| | | Saskatoon | | | | | |
| e | 21 01 20 | | | | | | |
| L | 21 18 | | | | | | |
| F | 23 11 | | | | | | |
| | | Seven Falls | | | | | |
| e | 20 59.0 | | | | | | |
| e | 21 07.1 | | | | | | |
| e | 21 15.5 | | | | | | |
| L | 21 28 | | | | | | |
| F | 23 47 | | | | | | |
| | | Ottawa | | | | | |
| 111 March 22 | eZ | 8 43 00 | | | | | |
| | eN | 9 02 | | | | | |
| | L | 9 26 | | | | | |
| | F | 9 53 | | | | | |
| | | Seven Falls | | | | | |
| e | 8 43 02 | | | | | | |
| L | 9 25 | | | | | | |
| F | 9 53 | | | | | | |
| | | Ottawa | | | | | |
| 112 March 25 | e | 18 46 40 | | | | | |
| | e | 18 57.6 | | | | | |
| | e | 19 02.5 | | | | | |
| | e | 19 05.5 | | | | | |
| | L | 19 14 | | | | | |
| | F | 21 00 ca. | | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM March 25, 1943 to March 26, 1943 No. 19

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------------------|------------------|-------------|----------|---------|
| | | h m s | km. | |
| 112 March 25 (Cont'd) | | Victoria | | |
| | e | 18 49 07 | | |
| | e _E | 18 51 13 | | |
| | e _N | 19 07.8 | | |
| | L | 19 30 | | |
| | F | 20 51 | | |
| | | Seven Falls | | |
| | e | 18 47 34 | | |
| | e | 18 58 02 | | |
| | e | 19 02.4 | | |
| L | 19 13 | | | |
| F | 21 16 | | | |
| | | Ottawa | | |
| 113 March 26 | e _Z | 16 01 42 | | |
| | L _N | 16 15 | | |
| | F | 16 21 | | |
| | | Ottawa | | |
| 114 March 26 | H | 17 38.0 | 12,800 | |
| | e _Z | 17 56 46 | | |
| | PP | 17 57 33 | | |
| | SKS _E | 18 03 22 | | |
| | S _N | 18 05 18 | | |
| | PS | 18 07 06 | | |
| | SS _N | 18 13 15 | | |
| | SSS _N | 18 18.8 | | |
| | eL | 18 30 | | |
| | F | 19 10 | | |
| | | Victoria | | |
| | H | 17 38.4 | 9180 | |
| | P _N | 17 50 47 | | |
| e _E | 17 51 26 | | | |
| S _E | 18 01 06 | | | |
| L | 18 17 | | | |
| F | 19 01 | | | |
| | Saskatoon | | | |
| e | 17 54 33 | | | |
| e | 18 02 02 | | | |
| e | 18 02 45 | | | |
| L | 18 23 | | | |
| F | 18 49 | | | |
| | Seven Falls | | | |
| H | 17 38.0 | 13,100 | | |
| PP | 17 57 57 | | | |
| SKS | 18 03 36 | | | |
| PS | 18 07 38 | | | |
| L | 18 33 | | | |
| F | 20 03 | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM March 26, 1943 to March 31, 1943 No. 20

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|---|---|----------|---|
| | | h m s | km. | |
| 116 March 29 | eZ L F | Ottawa 5 33 04 6 18 6 47 | | |
| 117 March 31 | H P ₃ P ₂ P ₁ S ₃ S ₂ S ₁ e F | Ottawa 6 41.9 6 42 52.5 6 43 01 6 43 13 6 43 38 6 43 51 6 44 03 6 44 11 6 47 | 440 | Rockburst at Lake Shore Mines, Kirkland Lake , Ont. |
| | | Seven Falls | | |
| | e F | 6 45 03 6 46 | | |
| | | Shawinigan Falls | | |
| | e e F | 6 44 04 6 44 25 6 46 | | |
| 118 March 31 | eZ e eL F | Ottawa 21 56 32 22 03 07 22 08 22 28 | | |

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month March, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|---------------|-------------|-------------|--------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 67 | 1 | 8 03+0 01P | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 68 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 69 | 4 | 20 42+0 18L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 70 | 5 | 0 39+1 35R | 0 41+1 23u | (0 40+1 00u | 0 41+0 40u | 0 40+1 27R | 0 40+0 21R | 0 40+0 29R | A |
| 71 | 6 | ..... | ..... | 15 30+0 24L | ..... | ..... | ..... | ..... | .. |
| 72 | 7 | 3 12+2 11u | 3 09+2 21r | 3 10+1 24u | 3 12+1 08u | 3 12+2 53u | 3 12+0 42u | 3 12+0 44u | B |
| 73 | 7 | ..... | 21 46+0 07L | ..... | ..... | ..... | ..... | ..... | .. |
| 74 | 8 | 9 48+0 12L | ..... | 9 46+0 10L | ..... | 9 50+0 06L | ..... | ..... | .. |
| 75 | 8 | 22 45+0 0.5P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 76 | 9 | 3 27+0 10V | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 77 | 9 | 10 07+3 34U | 10 11+3 24U | 10 12+3 04U | (10 08+2 22U | 10 08+3 47U | 3 29+0 08v | 3 29+0 07v | C |
| 78 | 9 | 15 39+0 03P* | 20 52+0 18L | 20 52+0 10L | ..... | 20 18+1 22u | ..... | 10 08+0 03P | E |
| 79 | 9 | 20 02+1 18u | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 80 | 9 | 21 35+0 01P* | 8 37+1 42u | 9 23+0 37L | ..... | 8 40+2 11u | ..... | ..... | .. |
| 81 | 10 | 8 35+1 45u | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 82 | 11 | 3 51+0 01P* | ..... | ..... | ..... | ..... | 3 50+0 02P | ..... | .. |
| 83 | 11 | 9 53+1 26u | ..... | ..... | ..... | 10 15+0 36u | ..... | ..... | .. |
| 84 | 12 | 23 22+0 29L | ..... | ..... | ..... | 23 18+0 51L | ..... | ..... | .. |
| 85 | 14 | 9 05+0 01P* | ..... | ..... | ..... | 9 59+0 23L | ..... | ..... | .. |
| 86 | 14 | 12 12+1 41u | ..... | ..... | ..... | 12 47+1 43L | ..... | ..... | .. |
| 87 | 14 | 12 56+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 88 | 14 | 14 03+0 04v | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 89 | 14 | 17 30+1 26u | 17 34+1 13u | 17 38+1 20u | 18 20+0 32L | 17 32+3 02u | 18 16+0 25L | ..... | F |
| 90 | 14 | 18 48+1 17u | 18 50+1 00u | 18 50+1 03u | 18 50+0 44u | ..... | 18 49+0 40u | 18 49+0 15u | G |
| 91 | 15 | 2 44+2 09u | ..... | 2 52+1 05u | 3 37+0 21L | 2 46+2 45u | ..... | ..... | .. |
| 92 | 15 | 5 07+1 30u | ..... | 5 13+0 48u | ..... | 5 36+1 32L | ..... | ..... | .. |
| 93 | 15 | 15 06+0 28u | ..... | ..... | ..... | 15 17+0 54L | ..... | ..... | .. |
| 94 | 15 | 23 18+1 24u | 23 11+1 22u | 23 17+0 43u | ..... | 23 18+1 30u | ..... | ..... | J |
| 95 | 16 | 8 55+0 0.5P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 96 | 16 | 9 56+0 0.3P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 97 | 16 | 10 00+0 32r | 10 02+0 38u | ..... | ..... | ..... | ..... | ..... | .. |
| 98 | 16 | 23 22+0 01P | ..... | ..... | ..... | 10 07+0 23L | ..... | ..... | .. |

EARTHQUAKE CORRELATION TABLE
 Month March, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 99 | 17 | 23 09+0 42u | 23 21+0 36u | | | 23 18+0 27u | 23 09+0 11u | 23 09+0 03P | K |
| 100 | 18 | 13 03+0 02P | 13 19+0 09L | | | | | | |
| 101 | 18 | 13 58+0 02P* | | | | | | | |
| 102 | 18 | | | | | | | | |
| 103 | 19 | 3 05+0 02L | | | | | 20 43+0 01v | | |
| 104 | 19 | | | | | 3 05+0 03L | 3 05+0 02L | | |
| 105 | 19 | 17 35+0 30u | 9 51+0 10L | | | 10 09+0 05L | | | |
| 106 | 19 | 20 45+0 0.7P* | 17 35+0 25L | | | 17 55+0 08L | | | |
| 107 | 20 | 5 20+1 30u | 5 14+1 05u | 5 17+1 07u | | 5 21+2 00u | | | |
| 108 | 20 | 7 05+0 01P* | | | | | | | |
| 109 | 20 | 21 10+0 06L | 21 03+0 08L | | | | | | |
| 110 | 21 | 20 55+2 42U | 20 49+2 46U | 21 01+2 10U | 21 33+1 13L | 20 59+2 48U | 21 46+0 28L | 21 29+0 30L | N |
| 111 | 22 | 8 43+1 10u | | | | 9 25+0 28L | 8 43+0 02P | | |
| 112 | 25 | 18 47+2 13u | 18 49+2 02u | | 19 03+0 44L | 18 48+2 29u | | | |
| 113 | 26 | 16 02+0 19u | | | | 16 16+0 06L | | | |
| 114 | 26 | 17 57+1 13u | 17 51+1 10u | 17 55+0 55u | | 17 58+2 05u | 17 58+0 13u | | Q |
| 115 | 26 | 18 08+0 04P* | | | | | | | |
| 116 | 29 | 5 33+1 14u | 6 44+0 26L | 6 36+0 05L | | 6 16+0 15L | | | |
| 117 | 31 | 6 43+0 04v | | | | | 6 45+0 01v | 6 44+0 02v | R |
| 118 | 31 | 21 57+0 31u | 22 19+0 17L | | | 22 07+0 14L | | | |

CORRELATION OF EARTHQUAKES
March, 1943

.....

N O T E S

| | | |
|---|-----------------------|----------------------|
| ----- | | |
| A : Ottawa | $\Delta = 4,460$ km. | H = 0^h31^m8 U.T. |
| Victoria | $\Delta = 6,200$ km. | H = $0\ 31.8$ U.T. |
| Saskatoon | $\Delta = 6,520$ km. | H = $(0\ 30.0)$ U.T. |
| Seven Falls | $\Delta = 4,740$ km. | H = $0\ 31.8$ U.T. |
| Shawinigan Falls | $\Delta = 4,480$ km. | H = $0\ 31.9$ U.T. |
| B : Ottawa | $\Delta = 7,010$ km. | H = 3^h01^m9 U.T. |
| Victoria | $\Delta = 4,480$ km. | H = $3\ 01.9$ U.T. |
| Saskatoon | $\Delta = 5,010$ km. | H = $3\ 02.0$ U.T. |
| Halifax | $\Delta = 7,660$ km. | H = $3\ 01.5$ U.T. |
| Seven Falls | $\Delta = 7,080$ km. | H = $3\ 01.9$ U.T. |
| Shawinigan Falls | $\Delta = 7,140$ km. | H = $3\ 01.8$ U.T. |
| C : Ottawa | $\Delta = 410$ km. | H = 3^h25^m9 U.T. |
| Felt in SW. Ontario, Western New York State and Pennsylvania. | | |
| E : Ottawa | $\Delta = 12,800$ km. | H = 9^h48^m7 U.T. |
| Halifax | $\Delta = 12,300$ km. | H = $(9\ 48.1)$ U.T. |
| F : Ottawa | $\Delta = 420$ km. | H = 14^h02^m3 U.T. |
| G : Ottawa | $\Delta = 6,900$ km. | H = 18^h38^m3 U.T. |
| Saskatoon | $\Delta = 8,480$ km. | H = $18\ 38.1$ U.T. |
| Halifax | $\Delta = 6,800$ km. | H = $18\ 38.2$ U.T. |
| Seven Falls | $\Delta = 7,050$ km. | H = $18\ 38.2$ U.T. |
| Shawinigan Falls | $\Delta = 7,020$ km. | H = $18\ 38.2$ U.T. |
| J : Victoria | $\Delta = 8,000$ km. | H = 22^h59^m6 U.T. |
| K : Ottawa | $\Delta = 7,480$ km. | H = 22^h58^m0 U.T. |
| Seven Falls | $\Delta = 7,680$ km. | H = $22\ 57.9$ U.T. |
| N : Ottawa | $\Delta = 13,900$ km. | H = 20^h35^m6 U.T. |
| Victoria | $\Delta = 9,900$ km. | H = $20\ 36.1$ U.T. |
| Q : Ottawa | $\Delta = 12,800$ km. | H = 17^h38^m0 U.T. |
| Victoria | $\Delta = 9,180$ km. | H = $17\ 38.4$ U.T. |
| Seven Falls | $\Delta = 13,100$ km. | H = $17\ 38.0$ U.T. |
| R : Ottawa | $\Delta = 440$ km. | H = 16^h41^m9 U.T. |
| Rockburst at Lake Shore Mines, Kirkland Lake, Ont. | | |

Dominion Observatory,
Ottawa, Canada,
May 6, 1943.

SEISMOLOGICAL SERVICE OF CANADA



SEISMOLOGICAL BULLETIN

April

1943

DOMINION OBSERVATORY
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83\text{m.}$

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46\text{m.}$

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'4''$ N. $\lambda = 70^{\circ}49'6''$ W. $h = 232\text{m. ca.}$

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield

Instruments: Wood-Anderson and Milne-Shaw, both EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N. $\lambda = 123^{\circ}24'56''$ W. $h = 197\text{m.}$

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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 smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

S T A T I O N S (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

$\phi = 46^{\circ}33'11''$ N. $\lambda = 72^{\circ}45'18''$ W. $h = 60$ m. ca.
 Time correction from recorded radio time signals
 Foundation: solid granite of Canadian Shield
 Instrument: Wood-Anderson NS component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15g.

SASKATOON

University of Saskatchewan

$\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.
 Time correction from radio time signals
 Foundation: clay and sand
 Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

$\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.
 Time correction from recorded radio time signals
 Foundation: rock
 Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | 5 mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2200 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 | cycles | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM April 1, 1943 to April 5, 1943 No. 21

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|-------|------------------|----------|---------|
| | | h m s | km. | |
| | | Ottawa | | |
| 119 Apr. 1 | eZ | 14 37 48 | | |
| | eN | 14 41 32 | | |
| | eE | 14 59 36 | | |
| | eL | 15 16 | | |
| | F | 16 56 | | |
| | | Victoria | | |
| | e | 14 43.5 | | |
| | eN | 14 58 29 | | |
| | L | 15 10 | | |
| | F | 16 52 | | |
| | | Seven Falls | | |
| | e | 14 58 40 | | |
| | L | 15 18 | | |
| | F | 16 32 | | |
| | | Shawinigan Falls | | |
| | e | 14 38 03 | | |
| | L | 15 47 | | |
| | F | 15 56 | | |
| | | Ottawa | | |
| 123 Apr. 5 | eZ | 2 09 15 | | |
| | eN | 2 19 48 | | |
| | eE | 2 20 12 | | |
| | e | 2 25.0 | | |
| | eL | 2 33 | | |
| | F | 3 38 | | |
| | | Victoria | | |
| | e | 2 20 14 | | |
| | L | 2 40 | | |
| | F | 3 34 | | |
| | | Saskatoon | | |
| | e | 2 19.8 | | |
| | L | 2 36 | | |
| | F | 3 25 | | |
| | | Seven Falls | | |
| | e | 2 19 47 | | |
| | L | 2 36 | | |
| | F | 3 37 | | |
| | | Ottawa | | |
| 126 Apr. 5 | eZ | 21 04 05 | | |
| | L | 21 40 | | |
| | F | 22 22 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM April 5, 1943 to April 6, 1943 No. 22

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|------------------|-----------|----------|--|
| | | h m s | km. | |
| 129 Apr. 6 | | Ottawa | | |
| | H | 16 07.3 | 8400 | Compression to N. USCGS, gives:- $\phi = 32^\circ$ S. $\lambda = 70^\circ$ W. |
| | iP | 16 19 02 | | |
| | PP | 16 22.0 | | |
| | iS | 16 28 47 | | |
| | i | 16 30 20 | | |
| | iN | 16 32 13 | | |
| | SS | 16 33 58 | | |
| | eL | 16 45 | | |
| | F | 21 15 | | |
| | | Victoria | | |
| | H | 16 07.2 | 10,335 | |
| | P | 16 20 24 | | |
| | PP | 16 24 02 | | |
| | S | 16 31 32 | | |
| | SS | 16 37.8 | | |
| | eL | 16 45 | | |
| | F | 21 25 | | |
| | | Saskatoon | | |
| | H | 16 07.3 | 9740 | |
| | P | 16 20 04 | | |
| | PP | 16 23 45 | | |
| | iS | 16 30 47 | | |
| | e | 16 33 36 | | |
| | SS | 16 36 45 | | |
| | SSS | 16 40.5 | | |
| | eL | 16 44 | | |
| | F | 20 00ca. | | |
| | | Halifax | | |
| | H | 16 07.3 | 8440 | |
| P | 16 19 00 | | | |
| S | 16 28 45 | | | |
| SS | 16 33.5 | | | |
| SSS | 16 36.5 | | | |
| eL | 16 42 | | | |
| F | 19 15 | | | |
| | Seven Falls | | | |
| H | 16 07.4 | 8560 | | |
| P | 16 19 12 | | | |
| e | 16 26 18 | | | |
| iS | 16 29 04 | | | |
| SS | 16 34 19 | | | |
| eL | 16 41 | | | |
| F | 20 41 | | | |
| | Shawinigan Falls | | | |
| H | 16 07.3 | 8500 | | |
| P | 16 19 08 | | | |
| PP | 16 22.1 | | | |
| S | 16 28 57 | | | |
| SS | 16 33.9 | | | |
| eL | 16 46 | | | |
| F | 18 47 | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM April 6, 1943 to April 8, 1943 No. 23

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|--|--|----------|---------|
| | | h m s | km. | |
| 137 Apr. 7 | H P S eL F | Ottawa 13 07.1 13 18 49 13 28 35 13 44 14 52 | 8420 | |
| | | Victoria 13 30.7 13 51 15 18 | | |
| | e L F | | | |
| | | Saskatoon 13 30 36 13 56 14 16+ | | |
| | e L F | | | |
| | | Seven Falls 13 28 53 13 39 15 07 | | |
| | e L F | | | |
| 141 Apr. 7 | H P PP _N S SS _N eL F | Ottawa 23 18.0 23 29 42 23 32.6 23 39 28 23 44.3 23 57 1 17 | 8420 | |
| | | Victoria 23 42 06 0 01 1 32 | | |
| | e L F | | | |
| | | Saskatoon 23 41 29 0 07 1 02 | | |
| | e L F | | | |
| | | Seven Falls 23 18.0 23 29.9 23 39 46 23 46 1 28 | 8540 | |
| | H P S L F | | | |
| 144 Apr. 8 | eZ LN F | Ottawa 23 13 23 23 45 0 00 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM April 8, 1943 to April 11, 1943 No. 24

| NO. AND DATE | PHASE | TIME | DISTAMCE | REMARKS |
|--------------------|-------------|----------|----------|--|
| | | h m s | km. | |
| 145 Apr. 9 | | Ottawa | | USCGS. gives:- $\phi = 19^{\circ}$ N. $\lambda = 145^{\circ}$ E. |
| | eZ | 9 06 18 | | |
| | e | 9 07 14 | | |
| | e | 9 13 13 | | |
| | e | 9 14 25 | | |
| | eZ | 9 17 | | |
| | e | 9 22 | | |
| | L? | 9 32 | | |
| | F | 10 53 | | |
| | | Victoria | | |
| | H | 8 49.2 | 8110 | |
| | P | 9 00 36 | | |
| | e | 9 04.1 | | |
| | iS | 9 10 08 | | |
| | eL | 9 19 | | |
| F | 10 29 | | | |
| | Saskatoon | | | |
| H | 8 49.1 | 8940 | | |
| eP | 9 01 18 | | | |
| iS | 9 11 36 | | | |
| SS | 9 17 05 | | | |
| eL | 9 24 | | | |
| F | 10 00ca. | | | |
| | Seven Falls | | | |
| e | 9 07 19 | | | |
| e | 9 13.2 | | | |
| e | 9 14 29 | | | |
| e | 9 22.3 | | | |
| L | 9 33 | | | |
| F | 10 37 | | | |
| | Ottawa | | | |
| H | 14 46.2 | 10,000 | | |
| PZ | 14 59 09 | | | |
| S | 15 10 04 | | | |
| SS | 15 16 18 | | | |
| eL | 15 30 | | | |
| F | 17 20 | | | |
| | Victoria | | | |
| H | 14 46.5 | 7120 | | |
| P | 14 57 01 | | | |
| S | 15 05 45 | | | |
| e | 15 14 | | | |
| L | 15 19 | | | |
| F | 17 00ca. | | | |
| | Saskatoon | | | |
| e | 15 11 | | | |
| L | 15 19 | | | |
| F | 16 40 | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA



From the ISC collection scanned by SISMOS

| FROM | | April 11, 1943 | | to | April 17, 1943 | | No. 25 | | |
|-------------------------------|----------------|----------------|----------|-------------|----------------|--|--------|--|--|
| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | | | | | |
| | | h m s | km. | | | | | | |
| 148 Apr. 11 (Cont'd) | e | 15 10 06 | | Seven Falls | | | | | |
| | e | 15 16.3 | | | | | | | |
| | e | 15 20.8 | | | | | | | |
| | L | 15 31 | | | | | | | |
| | F | 17 10 | | | | | | | |
| 150 Apr. 12 | eZ | 19 56 31 | | Ottawa | | | | | |
| | e | 20 07 32 | | | | | | | |
| | eL | 20 29 | | | | | | | |
| | F | 21 08 | | | | | | | |
| | | | | | Victoria | | | | |
| 152 Apr. 13 | e | 20 03 08 | | | | | | | |
| | L | 20 25 | | | | | | | |
| | F | 21 03 | | | | | | | |
| | | | | | Victoria | | | | |
| | e _E | 12 53 36 | | | | | | | |
| 153 Apr. 15 | L | 13 10 | | | | | | | |
| | F | 13 28 | | | | | | | |
| | | | | Ottawa | | | | | |
| 154 Apr. 15 | eZ | 10 59 11 | | | | | | | |
| | L | 11 10 | | | | | | | |
| | F | 11 27 | | | | | | | |
| 154 Apr. 15 | | | | Ottawa | | | | | |
| | H | 11 34.9 | 8420 | | | | | | |
| | P | 11 46 39 | | | | | | | |
| | S | 11 56 25 | | | | | | | |
| | SSS | 12 05 | | | | | | | |
| | eL | 12 13 | | | | | | | |
| | F | 14 00ca. | | | | | | | |
| | | | | | Victoria | | | | |
| | H | 11 35.3 | 9880 | | | | | | |
| | P | 11 48 11 | | | | | | | |
| 162 Apr. 17 | S | 11 59 00 | | | | | | | |
| | L | 12 16 | | | | | | | |
| | F | 14 13 | | | | | | | |
| | | | | Saskatoon | | | | | |
| | e | 11 58 22 | | | | | | | |
| 162 Apr. 17 | L | 12 11 | | | | | | | |
| | F | 13 18 | | | | | | | |
| | | | | Seven Falls | | | | | |
| | e | 11 56 43 | | | | | | | |
| | e | 12 02 | | | | | | | |
| 162 Apr. 17 | L | 12 16 | | | | | | | |
| | F | 14 02 | | | | | | | |
| | | | | Victoria | | | | | |
| 162 Apr. 17 | eN | 0 40.5 | | | | | | | |
| | L | 0 48 | | | | | | | |
| | F | 1 08 | | | | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM April 17, 1943 to April 30, 1943 No. 26

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|----------------|------------------|----------|---------|
| | | h m s | | |
| | | Saskatoon | | |
| 162 | e | 0 46.2 | | |
| Apr. | L | 0 53 | | |
| 17 | F | 1 10 | | |
| (Cont'd) | | | | |
| | | Ottawa | | |
| 164 | H | 1 19.4 | 3040 | |
| Apr. | PZ | 1 25 14 | | |
| 19 | S | 1 30.0 | | |
| | L | 1 33 | | |
| | F | 1 56 | | |
| | | Seven Falls | | |
| | e | 1 30.6 | | |
| | L | 1 34 | | |
| | F | 2 05 | | |
| | | Ottawa | | |
| 166 | H | 7 21.0 | 145 | |
| Apr. | P ₂ | 7 21 25 | | |
| 21 | S ₂ | 7 21 42 | | |
| | F | 7 22.2 | | |
| | | Ottawa | | |
| 167 | eZ | 18 18 39 | | |
| Apr. | L | 18 39 | | |
| 23 | F | 18 57 | | |
| | | Ottawa | | |
| 171 | eZ | 0 01 05 | | |
| Apr. | e | 0 09 | | |
| 29 | L | 0 18 | | |
| | F | 1 07 | | |
| | | Ottawa | | |
| 172 | H | 15 25.0 | 9030 | |
| Apr. | PZ | 15 37 13 | | |
| 29 | S | 15 47 25 | | |
| | SSSE | 15 56.3 | | |
| | eL | 16 03 | | |
| | F | 16 33 | | |
| | | Seven Falls | | |
| | e | 15 47 28 | | |
| | L | 16 03 | | |
| | F | 16 28 | | |
| | | Shawinigan Falls | | |
| | H | 15 25.0 | 9050 | |
| | P | 15 37 14 | | |
| | S | 15 47 27 | | |
| | F | 15 50 | | |

W. W. Dysee.

EARTHQUAKE CORRELATION TABLE
 Month April, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 119 | 1 | 14 38+2 18u | 14 44+2 08u | 15 13+1 27L | 15 19+0 45L | 14 59+1 33u | ..... | 14 38+1 18u | .. |
| 120 | 2 | 20 13+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 121 | 3 | 15 44+0 13L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 122 | 4 | 12 45+0 26L | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 123 | 5 | 2 09+1 29u | 2 20+1 14u | 2 20+1 05u | ..... | 2 20+1 17u | ..... | 2 09+0 02P | .. |
| 124 | 5 | 3 18+0 03P | ..... | ..... | ..... | ..... | ..... | 3 18+0 04P | .. |
| 125 | 5 | 8 42+0 10L | 8 38+0 13L | 8 40+0 08L | ..... | 8 44+0 17L | ..... | 8 44+0 04L | .. |
| 126 | 5 | 21 04+1 18u | 21 24+0 12L | ..... | ..... | 21 47+0 24L | ..... | ..... | .. |
| 127 | 5 | ..... | ..... | ..... | ..... | 22 48+0 08L | ..... | ..... | .. |
| 128 | 6 | 15 47+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 129 | 6 | 16 19+4 56U | 16 20+5 05U | 16 20+3 40U | 16 19+2 56U | 16 19+4 22U | 16 19+2 20U | 16 19+2 28U | A |
| 130 | 6 | 16 46+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 131 | 6 | 18 29+0 0.6P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 132 | 6 | 18 59+0 0.3P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 133 | 6 | 20 15+0 0.1P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 134 | 6 | 20 31+0 0.4P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 135 | 7 | ..... | 7 01+0 18L | ..... | ..... | ..... | ..... | ..... | .. |
| 136 | 7 | 9 38+0 29L | 9 35+0 23L | 9 37+0 04L | ..... | 9 40+0 27L | ..... | ..... | .. |
| 137 | 7 | 13 19+1 33u | 13 31+1 47u | 13 31+0.46u | ..... | 13 29+1 38u | ..... | 13 19+0 03P | B |
| 138 | 7 | 17 08+0 0.6v | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 139 | 7 | 18 13+0 01P | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 140 | 7 | 22 52+0 01P | 23 16+0 13L | ..... | ..... | ..... | ..... | ..... | .. |
| 141 | 7 | 23 30+1 47u | 23 42+1 50u | 23 41+1 21u | ..... | 23 40+1 48u | ..... | 23 30+0 03P | C |
| 142 | 8 | 5 52+0 0.4P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 143 | 8 | 18 42+0 01P | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 144 | 8 | 23 13+0 47u | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 145 | 9 | 9 06+1 47u | 9 01+1 28u | 9 01+0 59u | ..... | 9 07+1 30u | 9 13+0 02P | 9 07+0 06P | E |
| 146 | 9 | 19 58+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 147 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 148 | 11 | 14 59+2 21u | 14 57+2 03u | 15 11+1 29u | 15 37+0 23L | ..... | ..... | 23 07+0 01P | F |
| 149 | 12 | 5 06+0 27L | ..... | ..... | ..... | 5 10+0 19L | ..... | 15 44+0 07L | .. |
| 150 | 12 | 19 57+1 11u | 20 03+1 00u | ..... | ..... | 20 32+0 46L | ..... | ..... | .. |
| 151 | 13 | 9 08+0 03P | 9 20+0 03L | ..... | ..... | ..... | 9 08+0 02P | 9 08+0 03P | .. |

EARTHQUAKE CORRELATION TABLE
 April, 1943

Month

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 152 | 13 | .. | 12 54+0 34u | .. | .. | .. | .. | .. | .. |
| 153 | 15 | 10 59+0 28r | 10 53+0 23L | 11 00+0 10L | .. | 11 12+0 12L | .. | .. | .. |
| 154 | 15 | 11 47+2 13u | 11 48+2 25u | 11 58+1 20u | .. | 11 57+2 05u | .. | .. | G |
| 155 | 15 | 14 42+0 01P* | 15 05+0 11L | .. | .. | .. | .. | .. | .. |
| 156 | 15 | 17 36+0 02P* | .. | .. | .. | .. | .. | .. | .. |
| 157 | 15 | 17 51+0 20L | 17 39+0 15L | 17 43+0 12L | 17 55+0 06L | 17 53+0 20L | 17 53+0 04L | 17 36+0 01P | .. |
| 158 | 15 | 21 30+0 0.5P* | .. | .. | .. | .. | .. | 17 52+0 04L | .. |
| 159 | 15 | 21 46+0 06L | .. | 21 36+0 05L | .. | 21 47+0 05L | 21 46+0 02L | .. | .. |
| 160 | 16 | .. | 0 45+0 09L | .. | .. | .. | .. | .. | .. |
| 161 | 16 | .. | 12 31+0 06L | .. | .. | .. | .. | .. | .. |
| 162 | 17 | 1 03+0 13L | 0 40+0 28r | 0 46+0 24r | .. | 1 01+0 17L | .. | .. | .. |
| 163 | 17 | 3 45+0 23L | 3 30+0 05L | .. | .. | 3 45+0 24L | .. | .. | .. |
| 164 | 19 | 1 25+0 31r | .. | .. | .. | 1 31+0 34r | .. | .. | J |
| 165 | 20 | 0 26+0 01P | .. | .. | .. | .. | .. | .. | .. |
| 166 | 21 | 7 21+0 01v* | .. | .. | .. | .. | .. | .. | K |
| 167 | 23 | 18 19+0 38u | .. | .. | .. | .. | .. | 18 19+0 03P | .. |
| 168 | 26 | .. | .. | .. | .. | .. | .. | .. | .. |
| 169 | 26 | 20 54+0 0.2P* | .. | .. | .. | 2 19+0 12L | .. | .. | .. |
| 170 | 26 | 23 34+0 04P | .. | .. | .. | .. | .. | 23 37+0 02P | .. |
| 171 | 29 | 0 01+1 06u | 0 05+0 49L | .. | .. | 0 12+0 09L | .. | .. | .. |
| 172 | 29 | 15 37+0 56u | 15 43+0 45u | .. | .. | 15 47+0 41u | .. | 15 37+0 12u | N |

CORRELATION OF EARTHQUAKES

April, 1943

N O T E S

| | | | |
|---|------------------|-----------------------|---|
| A | Ottawa | $\Delta = 8,400$ km. | H = 16 ^h 07 ^m .3 U.T. |
| | Victoria | $\Delta = 10,335$ km. | H = 16 07.2 U.T. |
| | Saskatoon | $\Delta = 9,740$ km. | H = 16 07.3 U.T. |
| | Halifax | $\Delta = 8,440$ km. | H = 16 07.3 U.T. |
| | Seven Falls | $\Delta = 8,560$ km. | H = 16 07.4 U.T. |
| | Shawinigan Falls | $\Delta = 8,500$ km. | H = 16 07.3 U.T. |
| B | Ottawa | $\Delta = 8,420$ km. | H = 13 ^h 07 ^m .1 U.T. |
| C | Ottawa | $\Delta = 8,420$ km. | H = 23 ^h 18 ^m .0 U.T. |
| | Seven Falls | $\Delta = 8,540$ km. | H = 23 18.0 U.T. |
| E | Victoria | $\Delta = 8,110$ km. | H = 8 ^h 49 ^m .2 U.T. |
| | Saskatoon | $\Delta = 8,940$ km. | H = 8 49.1 U.T. |
| F | Ottawa | $\Delta = 10,000$ km. | H = 14 ^h 46 ^m .2 U.T. |
| | Victoria | $\Delta = 7,120$ km. | H = 14 46.5 U.T. |
| G | Ottawa | $\Delta = 8,420$ km. | H = 11 ^h 34 ^m .9 U.T. |
| | Victoria | $\Delta = 9,880$ km. | H = 11 35.3 U.T. |
| J | Ottawa | $\Delta = 3,040$ km. | H = 1 ^h 19 ^m .4 U.T. |
| K | Ottawa | $\Delta = 145$ km. | H = 7 ^h 21 ^m .0 U.T. |
| N | Ottawa | $\Delta = 9,030$ km. | H = 15 ^h 25 ^m .0 U.T. |
| | Shawinigan Falls | $\Delta = 9,050$ km. | H = 15 25.0 U.T. |

Dominion Observatory,
 Ottawa - Canada,
 May 29, 1943.

SEISMOLOGICAL BULLETINS RECEIVED

April and May, 1943

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

| STATIONS | BULLETINS | RECEIVED |
|----------------------|---|----------|
| Santa Clara | March, 1943 | April 13 |
| New Zealand Stations | February, 1943 | " 15 |
| Pasadena | Preliminary for November-December, 1942 | " 16 |
| Weston | January and February, 1943 | " 19 |
| Sydney | September and October, 1942 | " 20 |
| Perth | January and February, 1943 | " 28 |
| Brisbane | February, 1943 | May 17 |
| India Stations | July to December, 1940 | " 20 |
| New Zealand Stations | March, 1943 | " 24 |
| Sydney | November and December, 1942 | " 25 |
| Santa Clara | April, 1943 | " 27 |

DOMINION OBSERVATORY,
OTTAWA - CANADA.
May 29, 1943.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

May
1943

°°°°

DOMINION OBSERVATORY
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83$ m.

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46$ m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'4''$ N. $\lambda = 70^{\circ}49'6''$ 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 EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N. $\lambda = 123^{\circ}24'56''$ W. $h = 197$ m.

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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 smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

STATIONS (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

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

SASKATOON

University of Saskatchewan

$\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.
 Time correction from radio time signals
 Foundation: clay and sand
 Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

$\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.
 Time correction from recorded radio time signals
 Foundation: rock
 Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | 5 mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2200 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 | cycles | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM May 1, 1943 to May 2, 1943 No. 27

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|------------------|-----------|----------|---|--|
| | | h m s | km. | | |
| 176 May 2 | | Ottawa | | | |
| | H | 17 18.3 | 4140 | Compression to N. USCGS. gives:- $\phi = 6^{\circ}4$ N. $\lambda = 80^{\circ}1$ W. | |
| | iP | 17 25 32 | | | |
| | PPP | 17 27 02 | | | |
| | iS | 17 31 28 | | | |
| | e | 17 32 07 | | | |
| | SSS | 17 34 12 | | | |
| | eL | 17 36.3 | | | |
| | F | 21 15 | | | |
| | | Victoria | | | |
| | H | 17 18.2 | 6160 | | |
| | P | 17 27 41 | | | |
| | PP | 17 30 02 | | | |
| | iS | 17 35 31 | | | |
| | SSS | 17 41.4 | | | |
| | e | 17 43 | | | |
| | L | 17 45 | | | |
| | F | 20 28 | | | |
| | | Saskatoon | | | |
| | H | 17 18.5 | 5300 | | |
| | P | 17 27 09 | | | |
| | iS | 17 34 11 | | | |
| | eL | 17 40.5 | | | |
| | F | 19 09 ca. | | | |
| | | Halifax | | | |
| | H | 17 18.5 | 4290 | | |
| | P | 17 25 51 | | | |
| PPP | 17 27.5 | | | | |
| S | 17 31 57 | | | | |
| SSS | 17 34.8 | | | | |
| L | 17 37 | | | | |
| F | 18 37 | | | | |
| | Seven Falls | | | | |
| H | 17 18.3 | 4380 | | | |
| P | 17 25 52 | | | | |
| PPP | 17 27 36 | | | | |
| iS | 17 32 03 | | | | |
| SS | 17 35.2 | | | | |
| L | 17 38 | | | | |
| F | 21 01 | | | | |
| | Shawinigan Falls | | | | |
| H | 17 18.3 | 4350 | | | |
| P | 17 25 44 | | | | |
| S | 17 31 53 | | | | |
| SSS | 17 35.0 | | | | |
| L | 17 40 | | | | |
| F | 18 26 | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM May 2, 1943 to May 3, 1943 No. 28

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|-------------------------------|------------|------------|---------|--|
| | | h m s | km. | | |
| 177 May 3 | | Ottawa | | | |
| | H | 1 59 ca. | 13,400 ca. | | |
| | P ¹ / ₂ | 2 17 58 | | | |
| | PP | 2 19 25 | | | |
| | SKS | 2 25 16 | | | |
| | PS | 2 29 09 | | | |
| | SS | 2 35 20 | | | |
| | eL | 2 47 | | | |
| | F | 4 51 | | | |
| | | Victoria | | | |
| | e ^N | 2 13 03 | | | |
| | e ^N | 2 16 20 | | | |
| | e | 2 23 28 | | | |
| | L | 2 39 | | | |
| | F | 5 04 | | | |
| | | Saskatoon | | | |
| | H | 1 59.5 ca. | 11,350 ca. | | |
| | PP | 2 17 29 | | | |
| | SKS | 2 23 52 | | | |
| | SSS | 2 31 38 | | | |
| | L | 2 42 | | | |
| | F | 4 39 | | | |
| | | Halifax | | | |
| | e ^N | 2 25.4 | | | |
| | e ^E | 2 36.4 | | | |
| | L | 2 53 | | | |
| | F | 3 59 | | | |
| | Seven Falls | | | | |
| H | 1 59 ca. | 13,600 ca. | | | |
| P ¹ | 2 17.7 | | | | |
| PP | 2 19 28 | | | | |
| SKKS | 2 26.6 | | | | |
| SS | 2 35.5 | | | | |
| L | 2 47 | | | | |
| F | 4 57 | | | | |
| | Shawinigan Falls | | | | |
| e | 2 17.9 | | | | |
| L | 2 56 | | | | |
| F | 3 16 | | | | |
| | Victoria | | | | |
| e | 17 00.8 | | | | |
| L | 17 29 | | | | |
| F | 17 47 | | | | |
| | Seven Falls | | | | |
| e | 17 09.0 | | | | |
| L | 17 35 | | | | |
| F | 18 14 | | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA



From the ISC collection scanned by SIMOS

FROM May 3, 1943 to May 22, 1943 No. 29

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|---|--|----------|---------|
| | | h m s |  |  | km. |
| | | Ottawa | | |
| 181 May 4 | eZ L F | 18 32 08 18 51 19 06 | | |
| | | Ottawa | | |
| 189 May 7 | H P ₂ S ₂ F | 23 38.2 23 38 26 23 38 37 23 39.7 | 95 | |
| | | Ottawa | | |
| 192 May 9 | H P ₂ S ₂ e F | 11 03.2 11 03 38.5 11 03 58.5 11 04 02 11 06 | 175 | |
| | | Shawinigan Falls | | |
| | H P ₂ S ₂ F | 11 03.2 11 03 47 11 04 13 11 06 | 230 | |
| | | Ottawa | | |
| 196 May 13 | eZ L F | 23 24 53 23 38 23 52 | | |
| | | Ottawa | | |
| 199 May 18 | eZ eN eE L F | 6 22.7 6 34 6 42 7 01 7 43 | | |
| | | Victoria | | |
| | e L F | 6 28 6 45 7 16 | | |
| | | Ottawa | | |
| 202 May 22 | H P S SS eL F | 9 02.1 9 13 45 9 23 26 9 28.3 9 34 10 17 | 8320 | |
| | | Victoria | | |
| | e L F | 9 28.1 9 46 10 33 | | |
| | | Saskatoon | | |
| | e L F | 9 25 29 9 51 10 05 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA



From the ISC collection scanned by SISMOS

FROM May 22, 1943 to May 25, 1943 No. 30

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | | | |
|------------------------------|----------------|-------------|----------|---|----------|--------|--|
| | | h m s | km. | | | | |
| 202 May 22 (Cont'd) | H | 9 02.3 | 8380 | | | | |
| | P | 9 13 58 | | | | | |
| | S | 9 23 42 | | | | | |
| | L | 9 40 | | | | | |
| | F | 10 25 | | | | | |
| | | Ottawa | | | | | |
| 203 May 25 | H | 23 07.6 | 13,850 | USCGS. gives:- $\phi = 7^{\circ}5' N.$ $\lambda = 126^{\circ}5' E.$ | | | |
| | P' | 23 26 35 | | | | | |
| | PP | 23 28 17 | | | | | |
| | SKP | 23 29.7 | | | | | |
| | SKKS | 23 35 12 | | | | | |
| | PPS | 23 39 42 | | | | | |
| | SS | 23 45 04 | | | | | |
| | SSS | 23 50.5 | | | | | |
| | eL | 0 04 | | | | | |
| | F | 4 00 ca. | | | | | |
| | | | | | Victoria | | |
| | | H | | | 23 07.4 | 11,100 | |
| | P | 23 21 11 | | | | | |
| | PP | 23 25.2 | | | | | |
| | SKS | 23 31 51 | | | | | |
| | PS | 23 33 57 | | | | | |
| | e | 23 38 03 | | | | | |
| | SSS | 23 43 | | | | | |
| | L | 23 52 | | | | | |
| | F | 3 46 | | | | | |
| | | Saskatoon | | | | | |
| | e? | 23 22.3 | | | | | |
| | e | 23 25 37 | | | | | |
| | e | 23 33.6 | | | | | |
| | e | 23 39 27 | | | | | |
| | e | 23 41 09 | | | | | |
| | L | 23 51 | | | | | |
| | F | 2 30 | | | | | |
| | | Halifax | | | | | |
| | e | 23 29 02 | | | | | |
| | e ^N | 23 41 23 | | | | | |
| | e | 23 45 46 | | | | | |
| | e ^N | 23 50.4 | | | | | |
| | L ^N | 0 07 | | | | | |
| | F | 1 29 | | | | | |
| | | Seven Falls | | | | | |
| | H | 23 07.8 | 13,700 | | | | |
| | P' | 23 26 43 | | | | | |
| | PP | 23 28 19 | | | | | |
| | SKKS | 23 35 06 | | | | | |
| | S | 23 36 16 | | | | | |
| | PPS | 23 39 13 | | | | | |
| | SS | 23 45 04 | | | | | |
| | SSS | 23 49.7 | | | | | |
| | eL | 23 59 | | | | | |
| | F | 3 47 | | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM May 25, 1943 to May 31, 1943 No. 31

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|------------------------------|-------|------------------|----------|--|
| | | h m s | km. | |
| | | Shawinigan Falls | | |
| 203 May 25 (Cont'd) | H | 23 07.6 | 13,800 | |
| | P' | 23 26 35 | | |
| | PP | 23 28 17 | | |
| | PS | 23 38 07 | | |
| | SS | 23 45.0 | | |
| | SSS | 23 50.1 | | |
| | L | 0 07 | | |
| F | 1 12 | | | |
| | | Ottawa | | |
| 204 May 26 | H | 10 31.6 | 4040 | USCGS. gives:- $\phi = 17^{\circ}5' N.$ $\lambda = 106^{\circ}5' W.$ |
| | P | 10 38 42 | | |
| | PPP | 10 40 10 | | |
| | S | 10 44 32 | | |
| | SSS | 10 47.1 | | |
| | L | 10 50 | | |
| | F | 11 41 | | |
| | | Victoria | | |
| | H | 10 31.5 | 3700 | |
| | P | 10 38 13 | | |
| | S | 10 43 42 | | |
| | SS | 10 46 | | |
| | L | 10 49 | | |
| | F | 11 49 | | |
| | | Saskatoon | | |
| | H | 10 31.6 | 3660 | |
| | P | 10 38 18 | | |
| | S | 10 43 44 | | |
| | L | 10 49 | | |
| | F | 11 43 | | |
| | | | | Seven Falls |
| | H | 10 31.5 | (4620) | |
| | P | 10 39 17 | | |
| | eS | 10 45.6 | | |
| | SSS | 10 48.6 | | |
| | L | 10 53 | | |
| | F | 11 45 | | |
| | | Shawinigan Falls | | |
| | e | 10 39 05 | | |
| | L | 10 52 | | |
| | F | 11 06 | | |
| | | | | <i>W. W. Doxsee.</i> |

EARTHQUAKE CORRELATION TABLE
 May, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | |
|-----|------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 173 | 1 | ..... | 17 44+0 22L | ..... | ..... | ..... | ..... | ..... | .. |
| 174 | 2 | ..... | 5 02+0 07L | 5 04+0 03L | ..... | ..... | ..... | ..... | .. |
| 175 | 2 | 6 51+0 07L | 6 46+0 09L | ..... | ..... | ..... | ..... | ..... | .. |
| 176 | 2 | 17 26+3 49R | 17 28+3 00U | 17 27+1 42U | 17 26+1 11R | 17 26+3 35R | 17 26+1 00R | 17 26+1 00R | A |
| 177 | 3 | 2 18+2 33U | 2 13+2 51U | 2 17+2 22U | 2 25+1 34U | 2 19+2 38U | 2 18+1 10U | 2 18+1 08U | B |
| 178 | 3 | 10 24+0 08P | ..... | ..... | ..... | ..... | 10 24+0 03P | 10 24+0 12P | .. |
| 179 | 3 | 17 32+0 30L | 17 01+0 46u | ..... | ..... | 17 09+1 05u | ..... | ..... | .. |
| 180 | 4 | 17 52+0 0.2P | ..... | ..... | ..... | ..... | ..... | 17 53+0 01P | .. |
| 181 | 4 | 18 32+0 34r | ..... | ..... | ..... | ..... | ..... | 18 32+0 03P | .. |
| 182 | 5 | ..... | 15 20+0 18L | ..... | ..... | ..... | ..... | ..... | .. |
| 183 | 5 | 17 00+0 08L | ..... | ..... | ..... | 17 02+0 08L | ..... | ..... | .. |
| 184 | 6 | 8 56+0 0.3P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 185 | 6 | 10 20+0 0.5P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 186 | 7 | 8 26+0 0.5P* | 8 55+0 11L | ..... | ..... | 9 13+0 22L | ..... | ..... | .. |
| 187 | 7 | 20 36+0 02P | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 188 | 7 | 21 08+0 32L | ..... | ..... | ..... | 21 07+0 21L | ..... | ..... | .. |
| 189 | 7 | 23 38+0 01d* | ..... | ..... | ..... | ..... | ..... | ..... | C |
| 190 | 7 | 23 58+0 0.6P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 191 | 8 | 5 53+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 192 | 9 | 11 04+0 02V | ..... | ..... | ..... | ..... | ..... | 11 04+0 02V | E |
| 193 | 10 | ..... | 5 51+0 05L | ..... | ..... | ..... | ..... | ..... | .. |
| 194 | 10 | ..... | 10 44+0 25L | ..... | ..... | ..... | ..... | ..... | .. |
| 195 | 12 | ..... | 8 45+0 05L | ..... | ..... | ..... | ..... | ..... | .. |
| 196 | 13 | 23 25+0 27u | 23 25+0 25L | 23 30+0 11L | ..... | 23 40+0 18L | 23 40+0 06L | ..... | .. |
| 197 | 15 | 2 29+0 02P | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 198 | 17 | ..... | 17 58+0 15L | ..... | ..... | 17 37+0 30L | ..... | ..... | .. |
| 199 | 18 | 6 23+1 20u | 6 28+0 48u | ..... | ..... | 6 41+1 08L | ..... | ..... | .. |
| 200 | 20 | ..... | 11 34+0 09L | ..... | ..... | ..... | ..... | ..... | .. |
| 201 | 21 | 7 49+0 15L | 8 00+0 22L | ..... | ..... | 7 53+0 15L | ..... | ..... | .. |
| 202 | 22 | 9 14+1 03u | 9 28+1 05u | 9 25+0 40u | ..... | 9 24+1 01u | 9 14+0 03P | ..... | G |
| 203 | 25 | 23 27+4 33U | 23 21+4 25U | 23 22+3 08U | 23 29+2 00U | 23 27+4 20U | 23 27+1 47U | 23 27+1 46U | J |
| 204 | 26 | 3 21+0 0.3P | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 205 | 26 | 10 39+1 02r | 10 38+1 11r | 10 38+1 05r | 10 53+0 17L | 10 39+1 06r | 10 54+0 13L | 10 39+0 26r | K |
| 206 | 26 | ..... | 18 11+0 04L | ..... | ..... | ..... | ..... | ..... | .. |
| 207 | 30 | 8 38+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 208 | 31 | 2 40+0 01P* | 2 57+0 18L | ..... | ..... | ..... | ..... | ..... | .. |

CORRELATION OF EARTHQUAKES

May, 1943

N O T E S

| | | | |
|-----|------------------|---------------------------|-------------------------|
| A : | Ottawa | $\Delta = 4,140$ km. | $H = 17^h 18^m 3$ U.T. |
| | Victoria | $\Delta = 6,160$ km. | $H = 17 18.2$ U.T. |
| | Saskatoon | $\Delta = 5,300$ km. | $H = 17 18.5$ U.T. |
| | Halifax | $\Delta = 4,290$ km. | $H = 17 18.5$ U.T. |
| | Seven Falls | $\Delta = 4,380$ km. | $H = 17 18.3$ U.T. |
| | Shawinigan Falls | $\Delta = 4,350$ km. | $H = 17 18.3$ U.T. |
| B : | Ottawa | $\Delta = 13,400$ km. ca. | $H = 1^h 59^m$ U.T. ca. |
| | Saskatoon | $\Delta = 11,350$ km. ca. | $H = 1 59.5$ U.T. ca. |
| | Seven Falls | $\Delta = 13,600$ km. ca. | $H = 1 59$ U.T. ca. |
| C : | Ottawa | $\Delta = 95$ km. | $H = 23^h 38^m 2$ U.T. |
| E : | Ottawa | $\Delta = 175$ km. | $H = 11^h 03^m 2$ U.T. |
| | Shawinigan Falls | $\Delta = 230$ km. | $H = 11 03.2$ U.T. |
| G : | Ottawa | $\Delta = 8,320$ km. | $H = 9^h 02^m 1$ U.T. |
| | Seven Falls | $\Delta = 8,380$ km. | $H = 9 02.3$ U.T. |
| J : | Ottawa | $\Delta = 13,850$ km. | $H = 23^h 07^m 6$ U.T. |
| | Victoria | $\Delta = 11,100$ km. | $H = 23 07.4$ U.T. |
| | Seven Falls | $\Delta = 13,700$ km. | $H = 23 07.8$ U.T. |
| | Shawinigan Falls | $\Delta = 13,800$ km. | $H = 23 07.6$ U.T. |
| K : | Ottawa | $\Delta = 4,040$ km. | $H = 10^h 31^m 6$ U.T. |
| | Victoria | $\Delta = 3,700$ km. | $H = 10 31.5$ U.T. |
| | Saskatoon | $\Delta = 3,660$ km. | $H = 10 31.6$ U.T. |
| | Seven Falls | $\Delta = 4,620$ km. | $H = 10 31.5$ U.T. |

Dominion Observatory,
 Ottawa, Canada,
 July 9, 1943.

SEISMOLOGICAL SERVICE OF CANADA



SEISMOLOGICAL BULLETIN

June

1943

9999

DOMINION OBSERVATORY
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83$ m.

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46$ m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'.4$ N. $\lambda = 70^{\circ}49'.6$ 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 EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N. $\lambda = 123^{\circ}24'56''$ W. $h = 197$ m.

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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 smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

S T A T I O N S (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

$\phi = 46^{\circ}33'11''$ N. $\lambda = 72^{\circ}45'18''$ W. $h = 60$ m. ca.
 Time correction from recorded radio time signals
 Foundation: solid granite of Canadian Shield
 Instrument: Wood-Anderson NS component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15g.

SASKATOON

University of Saskatchewan

$\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.
 Time correction from radio time signals
 Foundation: clay and sand
 Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

$\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.
 Time correction from recorded radio time signals
 Foundation: rock
 Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | 5 mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2200 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 | cycles | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM June 1, 1943 to June 3, 1943 No. 32

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|---------|-------------|----------|---------|
| | | h m s | km. | |
| 209 June 1 | | Ottawa | | |
| | H | 4 15.4 | 4000 | |
| | Pz | 4 22 27 | | |
| | PPP | 4 24.0 | | |
| | S | 4 28 14 | | |
| | SSS | 4 30.8 | | |
| | eL | 4 34 | | |
| | F | 5 12 | | |
| | | Victoria | | |
| | e | 4 26.6 | | |
| | L | 4 29 | | |
| | F | 5 19 | | |
| | | Seven Falls | | |
| | e | 4 28.7 | | |
| | e | 4 32.4 | | |
| L | 4 37 | | | |
| F | 5 22 | | | |
| 210 June 2 | | Ottawa | | |
| | eZ | 3 08 30 | | |
| | L | 3 45 | | |
| | F | 4 02 | | |
| | | Ottawa | | |
| | | 3180 | | |
| 211 June 2 | H | 5 24.2 | | |
| | P | 5 30 14 | | |
| | S | 5 35 10 | | |
| | L | 5 39 | | |
| | F | 6 11 | | |
| | | Saskatoon | | |
| | e | 5 37 30 | | |
| | L | 5 50 | | |
| | F | 6 02 | | |
| | | Seven Falls | | |
| | H | 5 24.3 | 3480 | |
| | P | 5 30.7 | | |
| S | 5 35 59 | | | |
| L | 5 42 | | | |
| F | 6 14 | | | |
| 213 June 3 | | Victoria | | |
| | e | 20 15 42 | | |
| | L | 20 28 | | |
| | F | 21 00+ | | |
| | | Seven Falls | | |
| | e | 20 19.1 | | |
| | L | 20 47 | | |
| | F | 23 23 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM June 3, 1943 to June 8, 1943 No. 33

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|--------------------------------|---|----------|---------|
| | | h m s | km. | |
| 214 June 3 | e e L F | Victoria 21 00 21 10 04 21 23 22 16 | | |
| | | Ottawa | | |
| 218 June 7 | e L F | 19 01 47 20 16 20 31 | | |
| | | Ottawa | | |
| 219 June 7 | e e _E eL F | 23 42 22 23 50 0 21 1 26+ | | |
| | | Victoria | | |
| | e L F | 23 46 0 18 1 29+ | | |
| | | Saskatoon | | |
| | e L F | 23 57 0 14 1 23 | | |
| | | Seven Falls | | |
| | e e L F | 23 50.5 0 00.4 0 18 1 21 | | |
| | | Ottawa | | |
| 220 June 8 | e e L F | 1 22 07 1 27 10 1 31 2 23 | | |
| | | Victoria | | |
| | e e L F | 1 26 1 34.8 1 48 2 36 | | |
| | | Saskatoon | | |
| | e e L F | 1 24.8 1 32 16 1 41 2 23 | | |
| | | Halifax | | |
| | e e L F | 1 20 49 1 25 12 1 28 1 39 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

| FROM | June 8, 1943 | to | June 8, 1943 | No. 34 | |
|---------------------------|--------------|------------------|--------------|--|--|
| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
| | | h m s | km. | | |
| 220 June 8 (Cont'd) | e | 1 21 26 | | | |
| | e | 1 26 24 | | | |
| | e | 1 29.3 | | | |
| | L | 1 31 | | | |
| | F | 2 40 | | | |
| | | Seven Falls | | | |
| 222 June 8 | H | 20 42.5 ca. | 15,600ca. | USCGS. gives:- $\phi = 19^{\circ} \text{ N.}$ $\lambda = 116^{\circ} \text{ E.}$ | |
| | P'Z | 21 02 02 | | | |
| | PP | 21 04 53 | | | |
| | SKS | 21 09.2 | | | |
| | e | 21 12.8 | | | |
| | PPS | 21 17.2 | | | |
| | SS | 21 23.1 | | | |
| | SSS | 21 28.7 | | | |
| | eL | 21 48 | | | |
| | F | 0 06 | | | |
| | | | Ottawa | | |
| | H | 20 42.2 ca. | 13,600ca. | | |
| | PP | 21 02.7 | | | |
| | eN | 21 06 16 | | | |
| S | 21 10 52 | | | | |
| SS | 21 19 29 | | | | |
| SSS | 21 23.1 | | | | |
| eL | 21 34 | | | | |
| F | 0 40 | | | | |
| | | Victoria | | | |
| | | Saskatoon | | | |
| e | 21 07.3 | | | | |
| e | 21 20.8 | | | | |
| e | 21 29 | | | | |
| L | 21 36 | | | | |
| F | 23 51 | | | | |
| | | Halifax | | | |
| e | 21 04 52 | | | | |
| e | 21 22.8 | | | | |
| L | 21 40 | | | | |
| F | 23 00 | | | | |
| | | Seven Falls | | | |
| H | 20 42.6 ca. | 16,100ca. | | | |
| P' | 21 02 14 | | | | |
| e | 21 05 | | | | |
| PPS | 21 17.3 | | | | |
| SS | 21 22 47 | | | | |
| e | 21 32.6 | | | | |
| L | 21 39 | | | | |
| F | 0 34 | | | | |
| | | Shawinigan Falls | | | |
| e | 21 04.6 | | | | |
| e | 21 23.4 | | | | |
| L | 21 46 | | | | |
| F | 22 47 | | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 8, 1943 to June 13, 1943 No. 35

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|------------------|-----------|--|--|--|
| | | h m s | km. | | |
| | | Ottawa | | | |
| 223 June 9 | H | 3 06.2 | 15,500ca. | USCGS. gives:- $\phi = 9^{\circ}$ N. $\lambda = 120^{\circ}$ E. | |
| | P'Z | 3 25 36 | | | |
| | PP | 3 28 18 | | | |
| | SKP | 3 29 | | | |
| | PPS | 3 40.3 | | | |
| | SS | 3 46.5 | | | |
| | SSS | 3 52.0 | | | |
| | L | 4 12 | | | |
| | F | 7 00 ca. | | | |
| | | Victoria | | | |
| | e | 3 26 21 | | | |
| | e N | 3 28 17 | | | |
| | e | 3 33 50 | | | |
| e | 3 38 25 | | | | |
| L | 3 57 | | | | |
| F | 7 28 | | | | |
| | Saskatoon | | | | |
| H | 3 06.6 ca. | 13,000ca. | | | |
| PPP | 3 29.0 | | | | |
| SKS | 3 32.3 | | | | |
| PPS | 3 37 04 | | | | |
| SS | 3 42 11 | | | | |
| L | 3 59 | | | | |
| F | 6 48 | | | | |
| | Halifax | | | | |
| e | 3 28 | | | | |
| e | 3 46 | | | | |
| e _E | 3 51 | | | | |
| L | 4 03 | | | | |
| F | 5 28 | | | | |
| | Seven Falls | | | | |
| e | 3 25.8 | | | | |
| e | 3 28 53 | | | | |
| e | 3 39 16 | | | | |
| e | 3 46 15 | | | | |
| L | 4 03 | | | | |
| F | 8 01 | | | | |
| | Shawinigan Falls | | | | |
| e | 3 26.0 | | | | |
| e | 3 29.1 | | | | |
| e | 3 44.4 | | | | |
| L | 4 02 | | | | |
| F | 5 16 | | | | |
| | Ottawa | | | | |
| H | 5 12.0 | 9200 | USCGS. gives:- $\phi = 43^{\circ}$ N. $\lambda = 142^{\circ}$ E. | | |
| P | 5 24 24 | | | | |
| S | 5 34 44 | | | | |
| SS | 5 40.1 | | | | |
| eL | 5 51 | | | | |
| F | 8 21 | | | | |
| | | | | | |
| 228 June 13 | H | 5 12.0 | 9200 | USCGS. gives:- $\phi = 43^{\circ}$ N. $\lambda = 142^{\circ}$ E. | |
| | P | 5 24 24 | | | |
| | S | 5 34 44 | | | |
| | SS | 5 40.1 | | | |
| | eL | 5 51 | | | |
| | F | 8 21 | | | |
| | | | | | |

SEISMOLOGICAL SERVICE OF CAN.
DOMINION OBSERVATORY, OTTAWA



From the ISC collection scanned by SISMOS

FROM June 13, 1943 to June 13, 1943 No. 36

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|-------------------------------|---------|------------------|-----------|---------|--|
| | | h m s | km. | | |
| 228 June 13 (Cont'd) | | Victoria | | | |
| | H | 5 12.4 | 6540 | | |
| | P | 5 22 17 | | | |
| | S | 5 30 28 | | | |
| | SS | 5 35 18 | | | |
| | e | 5 37 52 | | | |
| | L | 5 41 | | | |
| | F | 8 47 | | | |
| | | | Saskatoon | | |
| | H | 5 12.4 | 7260 | | |
| | P | 5 23 00 | | | |
| | S | 5 31 51 | | | |
| | SS | 5 36 22 | | | |
| | e | 5 39 50 | | | |
| | L | 5 43 | | | |
| F | 8 02 | | | | |
| | | Seven Falls | | | |
| H | 5 12.2 | 9300 | | | |
| P | 5 24 38 | | | | |
| PP | 5 28 16 | | | | |
| S | 5 35 02 | | | | |
| SS | 5 40 22 | | | | |
| e | 5 47 | | | | |
| L | 5 51 | | | | |
| F | 9 00 | | | | |
| | | Shawinigan Falls | | | |
| P | 5 24 25 | | | | |
| L | 5 54 | | | | |
| F | 6 24 | | | | |
| | | Ottawa | | | |
| H | 8 37.1 | 9520 | | | |
| P | 8 49 42 | | | | |
| S | 9 00 16 | | | | |
| PS | 9 01.3 | | | | |
| SS | 9 06 | | | | |
| L | 9 16 | | | | |
| F | 10 51 | | | | |
| | | Victoria | | | |
| H | 8 37.4 | 6590 | | | |
| P | 8 47 30 | | | | |
| S | 8 55 44 | | | | |
| L | 9 10 | | | | |
| F | 10 39 | | | | |
| | | Saskatoon | | | |
| H | 8 37.4 | 7440 | | | |
| P | 8 48.2 | | | | |
| S | 8 57 11 | | | | |
| L | 9 11 | | | | |
| F | 10 31 | | | | |



SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 13, 1943 to June 14, 1943 No. 37

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------------------|-------------------------------|-------------|----------|---------|
| | | h m s |  |  | km. |
| 230 June 13 (Cont'd) | e L F | Seven Falls | 9560 | |
| | | 9 00 18 | | |
| | | 9 06.2 | | |
| | | 9 19 | | |
| 231 June 13 | eZ L F | Ottawa | 9560 | |
| | | 16 36 14 | | |
| | | 17 06 | | |
| | | 17 30 | | |
| | | Ottawa | | |
| | | 17 39.4 | | |
| | | 17 52 00 | | |
| | | 18 02 36 | | |
| | | 18 08 | | |
| | | 18 20 | | |
| | | 19 29 | | |
| | | Victoria | | |
| 17 58.2 | | | | |
| 18 11 | | | | |
| 19 25 | | | | |
| 232 June 13 | H PZ S SS eL F | Saskatoon | 9560 | |
| | | 17 59 30 | | |
| | | 18 13 | | |
| | | 19 03 | | |
| | | Seven Falls | | |
| | | 18 02.5 | | |
| | | 18 21 | | |
| | | 19 33 | | |
| | | Ottawa | | |
| | | 3 19 23 | | |
| | | 4 09 | | |
| | | 4 33 | | |
| Seven Falls | | | | |
| 3 21.9 | | | | |
| 4 09 | | | | |
| 5 08 | | | | |
| 233 June 14 | eZ L F | Ottawa | 9560 | |
| | | 17 30 16 | | |
| | | 17 37.5 | | |
| | | 17 41 | | |
| | | 18 15 | | |
| 235 June 14 | eZ eN L F | Ottawa | 9560 | |
| | | 17 30 16 | | |
| | | 17 37.5 | | |
| | | 17 41 | | |
| | | 18 15 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM June 14, 1943 to June 15, 1943 No. 38

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|------------------|-----------|---------------------------|---------|
| | | h m s | km. | |
| 236 June 15 | | Ottawa | | |
| | H | 11 11.1 | 9280 | |
| | P | 11 23 29 | | |
| | S | 11 33 52 | | |
| | e | 11 39.8 | | |
| | L | 11 51 | | |
| | F | 12 40 | | |
| | | Victoria | | |
| | H | 11 11.3 | 6670 | |
| | P | 11 21 21 | | |
| | S | 11 29 40 | | |
| | L | 11 36 | | |
| | F | 12 58 | | |
| | | Saskatoon | | |
| | e | 11 31 00 | | |
| L | 11 44 | | | |
| F | 12 27 | | | |
| | Seven Falls | | | |
| e | 11 34 05 | | | |
| L | 11 51 | | | |
| F | 13 22 | | | |
| | Shawinigan Falls | | | |
| H | 11 11.1 | 9220 | | |
| P | 11 23 28 | | | |
| S | 11 33 49 | | | |
| F | 11 37 | | | |
| | Ottawa | | | |
| H | 18 21.8 | 3690 | USCGS. gives:- | |
| P | 18 28 30 | | $\phi = 14^{\circ}5' N.$ | |
| PPP | 18 29 50 | | $\lambda = 93^{\circ} W.$ | |
| S | 18 33 58 | | | |
| L | 18 38 | | | |
| F | 19 57+ | | | |
| | Victoria | | | |
| H | 18 21.8 | 4660 | | |
| P | 18 29 39 | | | |
| S | 18 36 05 | | | |
| SS | 18 39 21 | | | |
| L | 18 42 | | | |
| F | 20 48+ | | | |
| | Saskatoon | | | |
| H | 18 22.0 | 4150 | | |
| P | 18 29 15 | | | |
| PPP | 18 30 47 | | | |
| S | 18 35.2 | | | |
| L | 18 41 | | | |
| F | 20 02+ | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM June 15, 1943 to June 19, 1943 No. 39

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------------------|----------------|------------------|----------|---------|
| | | h m s | km. | |
| 237 June 15 (Cont'd) | | Halifax | | |
| | e | 18 30 52 | | |
| | e | 18 35.2 | | |
| | L | 18 42 | | |
| | F | 19 25 | | |
| | | Seven Falls | | |
| | H | 18 21.7 | 4100 | |
| | P | 18 28 55 | | |
| | PPP | 18 30 28 | | |
| | S | 18 34.8 | | |
| | L | 18 41 | | |
| | F | 19 54 | | |
| | | Shawinigan Falls | | |
| | H | 18 21.9 | 3900 | |
| P | 18 28 48 | | | |
| PP | 18 30 02 | | | |
| S | 18 34.5 | | | |
| L | 18 41 | | | |
| F | 19 12 | | | |
| | Ottawa | | | |
| 238 June 15 | H | 19 45.5 | 3720 | |
| | P _Z | 19 52 10 | | |
| | PPP | 19 53 33 | | |
| | S | 19 57 40 | | |
| | L | 20 03 | | |
| | F | 20 38+ | | |
| | | Seven Falls | | |
| | e | 19 54.2 | | |
| | L | 20 04 | | |
| | F | 20 32+ | | |
| | Ottawa | | | |
| 239 June 15 | eZ | 20 33 | | |
| | e | 20 38 | | |
| | L | 20 44 | | |
| | F | 22 00 ca. | | |
| | | Seven Falls | | |
| | e | 20 34.2 | | |
| L | 20 43 | | | |
| F | 22 22 | | | |
| | Victoria | | | |
| 247 June 18 | e | 19 45.3 | | |
| | L | 19 59 | | |
| | F | 20 29 | | |
| | Victoria | | | |
| 248 June 19 | e | 9 28 54 | | |
| | L | 9 42 | | |
| | F | 10 43 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 19, 1943 to June 22, 1943 No. 40

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------------------|------------------------------|-------------|----------|---------|
| | | h m s | km. | |
| 248 June 19 (Cont'd) | e L F | Seven Falls | | |
| | | 9 35.3 | | |
| | | 10 00 | | |
| 249 June 20 | H PZ S SS L F | Ottawa | 7980 | |
| | | 15 33.0 | | |
| | | 15 44 17 | | |
| | | 15 53 41 | | |
| | | 15 58.5 | | |
| | | 16 08 | | |
| | H P S L F | Victoria | 9420 | |
| | | 15 33.3 | | |
| | | 15 45.9 | | |
| | | 15 56 22 | | |
| e L F | Halifax | | | |
| | 15 52.4 | | | |
| | 16 06 | | | |
| 250 June 20 | H P S e L F | Seven Falls | 7380 | |
| | | 15 33.1 | | |
| | | 15 43 53 | | |
| | | 15 52 49 | | |
| | | 15 57.1 | | |
| | | 16 06 | | |
| | H P S L F | Ottawa | 8760 | |
| | | 17 39.7 | | |
| | | 17 51 43 | | |
| | | 18 01 44 | | |
| e e e L F | Victoria | | | |
| | 18 03.7 | | | |
| | 18 08.4 | | | |
| | 18 14 34 | | | |
| | 18 29 | | | |
| e L F | Seven Falls | | | |
| | 18 01.4 | | | |
| | 18 12 | | | |
| | 19 12 | | | |
| 251 June 22 | eZ L F | Ottawa | | |
| | | 20 01 44 | | |
| | | 20 13 | | |
| | | 20 20 | | |

SEISMOLOGICAL SERVICE OF CAN
DOMINION OBSERVATORY, OTTAWA



From the ISC collection scanned by SISMOS

FROM June 22, 1943 to June 30, 1943 No. 41

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|--|------------------|----------|---------|
| | | h m s | km. | |
| 254 June 24 | eZ | Ottawa | | |
| | L | 20 40 12 | | |
| | F | 21 14 21 42 | | |
| 259 June 28 | e L F | Ottawa | | |
| | | 15 26.6 | | |
| | | 15 34 16 35 | | |
| | e L F | Seven Falls | | |
| | | 15 25.7 | | |
| | | 15 39 17 03 | | |
| 260 June 29 | e e e | Ottawa | | |
| | | 9 33.7 | | |
| | | 9 37.5 9 43.2 | | |
| | L F | 10 19 | | |
| | | 10 35 | | |
| | | Victoria | | |
| | e L F | 9 29 10 | | |
| | | 9 47 | | |
| | | 10 21 | | |
| | e e e L F | Saskatoon | | |
| | | 9 31 15 | | |
| | | 9 39 09 | | |
| | | 9 49 | | |
| | | 10 21 | | |
| | | Seven Falls | | |
| e e F | 9 33.7 | | | |
| | 9 43.1 | | | |
| | 10 47 | | | |
| e L F | Ottawa | | | |
| | 11 11.0 | | | |
| | 11 23 | | | |
| | 11 53 | | | |
| | Seven Falls | | | |
| | 11 07 21 | | | |
| e L F | 11 10.2 | | | |
| | 11 28 | | | |
| | 12 10 | | | |
| | Ottawa | | | |
| e e L F | 20 23 03 | | | |
| | 20 31 08 | | | |
| | 20 43 | | | |
| | 21 03 | | | |
| | USCGS. gives:- φ = 14° 5 S. λ = 74° W. | | | |

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month June, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 209 | 1 | 4 22+0 50R | 4 27+0 52R | 4 30+0 25L | | 4 29+0 53R | 4 40+0 04L | 4 36+0 08L | A |
| 210 | 2 | 3 08+0 54u | | | | 3 45+0 14L | | | |
| 211 | 2 | 5 30+0 41R | 5 42+0 25L | 5 37+0 25R | | 5 36+0 38R | 5 31+0 12R | 5 31+0 14R | B |
| 212 | 3 | | 12 34+0 18L | | | | | | |
| 213 | 3 | 20 18+2 12L | 20 16+0 44u | | | | | | |
| 214 | 3 | | 21 00+1 16u | | | 20 19+3 04u | | | |
| 215 | 4 | 19 01+0 0.2P* | | | | | | | |
| 216 | 4 | 23 19+0 01P* | | | | 23 29+0 16L | | | |
| 217 | 6 | | 3 14+0 14L | | | | | | |
| 218 | 7 | 19 02+1 29u | 19 17+0 11L | 19 14+0 09L | | | | | |
| 219 | 7 | 23 42+1 44u | 23 46+1 43u | 23 57+1 26u | 0 35+0 31L | 23 50+1 31u | | | |
| 220 | 8 | 1 22+1 01R | 1 26+1 10R | 1 25+0 58R | 1 21+0 18R | 1 21+1 19R | 1 21+0 20R | 1 22+0 10R | |
| 221 | 8 | 18 46+0 01P | | | | | | | |
| 222 | 8 | 21 02+3 04U | 21 03+3 37U | 21 07+2 44U | 21 05+1 55U | 21 05+3 29U | 21 02+1 47U | 21 05+1 42U | C |
| 223 | 9 | 3 26+3 34U | 3 26+4 02U | 3 29+3 41U | 3 28+2 00U | 3 29+4 34U | 3 26+1 47U | 3 26+1 50U | E |
| 224 | 10 | 0 47+0 01P | | | | | | | |
| 225 | 11 | | 8 36+0 52L | | | 9 14+0 36L | | | |
| 226 | 11 | 22 53+0 01P | | | | | | | |
| 227 | 12 | | 16 17+0 14L | | | | | | |
| 228 | 12 | 5 24+2 57U | 5 22+3 25U | 5 23+2 39U | | | 5 25+1 01U | 5 24+1 00U | F |
| 229 | 13 | 6 11+0 02P* | | | | | | | |
| 230 | 13 | 8 50+2 01u | 8 47+1 52u | 8 48+1 43u | | | | | G |
| 231 | 13 | 16 36+0 54u | | | | 9 00+2 14u | | | |
| 232 | 13 | 17 52+1 37u | 17 58+1 27u | 17 59+1 04u | | 17 09+0 16L | | | J |
| 233 | 14 | 3 19+1 14u | 4 31+0 22L | 4 32+0 30L | | 18 02+1 30u | | | |
| 234 | 14 | 17 12+0 12L | | | | 3 22+1 46u | | | |
| 235 | 14 | 17 30+0 45R | 17 32+0 20L | 17 33+0 21L | 17 46+0 09L | 17 06+0 25L | | | |
| 236 | 15 | 11 23+1 17u | 11 21+1 37u | 11 31+0 56u | 12 01+0 12L | 17 43+0 37L | | 17 36+0 12L | |
| 237 | 15 | 18 28+1 29R | 18 30+2 18R | 18 29+1 32R | 18 31+0 54R | 11 34+1 48u | 11 34+0 08P | 11 23+0 13u | K |
| 238 | 15 | 19 52+0 46R | 20 47+1 16L | 20 02+0 40L | 20 08+0 55L | 18 29+1 25R | 18 29+0 41R | 18 29+0 43R | N |
| 239 | 15 | 20 33+1 27R | | | | 19 54+0 38R | | 19 54+0 02P | Q |
| 240 | 15 | 22 13+0 01P | | | | 20 34+1 48R | | | |
| 241 | 16 | | | | | 7 30+0 27L | | | |

EARTHQUAKE CORRELATION TABLE
 Month June, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 242 | 16 | 7 57+0 01P | .. | .. | .. | .. | .. | .. | .. |
| 243 | 17 | 17 09+0 02P | .. | .. | .. | .. | .. | .. | .. |
| 244 | 18 | 14 25+0 30L | 14 24+0 37L | .. | .. | 14 25+0 22L | .. | .. | .. |
| 245 | 18 | .. | 16 35+0 12L | .. | .. | .. | .. | .. | .. |
| 246 | 18 | 17 05+0 02P | .. | .. | .. | .. | .. | .. | .. |
| 247 | 18 | 20 11+0 33L | 19 45+0 44u | .. | .. | 20 17+0 41L | .. | .. | .. |
| 248 | 19 | 9 55+0 44L | 9 29+1 14u | .. | .. | 9 35+1 32u | .. | .. | .. |
| 249 | 20 | 15 44+1 35u | 15 46+1 33u | .. | 15 52+0 29u | 15 53+1 21u | 15 44+0 04P | 15 44+0 02P | R |
| 250 | 20 | 17 52+1 28u | 18 04+2 02u | .. | 18 16+0 15L | 18 01+1 11u | .. | .. | S |
| 251 | 22 | 20 02+0 18R | 20 24+0 13L | .. | .. | .. | .. | 20 02+0 01P | .. |
| 252 | 23 | 17 30+0 01P | .. | .. | .. | .. | .. | 17 30+0 03P | .. |
| 253 | 24 | 12 26+0 01P | .. | .. | .. | .. | .. | 12 26+0 01P | .. |
| 254 | 24 | 20 40+1 02u | 20 44+0 53L | .. | .. | 20 52+0 56L | .. | .. | .. |
| 255 | 25 | 4 30+0 09R | .. | 4 27+0 08R | .. | .. | 4 37+0 04R | 4 34+0 08R | .. |
| 256 | 27 | 10 17+0 01P | .. | .. | .. | .. | .. | .. | .. |
| 257 | 27 | .. | 20 14+0 10L | .. | .. | .. | .. | .. | .. |
| 258 | 28 | .. | 3 28+0 22L | .. | .. | 3 50+0 39L | .. | .. | .. |
| 259 | 28 | 15 27+1 08u | 15 16+0 59L | 15 23+0 04L | 15 43+0 15L | 15 26+1 37u | .. | .. | .. |
| 260 | 29 | 9 34+1 01u | 9 29+0 52u | 9 31+0 50u | .. | 9 34+1 13u | .. | 9 24+0 04P | .. |
| 261 | 30 | 11 11+0 42u | 11 15+0 45L | .. | .. | 11 10+1 00u | 11 07+0 05P | 11 07+0 12P | .. |
| 262 | 30 | 20 23+0 40u | .. | .. | .. | .. | .. | .. | .. |

CORRELATION OF EARTHQUAKES

June, 1943

N O T E S

| | | | |
|---|------------------|---------------------------|---|
| A | : Ottawa | $\Delta = 4,000$ km. | H = 4 ^h 15 ^m .4 U.T. |
| B | : Ottawa | $\Delta = 3,180$ km. | H = 4 ^h 24 ^m .2 U.T. |
| | Seven Falls | $\Delta = 3,480$ km. | H = 4 24.3 U.T. |
| C | : Ottawa | $\Delta = 15,600$ km. ca. | H = 20 ^h 42 ^m .5 U.T. ca. |
| | Victoria | $\Delta = 12,800$ km. ca. | H = 20 42.2 U.T. ca. |
| | Seven Falls | $\Delta = 16,100$ km. ca. | H = 20 42.6 U.T. ca. |
| E | : Ottawa | $\Delta = 15,500$ km. ca. | H = 3 ^h 06 ^m .2 U.T. ca. |
| | Saskatoon | $\Delta = 13,000$ km. ca. | H = 3 06.6 U.T. ca. |
| F | : Ottawa | $\Delta = 9,200$ km. | H = 5 ^h 12 ^m .0 U.T. |
| | Victoria | $\Delta = 6,540$ km. | H = 5 12.4 U.T. |
| | Saskatoon | $\Delta = 7,260$ km. | H = 5 12.4 U.T. |
| | Seven Falls | $\Delta = 9,300$ km. | H = 5 12.2 U.T. |
| G | : Ottawa | $\Delta = 9,520$ km. | H = 8 ^h 37 ^m .1 U.T. |
| | Victoria | $\Delta = 6,590$ km. | H = 8 37.4 U.T. |
| | Saskatoon | $\Delta = 7,440$ km. | H = 8 37.4 U.T. |
| J | : Ottawa | $\Delta = 9,560$ km. | H = 17 ^h 39 ^m .4 U.T. |
| K | : Ottawa | $\Delta = 9,280$ km. | H = 11 ^h 11 ^m .1 U.T. |
| | Victoria | $\Delta = 6,670$ km. | H = 11 11.3 U.T. |
| | Shawinigan Falls | $\Delta = 9,220$ km. | H = 11 11.1 U.T. |
| N | : Ottawa | $\Delta = 3,690$ km. | H = 18 ^h 21 ^m .8 U.T. |
| | Victoria | $\Delta = 4,660$ km. | H = 18 21.8 U.T. |
| | Saskatoon | $\Delta = 4,150$ km. | H = 18 22.0 U.T. |
| | Seven Falls | $\Delta = 4,100$ km. | H = 18 21.7 U.T. |
| | Shawinigan Falls | $\Delta = 3,900$ km. | H = 18 21.9 U.T. |
| Q | : Ottawa | $\Delta = 3,720$ km. | H = 19 ^h 45 ^m .5 U.T. |
| R | : Ottawa | $\Delta = 7,980$ km. | H = 15 ^h 33 ^m .0 U.T. |
| | Victoria | $\Delta = 9,420$ km. | H = 15 33.3 U.T. |
| | Seven Falls | $\Delta = 7,380$ km. | H = 15 33.1 U.T. |
| S | : Ottawa | $\Delta = 8,760$ km. | H = 17 ^h 39 ^m .7 U.T. |

Dominion Observatory,

Ottawa, Canada,

August 3, 1943.

S T A T I O N S (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

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

SASKATOON

University of Saskatchewan

$\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.
 Time correction from radio time signals
 Foundation: clay and sand
 Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

$\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.
 Time correction from recorded radio time signals
 Foundation: rock
 Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|--------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | 5 mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2200 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 cycles | | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

EROM. July 1, 1943 to July 5, 1943 No. 42

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|------------------|-------------|--|--|
| | | h m s | km. | |
| 264 July 4 | | Ottawa | 3940 | USCGS. gives:- $\phi = 9^{\circ} \text{ N.}$ $\lambda = 84^{\circ} 5' \text{ W.}$ Depth 100 km. ca. |
| | H | 9 52.1 | | |
| | P | 9 59 07 | | |
| | PPP | 10 00 32 | | |
| | S | 10 04 50 | | |
| | SS | 10 07 08 | | |
| | L | 10 11 | | |
| | F | 11 17 | | |
| | | Victoria | | |
| | e | 10 01.4 | | |
| | e | 10 10 55 | | |
| | L | 10 21 | | |
| | F | 11 21 | | |
| | | Saskatoon | | |
| | e | 10 01.0 | | |
| | i | 10 10 24 | | |
| | L | 10 21 | | |
| | F | 11 00 | | |
| | | Seven Falls | | |
| e | 10 01.1 | | | |
| e | 10 05 32 | | | |
| L | 10 08 | | | |
| F | 11 26 | | | |
| | Shawinigan Falls | | | |
| e | 9 59.4 | | | |
| L | 10 12 | | | |
| F | 10 27 | | | |
| | Seven Falls | | | |
| e | 13 42 35 | | | |
| L | 13 53 | | | |
| F | 15 28 | | | |
| | Ottawa | 6840 | USCGS. gives:- $\phi = 17^{\circ} 5' \text{ S.}$ $\lambda = 73^{\circ} \text{ W.}$ | |
| H | 21 07.9 | | | |
| P | 21 18 05 | | | |
| S | 21 26 33 | | | |
| e _F | 21 27.8 | | | |
| eL _F | 21 37 | | | |
| F | 22 21 | | | |
| | Victoria | | | |
| H | 21 08.0 | | | |
| P | 21 19 28 | | | |
| S | 21 29 23 | | | |
| L | 21 46 | | | |
| F | 22 28 | | | |
| | Seven Falls | | | |
| H | 21 08.0 | | | |
| P | 21 18 18 | | | |
| S | 21 26.8 | | | |
| L | 21 37 | | | |
| F | 23 08 | | | |
| | Seven Falls | 6880 | | |

FROM July 5, 1943 to July 11, 1943 No. 43

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | | |
|--------------------|--|-------------------|---|--|-------------|--------|
| | | h m s | km. | | | |
| 271 July 6 | H iPn iSn i i L F | Ottawa | 225 | NESA Bulletin No. 121 gives $\phi = 44^{\circ}9' N.$ $\lambda = 73^{\circ}2' W.$ $H = 22^h 10^m 14^s.5$ | | |
| | | 22 10.2 | | | | |
| | | 22 10 48 | | | | |
| | | 22 11 14 | | | | |
| | | 22 11 17.5 | | | | |
| | | 22 11 23 | | | | |
| | | 22 11 27 | | | | |
| | | 22 17 | | | | |
| | | Seven Falls | | | | |
| | | 22 10.2 | | | | |
| | | 22 10 58 | | | | |
| | | 22 11 33.5 | | | | |
| | | 22 11 38.5 | | | | |
| | | 22 11 41.5 | | | | |
| | | 22 18 | | | | |
| 310 | | | | | | |
| 272 July 6 | H Pn S ₂ S ₁ F | Shawinigan Falls | 185 | | | |
| | | 22 10.2 | | | | |
| | | 22 10 44 | | | | |
| | | 22 11 06 | | | | |
| | | 22 11 08.5 | | | | |
| | | 22 19 | | | | |
| | | Victoria | | | | |
| | | 13 08 56 | | | | |
| | | 13 24 | | | | |
| | | 14 35 | | | | |
| | | Victoria | | | | |
| | | 15 00.3 | | | | |
| | | 15 23 | | | | |
| | | 16 00 | | | | |
| | | 275 July 8 | | | e L F | Ottawa |
| 277 July 9 | eZ e e L F | 23 38 14 | | | | |
| | | 23 46.0 | | | | |
| | | 23 54 | | | | |
| | | 23 57 | | | | |
| | | 0 42 | | | | |
| | | Victoria | | | | |
| | | 23 34 22 | | | | |
| | | 23 40 | | | | |
| | | 1 14 | | | | |
| | | Seven Falls | | | | |
| | | 23 46.0 | | | | |
| | | 23 56 | | | | |
| | | 0 53 | | | | |
| | | 278 July 11 | H P'Z PP PS SS SSS L F | Ottawa | 13,000 ca. | |
| | | 2 11 ca. | | | | |
| 2 29 49 | | | | | | |
| 2 31.1 | | | | | | |
| 2 40.6 | | | | | | |
| 2 47 | | | | | | |
| 2 52 | | | | | | |
| 3 06 | | | | | | |
| 5 04 | | | | | | |

SEISMOLOGICAL SERVICE OF CAN
 DOMINION OBSERVATORY, OTTAWA

FROM July 11, 1943 to July 21, 1943 No. 44

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------------------|----------------|------------------|----------|---------|
| | | h m s | km. | |
| | | Victoria | | |
| 278 July 11 (Cont'd) | e | 2 23 16 | | |
| | L | 2 34 50 | | |
| | F | 2 49 | | |
| | | 5 21 | | |
| | | Saskatoon | | |
| | e | 2 28 44 | | |
| | L | 2 38.0 | | |
| | F | 3 00 | | |
| | | 5 11 | | |
| | | Halifax | | |
| e | 2 30 01 | | | |
| L | 2 49.5 | | | |
| F | 3 08 | | | |
| | | 4 11 | | |
| | | Seven Falls | | |
| H | 2 11 ca. | 13,000 ca. | | |
| P' | 2 29.8 | | | |
| PP | 2 30 51 | | | |
| PS | 2 40 50 | | | |
| PPS | 2 41.6 | | | |
| e | 2 48 40 | | | |
| L | 3 07 | | | |
| F | 5 38 | | | |
| | | Shawinigan Falls | | |
| e | 2 29.9 | | | |
| L | 3 07 | | | |
| F | 3 33 | | | |
| | | Ottawa | | |
| 289 July 19 | H | 23 19.7 | 165 | |
| | P ₂ | 23 20 09 | | |
| | S ₂ | 23 20 27.8 | | |
| | F | 23 21 | | |
| | | Ottawa | | |
| 291 July 21 | e | 4 37.2 | | |
| | L | 4 53 | | |
| | F | 5 24 | | |
| | | Victoria | | |
| e | 4 36 57 | | | |
| L | 4 55 | | | |
| F | 6 10 | | | |
| | | Saskatoon | | |
| e | 4 37 22 | | | |
| L | 4 56 | | | |
| F | 5 45 | | | |
| | | Seven Falls | | |
| e | 4 37.4 | | | |
| L | 4 52 | | | |
| F | 6 20 | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

| FROM | July 21, 1943 | | to | July 23, 1943 | | No. 45 | |
|--------------------|-----------------|-------------|---|---------------|--|--------|----------|
| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | | | |
| | | h m s | km. | | | | |
| 292 July 21 | H | 15 22.1 | 440 | | | | |
| | Pn | 15 23 07 | | | | | |
| | S ₂ | 15 24 03 | | | | | |
| | S ₁ | 15 24 15 | | | | | |
| | L? | 15 24 29 | | | | | |
| | F | 15 28 | | | | | |
| | | Ottawa | | | | | |
| 294 July 22 | H | 2 09.5 | 4960 | | | | |
| | PZ | 2 17 42 | | | | | |
| | S | 2 24.4 | | | | | |
| | SSS | 2 28.5 | | | | | |
| | L | 2 32 | | | | | |
| | F | 2 49 | | | | | |
| | | Victoria | | | | | |
| 296 July 23 | H | 2 09.5 | 6740 | | | | |
| | P | 2 19 37 | | | | | |
| | S | 2 28 00 | | | | | |
| | L | 2 40 | | | | | |
| | F | 3 12 | | | | | |
| | | Seven Falls | | | | | |
| 296 July 23 | e | 2 25 01 | 16,000 ca. USCGS. gives:- $\phi = 10^{\circ}5$ S. $\lambda = 117^{\circ}5$ E. | | | | |
| | L | 2 33 | | | | | |
| | F | 2 55 | | | | | |
| | | | | | | | Ottawa |
| | H | 14 53 ca. | | | | | |
| | P' | 15 12 32 | | | | | |
| | PP | 15 15 44 | | | | | |
| | SKKS | 15 22 33 | | | | | |
| | PPSN | 15 28.0 | | | | | |
| | SS _E | 15 33.8 | | | | | |
| | L | 15 55 | | | | | |
| | F | 17 28 | | | | | |
| | | | | | | | Victoria |
| | H | 14 53 ca. | | | | | |
| P | 15 07.4 | | | | | | |
| P' | 15 11.1 | | | | | | |
| PP | 15 12 15 | | | | | | |
| S | 15 19 17 | | | | | | |
| SKKS | 15 20 08 | | | | | | |
| PS | 15 22 00 | | | | | | |
| PPS | 15 23.0 | | | | | | |
| SS | 15 28 34 | | | | | | |
| L | 15 42 | | | | | | |
| F | 17 57 | | | | | | |
| | | Saskatoon | 13,000 ca. | | | | |
| e | 15 12 11 | | | | | | |
| e | 15 14.3 | | | | | | |
| e | 15 22 09 | | | | | | |
| e | 15 30 14 | | | | | | |
| L | 15 47 | | | | | | |
| F | 17 34 | | | | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA



From the ISC collection scanned by SISMOS

FROM July 23, 1943 to July 29, 1943 No. 46

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------------------|--|------------------|----------|---|
| | | h m s |  |  | km. |
| 296 July 23 (Cont'd) | e e L F | Halifax | 4820 | |
| | | 15 12 35 | | |
| | | 15 35.1 | | |
| | | 15 55 | | |
| | 16 38 | | | |
| | e e e e e L F | Seven Falls | | |
| | | 15 12 29 | | |
| | | 15 15 39 | | |
| | | 15 20 42 | | |
| | | 15 34 01 | | |
| | | 15 41.5 | | |
| | | 15 57 | | |
| | 18 04 | | | |
| | e e e L F | Shawinigan Falls | | |
| | | 15 12 29 | | |
| 15 15 40 | | | | |
| 15 22.5 | | | | |
| 15 35.6 | | | | |
| 16 09 | | | | |
| 16 30 | | | | |
| 301 July 28 | H PZ S SS L F | Ottawa | 4820 | |
| | | 4 04.8 | | |
| | | 4 12 53 | | |
| | | 4 19 28 | | |
| | | 4 22 42 | | |
| | e L F | Victoria | | |
| | | 4 09 08 | | |
| | | 4 14 | | |
| | 4 51 | | | |
| | e L F | Saskatoon | | |
| | | 4 14 33 | | |
| | | 4 18 | | |
| | 4 35 | | | |
| | e L F | Seven Falls | | |
| | | 4 19.6 | | |
| 4 28 | | | | |
| 5 04 | | | | |
| e L F | Shawinigan Falls | | | |
| | 4 13 58 | | | |
| | 4 29 | | | |
| 4 36 | | | | |
| 302 July 29 | H P PP e S iZ SS L F | Ottawa | 2920 | USCGS. gives:- φ = 18° 9' N. λ = 67° W. |
| | | 3 02.4 | | |
| | | 3 08 04 | | |
| | | 3 08 38 | | |
| | | 3 09 24 | | |
| | | 3 12 42 | | |
| | | 3 13 23 | | |
| | | 3 13 40 | | |
| | | 3 15 32 | | |
| | | 7 16 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA



From the ISC collection scanned by SISMOS

FROM July 29, 1943 to July 29, 1943 No. 47

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------------------|------------------|-----------|----------|---------|
| | | h m s | km. | |
| 302 July 29 (Cont'd) | | Victoria | | |
| | H | 3 02.5 | 5790 | |
| | P | 3 11 40 | | |
| | PP | 3 13.9 | | |
| | PPP | 3 14 43 | | |
| | S | 3 19 09 | | |
| | ^{eH} | 3 20 26 | | |
| | SSS | 3 24 16 | | |
| | L | 3 28 | | |
| | F | 8 13 | | |
| | | Saskatoon | | |
| | H | 3 02.6 | 4790 | |
| | P | 3 10 36 | | |
| S | 3 17 09 | | | |
| SSS | 3 20 25 | | | |
| L | 3 23 | | | |
| F | 7 08 | | | |
| | Halifax | | | |
| H | 3 02.4 | 2700 | | |
| P | 3 07 44 | | | |
| e | 3 08 09 | | | |
| S | 3 12 06 | | | |
| L | 3 14 | | | |
| F | 6 22 | | | |
| | Seven Falls | | | |
| H | 3 02.5 | 3000 | | |
| P | 3 08 13 | | | |
| e | 3 10 32 | | | |
| S | 3 12 56 | | | |
| SS | 3 13 41 | | | |
| L | 3 15 | | | |
| F | 8 59 | | | |
| | Shawinigan Falls | | | |
| H | 3 02.3 | 3020 | | |
| P | 3 08 06 | | | |
| S | 3 12.9 | | | |
| i | 3 13 45 | | | |
| L | 3 16 | | | |
| F | 5 13 | | | |
| | Ottawa | | | |
| 309 July 29 | ^{eZ} | 11 48.5 | | |
| | L | 11 53 | | |
| | F | 12 36 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA



From the ISC collection scanned by SISMOS

FROM July 29, 1943 to July 31, 1943 No. 48

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|------------------|-----------|----------|---|--|
| | | h m s | km, | | |
| | | Ottawa | | | |
| 311 July 30 | H | 1 02.7 | 2910 | USCGS. gives:- $\phi = 18^{\circ}9' N.$ $\lambda = 67^{\circ} W.$ | |
| | P | 1 08 17 | | | |
| | PP | 1 08.8 | | | |
| | S | 1 12 54 | | | |
| | L | 1 16 | | | |
| | F | 2 31 | | | |
| | | Victoria | | | |
| | e | 1 12.3 | | | |
| | L | 1 27 | | | |
| | F | 2 56 | | | |
| | | Saskatoon | | | |
| | e | 1 17 25 | | | |
| | e | 1 20 44 | | | |
| | L | 1 25 | | | |
| | F | 2 19 | | | |
| | Halifax | | | | |
| e | 1 08.0 | | | | |
| L | 1 12 | | | | |
| F | 1 42 | | | | |
| | Seven Falls | | | | |
| e | 1 09.0 | | | | |
| S | 1 13 10 | | | | |
| L | 1 15 | | | | |
| F | 2 43 | | | | |
| | Shawinigan Falls | | | | |
| e | 1 08 23 | | | | |
| e | 1 13 54 | | | | |
| L | 1 16 | | | | |
| F | 1 32 | | | | |

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month July, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 263 | 3 | | 1 11+0 08L | | | | | | |
| 264 | 4 | 9 59+1 18r | 10 01+1 20r | 10 01+0 59r | 11 08+0 29L | 10 01+1 25r | 10 06+0 23r | 9 59+0 28r | A |
| 265 | 4 | 13 56+0 31L | 14 07+0 42L | 14 07+0 22L | | 13 43+1 45u | | | |
| 266 | 4 | 22 18+0 15L | 22 34+0 15L | | | 22 17+0 23L | | | |
| 267 | 5 | | 14 44+0 19L | | | 14 52+0 33L | | | |
| 268 | 5 | 21 18+1 03u | 21 19+1 09u | | | 21 18+1 50u | 21 18+0 03P | 21 18+0 06P | B |
| 269 | 6 | | | | | | | 9 50+0 04P | |
| 270 | 6 | | 13 46+0 17L | | | 13 21+0 38L | | | |
| 271 | 6 | 22 11+0 06V | | | | | 22 11+0 07v | 22 11+0 08v | C |
| 272 | 6 | 13 45+0 45L | 13 09+1 26u | 13 33+0 29L | | 12 57+2 07L | | | |
| 273 | 7 | | | | | 18 32+0 06L | | | |
| 274 | 8 | 14 03+0 06L | 14 08+0 10L | | | 14 04+0 07L | | | |
| 275 | 8 | 15 40+0 33L | 15 00+1 00u | | | 15 14+1 24L | | | |
| 276 | 9 | | 3 06+0 23L | | | 3 30+0 11L | | | |
| 277 | 9 | 23 38+1 04u | 23 34+1 40u | 23 46+0 32L | | 23 46+1 07u | | | |
| 278 | 9 | 2 30+2 34u | 2 23+2 58u | 2 29+2 42u | 2 30+1 41u | 2 31+3 07u | 2 30+1 08u | 2 30+1 03u | E |
| 279 | 11 | | 9 02+0 14L | | | | | | |
| 280 | 12 | | 22 52+0 22L | | | | | | |
| 281 | 12 | | 12 00+0 07L | | | | | | |
| 282 | 13 | | 10 46+0 21L | | | | | | |
| 283 | 14 | | 20 08+1 01L | | | | | | |
| 284 | 14 | 20 41+0 47L | 0 06+0 04L | | | 20 48+1 05L | | | |
| 285 | 15 | | 12 49+0 14L | 12 45+0 12L | | 0 43+0 16L | | | |
| 286 | 15 | 12 35+0 13L | | | | | | | |
| 287 | 16 | 16 04+0 02P | | | | | | 16 04+0 03P | |
| 288 | 18 | 8 06+0 01P* | | | | | | 8 06+0 02P | |
| 289 | 18 | 8 19+0 01P* | 8 18+0 10L | | | | | | |
| 290 | 19 | 23 20+0 01V* | | | | | | | F |
| 291 | 20 | | 4 47+0 03L | | | | | | |
| 292 | 21 | 4 37+0 47u | 4 37+1 33u | 4 37+1 08u | | 4 37+1 43u | | | G |
| 293 | 21 | 15 23+0 05V | | | | | 15 25+0 02v | 15 24+0 03v | |
| 294 | 21 | | 23 19+0 10L | | | | | | J |
| | 22 | 2 18+0 31r | 2 20+0 52u | | | 2 25+0 30r | | | |

EARTHQUAKE CORRELATION TABLE
 Month July, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| | | | | | | M. S. | W. A. | | |
| 295 | 22 | 7 20+0 01P* | 15 07+2 50U | 15 12+2 22U | 15 13+1 25U | 15 13+2 52U | 15 12+1 14U | 15 12+1 17U | .. K |
| 296 | 23 | 15 13+2 15U | .. | 5 52+1 35L | .. | .. | .. | .. | .. |
| 297 | 24 | .. | 23 55+0 04L | .. | .. | 15 49+0 03L | .. | .. | .. |
| 298 | 24 | 23 37+0 0.4P* | .. | .. | .. | .. | .. | .. | .. |
| 299 | 27 | .. | .. | .. | .. | .. | .. | .. | .. |
| 300 | 27 | .. | 22 52+0 03L | .. | .. | .. | .. | .. | .. |
| 301 | 28 | 4 13+0 36R | 4 09+0 42R | 4 15+0 20R | 4 31+0 07L | 4 20+0 44R | 4 27+0 11L | 4 14+0 22R | .. N |
| 302 | 29 | 3 08+4 08R | 3 12+5 01U | 3 11+3 57R | 3 08+3 14R | 3 08+5 51R | 3 08+2 27R | 3 08+2 05R | .. Q |
| 303 | 29 | 3 29+0 07P* | .. | .. | .. | .. | 3 29+0 10P | 3 30+0 08P | .. |
| 304 | 29 | 4 14+0 04P* | .. | .. | .. | .. | 4 15+0 03P | 4 13+0 04P | .. |
| 305 | 29 | 4 19+0 02P* | .. | .. | .. | .. | 4 19+0 03P | 4 19+0 03P | .. |
| 306 | 29 | 6 26+0 02P* | .. | .. | .. | .. | .. | .. | .. |
| 307 | 29 | 6 31+0 01P* | .. | .. | .. | .. | 6 32+0 01P | .. | .. |
| 308 | 29 | .. | .. | .. | .. | .. | .. | .. | .. |
| 309 | 29 | 11 48+0 48R | 11 59+1 03L | .. | .. | 9 39+0 06L | 11 50+0 02P | 11 48+0 05P | .. |
| 310 | 29 | 11 54+0 02P* | .. | .. | .. | 11 52+0 44L | 11 54+0 02P | 11 54+0 03P | .. |
| 311 | 30 | 1 08+1 23R | 1 12+1 44u | 1 17+1 12R | 1 08+0 34R | 1 09+1 34R | 1 09+0 20R | 1 08+0 24R | .. R |
| 312 | 30 | 1 13+0 07P | .. | .. | .. | .. | .. | .. | .. |
| 313 | 30 | 1 30+0 05P* | .. | .. | .. | .. | .. | .. | .. |
| 314 | 30 | 4 35+0 02P* | .. | .. | .. | .. | 4 35+0 02P | .. | .. |
| 315 | 30 | 21 33+0 34L | 21 47+0 25L | 21 46+0 19L | .. | 21 36+0 33L | .. | .. | .. |
| 316 | 31 | 3 28+0 03P* | .. | .. | .. | .. | .. | 3 28+0 03P | .. |
| 317 | 31 | 3 33+0 48L | 3 49+0 32L | 3 40+0 33L | .. | 3 33+0 56L | 3 33+0 03L | 3 33+0 03L | .. |
| 318 | 31 | 20 09+0 02P* | .. | .. | .. | .. | .. | .. | .. |
| 319 | 31 | 20 14+0 02P* | 20 30+0 24L | .. | .. | 20 15+0 23L | .. | .. | .. |

CORRELATION OF EARTHQUAKES

July, 1943

N O T E S

| | | | |
|---|------------------|---------------------------|------------------------|
| A | : Ottawa | $\Delta = 3,940$ km. | H = 9^h52^m1 U.T. |
| B | : Ottawa | $\Delta = 6,840$ km. | H = 21^h07^m9 U.T. |
| | Victoria | $\Delta = 8,620$ km. | H = 21 08.0 U.T. |
| | Seven Falls | $\Delta = 6,880$ km. | H = 21 08.0 U.T. |
| C | : Ottawa | $\Delta = 225$ km. | H = 22^h10^m2 U.T. |
| | Seven Falls | $\Delta = 310$ km. | H = 22 10.2 U.T. |
| | Shawinigan Falls | $\Delta = 185$ km. | H = 22 10.2 U.T. |
| E | : Ottawa | $\Delta = 13,000$ km. ca. | H = 2^h11^m ca. U.T. |
| | Seven Falls | $\Delta = 13,000$ km. ca. | H = 2 11 ca. U.T. |
| F | : Ottawa | $\Delta = 165$ km. | H = 23^h19^m7 U.T. |
| G | : Ottawa | $\Delta = 440$ km. | H = 15^h22^m1 U.T. |
| J | : Ottawa | $\Delta = 4,960$ km. | H = 2^h09^m5 U.T. |
| | Victoria | $\Delta = 6,740$ km. | H = 2 09.5 U.T. |
| K | : Ottawa | $\Delta = 16,000$ km. ca. | H = 14^h53^m U.T. |
| | Victoria | $\Delta = 13,000$ km. ca. | H = 14 53 U.T. |
| N | : Ottawa | $\Delta = 4,820$ km. | H = 4^h04^m8 U.T. |
| Q | : Ottawa | $\Delta = 2,920$ km. | H = 3^h02^m4 U.T. |
| | Victoria | $\Delta = 5,790$ km. | H = 3 02.5 U.T. |
| | Saskatoon | $\Delta = 4,790$ km. | H = 3 02.6 U.T. |
| | Halifax | $\Delta = 2,700$ km. | H = 3 02.4 U.T. |
| | Seven Falls | $\Delta = 3,000$ km. | H = 3 02.5 U.T. |
| | Shawinigan Falls | $\Delta = 3,020$ km. | H = 3 02.3 U.T. |
| R | : Ottawa | $\Delta = 2,910$ km. | H = 1^h02^m7 U.T. |

Dominion Observatory,
 Ottawa, Canada,
 September 13, 1943.

SEISMOLOGICAL BULLETINS RECEIVED
June and July, 1943

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

| STATIONS | BULLETINS | RECEIVED |
|---------------------------------------|--|----------|
| Brisbane | March, 1943 | June 14 |
| Santa Clara | May, 1943 | " 15 |
| Apia | January to March, 1943 | " 17 |
| New Zealand Stations | April, 1943 | " 28 |
| Perth | March and April, 1943 | July 3 |
| Brisbane | April, 1943 | " 10 |
| Bogota | April, 1943 | " 12 |
| Brisbane | May, 1943 | " 13 |
| Santa Clara | June, 1943 | " 19 |
| Saint Louis and Auxiliary Stations | Preliminaries for January 27, 30) 31; February 16, 22; March 5, 7, 9, 14, 15, 21, and April 9, 1943) | " 26 |
| Ksara | October to December, 1942 | " 26 |
| Saint Louis and Auxiliary Stations | Preliminaries for August 8, 24, and November 25, 1942; also April 6 and May 2, 1943) | " 26 |
| Denver | June, 1941 to June, 1943 | " 26 |
| Florissant | January, 1942 | " 26 |
| Riverview | January to March, 1943 | " 29 |
| Bogota | May, 1943 | " 30 |

DOMINION OBSERVATORY,
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

JULY

1943

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DOMINION OBSERVATORY
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83$ m.

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46$ m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'4''$ N. $\lambda = 70^{\circ}49'6''$ 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 EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N. $\lambda = 123^{\circ}24'56''$ W. $h = 197$ m.

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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 smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

August
1943

○○○○

DOMINION OBSERVATORY
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83$ m.

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46$ m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'.4$ N. $\lambda = 70^{\circ}49'.6$ 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 EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N. $\lambda = 123^{\circ}24'56''$ W. $h = 197$ m.

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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 smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

S T A T I O N S (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

 $\phi = 46^{\circ}33'1''$ N. $\lambda = 72^{\circ}45'8''$ W. $h = 60$ m. ca.

Time correction from recorded radio time signals

Foundation: solid granite of Canadian Shield

Instrument: Wood-Anderson NS component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15g.

SASKATOON

University of Saskatchewan

 $\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.

Time correction from radio time signals

Foundation: clay and sand

Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

 $\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.

Time correction from recorded radio time signals

Foundation: rock

Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|--------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | 5 mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2400 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 cycles | | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM August 1, 1943 to August 8, 1943 No. 49

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|----------------------------|---|----------|---------|
| | | h m s | km. | |
| 323 Aug. 1 | eZ eZ e L F | Ottawa 16 37 09 16 40 24 16 46 22 17 09 17 36 | | |
| | e eE L F | Victoria 16 32.6 16 42 00 16 55 17 42 | | |
| | e L F | Saskatoon 16 43.7 17 12 17 32 | | |
| | e e L F | Seven Falls 16 40.1 16 49 17 17 18 06 | | |
| 324 Aug. 2 | eZ e e eL F | Ottawa 1 06.0 1 09 28 1 21.0 1 44 3 33 | | |
| | e e L F | Victoria 1 05.4 1 15.6 1 38 3 49 | | |
| | e L F | Saskatoon 1 07 1 45 3 33 | | |
| | e e e e L F | Seven Falls 1 06.0 1 09.0 1 15.8 1 28.7 1 50 4 07 | | |
| 331 Aug. 8 | eZ eE L F | Ottawa 0 44.5 0 49.0 0 52 1 20 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM August 8, 1943 to August 13, 1943 No. 50

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|-------------|-----------|----------|--|--|
| | | h m s | km. | | |
| 335 Aug. 9 | e | Victoria | | | |
| | L | 5 32.8 | | | |
| | F | 5 36 | | | |
| | | 6 28 | | | |
| | | Saskatoon | | | |
| | H | 5 30.1 | 1880 | | |
| | P | 5 34 00 | | | |
| | S | 5 37 15 | | | |
| | L | 5 38.6 | | | |
| | F | 5 55 | | | |
| 340 Aug. 10 | | Ottawa | | | |
| | H | 15 13.6 | 7450 | USCGS. gives:- $\phi = 54^{\circ}$ N. $\lambda = 161^{\circ}$ E. | |
| | P | 15 24 23 | | | |
| | PP | 15 27.0 | | | |
| | iS | 15 33 22 | | | |
| | SS | 15 37.8 | | | |
| | L | 15 47 | | | |
| | F | 17 09 | | | |
| | | Victoria | | | |
| | H | 15 13.3 | 4790 | | |
| P | 15 21 19 | | | | |
| S | 15 27 52 | | | | |
| SSS | 15 31 29 | | | | |
| L | 15 34 | | | | |
| F | 17 18 | | | | |
| | Saskatoon | | | | |
| H | 15 13.8 | 5390 | | | |
| P | 15 22.5 | | | | |
| S | 15 29 36 | | | | |
| SS | 15 32 09 | | | | |
| L | 15 38 | | | | |
| F | 16 00 | | | | |
| | Halifax | | | | |
| e | 15 34 20 | | | | |
| L | 15 50 | | | | |
| F | 16 25 | | | | |
| | Seven Falls | | | | |
| H | 15 13.5 | 7510 | | | |
| P | 15 24 25 | | | | |
| iS | 15 33 27 | | | | |
| SSS | 15 41 15 | | | | |
| L | 15 49 | | | | |
| F | 18 19 | | | | |
| | Ottawa | | | | |
| 350 Aug. 13 | eZ | 7 47 20 | | | |
| | eN | 7 55 38 | | | |
| | eL | 8 02 | | | |
| | F | 8 16 | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM August 13, 1943 to August 31, 1943 No. 51

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------|-----------|----------------|----------|--|
| | | h m s | km. | |
| 353 Aug. 15 | eZ | Ottawa | | |
| | L | 0 19 00 | | |
| | F | 0 23.5 1 14 | | |
| | | Seven Falls | | |
| | e | 0 20.0 | | |
| | L | 0 23 51 | | |
| | F | 0 26 1 25 | | |
| 360 Aug. 20 | e | Victoria | | |
| | L | 1 46.1 | | |
| | F | 2 01 3 07 | | |
| 361 Aug. 22 | e | Victoria | | |
| | L | 11 15 39 | | |
| | F | 11 22 11 38 | | |
| 363 Aug. 27 | e | Victoria | | |
| | L | 1 07 43 | | |
| | F | 1 27 1 57 | | |
| 368 Aug. 31 | | Ottawa | | |
| | H | 16 10.8 | 3550 | USCGS. gives:- φ = 13°5 N. λ = 91°5 W. |
| | P | 16 17 21 | | |
| | i | 16 17 38 | | |
| | PPP | 16 18 32 | | |
| | S | 16 22 40 | | |
| | e | 16 25 12 | | |
| | L | 16 27 | | |
| | F | 17 16 | | |
| | | Victoria | | |
| H | 16 10.8 | 4700 | | |
| P | 16 18 41 | | | |
| S | 16 25 09 | | | |
| SSS | 16 28 33 | | | |
| L | 16 34 | | | |
| F | 17 15 | | | |
| | Saskatoon | | | |
| e | 16 20 18 | | | |
| L | 16 28 | | | |
| F | 16 54 | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 31, 1943 to August 31, 1943 No. 52

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|-------------------------------|----------|----------|----------------------|---------|--|
| | | h m s | km. | | |
| | | Halifax | | | |
| 368 Aug. 31 (Cont'd) | H | 16 10.9 | 4055 | | |
| | P | 16 18.0 | | | |
| | PPP | 16 19 37 | | | |
| | S | 16 23 50 | | | |
| | L | 16 27 | | | |
| | F | 16 47 | | | |
| | | | Seven Falls | | |
| | H | 16 10.8 | 4000 | | |
| | P | 16 17 48 | | | |
| | PPP | 16 19 20 | | | |
| | S | 16 23 35 | | | |
| | SS | 16 25 56 | | | |
| | L | 16 30 | | | |
| | F | 17 14 | | | |
| | | | Shawinigan Falls | | |
| P | 16 17 39 | | | | |
| L | 16 27 | | | | |
| F | 16 38 | | | | |
| | | | <i>W. W. Doxsee.</i> | | |

EARTHQUAKE CORRELATION TABLE

Month August, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| | | | | | | M. S. | W. A. | | |
| 320 | 1 | ..... | ..... | ..... | ..... | 1 25+0 12L | ..... | ..... | ..... |
| 321 | 1 | ..... | ..... | 7 17+0 19L | ..... | ..... | ..... | ..... | ..... |
| 322 | 1 | 14 30+0 0.5P* | ..... | ..... | ..... | 14 53+0 20L | ..... | ..... | ..... |
| 323 | 1 | 16 37+0 59u | ..... | 16 44+0 48u | ..... | 16 40+1 26u | ..... | ..... | ..... |
| 324 | 2 | 1 06+2 27u | 16 33+1 09u | 1 07+2 26u | 1 58+1 03L | 1 06+3 01u | 1 09+1 10u | ..... | ..... |
| 325 | 2 | ..... | 1 05+2 44u | ..... | ..... | 9 40+0 41L | ..... | ..... | ..... |
| 326 | 2 | ..... | 10 23+0 07L | ..... | ..... | 12 15+0 10L | ..... | ..... | ..... |
| 327 | 2 | ..... | ..... | ..... | ..... | 20 33+0 12L | ..... | ..... | ..... |
| 328 | 4 | ..... | ..... | ..... | ..... | 1 08+0 06L | ..... | ..... | ..... |
| 329 | 6 | 12 15+0 01P* | ..... | ..... | ..... | ..... | ..... | 1 01+0 08P | ..... |
| 330 | 7 | ..... | 11 10+0 13L | ..... | ..... | ..... | ..... | 12 15+0 06P | ..... |
| 331 | 8 | 0 44+0 36u | 0 57+0 27L | ..... | ..... | 0 49+0 35L | 0 45+0 04P | 0 45+0 03P | ..... |
| 332 | 8 | 0 50+0 02P* | ..... | ..... | ..... | ..... | 0 50+0 03P | 0 50+0 04P | ..... |
| 333 | 8 | ..... | ..... | ..... | ..... | 7 24+0 09L | ..... | ..... | ..... |
| 334 | 8 | 8 39+0 02P* | 8 49+0 13L | ..... | ..... | 8 53+0 10L | ..... | ..... | ..... |
| 335 | 9 | 5 45+0 31L | 5 33+0 55P | 5 34+0 21P | 5 50+0 16L | 5 49+0 32L | 5 09+0 11L | 5 48+0 05L | A |
| 336 | 9 | 15 06+0 01V* | ..... | ..... | ..... | ..... | ..... | 15 06+0 01V | ..... |
| 337 | 9 | 18 04+0 17L | 17 24+1 08L | ..... | ..... | 17 49+0 51L | ..... | ..... | ..... |
| 338 | 10 | ..... | 12 28+0 05L | ..... | ..... | ..... | ..... | ..... | ..... |
| 339 | 10 | ..... | 14 07+0 53L | ..... | ..... | 14 11+1 04L | ..... | ..... | ..... |
| 340 | 10 | 15 24+1 45u | 15 21+1 57P | 15 22+0 38u | 15 34+0 51u | 15 24+2 55u | 15 33+0 26u | ..... | B |
| 341 | 10 | 15 48+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 342 | 11 | ..... | 5 41+0 30L | ..... | ..... | ..... | ..... | ..... | ..... |
| 343 | 11 | ..... | ..... | ..... | ..... | 13 00+0 15L | ..... | 12 53+0 02P | ..... |
| 344 | 11 | ..... | ..... | ..... | ..... | ..... | 14 59+0 02P | ..... | ..... |
| 345 | 12 | 5 04+0 01P | 5 01+0 49L | ..... | ..... | 5 15+1 01L | ..... | 5 04+0 02P | ..... |
| 346 | 12 | ..... | 8 27+0 14L | ..... | ..... | ..... | ..... | ..... | ..... |
| 347 | 12 | 11 24+0 02P* | ..... | ..... | ..... | 11 30+0 10L | ..... | 11 24+0 03P | ..... |
| 348 | 12 | 11 28+0 03P* | ..... | ..... | ..... | ..... | 11 28+0 02P | 11 28+0 03P | ..... |
| 349 | 13 | ..... | 3 41+0 06L | ..... | ..... | ..... | ..... | ..... | ..... |
| 350 | 13 | 7 47+0 29u | 8 20+0 17L | ..... | ..... | 8 01+0 35L | ..... | 7 47+0 02P | ..... |
| 351 | 14 | 3 00+0 09L | 3 03+0 09L | ..... | ..... | 3 02+0 20L | ..... | ..... | ..... |
| 352 | 14 | 8 27+0 01P* | ..... | ..... | ..... | 9 12+0 21L | ..... | ..... | ..... |

EARTHQUAKE CORRELATION TABLE

Page 2

Month August, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | | Shawinigan | ** |
|-----|------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|----|
| | | | | | | M. S. | W. A. | | | |
| 353 | 15 | 0 19+0 55r | 0 39+0 42L | ..... | 0 23+0 04L | 0 24+1 01r | 0 20+0 10r | 0 24+0 07L | .. | |
| 354 | 15 | 0 24+0 04P | ..... | ..... | ..... | ..... | ..... | ..... | .. |  |
| 355 | 15 | 0 42+0 03P* | ..... | ..... | ..... | ..... | 0 43+0 03P | 0 43+0 02P | .. | |
| 356 | 15 | ..... | 2 51+0 47L | ..... | ..... | 3 12+0 50L | ..... | ..... | .. |  |
| 357 | 15 | ..... | 13 09+0 23L | ..... | ..... | ..... | ..... | ..... | .. |  |
| 358 | 17 | ..... | ..... | ..... | ..... | 3 26+0 12L | ..... | ..... | .. |  |
| 359 | 17 | 9 26+0 0.2P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |  |
| 360 | 20 | 2 23+0 42L | 1 46+1 21u | ..... | ..... | 2 16+0 53L | ..... | ..... | .. |  |
| 361 | 22 | ..... | 11 16+0 22u | ..... | ..... | 11 33+0 28L | ..... | ..... | .. |  |
| 362 | 23 | ..... | 8 01+0 14L | ..... | ..... | 8 18+0 24L | ..... | ..... | .. |  |
| 363 | 27 | 1 36+0 34L | 1 08+0 49u | 1 32+0 32L | ..... | 1 46+0 37L | ..... | ..... | .. |  |
| 364 | 27 | 10 47+0 05L | 10 32+0 18L | 10 36+0 07L | ..... | 10 48+0 06L | ..... | ..... | .. |  |
| 365 | 29 | 3 07+0 14L | 3 08+0 15L | 3 05+0 12L | ..... | ..... | ..... | ..... | .. |  |
| 366 | 29 | 4 03+0 07L | 3 54+0 13L | 3 55+0 08L | ..... | ..... | ..... | 4 04+0 03L | .. | |
| 367 | 31 | 15 45+0 28L | ..... | ..... | ..... | 15 47+0 26L | ..... | ..... | .. |  |
| 368 | 31 | 16 17+0 59r | 16 19+0 56r | 16 20+0 34r | 16 18+0 29r | 16 18+0 56r | 16 18+0 22r | 16 18+0 20r | C | |

CORRELATION OF EARTHQUAKES

August, 1943

 N O T E S

| ===== | | | |
|-------|-------------|-----------------------------|---|
| A : | Saskatoon | $\Delta = 1880 \text{ km.}$ | H = $5^{\text{h}}30^{\text{m}}.1 \text{ U.T.}$ |
| B : | Ottawa | $\Delta = 7450 \text{ km.}$ | H = $15^{\text{h}}13^{\text{m}}.6 \text{ U.T.}$ |
| | Victoria | $\Delta = 4790 \text{ km.}$ | H = $15 \ 13.3 \text{ U.T.}$ |
| | Saskatoon | $\Delta = 5390 \text{ km.}$ | H = $15 \ 13.8 \text{ U.T.}$ |
| | Seven Falls | $\Delta = 7510 \text{ km.}$ | H = $15 \ 13.5 \text{ U.T.}$ |
| C : | Ottawa | $\Delta = 3550 \text{ km.}$ | H = $16^{\text{h}}10^{\text{m}}.8 \text{ U.T.}$ |
| | Victoria | $\Delta = 4700 \text{ km.}$ | H = $16 \ 10.8 \text{ U.T.}$ |
| | Halifax | $\Delta = 4055 \text{ km.}$ | H = $16 \ 10.9 \text{ U.T.}$ |
| | Seven Falls | $\Delta = 4000 \text{ km.}$ | H = $16 \ 10.8 \text{ U.T.}$ |

Dominion Observatory,
 Ottawa, Canada,
 October 13, 1943

SEISMOLOGICAL BULLETINS RECEIVED
 August and September, 1943

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

| STATIONS | BULLETINS | RECEIVED |
|---|--|-------------|
| New Zealand Stations | May, 1943 | August 9 |
| Santa Clara | July, 1943 | " 10 |
| Weston | March and April, 1943 | " 14 |
| Helwan | Year 1942 | " 18 |
| Bogota | June, 1943 | " 20 |
| New Zealand Stations | June, 1943 | " 26 |
| Weston | Preliminary for May and June, 1943 | " 26 |
| Apia | April to June, 1943 | " 28 |
| Weston | Preliminary for July, 1943 | " 30 |
| Saint Louis and Auxiliary Stations | Supplements to April, May, June, July, Sept., Oct., Dec., 1942 and Feb., 1943 | " 30 |
| | Preliminaries for Sept. 9, 26, Oct. 21, 26, 28, Nov. 10, 12, 19, 28, Dec. 9, 26, 31, 1942 and March 15, May 25, 26, June 30, July 4, 5, 1943 | " 31 |
| Pasadena | Preliminary for January - March, 1943 | September 3 |
| Santa Clara | August, 1943 | " 7 |
| United States Coast and Geodetic Survey | January to July, 1941 | " 10 |
| Perth | May and June, 1943 | " 15 |
| Weston | Preliminary for August, 1943 | " 23 |
| Sydney | January and February, 1943 | |

DOMINION OBSERVATORY,
 OTTAWA - CANADA.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN
September
1943



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DOMINION OBSERVATORY
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83$ m.

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46$ m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'4''$ N. $\lambda = 70^{\circ}49'6''$ 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 EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N. $\lambda = 123^{\circ}24'56''$ W. $h = 197$ m.

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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, smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

S T A T I O N S (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

 $\phi = 46^{\circ}33'1''$ N. $\lambda = 72^{\circ}45'8''$ W. $h = 60$ m. ca.

Time correction from recorded radio time signals

Foundation: solid granite of Canadian Shield

Instrument: Wood-Anderson NS component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15g.

SASKATOON

University of Saskatchewan

 $\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.

Time correction from radio time signals

Foundation: clay and sand

Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

 $\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.

Time correction from recorded radio time signals

Foundation: rock

Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|--------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | 5 mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2400 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 cycles | | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM September 1, 1943 to September 6, 1943 No. 53

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|-------------|-----------|------------|--|--------|
| | | h m s | km. | | |
| 372 Sept. 5 | | Ottawa | | | |
| | H | 8 34.5 | 14,600 ca. | USCGS. gives:- $\phi = 0^\circ$ $\lambda = 125^\circ E.$ | |
| | P'z | 8 53 47 | | | |
| | SKP | 8 57 09 | | | |
| | SKKS | 9 03 | | | |
| | PPS | 9 09 00 | | | |
| | SS | 9 13.2 | | | |
| | SSS | 9 18 | | | |
| | eL | 9 38 | | | |
| | F | 11 12 ca. | | | |
| | | Victoria | | | |
| | H | 8 34.6 | | | 11,780 |
| | PP | 8 53 46 | | | |
| | SKS | 8 59 24 | | | |
| PS | 9 02 18 | | | | |
| SS | 9 07.9 | | | | |
| SSS | 9 12.0 | | | | |
| eN | 9 18.1 | | | | |
| eL | 9 22 | | | | |
| F | 11 23 | | | | |
| | Seven Falls | | | | |
| H | 8 34.6 | 14,700 | | | |
| SKP | 8 57 13 | | | | |
| SKKS | 9 03.1 | | | | |
| PPS | 9 08 40 | | | | |
| SS | 9 13.8 | | | | |
| SSS | 9 18 02 | | | | |
| eL | 9 29 | | | | |
| F | 11 18 | | | | |
| 373 Sept. 6 | | Ottawa | | | |
| | H | 3 42 ca. | 13,700 ca. | USCGS. gives:- $\phi = 53^\circ 2' S.$ $\lambda = 159^\circ 4' E.$ | |
| | P' | 4 01 01 | | | |
| | PPN | 4 02 26 | | | |
| | SKP | 4 04 20 | | | |
| | SKS | 4 08.0 | | | |
| | PPS | 4 14 40 | | | |
| | SSS | 4 24 00 | | | |
| | e | 4 28.2 | | | |
| | eL | 4 42 | | | |
| | F | 7 35 | | | |
| | | Victoria | | | |
| | H | 3 41.6 | | | 13,550 |
| | P' | 4 00.4 | | | |
| | PP | 4 01 58 | | | |
| | SKS | 4 07.7 | | | |
| | PS | 4 11 55 | | | |
| | i | 4 14 16 | | | |
| | SS | 4 18 42 | | | |
| | SSS | 4 22.9 | | | |
| | L | 4 36 | | | |
| | F | 8 18 | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM September 6, 1943 to September 7, 1943 No. 54

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | | |
|-------------------------------|----------|-------------|----------|------------------|--|--|
| | | h m s | km. | | | |
| | | Saskatoon | | | | |
| 373 Sept. 6 (Cont'd) | H | 3 41.4 | 14,900 | | | |
| | P' | 4 00 44 | | | | |
| | PP | 4 03 04 | | | | |
| | SKP | 4 04 07 | | | | |
| | SKS | 4 07.8 | | | | |
| | e | 4 13 22 | | | | |
| | PPS | 4 15 00 | | | | |
| | SS | 4 21 | | | | |
| | SSS | 4 25 | | | | |
| | L | 4 37 | | | | |
| | F | 7 09 | | | | |
| | | | | Halifax | | |
| | e | 4 00 54 | | | | |
| | e | 4 04.6 | | | | |
| e | 4 14 56 | | | | | |
| e | 4 17.6 | | | | | |
| e | 4 24.6 | | | | | |
| L | 4 33 | | | | | |
| F | 6 21 | | | | | |
| | | Seven Falls | | | | |
| 376 Sept. 7 | H | 3 41.7 | 15,700 | | | |
| | P' | 4 01 14 | | | | |
| | PP | 4 04.3 | | | | |
| | PPS | 4 16.8 | | | | |
| | SS | 4 23.3 | | | | |
| | SSS | 4 28.0 | | | | |
| | L | 4 43 | | | | |
| | F | 7 43 | | | | |
| | | | | Shawinigan Falls | | |
| | e | 4 01 07 | | | | |
| | e | 4 14.4 | | | | |
| | e | 4 22.9 | | | | |
| | e | 4 28.9 | | | | |
| | L | 4 45 | | | | |
| F | 6 08 | | | | | |
| | | Ottawa | | | | |
| ez | 19 42 34 | | | | | |
| e | 19 45 | | | | | |
| L | 19 46 | | | | | |
| F | 20 03 | | | | | |
| | | Victoria | | | | |
| e | 19 34 49 | | | | | |
| L | 19 37 09 | | | | | |
| F | 19 49 | | | | | |
| | | Saskatoon | | | | |
| e | 19 34 42 | | | | | |
| e | 19 37 20 | | | | | |
| L | 19 38 | | | | | |
| F | 20 05 | | | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM September 7, 1943 to September 10, 1943 No. 55

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|-------------------------------|----------------|------------------|----------|---|------|
| | | h m s | | | km. |
| 376 Sept. 7 (Cont'd) | | Seven Falls | | | |
| | e | 19 42.9 | | | |
| | e | 19 46 26 | | | |
| | L | 19 47 | | | |
| | F | 19 58 | | | |
| | | Shawinigan Falls | | | |
| | e | 19 33 58 | | | |
| | L | 19 46 | | | |
| | F | 19 57 | | | |
| | | Ottawa | | 205 | |
| 377 Sept. 8 | H | 15 13.3 | | | |
| | P ₂ | 15 13 49 | | | |
| | S ₁ | 15 14 11 | | | |
| | S ₂ | 15 14 12.5 | | | |
| | F | 15 15 | | | |
| | Seven Falls | | | | |
| 378 Sept. 8 | e | 19 37 27 | | | |
| | e | 19 37 40 | | | |
| | F | 19 39 | | | |
| | Ottawa | | 2900 | | |
| 379 Sept. 10 | H | 2 31.8 | | USCGS. gives:- φ = 18°9 N. λ = 67° W. | |
| | P _Z | 2 37 24 | | | |
| | e _Z | 2 37 57 | | | |
| | S _N | 2 42.0 | | | |
| | L | 2 45 | | | |
| | F | 3 20 | | | |
| | | Seven Falls | | | |
| | e | 2 38.4 | | | |
| | L | 2 43 | | | |
| | F | 3 08 | | | |
| | Ottawa | | 10,430 | | |
| 381 Sept. 10 | H | 8 37.2 | | USCGS. gives:- φ = 35°1 N. λ = 133°3 E. | |
| | P _Z | 8 50.5 | | | |
| | PP | 8 54.1 | | | |
| | SKS | 9 00 58 | | | |
| | S | 9 01 42 | | | |
| | PS | 9 02 50 | | | |
| | SS | 9 08 | | | |
| | SSS | 9 12.5 | | | |
| | eL | 9 22 | | | |
| | F | 11 57 | | | |
| | | Victoria | | | 7990 |
| | H | 8 36.7 | | | |
| | P | 8 48 00 | | | |
| S | 8 57 25 | | | | |
| SS | 9 01.5 | | | | |
| L | 9 10 | | | | |
| F | 11 54 | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM September 10, 1943 to September 14, 1943 No. 56

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------------------|-------------|------------------|----------|---------|
| | | h m s | km. | |
| 381 Sept. 10 (Cont'd) | | Saskatoon | | |
| | e | 8 58 57 | | |
| | L | 9 12 | | |
| | F | 11 17 | | |
| | | Seven Falls | | |
| | e | 8 54.4 | | |
| | S | 9 01 29 | | |
| | SS | 9 07 58 | | |
| | L | 9 20 | | |
| | F | 12 05 | | |
| | | Shawinigan Falls | | |
| | e | 8 50.5 | | |
| e | 9 01.0 | | | |
| L | 9 23 | | | |
| F | 10 10 | | | |
| | Ottawa | | | |
| e | 20 02.2 | | | |
| e | 20 07 | | | |
| eL | 20 22 | | | |
| F | 21 41 | | | |
| | Victoria | | | |
| e | 19 55 52 | | | |
| L | 20 10 | | | |
| F | 21 06 | | | |
| | Saskatoon | | | |
| e | 19 57 59 | | | |
| e | 20 04 | | | |
| L | 20 15 | | | |
| F | 21 27 | | | |
| | Seven Falls | | | |
| e | 19 59.5 | | | |
| e | 20 02.5 | | | |
| e | 20 03 47 | | | |
| e | 20 09.1 | | | |
| L | 20 26 | | | |
| F | 22 12 | | | |
| | Ottawa | | | |
| H | 2 01 ca. | 13,900 ca. | | |
| P'Z | 2 20 06 | | | |
| PP _E | 2 22.0 | | | |
| SKPN | 2 23.0 | | | |
| SKS _E | 2 27.2 | | | |
| PS _E | 2 31.5 | | | |
| SS _E | 2 39.0 | | | |
| L | 3 00 | | | |
| F | 4 31 ca. | | | |

USCGS. gives:-
 $\phi = 16^{\circ}5' S.$
 $\lambda = 173^{\circ} W.$

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM September 14, 1943 to September 14, 1943 No. 57

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------------------|-------------|------------|----------|---------|
| | | h m s | km. | |
| 388 Sept. 14 (Cont'd) | | Victoria | | |
| | H | 2 01.1 | 10.560 | |
| | PPPN | 2 20 23 | | |
| | SKS | 2 24 57 | | |
| | SS | 2 32.1 | | |
| | L | 2 44 | | |
| | F | 4 10 ca. | | |
| | | Saskatoon | | |
| | e | 2 26 00 | | |
| | e | 2 28 44 | | |
| | e | 2 34.6 | | |
| | e | 2 41.7 | | |
| | L | 2 50 | | |
| | F | 4 04+ | | |
| | | Halifax | | |
| e | 2 23.2 | | | |
| L | 3 00 | | | |
| F | 4 04 | | | |
| | Seven Falls | | | |
| H | 2 01.6 | 13,670 | | |
| PP | 2 22 06 | | | |
| SKS | 2 27 29 | | | |
| SKKS | 2 29.1 | | | |
| PS | 2 32.1 | | | |
| SS | 2 38 53 | | | |
| L | 3 00 | | | |
| F | 4 12+ | | | |
| | Ottawa | | | |
| H | 3 47 ca. | 13,900 ca. | | |
| P ¹ Z | 4 06 10 | | | |
| PPE | 4 07.7 | | | |
| PPS | 4 19 | | | |
| SS | 4 24.4 | | | |
| e ^E | 4 25 12 | | | |
| eL | 4 40 | | | |
| F | 6 42 | | | |
| | Victoria | | | |
| e | 4 11.0 | | | |
| e | 4 12 45 | | | |
| e | 4 17.2 | | | |
| e | 4 30 | | | |
| L | 4 37 | | | |
| F | 6 45 | | | |
| | Saskatoon | | | |
| H | 3 47.4 | 11,450 | | |
| PP | 4 05.6 | | | |
| PS | 4 14 36 | | | |
| SS | 4 20.6 | | | |
| SSS | 4 24 09 | | | |
| L | 4 36 | | | |
| F | 6 31 | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM September 14, 1943 to September 14, 1943 No. 58

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------------------|-------------|-------------|------------|---------|--|
| | | h m s | km. | | |
| 389 Sept. 14 (Cont'd) | e | 4 09 16 | | | |
| | L | 4 44 | | | |
| | F | 6 06 | | | |
| | | Seven Falls | | | |
| | H | 3 47.6 | 13,670 | | |
| | PP | 4 08 06 | | | |
| | PS | 4 18.1 | | | |
| | SS | 4 24 51 | | | |
| | L | 4 43 | | | |
| | F | 7 05 | | | |
| 390 Sept. 14 | | Ottawa | | | |
| | H | 7 18 ca | 13,300 ca. | | |
| | P'Z | 7 36 52 | | | |
| | PP | 7 38.0 | | | |
| | SKS | 7 43.7 | | | |
| | SN | 7 46.2 | | | |
| | PS | 7 48.2 | | | |
| | SS | 7 54.6 | | | |
| | SSS | 7 59.0 | | | |
| | eL | 8 13 | | | |
| | F | 10 37 | | | |
| | | Victoria | | | |
| | H | 7 18.3 | 10,100 | | |
| | P | 7 31 25 | | | |
| | S | 7 42 23 | | | |
| SS | 7 49 | | | | |
| L | 7 55 | | | | |
| F | 10 20 | | | | |
| | Saskatoon | | | | |
| H | 7 18.1 | 11,670 | | | |
| PP | 7 36 30 | | | | |
| SKS | 7 42 36 | | | | |
| PS | 7 45.6 | | | | |
| SS | 7 51.0 | | | | |
| L | 8 06 | | | | |
| F | 10 14 | | | | |
| | Halifax | | | | |
| eE | 7 38.8 | | | | |
| eN | 7 46.8 | | | | |
| e | 7 56 | | | | |
| L | 8 12 | | | | |
| F | 9 44 | | | | |
| | Seven Falls | | | | |
| H | 7 18.3 | 13,500 ca. | | | |
| PP | 7 38 40 | | | | |
| SKS | 7 44 06 | | | | |
| PS | 7 48 24 | | | | |
| SS | 7 55 45 | | | | |
| e | 8 03.9 | | | | |
| L | 8 13 | | | | |
| F | 11 50 | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

| FROM | | September 14, 1943 | | to | | September 20, 1943 | | No. 59 | |
|--------------------------------|----------------|--------------------|------|----|----------|--|--|--------|--|
| NO. AND DATE | PHASE | TIME | | | DISTANCE | REMARKS | | | |
| | | h | m | s | km. | | | | |
| | | Shawinigan Falls | | | | | | | |
| 390 Sept. 14 (Cont'd) | e | 7 | 37.3 | | | | | | |
| | L | 8 | 12 | | | | | | |
| | F | 9 | 01 | | | | | | |
| | | Victoria | | | | | | | |
| 394 Sept. 16 | e ^N | 13 | 12 | 04 | | | | | |
| | e | 13 | 15 | 16 | | | | | |
| | L | 13 | 34 | | | | | | |
| | F | 14 | 11 | | | | | | |
| | | Victoria | | | | | | | |
| 397 Sept. 17 | e | 10 | 32 | 29 | | | | | |
| | L | 10 | 50 | | | | | | |
| | F | 11 | 25 | | | | | | |
| | | Saskatoon | | | | | | | |
| | e | 10 | 33 | 27 | | | | | |
| | L | 10 | 57 | | | | | | |
| | F | 11 | 19 | | | | | | |
| | | Seven Falls | | | | | | | |
| | e | 10 | 35 | 09 | | | | | |
| | e | 10 | 39 | 12 | | | | | |
| | L | 11 | 05 | | | | | | |
| | F | 11 | 47 | | | | | | |
| | | Victoria | | | | | | | |
| 398 Sept. 19 | e ^N | 5 | 00.1 | | | | | | |
| | e | 5 | 09 | 40 | | | | | |
| | L | 5 | 26 | | | | | | |
| | F | 6 | 20 | | | | | | |
| | | Seven Falls | | | | | | | |
| | e | 5 | 00.3 | | | | | | |
| | L | 5 | 15 | | | | | | |
| | F | 7 | 25 | | | | | | |
| | | Ottawa | | | | | | | |
| 399 Sept. 20 | H | 0 | 53.9 | | 4010 | USCGS. gives:- $\phi = 19^{\circ}5' N.$ $\lambda = 109^{\circ} W.$ | | | |
| | P | 1 | 01 | 00 | | | | | |
| | S | 1 | 06 | 48 | | | | | |
| | SSS | 1 | 09.5 | | | | | | |
| | eL | 1 | 11 | | | | | | |
| | F | 1 | 55 | | | | | | |
| | | Victoria | | | | | | | |
| | H | 0 | 54.1 | | 3090 | | | | |
| | P | 0 | 59 | 58 | | | | | |
| | S | 1 | 04 | 48 | | | | | |
| | L | 1 | 09 | | | | | | |
| | F | 2 | 07 | | | | | | |
| | | Saskatoon | | | | | | | |
| | e | 1 | 05 | 32 | | | | | |
| | L | 1 | 09 | | | | | | |
| | F | 1 | 59 | | | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM September 20, 1943 to September 23, 1943 No. 60

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------------------|------------------|--------------|---------------------------------|----------------|
| | | h m s | km. | |
| 399 Sept. 20 (Cont'd) | | Seven Falls | | |
| | H | 0 54.2 | 5800 | |
| | P | 1 03 19 | | |
| | S | 1 10.8 | | |
| | SSS | 1 15 26 | | |
| | L F | 1 19 2 08 | | |
| 402 Sept. 22 | | Ottawa | | |
| | H | 23 18 ca. | 14,000 ca. | |
| | P ^v Z | 23 37 11 | | |
| | PP _E | 23 39.0 | | |
| | S _N | 23 47.0 | | |
| | PS _E | 23 48.6 | | |
| | SS | 23 56.0 | | |
| | eL | 0 12 | | |
| | F | 1 46 | | |
| | | Victoria | | |
| | e | 23 42.6 | | |
| | L | 0 04 | | |
| | F | 2 17 | | |
| | | Saskatoon | | |
| e | 23 37.0 | | | |
| e | 23 46 21 | | | |
| L | 0 09 | | | |
| F | 1 48 | | | |
| | Halifax | | | |
| e | 23 40 | | | |
| L | 0 24 | | | |
| F | 1 05 | | | |
| 404 Sept. 23 | | Seven Falls | | |
| | H | 23 18 ca. | 14,500 ca. | |
| | P ⁱ | 23 37 21 | | |
| | PP | 23 39.4 | | |
| | PS | 23 49.4 | | |
| | SS | 23 56.9 | | |
| | L | 0 27 | | |
| | F | 2 37 | | |
| | | Ottawa | | |
| | H | 15 00.8 | 3480 | USCGS. gives:- |
| P | 15 07 14 | | $\phi = 15^\circ \text{ N.}$ | |
| i | 15 07 38 | | $\lambda = 92^\circ \text{ W.}$ | |
| PPN | 15 08 14 | | | |
| PPP | 15 08 32 | | | |
| S | 15 12 29 | | | |
| i | 15 13 00 | | | |
| eL | 15 16 | | | |
| F | 16 12 | | | |

F 12 46

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM September 28, 1943 to September 30, 1943 No. 63

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|----------------------|-------|------------------|----------|---------|
| | | h m s | km. | |
| | | Seven Falls | | |
| 418 | H | 16 30.4 | 35 | |
| Sept. | P1 | 16 30 32 | | |
| 28 | S1 | 16 30 37 | | |
| (Cont'd) | F | 16 33 | | |
| | | Shawinigan Falls | | |
| | e | 16 30 52 | | |
| | e | 16 31 26 | | |
| | F | 16 32 | | |
| <i>W. W. Doxsee.</i> | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM September 23, 1943 to September 24, 1943 No. 61

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------------------|----------|------------------|-----------|---------|--|
| | | h m s | km. | | |
| 404 Sept. 23 (Cont'd) | | Victoria | | | |
| | H | 15 00.7 | 4510 | | |
| | P | 15 08 22 | | | |
| | S | 15 14 40 | | | |
| | SSS | 15 18 12 | | | |
| | L | 15 24 | | | |
| | F | 16 30 | | | |
| | | | Saskatoon | | |
| | H | 15 00.2 | 4720 | | |
| | P | 15 08 04 | | | |
| | PP | 15 09 36 | | | |
| | S | 15 14 33 | | | |
| | SSS | 15 18 00 | | | |
| | F | 16 03 | | | |
| | | | Halifax | | |
| | H | 15 00.2 | 3870 | | |
| | P | 15 07 04 | | | |
| | PPP | 15 08 36 | | | |
| S | 15 12.7 | | | | |
| SSS | 15 15.9 | | | | |
| L | 15 22 | | | | |
| F | 15 36 | | | | |
| | | Seven Falls | | | |
| H | 15 00.7 | 3880 | | | |
| P | 15 07 40 | | | | |
| PPP | 15 09 12 | | | | |
| S | 15 13 20 | | | | |
| SS | 15 15.5 | | | | |
| L | 15 20 | | | | |
| F | 16 30 | | | | |
| | | Shawinigan Falls | | | |
| H | 15 00.7 | 3760 | | | |
| P | 15 07 31 | | | | |
| PPP | 15 09.0 | | | | |
| S | 15 13 03 | | | | |
| L | 15 20 | | | | |
| F | 15 36 | | | | |
| | | Ottawa | | | |
| eZ | 11 44 44 | | | | |
| eZ | 11 48.6 | | | | |
| eN | 11 55.3 | | | | |
| eL | 12 18 | | | | |
| F | 12 35 | | | | |
| | | Victoria | | | |
| e | 11 55.2 | | | | |
| L | 12 21 | | | | |
| F | 12 53 | | | | |
| | | Saskatoon | | | |
| e | 11 55.2 | | | | |
| L | 12 21 | | | | |
| F | 12 46 | | | | |

EARTHQUAKE CORRELATION TABLE
 Month September, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 369 | 2 | 9 13+0 02P* | | | | | | | |
| 370 | 2 | 23 20+0 01P* | | | | | | | |
| 371 | 4 | | 7 37+0 13L | | | | | | |
| 372 | 5 | 8 54+2 18U | 8 54+2 29U | | | | 8 57+0 55U | 8 57+0 10P | A |
| 373 | 6 | 4 01+3 34U | 4 00+4 18U | 4 01+3 08U | 4 01+2 20U | 4 01+3 42U | 4 01+1 56U | 4 01+2 07U | B |
| 374 | 6 | | | 8 03+0 19L | | | | | |
| 375 | 6 | | | 19 35+0 30R | | | | 15 05+0 06L | |
| 376 | 7 | 19 43+0 20R | 19 35+0 14R | | | 19 46+0 12R | 19 43+0 12R | 19 34+0 23R | |
| 377 | 8 | 15 14+0 01V | | | | | | | C |
| 378 | 8 | | | | | | | 19 37+0 01d | E |
| 379 | 10 | 2 37+0 43R | 2 57+0 29L | 2 51+0 18L | | 2 43+0 25L | 2 38+0 08R | 2 37+0 13R | |
| 380 | 10 | 3 03+0 01P* | | | | | | | F |
| 381 | 10 | 8 50+3 07U | 8 48+3 06U | 8 59+2 18U | | 8 54+3 11U | 9 01+0 51U | 8 50+1 20U | |
| 382 | 10 | | | | | 14 26+0 07L | | | |
| 383 | 11 | 2 09+0 13L | | | | 2 06+0 15L | | | |
| 384 | 11 | 20 02+1 39u | 19 56+1 10u | 19 58+1 29u | | 20 00+2 12u | | 20 30+0 08L | |
| 385 | 12 | 1 17+0 01P* | | | | 2 10+0 55L | | | |
| 386 | 13 | | | | | 23 36+0 17L | | | |
| 387 | 14 | | | | | 1 20+0 19L | | | |
| 388 | 14 | 2 20+2 11U | 2 20+1 50U | 2 26+1 38U | 2 23+1 41U | 2 22+1 50U | 3 12+0 31L | 3 09+0 19L | G |
| 389 | 14 | 4 06+2 36U | 4 11+2 34U | 4 06+2 25U | 4 09+1 57U | 4 08+2 57U | 4 49+0 33L | 4 49+0 31L | J |
| 390 | 14 | 7 37+3 00U | 7 31+2 49U | 7 36+2 38U | 7 39+2 05U | 7 39+4 16U | 7 39+1 28U | 7 37+1 24U | K |
| 391 | 14 | 7 47+0 01P* | | | | | | | |
| 392 | 14 | 14 58+0 29L | 14 55+0 15L | | | | | | |
| 393 | 16 | 1 21+0 15L | 1 08+0 26L | 1 12+0 37L | | 0 35+1 29L | | | |
| 394 | 16 | 13 46+0 27L | 13 12+0 59u | 13 40+0 33L | | 14 00+0 24L | | | |
| 395 | 17 | | | | | 0 46+0 29L | | | |
| 396 | 17 | 5 21+0 17L | 5 11+0 24L | | | 5 27+0 15L | | | |
| 397 | 17 | 10 46+1 01L | 10 32+0 53u | 10 33+0 46u | | 10 35+1 12u | | | |
| 398 | 19 | | 5 00+1 20u | 5 24+0 55L | | 5 00+2 25u | | | |
| 399 | 20 | 1 01+0 54R | 1 00+1 06R | 1 06+0 53R | | 1 03+1 05R | 1 15+0 14L | 1 15+0 10L | N |
| 400 | 21 | | | | | 4 56+0 51L | | | |
| 401 | 22 | 23 27+0 03L | 23 17+0 06L | 23 18+0 05L | | | 23 26+0 06L | 23 25+0 04L | |
| 402 | 22 | 23 37+2 09u | 23 43+2 34u | 23 37+2 11u | 23 40+1 25u | 23 39+2 58u | 23 37+1 06u | 23 37+0 03P | O |
| 403 | 23 | 12 55+0 07L | 12 50+0 06L | 12 51+0 08L | | 12 57+0 07L | | 12 56+0 02L | |

EARTHQUAKE CORRELATION TABLE
 Month September, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 404 | 23 | 15 07+1 05r | 15 08+1 22r | 15 08+0 55r | 15 07+0 29r | 15 08+1 22r | 15 08+0 30r | 15 08+0 28r | P |
| 405 | 23 | ..... | ..... | ..... | ..... | ..... | ..... | 15 37+0 02P | .. |
| 406 | 24 | ..... | 3 35+0 18L | ..... | ..... | 3 43+0 37L | ..... | ..... | .. |
| 407 | 24 | ..... | 6 52+0 39L | 7 04+0 20L | ..... | 7 01+0 31L | ..... | ..... | .. |
| 408 | 24 | ..... | 11 55+0 58u | 11 55+0 51u | ..... | 11 55+1 13u | ..... | 11 45+0 05P | .. |
| 409 | 24 | ..... | 15 03+0 10L | ..... | ..... | 15 07+0 26L | ..... | ..... | .. |
| 410 | 25 | 5 55+0 0.6v* | ..... | ..... | ..... | ..... | 5 53+0 02d | 5 53+0 01v | Q |
| 411 | 26 | 3 18+0 26L | 3 39+0 21L | 3 32+0 38L | ..... | 2 30+2 00u | ..... | ..... | .. |
| 412 | 26 | 18 42+0 35L | ..... | 18 32+0 35L | ..... | 18 30+0 59u | ..... | ..... | .. |
| 413 | 26 | ..... | ..... | ..... | ..... | 22 56+0 10L | ..... | ..... | .. |
| 414 | 27 | 4 53+0 0.2P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 415 | 27 | 19 31+0 0.2P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |
| 416 | 27 | 22 22+1 55u | 22 27+1 58u | 22 51+0 40L | ..... | 22 30+2 03u | ..... | ..... | .. |
| 417 | 28 | 11 38+0 29L | 12 07+0 55L | 11 28+0 24L | ..... | 11 38+0 41L | ..... | ..... | .. |
| 418 | 28 | 16 32+0 01v* | ..... | ..... | ..... | ..... | 16 31+0 03d | 16 31+0 01v | R |
| 419 | 29 | ..... | ..... | ..... | ..... | 5 36+0 03L | ..... | ..... | .. |
| 420 | 29 | ..... | ..... | ..... | ..... | 10 14+0 21L | ..... | ..... | .. |
| 421 | 30 | ..... | 8 01+0 14L | ..... | ..... | 8 22+0 15L | ..... | ..... | .. |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

| FROM | | September 24, 1943 | | to | September 28, 1943 | | No. 62 | |
|--------------------------------|-------|--------------------|------|----|--------------------|---------|--------|--|
| NO. AND DATE | PHASE | TIME | | | DISTANCE | REMARKS | | |
| | | h | m | s | km, | | | |
| 408 Sept. 24 (Cont'd) | e | Seven Falls | | | | | | |
| | L | 11 | 55.4 | | | | | |
| | F | 12 | 19 | | | | | |
| 410 Sept. 25 | | Seven Falls | | | 50 | | | |
| | H | 5 | 52.6 | | | | | |
| | P1 | 5 | 52 | 44 | | | | |
| | S1 | 5 | 52 | 50 | | | | |
| | F | 5 | 55 | | | | | |
| | | Shawinigan Falls | | | 185 | | | |
| | H | 5 | 52.7 | | | | | |
| | P1 | 5 | 53 | 16 | | | | |
| | S1 | 5 | 53 | 38 | | | | |
| | F | 5 | 54 | | | | | |
| 411 Sept. 26 | | Seven Falls | | | | | | |
| | e | 2 | 30.5 | | | | | |
| | L | 3 | 15 | | | | | |
| 412 Sept. 26 | | Seven Falls | | | | | | |
| | e | 18 | 30.3 | | | | | |
| | L | 18 | 43 | | | | | |
| 416 Sept. 27 | | Ottawa | | | | | | |
| | iZ | 22 | 22 | 26 | | | | |
| | eN | 22 | 40.0 | | | | | |
| | | Victoria | | | | | | |
| | e | 22 | 27 | 17 | | | | |
| | e | 32 | 47.1 | | | | | |
| | | Seven Falls | | | | | | |
| | e | 22 | 29.6 | | | | | |
| | e | 22 | 41.2 | | | | | |
| 418 Sept. 28 | | Ottawa | | | | | | |
| | L | 22 | 50 | | | | | |
| | F | 0 | 33 | | | | | |
| | | Ottawa | | | | | | |
| | eZ | 16 | 32 | 20 | | | | |
| | eZ | 16 | 32 | 32 | | | | |
| | F | 16 | 33.5 | | | | | |

CORRELATION OF EARTHQUAKES
September, 1943

.....

N O T E S

| | | | |
|---|------------------|---------------------------|--------------------------|
| A | Ottawa | $\Delta = 14,600$ km. ca. | H = $8^h 34^m.5$ U.T. |
| | Victoria | $\Delta = 11,780$ km. | H = $8^h 34.6$ U.T. |
| | Seven Falls | $\Delta = 14,700$ km. | H = $8^h 34.6$ U.T. |
| B | Ottawa | $\Delta = 13,700$ km. ca. | H = $3^h 42^m$ U.T. |
| | Victoria | $\Delta = 13,550$ km. | H = $3^h 41.6$ U.T. |
| | Saskatoon | $\Delta = 14,900$ km. | H = $3^h 41.4$ U.T. |
| | Seven Falls | $\Delta = 15,700$ km. | H = $3^h 41.7$ U.T. |
| C | Ottawa | $\Delta = 205$ km. | H = $15^h 13^m.3$ U.T. |
| E | Ottawa | $\Delta = 2,900$ km. | H = $2^h 31^m.8$ U.T. |
| F | Ottawa | $\Delta = 10,430$ km. | H = $8^h 37^m.2$ U.T. |
| | Victoria | $\Delta = 7,990$ km. | H = $8^h 36.7$ U.T. |
| G | Ottawa | $\Delta = 13,900$ km. ca. | H = $2^h 01^m$ U.T. |
| | Victoria | $\Delta = 10,560$ km. | H = $2^h 01.1$ U.T. |
| | Seven Falls | $\Delta = 13,670$ km. | H = $2^h 01.6$ U.T. |
| J | Ottawa | $\Delta = 13,900$ km. ca. | H = $3^h 47^m$ U.T. |
| | Saskatoon | $\Delta = 11,450$ km. | H = $3^h 47.4$ U.T. |
| | Seven Falls | $\Delta = 13,670$ km. | H = $3^h 47.6$ U.T. |
| K | Ottawa | $\Delta = 13,300$ km. | H = $7^h 18^m$ U.T. |
| | Victoria | $\Delta = 10,100$ km. | H = $7^h 18.3$ U.T. |
| | Saskatoon | $\Delta = 11,670$ km. | H = $7^h 18.1$ U.T. |
| | Seven Falls | $\Delta = 13,500$ km. | H = $7^h 18.3$ U.T. |
| N | Ottawa | $\Delta = 4,010$ km. | H = $0^h 53^m.9$ U.T. |
| | Victoria | $\Delta = 3,090$ km. | H = $0^h 54.1$ U.T. |
| | Seven Falls | $\Delta = 5,800$ km. | H = $0^h 54.2$ U.T. |
| O | Ottawa | $\Delta = 14,000$ km. ca. | H = $23^h 18^m$ ca. U.T. |
| | Seven Falls | $\Delta = 14,500$ km. ca. | H = $23^h 18$ ca. U.T. |
| P | Ottawa | $\Delta = 3,480$ km. | H = $15^h 00^m.8$ U.T. |
| | Victoria | $\Delta = 4,510$ km. | H = $15^h 00.7$ U.T. |
| | Saskatoon | $\Delta = 4,720$ km. | H = $15^h 00.2$ U.T. |
| | Halifax | $\Delta = 3,870$ km. | H = $15^h 00.2$ U.T. |
| | Seven Falls | $\Delta = 3,880$ km. | H = $15^h 00.7$ U.T. |
| | Shawinigan Falls | $\Delta = 3,760$ km. | H = $15^h 00.7$ U.T. |
| Q | Seven Falls | $\Delta = 50$ km. | H = $5^h 52^m.6$ U.T. |
| | Shawinigan Falls | $\Delta = 185$ km. | H = $5^h 52.7$ U.T. |
| R | Seven Falls | $\Delta = 35$ km. | H = $16^h 30^m.4$ U.T. |

Dominion Observatory,
Ottawa, Canada,
November 9, 1943.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN
October
1943

°°°°

DOMINION OBSERVATORY
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF C...
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83$ m.

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46$ m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'4''$ N. $\lambda = 70^{\circ}49'6''$ 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 EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N, $\lambda = 123^{\circ}24'56''$ W. $h = 197$ m.

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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, smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

S T A T I O N S (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

$\phi = 46^{\circ}33'1''$ N. $\lambda = 72^{\circ}45'8''$ W. $h = 60$ m. ca.

Time correction from recorded radio time signals

Foundation: solid granite of Canadian Shield

Instrument: Wood-Anderson NS component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15g.

SASKATOON

University of Saskatchewan

$\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.

Time correction from radio time signals

Foundation: clay and sand

Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

$\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.

Time correction from recorded radio time signals

Foundation: rock

Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min,

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|--------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | 5 mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2400 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 cycles | | |

NOTE:- Universal Time used throughout.

CORRELATION OF EARTHQUAKES
 October, 1943

.....
 N O T E S
 =====

| | | | |
|---|--|---------------------------|--|
| A | : Ottawa | $\Delta = 165$ km. | H = 23 ^h 00 ^m .0 U.T. |
| B | : Ottawa | $\Delta = 8,000$ km. | H = 13 ^h 09 ^m .0 U.T. |
| | Seven Falls | $\Delta = 7,420$ km. | H = 13 09.1 U.T. |
| | Shawinigan Falls | $\Delta = 7,680$ km. | H = 13 09.0 U.T. |
| C | : Victoria | $\Delta = 8,865$ km. | H = 23 ^h 08 ^m .3 U.T. |
| E | : Ottawa | $\Delta = 12,000$ km. ca. | H = 17 ¹⁷ 23 ^m U.T. ca. |
| | Victoria | $\Delta = 8.865$ km. | H = (17 25.3) U.T. |
| | Seven Falls | $\Delta = 12,000$ km. ca. | H = 17 23.3 U.T. ca. |
| F | : Ottawa | $\Delta = 450$ km. | H = 16 ^h 17 ^m .7 U.T. |
| | Rockburst at Lake Shore Mines, Kirkland Lake, Ontario. | | |

Dominion Observatory,
 Ottawa, Canada,
 November 24, 1943.

SEISMOLOGICAL BULLETINS RECEIVED
 October, 1943

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

| STATIONS | BULLETINS | RECEIVED |
|--|----------------------------|-----------|
| New Zealand Stations | July, 1943 | October 2 |
| Brisbane | June and July, 1943 | " 4 |
| United States Coast and Geodetic Survey | August and September, 1941 | " 6 |
| Bogota | July, 1943 | " 14 |
| Santa Clara | September, 1943 | " 19 |
| Bogota | August, 1943 | " 21 |
| New Zealand Stations | August, 1943 | " 25 |
| Brisbane | August, 1943 | " 27 |
| Ksara | April to June, 1943 | " 28 |
| Ksara | Year 1940 | " 29 |

Dominion Observatory,
 Ottawa - Canada.

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM October 1, 1943 to October 16, 1943 No. 64

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|----------------|-----------------|----------|---------|
| | | h m s Ottawa | km. | |
| 422 Oct. 1 | eZ | 18 01 56 | | |
| | eN | 18 09 | | |
| | L | 18 13 | | |
| | F | 18 33 | | |
| 430 Oct. 4 | e | 10 52.6 | | |
| | e | 11 03.3 | | |
| | L | 11 28 | | |
| | F | 11 48 | | |
| | | Saskatoon | | |
| | e | 11 06.5 | | |
| | L | 11 36 | | |
| | F | 11 55 | | |
| 435 Oct. 13 | eZ | 4 51 27 | | |
| | eN | 4 59.0 | | |
| | eL | 5 02 | | |
| | F | 5 40 | | |
| | | Ottawa | | |
| | e | 4 54 51 | | |
| | L | 4 58 | | |
| | F | 5 44 | | |
| | | Saskatoon | | |
| | e | 4 55 18 | | |
| | L | 5 00 | | |
| | F | 5 19 | | |
| | | Seven Falls | | |
| | e | 5 01.0 | | |
| | eL | 5 03 | | |
| | F | 5 46 | | |
| 439 Oct. 15 | | Ottawa | | |
| | H | 23 00.0 | 165 | |
| | P ₁ | 23 00 27.5 | | |
| | S ₁ | 23 00 47 | | |
| 440 Oct. 16 | F | 23 01.6 | | |
| | | Ottawa | | |
| | eZ | 10 07.1 | | |
| | eZ | 10 12.2 | | |
| | L | 10 16 | | |
| | F | 10 31 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM October 16, 1943 to October 21, 1943 No. 65

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-----------------------|------------------------|------------------|----------|---------|
| | | h m s | km. | |
| 441 Oct. 16 | H PZ S L F | Ottawa | 8000 | |
| | | 13 09.0 | | |
| | | 13 20 19 | | |
| | | 13 29 45 | | |
| | | 13 42 | | |
| | H P S L F | Seven Falls | 7420 | |
| | | 13 09.1 | | |
| | | 13 19 56 | | |
| | | 13 28.9 | | |
| | | 13 44 | | |
| | H P S F | Shawinigan Falls | 7680 | |
| | | 13 09.0 | | |
| | | 13 20 04 | | |
| | | 13 29 14 | | |
| | | 13 30 | | |
| 443 Oct. 17 | e L F | Victoria | | |
| | | 23 00.7 | | |
| | | 23 21 | | |
| | e L F | Seven Falls | | |
| | | 23 09 | | |
| | | 23 43 | | |
| 446 Oct. 21 | e e eL F | Ottawa | 8865 | |
| | | 23 36 32 | | |
| | | 23 42 42 | | |
| | | 23 56 | | |
| | H P S L F | Victoria | | |
| | | 23 08.3 | | |
| | | 23 20 22 | | |
| | | 23 30 27 | | |
| | | 23 44 | | |
| | e e L F | Saskatoon | | |
| | | 23 32 15 | | |
| | | 23 38 21 | | |
| 23 50 | | | | |
| e e e L F | Seven Falls | | | |
| | 23 32 55 | | | |
| | 23 37 01 | | | |
| | 23 43 29 | | | |
| | 0 00 | | | |
| | | 1 46 | | |

 USCGS. gives:-
 $\phi = 16^{\circ} 5' S.$
 $\lambda = 178^{\circ} E.$

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM October 21, 1943 to October 23, 1943 No. 66

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------|--|---|------------|---|
| | | h m s | km. | |
| | | Ottawa | | |
| 447 Oct. 22 | eN eL F | 16 29.7 16 56 17 33 | | |
| | | Ottawa | | |
| 448 Oct. 23 | H PP SKS SKKS PS SS SSS eL F | 17 23 ca. 17 41.8 17 48 14 17 49 36 17 51.3 17 57 14 18 01 12 18 16 20 03 | 12,000 ca. | USCGS. gives:- $\phi = 25^\circ \text{ N.}$ $\lambda = 92^\circ 5 \text{ E.}$ |
| | | Victoria | | |
| | H P S SS L F | (17 25.3) (17 37 25) (17 47 30) (17 55) (18 03) (19 55) | 8865 | Clock correction uncertain. |
| | | Saskatoon | | |
| | e e e L F | 17 47 37 17 50.1 17 55.5 18 06 19 48 | | |
| | | Halifax | | |
| | e e L F | 17 52 08 18 01.0 18 11 18 45 | | |
| | | Seven Falls | | |
| | H PP SKS SKKS SS SSS L F | 17 23.3 17 41 54 17 48 05 17 49 16 17 56 49 18 01.4 18 09 20 06 | 12,000 ca. | |
| | | Shawinigan Falls | | |
| | e e e L F | 17 40.5 17 48.1 17 57.0 18 22 18 40 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM October 23, 1943 to October 31, 1943 No. 67

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|--------------------|---|------------------|----------|--|--|
| | | h m s | km. | | |
| 450 Oct. 24 | eZ eN LN F | Ottawa | | | |
| | | 13 52 08 | | | |
| | | 14 01.8 | | | |
| | e LF F | Seven Falls | | | |
| | | 14 01 57 | | | |
| | | 14 21 | | | |
| 451 Oct. 24 | e eL F | Ottawa | | | |
| | | 16 31 40 | | | |
| | | 16 39 28 | | | |
| | | 16 51 | | | |
| | e eL F | Victoria | | | |
| | | 16 17 10 | | | |
| | | 16 27 35 | | | |
| | | 16 44 | | | |
| | e eL F | Seven Falls | | | |
| | | 16 24.2 | | | |
| | | 16 33 59 | | | |
| | | 16 40.6 | | | |
| 452 Oct. 24 | eZ LN F | Ottawa | | | |
| | | 23 34 05 | | | |
| | | 0 02 | | | |
| | e LF F | Seven Falls | | | |
| | | 23 43.3 | | | |
| | | 0 00 | | | |
| 455 Oct. 26 | H P _n P ₂ S _n S ₂ F ₂ | Ottawa | 450 | Rockburst at Lake Shore Mines, Kirkland Lake, Ontario. | |
| | | 16 17.7 | | | |
| | | 16 18 44 | | | |
| | | 16 18 54 | | | |
| | | 16 19 31 | | | |
| | | 16 19 45 | | | |
| | e F e e F | Seven Falls | | | |
| | | 16 20 55 | | | |
| | | 16 22 | | | |
| | | Shawinigan Falls | | | |
| | | 16 20 58 | | | |
| | | 16 21 11 | | | |

W. W. Doysee.

EARTHQUAKE CORRELATION TABLE
 October, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|----|
| | | | | | | M. S. | W. A. | | |
| 422 | 1 | 18 02+0 3Lu | | | | 18 09+0 56L | | | |
| 423 | 1 | 18 54+0 1LL | | | | | | | |
| 424 | 2 | | | | | 5 45+0 06L | | | |
| 425 | 2 | | | | | 9 01+0 07L | | | |
| 426 | 2 | | | | | | | 17 32+0 02P | |
| 427 | 3 | 1 08+0 18L | | | | 1 05+0 35L | | | |
| 428 | 3 | | | | | 8 58+0 09L | | | |
| 429 | 3 | | | | | 20 08+0 56L | | | |
| 430 | 4 | | 10 53+0 55u | 11 06+0 49u | | 11 10+1 03L | | | |
| 431 | 6 | 17 45+0 0.3P* | | | | | | | |
| 432 | 7 | 8 03+0 01P* | | | | | | | |
| 433 | 8 | 22 45+0 0.5P* | | | | | | | |
| 434 | 9 | | | | | | | | |
| 435 | 13 | 4 51+0 49r | 4 55+0 49r | 4 55+0 24r | | 10 34+0 13L | 5 04+0 10L | 5 02+0 08L | |
| 436 | 13 | 5 56+0 0.3P* | | | | | | | |
| 437 | 13 | 10 53+0 03L | | | | | | | |
| 438 | 15 | 22 20+0 0.6P* | | | | | | | |
| 439 | 15 | 23 00+0 01v* | | | | | | | A |
| 440 | 16 | 10 07+0 24r | | | | | | | |
| 441 | 16 | 13 20+0 35u | | | | | | 10 12+0 04L | B |
| 442 | 16 | 15 23+0 10L | 15 08+0 10L | | | 13 29+0 27u | 13 20+0 02P | 13 20+0 10u | |
| 443 | 17 | 23 36+0 48L | 23 01+0 59u | 23 26+0 31L | | 15 24+0 07L | | | |
| 444 | 19 | 17 58+0 07L | | 17 57+0 07L | | 23 09+1 21u | | | |
| 445 | 20 | 4 28+0 10L | | 4 10+0 25L | | 4 30+0 08L | | | |
| 446 | 21 | 23 37+1 33u | 23 20+1 35u | 23 32+1 08u | | 23 33+2 13u | 0 04+0 11L | | C |
| 447 | 22 | 16 30+1 03u | 16 52+0 25L | 16 54+0 16L | | 16 52+0 39L | | | |
| 448 | 23 | 17 42+2 21U* | (17 37+2 18U | 17 48+2 00U | 17 52+0 53U | 17 42+2 24U | 18 10+0 28L | 17 40+1 00U | E |
| 449 | 23 | 17 53+0 02P* | | | | | | 17 53+0 03P | |
| 450 | 24 | 13 52+0 47u | 14 00+0 19L | | | 14 02+0 31u | | 13 52+0 02P | |
| 451 | 24 | 16 32+1 57u | 16 17+1 15u | | 17 12+0 19L | 16 24+2 19u | 17 04+0 16L | | |
| 452 | 24 | 23 34+0 42u | | 23 49+0 07L | | 23 43+0 36u | | | |
| 453 | 25 | 11 55+0 0.4P* | | | | | | | |
| 454 | 26 | 5 08+0 11L | 4 56+0 15L | 5 00+0 07L | | 5 11+0 13L | | | F |
| 455 | 26 | 16 19+0 03v* | | | | | 16 21+0 01v | 16 21+0 02v | |
| 456 | 27 | | | | | | | | |
| 457 | 29 | 17 56+0 06L | | | | 17 06+0 19L | | | |

SEISMOLOGICAL SERVICE OF CANADA



SEISMOLOGICAL BULLETIN
November
1943

°°°°

DOMINION OBSERVATORY
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83$ m.

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46$ m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'4''$ N. $\lambda = 70^{\circ}49'6''$ 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 EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N. $\lambda = 123^{\circ}24'56''$ W. $h = 197$ m.

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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, smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

S T A T I O N S (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

$\phi = 46^{\circ}33'1''$ N. $\lambda = 72^{\circ}45'8''$ W. $h = 60$ m. ca.

Time correction from recorded radio time signals

Foundation: solid granite of Canadian Shield

Instrument: Wood-Anderson NS component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15g.

SASKATOON

University of Saskatchewan

$\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.

Time correction from radio time signals

Foundation: clay and sand

Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

$\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.

Time correction from recorded radio time signals

Foundation: rock

Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|--------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | $\frac{5}{16}$ mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2400 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 cycles | | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM November 1, 1943 to November 3, 1943 No. 68

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|-------------|-----------|----------|--|
| | | h m s |  |  | km. |
| 459 Nov. 2 | | Ottawa | | |
| | e | 18 27 32 | | |
| | e | 18 37.0 | | |
| | e | 18 43.0 | | |
| | e | 18 54.0 | | |
| | eL | 19 00 | | |
| | F | 21 05 | | |
| | | Victoria | | |
| | e | 18 30 12 | | |
| | e | 18 31 15 | | |
| | e | 18 47.1 | | |
| | L | 19 08 | | |
| | F | 21 04 | | |
| | | Saskatoon | | |
| | e | 18 34.8 | | |
| | e | 18 46.7 | | |
| | L | 19 02 | | |
| | F | 21 00 | | |
| | | Halifax | | |
| | eN | 18 33.8 | | |
| | eE | 18 41.8 | | |
| L | 19 02 | | | |
| F | 20 02 | | | |
| | Seven Falls | | | |
| e | 18 27 49 | | | |
| e | 18 35.2 | | | |
| e | 18 43 11 | | | |
| L | 18 54 | | | |
| F | 21 47 | | | |
| | Ottawa | | 4860 | USCGS. gives:- $\phi = 62^\circ \text{ N.}$ $\lambda = 151^\circ \text{ W.}$ |
| H | 14 32.5 | | | |
| P | 14 40 35 | | | |
| PP | 14 42 12 | | | |
| PPPN | 14 42 48 | | | |
| S | 14 47 12 | | | |
| SS | 14 50 28 | | | |
| SSS | 14 51 12 | | | |
| eL | 14 53 | | | |
| F | 18 48 | | | |
| | Victoria | | 2335 | |
| H | 14 32.2 | | | |
| iP | 14 36 51 | | | |
| S | 14 40 43 | | | |
| L | 14 43 | | | |
| F | 18 55 | | | |
| | Saskatoon | | 2690 | |
| H | 14 32.7 | | | |
| P | 14 37 57 | | | |
| S | 14 42 18 | | | |
| L | 14 45 | | | |
| F | 18 32 | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM November 3, 1943 to November 6, 1943 No. 69

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|------------------------------|-------------|------------------|----------|---------|
| | | h m s | km. | |
| 461 Nov. 3 (Cont'd) | | Halifax | | |
| | H | 14 32.4 | 5610 | |
| | P | 14 41 18 | | |
| | S | 14 48 37 | | |
| | SS | 14 52 34 | | |
| | L | 14 56 | | |
| | F | 17 05 | | |
| | | Seven Falls | | |
| | H | 14 32.5 | 4935 | |
| | P | 14 40 42 | | |
| | S | 14 47 23 | | |
| | SS | 14 50.5 | | |
| | L | 14 54 | | |
| | F | 19 07 | | |
| | | Shawinigan Falls | | |
| H | 14 32.5 | 4940 | | |
| P | 14 40 39 | | | |
| PP | 14 42 23 | | | |
| S | 14 47 20 | | | |
| SS | 14 50.6 | | | |
| L | 14 54 | | | |
| F | 16 19 | | | |
| | Victoria | | | |
| e | 6 24 05 | | | |
| L | 6 32 | | | |
| F | 7 00 | | | |
| | Saskatoon | | | |
| e | 6 25.5 | | | |
| L | 6 35 | | | |
| F | 6 53 | | | |
| | Seven Falls | | | |
| e | 6 29 13 | | | |
| L | 6 37 | | | |
| F | 7 35 | | | |
| | Victoria | | | |
| e | 7 08 | | | |
| L | 8 00 | | | |
| F | 9 00 | | | |
| | Ottawa | | | |
| eZ | 0 08 38 | | | |
| eZ | 0 08 56 | | | |
| F | 0 09.7 | | | |
| | Seven Falls | | | |
| H | 0 06.6 | 70 | | |
| P1 | 0 06 51 | | | |
| S1 | 0 06 59 | | | |
| F | 0 09 | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM November 6, 1943 to November 6, 1943 No. 70

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|----------------|------------------|-----------|---|
| | | h m s | km. | |
| | | Shawinigan Falls | | |
| 466 | e | 0 07 42 | | |
| Nov. 6 | F | 0 09 | | |
| (Cont'd) | | Ottawa | | |
| 468 | H | 8 31.3 | 16,000ca. | USCGS. gives:- $\phi = 5^{\circ}5' S.$ $\lambda = 134^{\circ} E.$ |
| Nov. 6 | P ₂ | 8 50 49 | | |
| | e | 8 51 04 | | |
| | PP | 8 53 48 | | |
| | SKP | 8 54 14 | | |
| | PPP | 8 57 05 | | |
| | PS | 9 04 00 | | |
| | PPS | 9 07 02 | | |
| | SS | 9 12.1 | | |
| | SSS | 9 18.1 | | |
| | eL | 9 43 | | |
| | F | 12 46 | | |
| | | Victoria | | |
| | H | 8 31.4 | 12,450ca. | |
| | P | 8 46.1 | | |
| | PP | 8 50 37 | | |
| | SKKS | 8 57 37 | | |
| | e | 9 14 39 | | |
| | L | 9 20 | | |
| | F | 12 41 | | |
| | | Saskatoon | | |
| | H | 8 31.5 | 12,900ca. | |
| | PP | 8 51 14 | | |
| | SKS | 8 57 00 | | |
| | S | 8 59 00 | | |
| | PS | 9 01 03 | | |
| | SS | 9 07.2 | | |
| | SSS | 9 11.5 | | |
| | eL | 9 24 | | |
| | F | 12 56 | | |
| | | Seven Falls | | |
| | H | 8 31.4 | 15,900ca. | |
| | P' | 8 50.9 | | |
| | e | 8 51 22 | | |
| | PP | 8 53 50 | | |
| | SKP | 8 54.4 | | |
| | e | 9 04 24 | | |
| | PPS | 9 06 37 | | |
| | SS | 9 11.5 | | |
| | L | 9 32 | | |
| | F | 13 37 | | |
| | | Shawinigan Falls | | |
| | H | 8 31.5 | 15,300ca. | |
| | P' | 8 50 55 | | |
| | PP | 8 53 29 | | |
| | e | 9 03.9 | | |
| | SS | 9 11.3 | | |
| | L | 9 40 | | |
| | F | 11 06 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM November 6, 1943 to November 13, 1943 No. 71

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|------------------------|--|-------------|---------|
| 471 Nov. 8 | H P SN L F | h m s Ottawa 6 59.6 7 07 27 7 13.9 7 19 8 03 | km. 4680 | |
| | e e L F | Saskatoon 7 13.5 7 16.5 7 20 7 48 | | |
| 472 Nov. 9 | H PZ S L F | Ottawa 11 46.4 11 58 42 12 09 00 12 28 12 47 | 9150 | |
| | e S L F | Seven Falls 11 59.1 12 09 03 12 28 12 42 | | |
| | H P S F | Shawinigan Falls 11 46.7 11 58 52 12 09 02 12 11 | 8980 | |
| 477 Nov. 13 | eZ eL F | Ottawa 19 02 48 19 38 20 17 | | |
| | e L F | Victoria (19 06) (19 25) (20 10) | | |
| | e L F | Saskatoon 19 10.6 19 31 20 03 | | |
| | e e L F | Seven Falls 19 14.6 19 21 41 19 42 20 26 | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM November 13, 1943 to November 24, 1943 No. 72

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|--------------------------------|-----------|----------|---------|
| | | h m s | km. | |
| 482 Nov. 16 | H P S SSN eL F | Ottawa | 6650 | |
| | | 11 38.1 | | |
| | | 11 48 06 | | |
| | | 11 56 24 | | |
| | | 12 00.7 | | |
| | H P S IL F | 12 07 | | |
| | | 12 31 | | |
| | | Victoria | 8550 | |
| | | 11 38.0 | | |
| | | 11 49 50 | | |
| 11 59 41 | | | | |
| 12 15 | | | | |
| e L F | 12 57 | | | |
| | Saskatoon | | | |
| | 11 58.51 | | | |
| | 12 08.4 | | | |
| | 12 16 | | | |
| e L F | 12 43 | | | |
| | Seven Falls | | | |
| | 11 56 44 | | | |
| | 12 04 | | | |
| | 12 24 | | | |
| 489 Nov. 21 | eZ L F | Ottawa | | |
| | | 19 48 41 | | |
| | | 20 05 | | |
| 492 Nov. 24 | eN eE eN eE L F | Ottawa | | |
| | | 13 36 | | |
| | | 13 43 | | |
| | | 13 49.7 | | |
| | | 13 53 | | |
| | e L F | 13 56.2 | | |
| | | 14 08 | | |
| | | 15 08 | | |
| | | Victoria | | |
| | | 13 40.6 | | |
| | e L F | 13 46 36 | | |
| | | 14 05 | | |
| | | 15 06 | | |
| | e L F | Saskatoon | | |
| | | 13 41 22 | | |
| 13 47.0 | | | | |
| 13 59 | | | | |
| 14 37 | | | | |
| e L F | Seven Falls | | | |
| | 13 45.3 | | | |
| | 13 59.0 | | | |
| | 14 05 | | | |
| | 15 46 | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM November 24, 1943 to November 26, 1943 No. 73

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------|-------|---------------------------|----------|---------------------------|
| | | h m s | km. | |
| | | Saskatoon | | |
| 493 | e | 20 45 01 | | Local? |
| Nov. | e | 20 45 04 | | |
| 26 | F | 20 46 | | |
| | | Ottawa | | |
| 496 | H | 22 20.6 | 8340 | USCGS. gives:- |
| Nov. | P | 22 32 14 | | $\phi = 41^{\circ}$ N. |
| 26 | PPP | 22 36 45 | | $\lambda = 36^{\circ}$ E. |
| | iS | 22 41 56 | | |
| | SS | 22 47.0 | | |
| | SSS | 22 50.0 | | |
| | eL | 22 55 | | |
| | F | 2 26 | | |
| | | Hamilton | | |
| | | Courtesy of Mr. E. Mantle | | |
| | H | 22 20.9 | 8580 | |
| | P | 22 32 48 | | |
| | PP | 22 35 44 | | |
| | S | 22 42 41 | | |
| | SS | 22 47 34 | | |
| | SSS | 22 50.8 | | |
| | eL | 22 58 | | |
| | F | 1 50 | | |
| | | Victoria | | |
| | H | 22 20.8 | 9920 | |
| | P | 22 33 42 | | |
| | S | 22 44 33 | | |
| | L | 23 06 | | |
| | F | 2 50 | | |
| | | Saskatoon | | |
| | H | 22 20.8 | 9100 | |
| | P | 22 33 03 | | |
| | S | 22 43 18 | | |
| | SS | 22 49 37 | | |
| | L | 23 00 | | |
| | F | 1 58 | | |
| | | Halifax | | |
| | H | 22 20.8 | 7500 | |
| | P | 22 31 41 | | |
| | S | 22 40 43 | | |
| | SS | 22 45.5 | | |
| | SSS | 22 48.5 | | |
| | L | 22 53 | | |
| | F | 0 16 | | |
| | | Seven Falls | | |
| | H | 22 20.5 | 7940 | |
| | P | 22 31 49 | | |
| | S | 22 41 11 | | |
| | SSS | 22 49.3 | | |
| | eL | 22 55 | | |
| | F | 2 58 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM November 26, 1943 to November 30, 1943 No. 74

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|-------------------------------|-------|------------------|----------|---------|
| | | h m s | km. | |
| | | Shawinigan Falls | | |
| 496 Nov. 26 (Cont'd) | H | 22 20.5 | 8160 | |
| | P | 22 31 59 | | |
| | S | 22 41 33 | | |
| | SS | 22 46 13 | | |
| | SSS | 22 49.5 | | |
| | eL | 22 57 | | |
| | F | 0 18 | | |
| | | Victoria | | |
| 497 Nov. 28 | e | 6 46 07 | | |
| | L | 7 06 | | |
| | F | 7 43 | | |
| | | Ottawa | | |
| 498 Nov. 28 | eZ | 17 22 29 | | |
| | L | 17 38 | | |
| | F | 18 55 | | |
| | | Seven Falls | | |
| | e | 17 31.8 | | |
| | L | 17 39 | | |
| | F | 19 10 | | |
| | | Victoria | | |
| 499 Nov. 29 | e | 0 42 16 | | Local. |
| | L? | 0 42 26 | | |
| | F | 0 45 | | |
| | | Ottawa | | |
| 501 Nov. 29 | H | 19 37.2 | 8050 | |
| | P | 19 48 36 | | |
| | S | 19 58 04 | | |
| | SSN | 20 02 40 | | |
| | eL | 20 12 | | |
| | F | 20 50 | | |
| | | Seven Falls | | |
| | e | 19 58 23 | | |
| | L | 20 09 | | |
| | F | 21 13 | | |
| | | Seven Falls | | |
| 502 Nov. 29 | e | 21 39 59 | | |
| | L | 21 58 | | |
| | F | 23 18 | | |

W. W. Dwyer

EARTHQUAKE CORRELATION TABLE
 Month November, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | Shawinigan | ** |
|-----|------|--------------|-------------|-------------|-------------|-------------|-------------|------------|----|
| | | | | | | M. S. | W. A. | | |
| 458 | 2 | 18 09+0 05L | 18 01+0 04L | | | 18 12+0 03L | | | |
| 459 | 2 | 18 28+2 37U | 18 30+2 34U | 18 35+2 25U | 18 34+1 28U | 18 28+3 19U | 19 06+0 24L | | |
| 460 | 2 | | | | | 23 19+0 06L | | | |
| 461 | 3 | 14 41+4 07R | 14 37+4 18R | 14 38+3 54R | 14 41+2 24U | 14 41+4 26R | 14 41+1 57R | A | |
| 462 | 4 | | | | | 1 25+0 05L | | | |
| 463 | 4 | 6 36*0 51L | 6 24+0 36u | 6 26+0 27u | | 6 29+1 06u | | | |
| 464 | 4 | 7 42+0 40L | 7 08+1 52u | 7 56+0 19L | | 7 41+1 32L | | | |
| 465 | 5 | 10 40+0 02P* | | | | | | | |
| 466 | 6 | 0 09+0 01V* | | | | | | | |
| 467 | 6 | | 6 57+0 25L | | | | 0 07+0 02d | B | |
| 468 | 6 | 8 51+3 55U | 8 46+3 55U | 8 51+4 05U | | | 8 51+2 21U | C | |
| 469 | 6 | | | | | | | | |
| 470 | 7 | 9 31+0 18L | | | | 21 04+0 06L | | | |
| 471 | 8 | 7 07+0 56R | 7 21+0 39L | 7 13+0 35R | 7 22+0 11L | 9 23+0 33L | 7 21+0 08L | E | |
| 472 | 8 | | | | | 7 13+0 54R | | | |
| 473 | 9 | | | | | 23 29+0 32L | | | |
| 474 | 9 | 11 59+0 48u | | | | 0 28+0 06L | | | |
| 475 | 13 | | 11 30+0 08L | | | 12 09+0 33u | 11 59+0 13P | F | |
| 476 | 13 | 17 38+0 10L | 17 32+0 23L | 17 40+0 12L | | 17 32+0 34L | | | |
| 477 | 13 | 19 03+1 14u | 19 06+1 04u | 19 11+0 52u | | 19 15+1 11u | | | |
| 478 | 13 | | | | | 20 37+0 33L | | | |
| 479 | 14 | | | | | 4 44+0 05L | | | |
| 480 | 15 | 0 06+0 03P* | | | | | | | |
| 481 | 16 | | | | | 6 03+0 15L | | | |
| 482 | 16 | 11 48+0 43u | 11 50+1 07u | 11 59+0 44u | | 11 57+0 27u | | | |
| 483 | 17 | | 8 30+0 08L | | | | | | |
| 484 | 18 | | 19 20+0 21L | | | | | | |
| 485 | 20 | | | | | 19 40+0 20L | | | |
| 486 | 20 | | | | | 0 43+0 19L | | | |
| 487 | 20 | | | | | 8 08+0 20L | | | |
| 488 | 20 | 19 28+0 10L | 19 25+0 19L | 19 27+0 06L | | 10 44+0 06L | | | |
| 489 | 21 | 19 49+0 29u | | 20 00+0 13L | | 19 27+0 21L | | | |
| 490 | 23 | | | | | 20 04+0 18L | 19 49+0 02P | | |
| | | | | | | 22 45+0 22L | | | |

EARTHQUAKE CORRELATION TABLE

Month November, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | | Shawinigan | ** |
|-----|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|----|
| | | | | | | M. S. | W. A. | | | |
| 491 | 24 | .. | 7 45+0 17L | .. | .. | 7 59+0 51L | .. | .. | .. | |
| 492 | 24 | 13 36+1 32u | 13 41+1 25u | 13 41+0 56u | .. | 13 45+2 01u | .. | .. | .. | |
| 493 | 26 | .. | .. | 20 45+0 01d | .. | .. | .. | .. | .. | |
| 494 | 26 | 21 45+0 01P | .. | .. | .. | .. | .. | 21 45+0 01P | .. | |
| 495 | 26 | 21 48+0 03P | 21 55+0 05L | .. | .. | 22 03+0 28L | 21 48+0 02P | 21 48+0 06P | .. | |
| 496 | 26 | 22 32+3 54U | 22 34+4 16U | 22 33+3 25U | 22 32+1 44U | 22 32+4 26U | 22 32+1 55U | 22 32+1 46U | J | |
| 497 | 28 | .. | 6 46+0 57u | .. | .. | 7 12+1 11L | .. | .. | .. | |
| 498 | 28 | 17 22+1 33u | 17 31+1 29L | 17 34+0 57L | .. | 17 32+1 38u | .. | 17 22+0 02P | .. | |
| 499 | 29 | .. | 0 42+0 03d | .. | .. | .. | .. | .. | .. | |
| 500 | 29 | .. | .. | .. | .. | 19 29+0 05L | .. | .. | .. | |
| 501 | 29 | 19 49+1 01u | 20 01+1 01L | .. | .. | 19 58+1 15u | .. | 19 49+0 04P | K | |
| 502 | 29 | 21 48+0 52L | 21 37+1 32L | 21 45+0 38L | .. | 21 40+1 38u | .. | .. | .. | |

CORRELATION OF EARTHQUAKES

November, 1943

N O T E S

| | | | |
|---|------------------|-----------------------|---|
| A | : Ottawa | $\Delta = 4,860$ km. | H = 14 ^h 32 ^m .5 U.T. |
| | Victoria | $\Delta = 2,335$ km. | H = 14 32.2 U.T. |
| | Saskatoon | $\Delta = 2,690$ km. | H = 14 32.7 U.T. |
| | Halifax | $\Delta = 5,610$ km. | H = 14 32.4 U.T. |
| | Seven Falls | $\Delta = 4,935$ km. | H = 14 32.5 U.T. |
| | Shawinigan Falls | $\Delta = 4,940$ km. | H = 14 32.5 U.T. |
| B | : Seven Falls | $\Delta = 70$ km. | H = 0 ^h 06 ^m .6 U.T. |
| C | : Ottawa | $\Delta = 16,000$ km. | H = 8 ^h 31 ^m .3 U.T. |
| | Victoria | $\Delta = 12,450$ km. | H = 8 31.4 U.T. |
| | Saskatoon | $\Delta = 12,900$ km. | H = 8 31.5 U.T. |
| | Seven Falls | $\Delta = 15,900$ km. | H = 8 31.4 U.T. |
| | Shawinigan Falls | $\Delta = 15,300$ km. | H = 8 31.5 U.T. |
| E | : Ottawa | $\Delta = 4,680$ km. | H = 6 ^h 59 ^m .6 U.T. |
| F | : Ottawa | $\Delta = 9,150$ km. | H = 11 ^h 46 ^m .4 U.T. |
| | Shawinigan Falls | $\Delta = 8,980$ km. | H = 11 46.7 U.T. |
| G | : Ottawa | $\Delta = 6,650$ km. | H = 11 ^h 38 ^m .1 U.T. |
| | Victoria | $\Delta = 8,550$ km. | H = 11 38.0 U.T. |
| J | : Ottawa | $\Delta = 8,340$ km. | H = 22 ^h 20 ^m .6 U.T. |
| | Hamilton | $\Delta = 8,580$ km. | H = 22 20.9 U.T. |
| | Victoria | $\Delta = 9,920$ km. | H = 22 20.8 U.T. |
| | Saskatoon | $\Delta = 9,100$ km. | H = 22 20.8 U.T. |
| | Halifax | $\Delta = 7,500$ km. | H = 22 20.8 U.T. |
| | Seven Falls | $\Delta = 7,940$ km. | H = 22 20.5 U.T. |
| | Shawinigan Falls | $\Delta = 8,160$ km. | H = 22 20.5 U.T. |
| K | : Ottawa | $\Delta = 8,050$ km. | H = 19 ^h 37 ^m .2 U.T. |

Dominion Observatory,
 Ottawa, Canada,
 January 7, 1944.

SEISMOLOGICAL BULLETINS RECEIVED

November and December, 1943

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

| STATION | BULLETINS | RECEIVED |
|--|-----------------------------|------------|
| Perth | July and August, 1943 | November 5 |
| India Stations | January to March, 1941 | " 10 |
| Brisbane | September, 1943 | " 15 |
| Santa Clara | October, 1943 | " 18 |
| Ksara | January to March, 1943 | " 27 |
| Bogota | September, 1943 | " 29 |
| United States Coast and Geodetic Survey | December, 1941 | " 29 |
| New Zealand Stations | September, 1943 | December 6 |
| Apia | July to September, 1943 | " 9 |
| Santa Clara | November, 1943 | " 13 |
| Brisbane | October, 1943 | " 14 |
| Ksara | July to September, 1943 | " 16 |
| New Zealand Stations | October, 1943 | " 18 |
| Bogota | October, 1943 | " 20 |
| Sydney | March, 1943 | " 22 |
| Perth | September and October, 1943 | " 29 |

DOMINION OBSERVATORY,
OTTAWA - CANADA.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

December

1943



○○○○

DOMINION OBSERVATORY
OTTAWA - CANADA

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

S T A T I O N S

OTTAWA

$\phi = 45^{\circ}23'38''$ N. $\lambda = 75^{\circ}42'57''$ W. $h = 83$ m.

Time correction within 0.10s.

Foundation: boulder clay over limestone

Instruments: Milne-Shaw NS and EW 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, respectively, photographic registration, BS a paper speed of 60 mm. per min., BL a paper speed of 30 mm. per min., mass 235 lbs.

HALIFAX

Dalhousie University

$\phi = 44^{\circ}38'$ N. $\lambda = 63^{\circ}36'$ W. $h = 46$ m.

Time correction from recorded radio time signals

Foundation: Carbonaceous slate

Instruments: Bosch NS and EW components, designated HN and HE, respectively, each with photographic registration, magnetic damping, paper speed of 15 mm. per min., mass 200g.

SEVEN FALLS

Quebec Power Company

$\phi = 47^{\circ}07'.4$ N. $\lambda = 70^{\circ}49'.6$ 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 EW component, designated SF and SM, respectively, each with photographic registration, magnetic damping, SF a paper speed of 60 mm. per min. and mass 15g., SM a paper speed of 8 mm. per min. and mass 1 lb.

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48^{\circ}31'14''$ N. $\lambda = 123^{\circ}24'56''$ W. $h = 197$ m.

Time correction from recorded radio time signals

Foundation: rock

Instruments: Milne-Shaw NS and EW 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, smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 80 kg.

S T A T I O N S (Cont'd)

SHAWINIGAN FALLS

Shawinigan Water and Power Company

$\phi = 46^{\circ}33'1''$ N. $\lambda = 72^{\circ}45'8''$ W. $h = 60$ m. ca.

Time correction from recorded radio time signals

Foundation: solid granite of Canadian Shield

Instrument: Wood-Anderson NS component, designated SA, photographic registration, magnetic damping, paper speed of 60 mm. per min., mass 15g.

SASKATOON

University of Saskatchewan

$\phi = 52^{\circ}08'$ N. $\lambda = 106^{\circ}38'$ W. $h = 515$ m.

Time correction from radio time signals

Foundation: clay and sand

Instrument: Milne-Shaw NE component, designated SN, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

$\phi = 48^{\circ}09'$ N. $\lambda = 80^{\circ}03'$ W. $h = 320$ m.

Time correction from recorded radio time signals

Foundation: rock

Instrument: Converted Heiland Field Seismometer, vertical component, designated KL, photographic registration, paper speed of 30 mm. per min.

DETERMINED CONSTANTS

| INSTRUMENT | T_0 | V | ϵ | DISPLACEMENT FOR 1" ARC TILT | DISPLACEMENT FOR 10^{-6} g |
|--------------------|-------|-----------------|--------------|------------------------------------|------------------------------------|
| 17 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| 23 (Ottawa) | 12.0 | 300 | 20:1 | 50 mm. | |
| BS (Ottawa) | 1.0 | | | | 5 mm. |
| BL (Ottawa) | 1.0 | | | | 16 mm. |
| HN (Halifax) | 5.0 | 125 | 20:1 | | |
| HE (Halifax) | 5.0 | 125 | 20:1 | | |
| SA (Shawinigan) | 1.0 | 2400 | | | |
| 20 (Victoria) | 12.0 | 300 | 20:1 | | |
| 21 (Victoria) | 12.0 | 300 | 20:1 | | |
| WV (Victoria) | 4.0 | 120 | 15:1 | | |
| SF (Seven Falls) | 1.0 | 2500 | | | |
| SM (Seven Falls) | 12.0 | 300 | 20:1 | 50 mm. | |
| SN (Saskatoon) | 10.0 | 150 | 20:1 | 18 mm. | |
| KL (Kirkland Lake) | 1/30 | 2×10^4 | at 30 cycles | | |

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM December 1, 1943 to December 1, 1943 No. 75

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | | |
|--------------------|-------|-------------|----------|---|----------|-------|
| | | h m s | km. | | | |
| | | Ottawa | | | | |
| 503 Dec. 1 | H | 6 04.6 | 14,400 | | | |
| | P'Z | 6 23 47 | | | | |
| | PP | 6 25 42 | | | | |
| | SKKS | 6 32.5 | | | | |
| | PS | 6 36.4 | | | | |
| | PPS | 6 38.0 | | | | |
| | SS | 6 43.4 | | | | |
| | SSS | 6 48.7 | | | | |
| | eL | 7 02 | | | | |
| | F | 7 45 | | | | |
| | | Victoria | | | | |
| | H | 6 04.7 | 10,700 | | | |
| | P | 6 18 08 | | | | |
| | PP | 6 22 00 | | | | |
| | SKS | 6 28 33 | | | | |
| | eL | 6 47 | | | | |
| | F | 7 51 | | | | |
| | | Saskatoon | | | | |
| | e | 6 30 19 | | | | |
| | L | 6 49 | | | | |
| | F | 7 32 | | | | |
| | | Seven Falls | | | | |
| | H | 6 04.7 | 14,400 | | | |
| | P' | 6 23 53 | | | | |
| | e | 6 26.5 | | | | |
| | PPS | 6 37 30 | | | | |
| | SS | 6 43.5 | | | | |
| | L | 7 04 | | | | |
| | F | 8 32 | | | | |
| | | Ottawa | | | | |
| 504 Dec. 1 | H | 10 35.0 | 7,065 | USCGS. gives:- φ = 20°2 S. λ = 68°1 W. Depth 100 km, ca. | | |
| | P | 10 45 23 | | | | |
| | S | 10 54 04 | | | | |
| | i | 10 54 50 | | | | |
| | SS | 10 58.5 | | | | |
| | e | 11 01 30 | | | | |
| | eL | 11 04 | | | | |
| | F | 11 57 | | | | |
| | | | | | Victoria | |
| | | H | | | 10 35.0 | 9,020 |
| P | | 10 47 12 | | | | |
| S | | 10 57 24 | | | | |
| L | | 11 10 | | | | |
| F | | 12 57 | | | | |
| | | Saskatoon | | | | |
| | H | 10 35.5 | 8,155 | | | |
| | P | 10 47 02 | | | | |
| | S | 10 56 36 | | | | |
| | SS | 11 02 | | | | |
| | SSS | 11 03.8 | | | | |
| | L | 11 11 | | | | |
| | F | 11 58 | | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM December 1, 1943 to December 3, 1943 No. 76

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|------------------------------|-------|------------------|----------|---------|
| | | h m s | km. | |
| 504 Dec. 1 (Cont'd) | | Halifax | | |
| | e | 10 53 51 | | |
| | L | 11 02 | | |
| | F | 11 08 | | |
| | | Seven Falls | | |
| | H | 10 35.2 | 7,020 | |
| | P | 10 45 38 | | |
| | S | 10 54 17 | | |
| | F | 12 24 | | |
| | | Shawinigan Falls | | |
| | H | 10 35.0 | 7,160 | |
| | P | 10 45 32 | | |
| | S | 10 54 18 | | |
| | SSS | 11 02 | | |
| | F | 11 09 | | |
| 505 Dec. 2 | | Ottawa | | |
| | eZ | 2 12 48 | | |
| | eN | 2 30.0 | | |
| | eL | 2 45 | | |
| | F | 3 09 | | |
| | | Victoria | | |
| | e | 2 17 52 | | |
| | L | 2 37 | | |
| | F | 3 13 | | |
| | | Ottawa | | |
| 507 Dec. 2 | | Ottawa | | |
| | eN | 5 36.8 | | |
| | eL | 6 00 | | |
| | F | 6 51 | | |
| | | Victoria | | |
| | eE | 5 25.2 | | |
| | e | 5 32.7 | | |
| | L | 6 00 | | |
| | F | 6 41 | | |
| | | Seven Falls | | |
| | e | 5 43.4 | | |
| | L | 5 59 | | |
| F | 7 01 | | | |
| 508 Dec. 3 | | Ottawa | | |
| | eZ | 4 57 08 | | |
| | e | 5 10.5 | | |
| | eL | 5 31 | | |
| | F | 6 55 | | |
| | | Victoria | | |
| | eE | 5 02 11 | | |
| | L | 5 22 | | |
| | F | 6 10 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM December 3, 1943 to December 8, 1943 No. 77

| NO. AND DATE | PHASE | TIME | DISTANCE km. | REMARKS | | | |
|------------------------------|--|---------------------------|-----------------|---------|----------|-----|--|
| | | h m s | | | | | |
| 508 Dec. 3 (Cont'd) | e L F | Saskatoon | 9,160 | | | | |
| | | 5 12.5 | | | | | |
| | | 5 22 | | | | | |
| | e e L F | Seven Falls | | | 6 00 | | |
| | | 5 12.5 | | | | | |
| | | 5 16.5 | | | | | |
| | | 5 33 | | | | | |
| | 509 Dec. 3 | H PZ SN L F | | | Ottawa | 265 | |
| | | | | | 6 53.0 | | |
| | | | | | 7 05 22 | | |
| 7 15 40 | | | | | | | |
| 7 36 | | | | | | | |
| 511 Dec. 6 | H P _n P ₁ S _n S ₂ F | Ottawa | | | | | |
| | | 7 19.7 | | | | | |
| | | 7 20 19 | | | | | |
| | | 7 20 24 | | | | | |
| | | 7 20 49 | | | | | |
| | | 7 20 53 | | | | | |
| | e F | Shawinigan Falls | | | 7 21.5 | | |
| | | 7 20 38 | | | | | |
| | | 7 21 | | | | | |
| | | | | | | | |
| 512 Dec. 7 | eZ L F | Ottawa | | | | | |
| | | 1 14 14 | | | | | |
| | | 1 22 | | | | | |
| | e L F | Seven Falls | | | 1 36 | | |
| | | 1 15.3 | | | | | |
| | | 1 23 | | | | | |
| | | 1 43 | | | | | |
| | 513 Dec. 8 | eZ eN eE eL F | | | Ottawa | | |
| | | | | | 19 45 38 | | |
| | | | | | 19 51.2 | | |
| 19 55 07 | | | | | | | |
| 19 57 | | | | | | | |
| 20 37 | | | | | | | |
| e e eL F | | Seven Falls | 19 47.7 | | | | |
| | | 19 53.0 | | | | | |
| | | 19 58 | | | | | |
| | | 20 48 | | | | | |

SEISMOLOGICAL SERVICE OF CANADA
 DOMINION OBSERVATORY, OTTAWA

FROM December 8, 1943 to December 22, 1943 No. 78

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS |
|--------------------|----------------|-------------|----------|---|
| | | h m s | km. | |
| | | Ottawa | | |
| 514 Dec. 9 | eZ | 3 29 32 | | |
| | L | 3 50 | | |
| | F | 4 04 | | |
| | | Ottawa | | |
| 517 Dec. 21 | H | 13 46.3 | 3,620 | USCGS. gives:- $\phi = 13^{\circ} \text{ N.}$ $\lambda = 70.5 \text{ W.}$ |
| | P | 13 52 54 | | |
| | S _N | 13 58 18 | | |
| | eL | 14 03 | | |
| | F | 14 52 | | |
| | | Saskatoon | | |
| | e | 14 02 04 | | |
| | e | 14 05 46 | | |
| | L | 14 09 | | |
| | F | 14 39 | | |
| | | Seven Falls | | |
| | H | 13 46.5 | 3,650 | |
| | P | 13 53 10 | | |
| | S | 13 58 35 | | |
| | SS | 14 00.8 | | |
| | L | 14 03 | | |
| | F | 15 00 | | |
| | | Ottawa | | |
| 518 Dec. 22 | eZ | 7 10 21 | | |
| | eN | 7 17 12 | | |
| | eN | 7 27.6 | | |
| | F | 7 32 | | |
| | | Victoria | | |
| | e | 7 21 00 | | |
| | L | 7 34 | | |
| | F | 7 47 | | |
| | | Ottawa | | |
| 519 Dec. 22 | eZ | 12 59 41 | | |
| | eL | 13 05 | | |
| | F | 14 00 | | |
| | | Victoria | | |
| | e | 13 10 38 | | |
| | L | 13 22 | | |
| | F | 14 20 | | |
| | | Saskatoon | | |
| | e | 13 08 58 | | |
| | e | 13 11 42 | | |
| | L | 13 15 | | |
| | F | 14 05 | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM December 22, 1943 to December 23, 1943 No. 79

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | | |
|-------------------|------------------|-------------|----------|---|----------|-------|
| | | h m s | km. | | | |
| | | Ottawa | | | | |
| 520 Dec. 23 | H | 15 56.0 | 3,610 | USCGS. gives:- $\phi = 13^{\circ}3' N.$ $\lambda = 70^{\circ}4' W.$ | | |
| | P | 16 02 37 | | | | |
| | S | 16 08 00 | | | | |
| | SS | 16 09 50 | | | | |
| | L | 16 12 | | | | |
| | F | 17 17 | | | | |
| | | Victoria | | | | |
| | e | 16 06.0 | | | | |
| | S | 16 13 28 | | | | |
| | L | 16 23 | | | | |
| F | 17 15 | | | | | |
| | Saskatoon | | | | | |
| | e | 16 11 42 | | | | |
| | L | 16 17 | | | | |
| | F | 17 04 | | | | |
| | | Halifax | | | | |
| | H | 15 56.1 | 3,600 | | | |
| | PN | 16 02 38 | | | | |
| | SE | 16 08.0 | | | | |
| | L | 16 13 | | | | |
| | F | 16 31 | | | | |
| | | Seven Falls | | | | |
| | H | 15 56.1 | 3,740 | | | |
| | P | 16 02 52 | | | | |
| | S | 16 08 23 | | | | |
| | L | 16 12 | | | | |
| | F | 17 17 | | | | |
| | | Ottawa | | | | |
| 521 Dec. 23 | H | 19 00.1 | 13,500 | USCGS. gives:- $\phi = 6^{\circ} S,$ $\lambda = 152^{\circ} E.$ | | |
| | P ^{1/2} | 19 19 03 | | | | |
| | PP | 19 20 36 | | | | |
| | SKS | 19 26.0 | | | | |
| | SKKS | 19 27.6 | | | | |
| | PS _E | 19 30 28 | | | | |
| | SS | 19 37 14 | | | | |
| | SSS | 19 41 38 | | | | |
| | eL | 20 00 | | | | |
| | F | 22 26 | | | | |
| | | Victoria | | | | |
| | | H | | | 19 00.4 | 9,740 |
| | | P | | | 19 13 12 | |
| | | PP | | | 19 16.6 | |
| | | S | | | 19 23 55 | |
| | SS | 19 28.6 | | | | |
| | L | 19 37 | | | | |
| | F | 23 30 | | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM December 23, 1943 to December 24, 1943 No. 80

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|-------------------------------|-------|------------------|----------|---------|--|
| | | h m s | km. | | |
| | | Saskatoon | | | |
| 521 Dec. 23 (Cont'd) | H | 19 00.0 | 11,400 | | |
| | PP | 19 18 07 | | | |
| | SKS | 19 24 27 | | | |
| | PS | 19 27.0 | | | |
| | SS | 19 32 33 | | | |
| | e | 19 39 | | | |
| | F | 22 23 | | | |
| | | Seven Falls | | | |
| | H | 19 00.2 | 13,800 | | |
| | P' | 19 19 11 | | | |
| | PP | 19 20 49 | | | |
| | SKKS | 19 27.8 | | | |
| | S | 19 28.6 | | | |
| | PS | 19 30 35 | | | |
| | SS | 19 37 18 | | | |
| | L | 20 00 | | | |
| | F | 23 38 | | | |
| | | Shawinigan Falls | | | |
| | H | 19 00.1 | 13,800 | | |
| | P' | 19 19 07 | | | |
| | PP | 19 20.9 | | | |
| | SS | 19 37.4 | | | |
| | eL | 20 00 | | | |
| | F | 21 10 | | | |
| | | Ottawa | | | |
| 523 Dec. 24 | eZ | 1 06 48 | | | |
| | e | 1 12.0 | | | |
| | eL | 1 17 | | | |
| | F | 1 49 | | | |
| | | Saskatoon | | | |
| | e | 1 16.0 | | | |
| | L | 1 26 | | | |
| F | 1 43 | | | | |
| | | Seven Falls | | | |
| | e | 1 07 02 | | | |
| | e | 1 12.3 | | | |
| | L | 1 16 | | | |
| | F | 2 03 | | | |
| | | Ottawa | | | |
| 524 Dec. 24 | eZ | 2 06 52 | | | |
| | eE | 2 16 | | | |
| | eE | 2 26 | | | |
| | L | 2 41 | | | |
| | F | 4 08 | | | |
| | | Victoria | | | |
| | eE | (2 04) | | | |
| | e | 2 12 | | | |
| | L | 2 29 | | | |
| | F | 3 56 | | | |

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM December 24, 1943 to December 31, 1943 No. 81

| NO. AND DATE | PHASE | TIME | DISTANCE | REMARKS | |
|-------------------------------|-----------------------|-------------|----------|---------|-----|
| | | h m s | | | km. |
| 524 Dec. 24 (Cont'd) | e L F | Saskatoon | | | |
| | | 2 15 | | | |
| | | 2 33 | | | |
| | | | 3 34 | | |
| | e e e L F | Seven Falls | | | |
| | | 2 14.3 | | | |
| | | 2 18.3 | | | |
| | | 2 25.3 | | | |
| | | 2 39 | | | |
| | | | 4 18 | | |
| 532 Dec. 25 | eZ eN L F | Ottawa | | | |
| | | 8 24 25 | | | |
| | | 8 32.3 | | | |
| | | 8 35 | | | |
| | | | 9 22 | | |
| | H P S L F | Victoria | | 2,740 | |
| | | 8 17.7 | | | |
| | | 8 23.1 | | | |
| | | 8 27.5 | | | |
| | | 8 29 | | | |
| | | 9 28 | | | |
| H P S L F | Saskatoon | | 3,120 | | |
| | 8 17.3 | | | | |
| | 8 23 15 | | | | |
| | 8 28 07 | | | | |
| | 8 32 | | | | |
| | | 9 14 | | | |
| e L F | Seven Falls | | | | |
| | 8 24.9 | | | | |
| | 8 36 | | | | |
| | | 9 20 | | | |
| e L F | Shawinigan Falls | | | | |
| | 8 25.2 | | | | |
| | 8 34 | | | | |
| | | 8 48 | | | |
| 538 Dec. 30 | eZ eN L F | Ottawa | | | |
| | | 22 21 31 | | | |
| | | 22 40.5 | | | |
| | | 22 55 | | | |
| | | | 23 41 | | |
| e e L F | Seven Falls | | | | |
| | 22 33.3 | | | | |
| | 22 40.8 | | | | |
| | 22 56 | | | | |
| | | 0 09 | | | |

W. W. Doxsey.

EARTHQUAKE CORRELATION TABLE
 December, 1943

| No. | Date | Ottawa | Victoria | Saskatoon | Halifax | Seven Falls | | | Shawinigan | ** |
|-----|------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|------------|----|
| | | | | | | M. S. | W. A. | | | |
| 503 | 1 | 6 24+1 21u | 6 18+1 33u | 6 30+1 02u | ..... | 6 26+2 06u | 6 24+0 01P | 6 24+0 02P | A | |
| 504 | 1 | 10 45+1 12u | 10 47+2 10u | 10 47+1 11u | 10 54+0 14u | 10 54+1 30u | 10 46+0 16u | 10 46+0 23u | B | |
| 505 | 2 | 2 13+0 56u | 2 18+0 55u | 2 42+0 26L | ..... | 2 20+1 17L | ..... | ..... | .. |  |
| 506 | 2 | 3 59+0 09L | ..... | ..... | ..... | 4 00+0 23L | ..... | ..... | .. |  |
| 507 | 2 | 5 37+1 14u | 5 25+1 16u | 5 51+0 48L | ..... | 5 43+1 18u | ..... | ..... | .. |  |
| 508 | 3 | 4 57+1 58u | 5 02+1 08u | 5 12+0 48u | ..... | 5 12+1 55u | ..... | ..... | .. |  |
| 509 | 3 | 7 05+0 48u | 7 15+0 14L | 7 13+0 25L | ..... | 7 34+0 15L | ..... | 7 05+0 03P | C | |
| 510 | 3 | ..... | ..... | ..... | ..... | ..... | 17 53+0 0.1d | ..... | .. |  |
| 511 | 6 | 7 20+0 01v | ..... | ..... | ..... | 1 16+0 28r | ..... | 7 21+0 0.5v | E | |
| 512 | 7 | 1 14+0 22r | ..... | ..... | ..... | 19 48+1 00u | 1 15+0 13r | 1 15+0 14r | .. | |
| 513 | 8 | 19 46+0 51u | 20 01+0 23L | 20 01+0 24L | ..... | 3 50+0 23L | ..... | ..... | .. |  |
| 514 | 9 | 3 30+0 34u | 3 38+0 23L | 3 39+0 16L | ..... | 17 00+0 42L | ..... | ..... | .. |  |
| 515 | 13 | ..... | ..... | ..... | ..... | 14 40+0 45L | ..... | ..... | .. |  |
| 516 | 17 | ..... | ..... | ..... | ..... | 13 59+1 01r | ..... | ..... | .. |  |
| 517 | 21 | 13 53+0 59r | 14 04+1 07L | 14 02+0 37r | ..... | 13 59+1 01r | 13 53+0 15r | 13 53+0 03P | G | |
| 518 | 22 | 7 10+0 22u | 7 21+0 26u | ..... | ..... | 7 17+0 19L | ..... | 7 11+0 02P | .. | |
| 519 | 22 | 13 00+1 00u | 13 11+1 09u | 13 09+0 56u | ..... | 13 05+1 07L | ..... | 13 00+0 04P | .. | |
| 520 | 23 | 16 03+1 14r | 16 06+1 09r | 16 12+0 52r | ..... | 16 08+1 09r | 16 03+0 20r | 16 03+0 08r | J | |
| 521 | 23 | 19 19+3 07u | 19 13+4 17u | 19 18+3 05u | ..... | 19 21+4 17u | 19 19+1 42u | 19 19+1 51u | K | |
| 522 | 23 | 19 29+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |  |
| 523 | 24 | 1 07+0 42u | 1 28+0 28L | 1 16+0 27u | ..... | 1 12+0 51u | 1 07+0 02P | 1 07+0 02P | .. | |
| 524 | 24 | 2 07+2 01u | 2 04+1 52u | 2 15+1 19u | ..... | 2 14+2 04u | ..... | ..... | .. |  |
| 525 | 24 | ..... | 4 15+0 04L | ..... | ..... | 6 06+1 14L | ..... | ..... | .. |  |
| 526 | 24 | 6 02+0 22L | 5 43+0 09L | 5 50+0 21L | ..... | ..... | ..... | ..... | .. |  |
| 527 | 24 | ..... | 6 40+0 13L | ..... | ..... | ..... | ..... | ..... | .. |  |
| 528 | 24 | 9 51+0 01P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |  |
| 529 | 24 | 12 46+0 34L | 12 26+0 34L | 12 33+0 24L | ..... | 12 39+0 47L | ..... | ..... | .. |  |
| 530 | 25 | 5 26+0 46L | 5 10+0 21L | 5 15+0 44L | ..... | 5 26+1 20L | ..... | ..... | .. |  |
| 531 | 25 | 7 14+0 07P* | ..... | ..... | ..... | ..... | ..... | ..... | .. |  |
| 532 | 25 | 8 24+0 58r | 8 23+1 05r | 8 23+0 51r | 8 40+0 12L | 8 36+0 44r | 8 25+0 26r | 8 25+0 23r | N | |
| 533 | 25 | ..... | ..... | ..... | ..... | 12 21+0 07L | ..... | ..... | .. |  |
| 534 | 26 | 5 15+0 40L | 5 10+0 26L | 5 15+0 21r | ..... | 5 14+0 50L | ..... | 5 17+0 11L | .. | |
| 535 | 27 | 4 50+0 58L | ..... | 4 48+0 20L | ..... | 4 59+1 24L | ..... | ..... | .. |  |
| 536 | 30 | 7 28+0 28L | 7 05+0 31L | 7 13+0 19L | ..... | 7 30+0 27L | ..... | ..... | .. |  |
| 537 | 30 | 8 31+0 48L | 8 23+0 25L | 8 29+0 26L | ..... | 8 40+0 40L | ..... | ..... | .. |  |
| 538 | 30 | 22 22+1 19u | 22 44+0 24L | 22 51+0 34L | ..... | 22 33+1 36u | ..... | ..... | .. |  |

CORRELATION OF EARTHQUAKES

December, 1943

N O T E S

| | | | |
|---|------------------|-----------------------|---|
| A | Ottawa | $\Delta = 14,400$ km. | H = 6 ^h 04 ^m .6 U.T. |
| | Victoria | $\Delta = 10,700$ km. | H = 6 04.7 U.T. |
| | Seven Falls | $\Delta = 14,400$ km. | H = 6 04.7 U.T. |
| B | Ottawa | $\Delta = 7,065$ km. | H = 10 ^h 35 ^m .0 U.T. |
| | Victoria | $\Delta = 9,020$ km. | H = 10 35.0 U.T. |
| | Saskatoon | $\Delta = 8,155$ km. | H = 10 35.5 U.T. |
| | Seven Falls | $\Delta = 7,020$ km. | H = 10 35.2 U.T. |
| | Shawinigan Falls | $\Delta = 7,160$ km. | H = 10 35.0 U.T. |
| C | Ottawa | $\Delta = 9,160$ km. | H = 6 ^h 53 ^m .0 U.T. |
| E | Ottawa | $\Delta = 265$ km. | H = 7 ^h 19 ^m .7 U.T. |
| G | Ottawa | $\Delta = 3,620$ km. | H = 13 ^h 46 ^m .3 U.T. |
| | Seven Falls | $\Delta = 3,650$ km. | H = 13 46.5 U.T. |
| J | Ottawa | $\Delta = 3,610$ km. | H = 15 ^h 56 ^m .0 U.T. |
| | Halifax | $\Delta = 3,600$ km. | H = 15 56.1 U.T. |
| | Seven Falls | $\Delta = 3,740$ km. | H = 15 56.1 U.T. |
| K | Ottawa | $\Delta = 13,500$ km. | H = 19 ^h 00 ^m .1 U.T. |
| | Victoria | $\Delta = 9,740$ km. | H = 19 00.4 U.T. |
| | Saskatoon | $\Delta = 11,400$ km. | H = 19 00.0 U.T. |
| | Seven Falls | $\Delta = 13,800$ km. | H = 19 00.2 U.T. |
| | Shawinigan Falls | $\Delta = 13,800$ km. | H = 19 00.1 U.T. |
| N | Victoria | $\Delta = 2,740$ km. | H = 8 ^h 17 ^m .7 U.T. |
| | Saskatoon | $\Delta = 3,120$ km. | H = 8 17.3 U.T. |

Dominion Observatory,
 Ottawa, Canada,
 February 2, 1944.