SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN
January
1942

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DOMINION OBSERVATORY
OTTAWA, CANADA

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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

ϕ = 45°23'38" N. λ = 75°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

ϕ = 44°38' N. λ = 63°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

ϕ = 47°07!4 N. λ = 70°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

ϕ = 48°31'14" N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33'1 N. λ = 72°45'8 W. h = 60m. 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

ϕ = 52°08' N. λ = 106°38' W. h = 515m.

Time correction from radio time signals

Foundation: clay and sand

Instruments: Mainka NS and EW components, designated SN and SE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

TORONTO

ϕ = 43°40' N. λ = 79°24' W. h = 111m.

Time correction from radio time signals

Foundation: sand and clay

Instrument: Milne-Shaw NS component, designated 18, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

ϕ = 48°09' N. λ = 80°03' W. h = 320m.

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_o	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			
18 (Toronto)	10.0	165	20:1	20 mm.	
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)	9.1	65	Aper.		
SE (Saskatoon)	9.1	67	"		
KL (Kirkland Lake)	1/30	2×10^4 at 30 cycles			

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 1, 1942 to January 20, 1942 No. 1

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
13 Jan. 12	e_Z	16 24 55		
	e_Z	16 26 13		
	L	17 08		
	F	17 30		
		Ottawa		
16 Jan. 20	H	6 25.7	4040	USCGS. gives:
	P	6 32 51		ϕ = 17°.5 N.
	PPP_Z	6 34 15		λ = 106° W.
	eS	6 38 41		
	SSS_N	6 41.5		
	eL	6 45		
	F	7 27		
		Seven Falls		
	H	6 25.7	4510	
	P	6 33 24		
	S	6 39 42		
	L	6 47		
	F	7 35		
		Shawinigan Falls		
	H	6 25.8	4280	
	P	6 33 11		
	S	6 39 16		
	L	6 45		
	F	7 02		
		Ottawa		
17 Jan. 20	i_Z	14 04 55		
	e_Z	14 06 42		
	L	14 20		
	F	14 27		
		Seven Falls		
	e	14 06.1		
	L	14 20		
	F	14 24		
		Shawinigan Falls		
	e	14 04 59		
	L	14 19		
	F	14 26		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 20, 1942 to January 27, 1942 No. 2

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
20 Jan. 27	H	13 29 ca.	14,700	USCGS. gives:
	P'_Z	13 48 22		ϕ = 2° S.
	PP	13 50.6		λ = 135° E.
	SKP	13 51 46		approx.
	SKS	13 55 34		
	PPS	14 02.6		
	SS	14 08		
	e	14 16.5		
	eL	14 27		
	F	16 18		
		Victoria		
	H	13 29 ca	11,100	
	PP_E	13 46 45		
	SKKS	13 53 46		
	PPS	13 56.3		
	SS	14 01.6		
	SSS	14 05		
	L	14 12		
	F	16 22		
		Saskatoon		
	e	13 57.7		
	e	14 04		
	L	14 19		
	F	15 02		
		Halifax		
	e	14 05		
	L	14 23		
	F	15 04		
		Seven Falls		
	H	13 29 ca.	14,500	
	e	13 48.7		
	PP	13 50.6		
	SKP	13 51 49		
	PS	14 00 43		
	SS	14 08 18		
	SSS	14 14		
	e	14 19.6		
	L	14 26		
	F	16 27		
		Shawinigan Falls		
	e	13 48.5		
	e	13 51 48		
	L	14 35		
	F	14 56		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 27, 1942 to January 31, 1942 No. 3

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
24 Jan. 29	H	9 23.3	14,200	
	P'Z	9 42 26		
	SKP	9 45 50		
	PS	9 54 30		
	SS	10 01		
	eL	10 14		
	F	11 46		
		Victoria	10,200	
	H	9 23.4		
	P	9 35.5		
	PP	9 40 12		
	SKS	9 47 01		
	SS	9 53.6		
	eL	10 01		
	F	10 54		
		Seven Falls		
	H	9 23.3	14,500	
	P'	9 42 33		
	PS	9 55 00		
	SS	10 02 04		
	L	10 20		
	F	10 42		
		Ottawa		
25 Jan. 30	e	13 02		
	L	13 11		
	F	13 10		
		Victoria		
	e_E	12 47.5		
	e_N	12 53		
	L	13 09		
	F	13 50		
		Ottawa		
28 Jan. 31	H	4 11.9	175	
	P_2	4 12 23		
	S_2	4 12 43		
	F	4 14		
		Ottawa		
29 Jan. 31	e_Z	6 55 39		
	L	7 06		
	F	7 16		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 31, 1942 to January 31, 1942 No. 4

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
29 Jan. 31 (Cont'd)	H	6 49.0	265	Felt at Victoria and Vancouver, B.C.
	P_2	6 49 46		
	S_2	6 50 16		
	F	7 04		
		Saskatoon		
	e	6 53 10		
	e_N	6 54 19		
	L	6 55		
	F	7 03		
		Seven Falls		
	e	6 56 01		
	L	7 06		
	F	7 14		
		Shawinigan Falls		
	e	6 55 51		
	L	7 06		
	F	7 16		

W. W. Doxsee

CORRELATION TABLE

This tabulation not only provides a yearly numbered list of all earthquakes recorded in Canada but also correlates the seismic registrations of the eight 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, 1942

No.	Date	Ottawa	Victoria	Toronto	Saskatoon	Halifax	Seven Falls		Shawinigan	**
							M. S.	W. A.		
1	1	.....	.....	.....	.....	.....	.....	.....	17 31+0 01P	..
2	3	.....	4 36+0 08L	.....	.....	.....	.....	.....	.....	..
3	3	.....	5 19+0 07L	.....	.....	.....	.....	.....	.....	..
4	4	19 51+0 01P*	.....	.....	.....	.....	.....	.....	.....	..
5	5	.....	.....	.....	.....	.....	.....	.....	.....	..
6	5	19 54+0 04L	.....	.....	.....	.....	.....	.....	17 47+0 01P	..
7	5	22 52+0 10L	.....	.....	.....	.....	.....	.....	.....	..
8	7	9 19+0 01P	9 31+0 07L	.....	.....	.....	22 54+0 06L	.....	.....	..
9	7	11 45+0 35L	11 31+0 18L	.....	.....	.....	9 47+0 09L	.....	9 19+0 02P	..
10	8	15 21+0 04P	.....	.....	.....	.....	11 49+0 26L	.....	.....	..
11	9	7 29+0 19L	7 12+0 24L	.....	.....	.....	15 29+0 12L	15 22+0 02P	15 22+0 03P	..
12	9	.....	.....	.....	.....	.....	.....	.....	.....	..
13	12	16 25+1 05u	.....	.....	.....	.....	.....	.....	20 48+0 01P	..
14	18	16 49+0 01P*	.....	.....	.....	.....	.....	.....	.....	..
15	19	4 33+0 01P*	.....	.....	.....	.....	.....	.....	.....	..
16	20	6 33+0 54r	6 39+0 25L	.....	6 40+0 16L	6 49+0 16L	6 35+1 00r	6 33+0 31r	6 33+0 29r	A
17	20	14 05+0 22r	.....	.....	14 10+0 06L	.....	.....	14 06+0 18r	14 05+0 21r	..
18	22	18 04+0 02P	.....	.....	.....	.....	.....	.....	.....	..
19	23	22 33+0 37L	21 51+0 39L	.....	.....	.....	22 36+0 19L	.....	.....	..
20	27	13 48+2 30u	13 47+2 35u	.....	13 58+1 04u	14 05+0 59u	13 51+2 36u	13 49+1 16u	13 48+1 08u	B
21	28	15 43+0 25L	.....	.....	.....	.....	.....	.....	.....	..
22	29	4 04+0 01v*	.....	.....	.....	.....	.....	.....	.....	..
23	29	8 23+0 17L	8 10+0 27L	.....	.....	.....	8 28+0 08L	.....	.....	..
24	29	9 42+2 04u	9 36+1 18u	.....	.....	.....	9 53+0 49u	9 43+0 03P	9 42+0 09P	C
25	29	.....	11 39+0 16L	.....	.....	.....	.....	.....	.....	..
26	30	13 02+1 08u	12 48+1 02u	.....	13 16+0 20L	.....	13 05+0 45L	.....	.....	..
27	31	2 09+0 02P	.....	.....	.....	.....	.....	2 08+0 02P	.....	..
28	31	4 12+0 02v	.....	.....	.....	.....	.....	.....	.....	E
29	31	6 56+0 20r	6 50+0 14v	.....	6 53+0 10r	.....	7 06+0 08L	6 56+0 17r	6 56+0 20r	G
30	31	18 28+0 27L	18 24+0 15L	.....	18 24+0 11L	.....	18 30+0 17L	.....	.....	..

CORRELATION OF EARTHQUAKES

January, 1942

N O T E S

A :	Ottawa	Δ = 4040 km.	H = $6^h25^m.7$ U.T.
	Seven Falls	Δ = 4510 km.	H = 6 25.7 U.T.
	Shawinigan Falls	Δ = 4280 km.	H = 6 25.8 U.T.
B :	Ottawa	Δ = 14,700 km.	H = 13^h29^m U.T.
	Victoria	Δ = 11,100 km.	H = 13 29 U.T.
	Seven Falls	Δ = 14,500 km.	H = 13 29 U.T.
C :	Ottawa	Δ = 14,200 km.	H = $9^h23^m.3$ U.T.
	Victoria	Δ = 10,200 km.	H = 9 23.4 U.T.
	Seven Falls	Δ = 14,500 km.	H = 9 23.3 U.T.
E :	Ottawa	Δ = 175 km.	H = $4^h11^m.9$ U.T.
G :	Victoria	Δ = 265 km.	H = $6^h49^m.0$ U.T.

Dominion Observatory,
Ottawa, Canada,
March 25, 1942.

SEISMOLOGICAL SERVICE OF CANADA

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R. Meldrum Stewart, Dominion Astronomer
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S T A T I O N S

OTTAWA

ϕ = 45°23'38" N. λ = 75°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

ϕ = 44°38' N. λ = 63°36' W. h = 46m.
Time correction from recorded radio time signals
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SEVEN FALLS

Quebec Power Company

ϕ = 47°07'.4 N. λ = 70°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

ϕ = 48°31'14" N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33!1 N. λ = 72°45!8 W. h = 60m. 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

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

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ϕ = 43°40' N. λ = 79°24' W. h = 111m.
Time correction from radio time signals
Foundation: sand and clay
Instrument: Milne-Shaw NS component, designated 18, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

ϕ = 48°09' N. λ = 80°03' W. h = 320m.
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_o	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			
18 (Toronto)	10.0	165	20:1	20 mm.	
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)	9.1	65	Aper.		
SE (Saskatoon)	9.1	67	"		
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, 1942 to February 17, 1942 No. 5

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
38	e_Z	11 27.9		
Feb.	L	11 39		
11	F	11 46		
40	e_N	6 45.8		
Feb.	e_E	6 47.6		
13	e	6 53.5		
	eL	7 05		
	F	8 20		
		Seven Falls		
	e	6 47.9		
	L	7 15		
	F	8 19		
		Ottawa		
45	H	10 20.9	225	
Feb.	P_{2Z}	15 21 29.5		
16	S_{nZ}	15 21 53		
	S_{2Z}	15 21 55.5		
	F	15 22.5		
		Ottawa		
46	e_Z	18 26 50		
Feb.	e_E	18 37.8		
16	e_E	18 45.2		
	e	18 54		
	L	19 15		
	F	19 50		
		Victoria		
	H	18 08.2	9420	
	P_E	18 20 43		
	S	18 31 13		
	PS_N	18 32 07		
	eL	18 44		
	F	19 27		
		Seven Falls		
	e	18 38.1		
	e	18 45 44		
	L	19 08		
	F	19 47		
		Ottawa		
47	e_Z	4 30 40		
Feb.	L	5 12		
17	F	5 43		
		Victoria		
	e_E	4 35.2		
	L	4 52		
	F	5 36		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM February 17, 1942 to February 28, 1942 No. 6

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
48 Feb. 18	H	7 55.2	165	
	P_{2Z}	7 55 37		
	S_{2Z}	7 55 56		
	F	7 57		
		Ottawa		
50 Feb. 21	H	7 07.8	9850	
	P	7 20 41		
	SKS_N	7 31.0		
	S	7 31 29		
	SS	7 37 38		
	eL	7 51		
	F	9 30		
		Victoria		
	H	7 08.1	6980	
	P	7 18 30		
	S	7 27 06		
	e	7 28 20		
	L	7 35		
	F	9 07		
		Toronto		
	e	7 31.2		
	L	7 54		
	F	8 36		
		Seven Falls		
	e	7 31 30		
	e	7 37.6		
	e	7 44.5		
	L	7 52		
	F	9 12		
		Ottawa		
53 Feb. 23	e_Z	2 50 44		
	e	3 00.0		
	L	3 05		
	F	3 20		
		Ottawa		
54 Feb. 23	e_Z	6 34 10		
	e	6 44		
	L	6 48		
	F	6 57		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month February, 1942

No.	Date	Ottawa	Victoria	Toronto	Saskatoon	Halifax	Seven Falls		Shawinigan	**
							M. S.	W. A.		
31	1	.....	.....	.....	.....	.....	.....	.....	.5 51+0 01P	..
32	4	17 41+0 24L	.....	.....	.....	.....	.....	.....	.....	..
33	4	18 07+0 03P*	.....	.....	.....	.....	.....	.....	.....	..
34	5	11 04+0 11L	.....	.....	.....	.....	.....	.....	.....	..
35	8	10 49+0 15L	.....	.....	.....	.....	.....	.....	.....	..
36	8	20 56+0 46L	20 45+0 41L	.....	.....	.....	20 57+0 46L	.....	.....	..
37	11	10 23+0 01P	.....	.....	.....	.....	.....	.....	.....	..
38	11	11 28+0 18r	.....	.....	.....	.....	.....	.....	11 40+0 04L	..
39	12	6 15+0 01P	.....	.....	.....	.....	.....	.....	.....	..
40	13	6 46+1 34u	7 06+0 32L	.....	.....	.....	6 48+1 31u	.....	.....	..
41	13	.....	8 52+0 10L	.....	.....	.....	9 00+0 15L	.....	.....	..
42	14	13 05+0 01P*	.....	.....	.....	.....	.....	.....	.....	..
43	14	23 09+0 02P	.....	.....	.....	.....	.....	.....	.....	..
44	15	14 30+0 02P	.....	.....	.....	.....	.....	.....	.....	..
45	16	14 21+0 01v*	.....	.....	.....	.....	.....	.....	.....	A
46	16	18 27+1 23u	18 21+1 06u	.....	.....	.....	18 38+1 09u	.....	.....	B
47	17	4 31+1 12u	4 35+1 01u	.....	.....	.....	5 13+0 31L	.....	.....	..
48	18	7 56+0 01v*	.....	.....	.....	.....	.....	.....	7 56+0 0.5v	C
49	20	1 06+0 01P	.....	.....	.....	.....	.....	.....	.....	..
50	21	7 21+2 09u	7 18+1 49u	7 31+1 05u	.....	.....	7 31+1 41u	.....	7 21+0 05P	E
51	21	22 56+0 08L	.....	.....	.....	.....	.....	.....	.....	..
52	22	10 14+0 39L	.....	.....	.....	.....	10 28+0 26L	.....	.....	..
53	23	2 51+0 29u	3 09+0 10L	.....	.....	.....	3 01+0 10L	.....	.....	..
54	23	6 34+0 23u	6 55+0 07L	.....	.....	.....	6 48+0 06L	.....	.....	..
55	24	11 34+0 04P	.....	.....	.....	.....	.....	11 34+0 02P	11 34+0 05P	..
56	27	8 29+0 10P	.....	.....	.....	.....	.....	.....	8 29+0 13P	..

CORRELATION OF EARTHQUAKES
February, 1942

N O T E S

A	:	Ottawa	Δ = 225 km.	H = $14^h20^m.9$	U.T.
B		Victoria	Δ = 9420 km.	H = $18^h08^m.2$	U.T.
C	:	Ottawa	Δ = 165 km.	H = $7^h55^m.2$	U.T.
E	:	Ottawa	Δ = 9850 km.	H = $7^h07^m.8$	U.T.
		Victoria	Δ = 6980 km.	H = 7 08.1	U.T.

Dominion Observatory,
Ottawa, Canada,
March 25, 1942.

SEISMOLOGICAL BULLETINS RECEIVED

January and February, 1942

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

STATIONS	BULLETINS	RECEIVED
Berkeley and Auxiliary Stations	October 1/39 to December 31/39	January 8
Weston	November and December, 1941	" 9
Pasadena	Local Shocks for June-Aug., 1941	" 12
New Zealand Stations	Provisional for November, 1941	" 26
Brisbane	November, 1941	" 26
Sydney	September, 1941	February 5
Perth	April, 1941	" 6
Mexico and Auxiliary Stations	January 1 to June 30, 1940	" 11
Weston	Preliminary for January, 1942	" 19
Santa Clara	November, 1941	" 23
Pasadena	Preliminary Bulletin No. 32 for November-December, 1941	" 24
Perth	October and November, 1941	" 27

DOMINION OBSERVATORY,
OTTAWA - CANADA.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN
March
1942

°°°°

DOMINION OBSERVATORY
OTTAWA, CANADA

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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

ϕ = 45°23'38" N. λ = 75°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

ϕ = 44°38' N. λ = 63°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

ϕ = 47°07!4 N. λ = 70°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

ϕ = 48°31'14" N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33!1 N. λ = 72°45!8 W. h = 60m. 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

ϕ = 52°08' N. λ = 106°38' W. h = 515m.

Time correction from radio time signals

Foundation: clay and sand

Instruments: Mainka NS and EW components, designated SN and SE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

TORONTO

ϕ = 43°40' N. λ = 79°24' W. h = 111m.

Time correction from radio time signals

Foundation: sand and clay

Instrument: Milne-Shaw NS component, designated 18, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

ϕ = 48°09' N. λ = 80°03' W. h = 320m.

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_o	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			
18 (Toronto)	10.0	165	20:1	20 mm.	
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)	9.1	65	Aper.		
SE (Saskatoon)	9.1	67	"		
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, 1942 to March 5, 1942 No. 7

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
58 March 1	H	9 52.1	3800	USCGS. gives:
	P_Z	9 58 52		ϕ = 13° N.
	S	10 04 26		λ = 91° W.
	eL	10 10		
	F	11 15		
		Victoria		
	e	10 06.9		
	e	10 10.2		
	eL	10 16.5		
	F	11 01		
		Toronto		
	e	10 05		
	L	10 08		
	F	10 52		
		Seven Falls		
	H	9 52.3	3950	
	P	9 59 20		
	S	10 05.1		
	SS	10 07.5		
	L	10 12		
	F	11 04		
		Shawinigan Falls		
	P	9 59 10		
	L	10 14		
	F	10 30		
		Ottawa		
61 March 5	H	19 48.4	8680	USCGS. gives:
	P	20 00 24		ϕ = 48° S.
	S	20 10 21		λ = 98° W.
	eL	20 23		Depth = 250-300 km.
	F	21 10		
		Victoria		
	e?	20 00		
	i_N	20 06 09		
	e_E	20 06 54		
	F	20 40		
		Saskatoon		
	H	19 48.6	6820	
	P	19 58 52		
	S	20 07 20		
	F	20 18		
		Seven Falls		
	H	19 48.5	8650	
	P	20 00 23		
	iS	20 10 19		
	L	20 15		
	F	21 04		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM March 5, 1942 to March 19, 1942 No. 8

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
61 March 5 (Cont'd)	H	19 48.4	8720	
	P	20 00 22		
	S	20 10 21		
	F	20 21		
		Ottawa		
64 March 6	e	20 38.7		
	eL	21 04		
	F	22 00 ca.		
		Victoria		
	e	20 32 05		
	L	20 50		
	F	21 38		
		Seven Falls		
	e	20 36.8		
	L	21 07		
	F	22 24		
		Ottawa		
65 March 8	e_Z	4 57.0		
	e	5 05.3		
	eL	5 12		
	F	5 30		
		Victoria		
	e_E	5 10.8		
	L	5 28		
	F	5 41		
		Ottawa		
66 March 9	i_Z	10 25 22		
	e	10 30.2		
	L	10 36		
	F	10 53		
		Ottawa		
67 March 19	H	11 59.4	4010	USCGS. gives:
	P	12 06 28		ϕ = 53° N.±
	S	12 12 16		λ = 136° W ±
	L	12 17.5		
	F	13 05		
		Victoria		
	H	11 59.1	750	
	P	12 00 44		
	S	12 02 00		
	L	12 02 15		
	F	14 00 ca.		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM March 19, 1942 to March 20, 1942 No. 9

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Toronto		
67 March 19 (Cont'd)	eP	12 06 26		
	e	12 11 49		
	L	12 17		
	F	13 10		
		Saskatoon		
	e_E	12 02 54		
	e_N	12 03 15		
	L	12 08		
	F	13 00 ca.		
		Halifax		
	e_N	12 15.6		
	e_E	12 17.6		
	L	12 21		
	F	12 51		
		Seven Falls		
	H	11 59.4	4280	
	P	12 06 46		
	S	12 12 51		
	e	12 17 32		
	eL	12 19		
	F	13 44		
		Shawinigan Falls		
	P	12 06 38		
	L	12 19		
	F	12 50		
		Ottawa		
69 March 20	H	1 13.3	6180	
	P	1 22 47		
	S	1 30 38		
	L	1 43		
	F	3 36		
		Victoria		
	H	1 13.3	2980	
	P	1 19 03		
	S	1 23 45		
	L	1 26		
	F	3 39		
		Toronto		
	e	1 30 21		
	L	1 43		
	F	2 59		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM March 20, 1942 to March 21, 1942 No. 10

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
69 March 20 (Cont'd)	H	11 13.5	3790	
	P	1 20.3		
	S	1 25 52		
	L	1 30		
	F	2 16		
		Seven Falls		
	H	1 13.3	6330	
	P	1 22 58		
	S	1 30 57		
	L	1 43		
	F	3 31		
		Shawinigan Falls		
	H	1 13.2	6280	
	P	1 22 50		
	S	1 30 46		
	F	1 53		
		Ottawa		
71 March 21	H	23 20.5	11,600	
	P_Z	23 34 39		
	PP	23 38 48		
	SKS	23 45 14		
	SKKS	23 46 16		
	PS	23 47 50		
	SS	23 58		
	eL	0 07		
	F	1 23		
		Victoria		
	H	23 20.4	9130	
	P	23 32 43		
	S	23 43 00		
	L	23 59		
	F	1 17		
		Toronto		
	e	23 45 11		
	L	0 15		
	F	1 06		
		Seven Falls		
	e	23 43.7		
	e	23 46 10		
	e	23 52 02		
	L	0 11		
	F	1 34		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM March 21, 1942 to March 31, 1942 No. 11

No. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
72 March 22	H	2 08.5	9900	
	P_Z	2 21 27		
	PP_Z	2 25 09		
	SKS	2 31.7		
	PS_N	2 33 05		
	L	2 48		
	F	3 12		
		Ottawa		
75 March 26	H	19 12.8	4660	
	P_Z	19 20 40		
	eS	19 27 06		
	eL	19 35		
	F	20 06		
		Victoria		
	e	19 27.1		
	L	19 33		
	F	19 48		
		Ottawa		
78 March 30	H	9 09.0	3490	
	P	9 15 25		
	S	9 20 40		
	SS	9 22		
	eL	9 24		
	F	10 11		
		Victoria		
	e	9 28		
	L	9 39		
	F	10 21		
		Seven Falls		
	e	9 14 54		
	L	9 20		
	F	10 05		
		Shawinigan Falls		
	e	9 15 15		
	L	9 24		
	F	9 28		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month March, 1942

No.	Date	Ottawa	Victoria	Toronto	Saskatoon	Halifax	Seven Falls		Shawinigan	***
							M. S.	W. A.		
57	1	1 59+0 01P*	.....	.....	.....	.....	.....	.....	.....	..
58	1	9 59+1 16r	10 07+0 54r	10 05+0 47r	.....	10 11+0 20L	10 05+0 58r	9 59+0 22r	9 59+0 30r	A
59	1	.....	.....	.....	18 18+0 15L	.....	.....	.....	.....	..
60	4	4 41+0 19L	4 30+0 08L	.....	.....	.....	.....	.....	.....	..
61	5	20 00+1 10u	20 00+0 40u	.....	19 59+0 19u	.....	20 10+0 53u	20 00+0 16u	20 00+0 20u	B
62	5	20 27+0 03P	.....	.....	.....	.....	.....	.....	.....	..
63	6	15 46+0 07L	.....	.....	.....	.....	.....	.....	.....	..
64	6	20 39+1 21u	20 32+1 06u	.....	.....	.....	20 37+1 47u	.....	.....	..
65	8	4 57+0 33u	5 11+0 30u	.....	.....	.....	5 11+0 08L	.....	.....	..
66	9	10 25+0 28r	10 45+0 10L	.....	.....	.....	10 32+0 18r	10 31+0 03P	10 26+0 09P	..
67	19	12 06+0 59R	12 01+1 59V	12 06+1 04R	12 03+0 57R	12 16+0 35u	12 13+1 32R	12 07+0 36R	12 07+0 43R	C
68	19	16 54+0 08L	.....	.....	.....	.....	16 57+0 07L	.....	.....	..
69	20	1 23+2 13u	1 19+2 20u	1 30+1 29u	1 20+0 54u	1 44+0 23L	1 31+2 00u	1 23+0 34u	1 23+0 30u	E
70	20	1 31+0 01P	.....	.....	.....	.....	.....	.....	.....	..
71	21	23 35+1 48u	23 33+1 44u	23 45+1 21u	.....	0 14+0 21L	23 44+1 50u	.....	23 39+0 08P	F
72	22	2 21+0 51u	2 33+0 29L	.....	.....	.....	2 32+0 25u	.....	2 21+0 08P	G
73	25	7 43+0 05P*	.....	.....	.....	.....	.....	.....	.....	..
74	25	.....	11 45+0 05L	.....	.....	.....	.....	.....	.....	..
75	26	19 21+0 25r	19 27+0 21u	.....	.....	.....	19 28+0 42L	.....	.....	.
76	28	6 04+0 04L	.....	.....	.....	.....	.....	.....	.....	.
77	29	.....	.....	.....	.....	.....	19 00+0 08L	.....	.....	.
78	30	9 15+0 56r	9 28+0 53u	9 25+0 11L	.....	.....	9 15+0 50r	9 15+0 09P	9 15+0 13r	
79	30	16 43+0 0.4P*	.....	.....	.....	.....	.....	.....	.....	.
80	31	.....	.....	.....	.....	.....	.....	.....	0 25+0 03P	.

CORRELATION OF EARTHQUAKES

March, 1942

N O T E S

A :	Ottawa	Δ =	3800 km.	H = $9^h52^m.1$ U. T.
	Seven Falls	Δ =	3950 km.	H = 9 52.3 U. T.
B :	Ottawa	Δ =	8680 km.	H = $19^h48^m.4$ U. T.
	Saskatoon	Δ =	6820 km.	H = 19 48.6 U. T.
	Seven Falls	Δ =	8650 km.	H = 19 48.5 U. T.
	Shawinigan Falls	Δ =	8720 km.	H = 19 48.4 U. T.
C :	Ottawa	Δ =	4010 km.	H = $11^h59^m.4$ U. T.
	Victoria	Δ =	750 km.	H = 11 59.1 U. T.
	Seven Falls	Δ =	4280 km.	H = 11 59.4 U. T.
E :	Ottawa	Δ =	6180 km.	H = $1^h13^m.3$ U. T.
	Victoria	Δ =	2980 km.	H = 1 13.3 U. T.
	Saskatoon	Δ =	3790 km.	H = 1 13.5 U. T.
	Seven Falls	Δ =	6330 km.	H = 1 13.3 U. T.
	Shawinigan Falls	Δ =	6280 km.	H = 1 13.2 U. T.
F :	Ottawa	Δ =	11,600 km.	H = $23^h20^m.5$ U. T.
	Victoria	Δ =	9130 km.	H = 23 20.4 U. T.
G :	Ottawa	Δ =	9900 km.	H = $2^h08^m.5$ U. T.
J :	Ottawa	Δ =	4660 km.	H = $19^h12^m.8$ U. T.
K ;	Ottawa	Δ =	3490 km.	H = $9^h09^m.0$ U. T.

Dominion Observatory,
Ottawa, Canada,
May 7, 1942.

SEISMOLOGICAL BULLETINS RECEIVED
March and April, 1942

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

STATIONS	BULLETINS	RECEIVED	
Santa Clara	January, 1942	March	2
Leningrad and Auxiliary Stations	August, 1941	"	2
Weston	Preliminary for February, 1942	"	5
Ksara	July, 1941	"	7
Perth	December, 1941	"	9
Perth	January, 1942	"	17
Pasadena	Local Shocks Oct.-Dec., 1941	"	23
Bureau and U.G.G.I.	September, 1941	"	30
New Zealand Stations	December, 1941	April	7
New Zealand Stations	January and February, 1942	"	8
Brisbane	December, 1941 and January, 1942	"	8
Zurich	October, 1941 to January, 1942	"	15
Sydney	November and December, 1941	"	21
Perth	February, 1942	"	27
Brisbane	February, 1942	"	30

Dominion Observatory,
Ottawa - Canada.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

April

1942

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DOMINION OBSERVATORY
OTTAWA, CANADA

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SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

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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.

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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 15 g.

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DETERMINED CONSTANTS

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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			
18 (Toronto)	10.0	165	20:1	20 mm.	
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)	9.0	72	Aper.		
SE (Saskatoon)	9.0	56	"		
KL (Kirkland Lake)	1/30	$2X10^4$	at 30	cycles	

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM April 1, 1942 to April 8, 1942 No. 12

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
85 Apr. 8	H	15 40.4	13,350	
	P'_Z	15 59 16		
	PP	16 00 34		
	SKP_Z	16 02 07		
	PPP	16 03 12		
	PS	16 10 32		
	e_Z	16 13.0		
	SS	16 17 06		
	SSS	16 21.5		
	eL	16 32		
	F	18 54		
		Victoria		
	H	15 40.3	11,000	
	P	15 53 59		
	PP	15 57 32		
	SKS	16 04 32		
	PS	16 06.5		
	SS	16 12.5		
	L	16 21		
	F	19 01		
		Toronto		
	H	15 40.4	13,500	
	PP	16 00 48		
	SKKS	16 07.7		
	PS	16 10 45		
	SS	16 17 39		
	L	16 31		
	F	18 26		
		Saskatoon		
	e	15 59 02		
	e	16 08.9		
	e	16 18		
	L	16 24		
	F	17 36		
		Seven Falls		
	H	15 40.4	13,350	
	PP	16 00 37		
	S	16 08.4		
	PS	16 10 03		
	PPS	16 11.4		
	SS	16 16 33		
	SSS	16 21.4		
	L	16 31		
	F	19 11		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM April 8, 1942 to April 13, 1942 No. 13

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
85 Apr. 8 (Cont'd)	H	15 40.4	13,350	
	P'	15 59 20		
	PP	16 00 34		
	PS	16 10.4		
	F	17 21		
		Ottawa		
89 Apr. 11	i	1 31 42		USCGS. gives:
	e	1 33 05		ϕ = 15°.0 N.
	e_E	1 37.8		λ = 91°.5 W.
	e	1 40		Depth 100 km. ca.
	L	1 45		
	F	1 56		
		Seven Falls		
	e	1 32 11		
	e	1 33.8		
	L	1 43		
	F	1 47		
		Shawinigan Falls		
	e	1 32 00		
	e	1 33.5		
	L	1 41		
	F	1 47		
		Ottawa		
90 Apr. 13	H	7 46.3	7920	USCGS. gives:
	P_Z	7 57 37		ϕ = 3° S.
	S	8 06 58		λ = 13° W
	SS	8 11.5		
	SSS	8 15		
	L	8 19		
	F	9 18		
		Victoria		
	e	8 10.4		
	e	8 19 26		
	L	8 34		
	F	9 32		
		Halifax		
	e	8 04.6		
	L	8 11		
	F	8 23		
		Seven Falls		
	e	7 57.6		
	e	8 06.6		
	L	8 16		
	F	9 10		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM April 13, 1942 to April 25, 1942 No. 14

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
92 Apr. 14	e_Z	18 22 59		Nearby quake
	e_Z	18 23 06		
	F	18 23 20		
		Ottawa		
95 Apr. 18	e_Z	22 27 51		
	L	22 38		
	F	22 48		
		Ottawa		
97 Apr. 20	e_Z	8 53 18		
	e_Z	8 56 32		
	e_Z	8 57 10		
	e	9 03 18		
	e_E	9 06 23		
	F	9 37		
		Victoria		
	e	8 51 16		
	e	9 00 09		
	e	9 03 17		
	F	9 32		
		Seven Falls		
	e	9 04 03		
	e	9 06 26		
	L	9 12		
	F	9 52		
		Shawinigan Falls		
	e	8 53 19		
	e	8 57.2		
	e	9 03 20		
	F	9 06		
		Ottawa		
99 Apr. 22	e_Z	23 27 28		
	L	23 36		
	F	0 03		
		Seven Falls		
	e	23 33 58		
	L	23 39		
	F	0 13		
		Ottawa		
100 Apr. 25	e_Z	19 42 47		
	L	19 49		
	F	20 07		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM April 25, 1942 to April 30, 1942 No. 15

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
101 Apr. 27	H	9 16.7	3680	
	PZ	9 23 24		
	PPE	9 24.3		
	SE	9 28 51		
	L	9 33		
	F	9 57		
		Seven Falls		
	e	9 27.1		
	L	9 31		
	F	10 02		
		Ottawa		
103 Apr. 29	eZ	11 59 40		
	e	12 06.5		
	eE	12 11.3		
	e	12 18.0		
	L	12 33		
	F	12 45+		
		Victoria		
	e	12 04 32		
	e	12 06 43		
	L	12 18		
	F	12 40		
		Ottawa		
104 Apr. 30	eZ	1 45.8		
	L	2 36		
	F	2 58		
		Ottawa		
105 Apr. 30	eZ	6 49 51		Rockburst at Lake Shore Mines, Kirkland Lake, Ontario.
	F	6 50.4		

W. D. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month April, 1942

No.	Date	Ottawa	Victoria	Toronto	Saskatoon	Halifax	Seven Falls		Shawinigan	**
							M. S.	W. A.		
81	1	2 26+0 02P*	.....	.....	.....	.....	.....	.....	.....	..
82	5	.....	.....	.....	.....	.....	.....	.....	14 28+0 01P	..
83	6	.....	.....	.....	.....	.....	.....	.....	4 20+0 02P	..
84	7	3 28+0 05L	.....	.....	.....	.....	.....	.....	.....	..
85	8	15 59+2 55U	15 54+3 07U	16 01+2 25U	15 59+1 37U	.....	16 01+3 11U	16 01+1 20U	15 59+1 22U	A
86	8	20 30+0 43L	19 56+1 06L	.....	.....	.....	20 23+0 50L	.....	.....	..
87	9	.....	.....	.....	.....	.....	0 59+0 22L	.....	.....	..
88	9	5 46+0 31L	5 37+0 34L	.....	.....	.....	5 37+0 39L	.....	.....	..
89	11	1 32+0 24r	1 39+0 30L	1 36+0 16L	.....	.....	1 41+0 17L	1 32+0 15r	1 32+0 15r	..
90	13	7 58+1 20u	8 10+1 22u	.....	8 31+0 13L	8 05+0 18u	8 07+1 03u	7 58+0 02P	7 58+0 02P	B
91	13	11 52+0 28L	12 10+0 25L	.....	.....	.....	11 49+0 33L	.....	.....	..
92	14	18 23+0 03v	.....	.....	.....	.....	.....	.....	.....	..
93	16	.....	13 23+0 13L	.....	.....	.....	.....	.....	.....	..
94	18	.....	.....	.....	.....	.....	19 32+0 15L	.....	.....	..
95	18	22 28+0 20u	.....	.....	.....	.....	.....	.....	.....	..
96	19	2 39+0 32L	3 05+0 13L	.....	.....	.....	2 37+0 39L	.....	.....	..
97	20	8 53+0 44u	8 51+0 41u	.....	.....	.....	9 04+0 48u	.....	8 53+0 13u	..
98	22	12 03+0 21L	.....	.....	.....	.....	.....	.....	.....	..
99	22	23 27+0 36r	.....	23 40+0 16L	.....	.....	23 34+0 39r	.....	.....	..
100	25	19 43+0 24r	.....	.....	.....	.....	19 50+0 14L	.....	19 43+0 02P	.
101	27	9 23+0 34r	9 48+0 17L	.....	.....	.....	9 27+0 35r	.....	.....	.
102	28	10 39+0 04P	.....	.....	.....	.....	.....	10 39+0 05P	10 39+0 05P	.
103	29	12 00+0 45u	12 05+0 35u	.....	.....	.....	12 39+0 41L	.....	.....	.
104	30	1 46+1 12u	.....	.....	.....	.....	2 39+0 30L	.....	.....	.
105	30	6 50+0 0.6v*	.....	.....	.....	.....	.....	.....	6 50+0 0.8v	.

CORRELATION OF EARTHQUAKES
April, 1942

N O T E S

A :	Ottawa	Δ = 13,350 km.	H = $15^h40^m.4$ U.T.
	Victoria	Δ = 11,000 km.	H = 15 40.3 U.T.
	Toronto	Δ = 13,500 km.	H = 15 40.4 U.T.
	Seven Falls	Δ = 13,350 km.	H = 15 40.4 U.T.
	Shawinigan Falls	Δ = 13,350 km.	H = 15 40.4 U.T.
B :	Ottawa	Δ = 7,920 km.	H = $7^h46^m.3$ U.T.
C :	Ottawa	Δ = 3,680 km.	H = $9^h16^m.7$ U.T.

Dominion Observatory,
Ottawa, Canada,
May 21, 1942.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN
May
1942

°°°°

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

ϕ = 45°23'38" N. λ = 75°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

ϕ = 44°38' N. λ = 63°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

ϕ = 47°07!4 N. λ = 70°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

ϕ = 48°31'14" N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33'.1 N. λ = 72°45'.8 W. h = 60m. 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 15 g.

SASKATOON

University of Saskatchewan

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

TORONTO

ϕ = 43°40' N. λ = 79°24' W. h = 111m.
Time correction from radio time signals
Foundation: sand and clay
Instrument: Milne-Shaw NS component, designated 18, photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

KIRKLAND LAKE

Lake Shore Mines

ϕ = 48°09' N. λ = 80°03' W. h = 320m.
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_o	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			
18 (Toronto)	10.0	165	20:1	20 mm.	
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)	9.0	72	Aper.		
SE (Saskatoon)	9.0	56	"		
KL (Kirkland Lake)	1/30	$2X10^4$	at 30	cycles	

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM May 1, 1942 to May 14, 1942 No. 16

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
106 May 2	e_Z	20 29 56		
	L	20 39		
	F	20 50		
		Ottawa		
107 May 2	e_Z	21 52 46		
	e	22 02		
	L	22 07		
	F	22 18		
		Ottawa		
111 May 6	e_Z	22 57.3		
	e	23 02.8		
	L	23 05		
	F	23 48		
		Seven Falls		
	e	23 03 06		
	L	23 06		
	F	23 41		
		Victoria		
119 May 13	e_E	20 53 17		
	e	20 55 26		
	L	21 13		
	F	21 42		
		Ottawa		
120 May 14	H	2 13.4	4980	USCGS. gives:-
	iP	2 21 40		ϕ = 1° S.
	PPP	2 23 35		λ = 79° W.
	iS	2 28 23		
	i_N	2 28 40		
	SS	2 31 00		
	SSS	2 32 10		
	L	2 35		
	F	7 06		
		Victoria		
	H	2 13.6	6640	
	P	2 23 40		
	iS	2 31 57		
	eL	2 40		
	F	6 55		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 14, 1942 to May 14, 1942 No. 17

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Toronto		
120 May 14 (Cont'd)	H	2 13.8	4660	
	P	2 21 38		
	PPP	2 23 38		
	S	2 28 04		
	L	2 35		
	F	6 00 ca.		
		Saskatoon		
	H	2 13.7	6100	
	P	2 23 12		
	PP	2 25.3		
	iS	2 30 58		
	SSS	2 36		
	L	2 40		
	F	5 30		
		Halifax		
	H	2 13.6	5080	
	P	2 21 55		
	PPP	2 23.8		
	S	2 28 44		
	SS	2 31.8		
	SSS	2 32.6		
	L	2 37		
	F	5 59		
		Seven Falls		
	H	2 13.5	5240	
	P	2 22 01		
	PP	2 23 45		
	PPP	2 24 19		
	iS	2 28 59		
	SS	2 32.0		
	L	2 36		
	F	7 28		
		Shawinigan Falls		
	H	2 13.5	5170	
	P	2 21 57		
	S	2 28.8		
	SS	2 32		
	L	2 37		
	F	5 13		
		Ottawa		USCGS. gives:-
122 May 14	e_Z	8 47 10		ϕ = 1°.5 N.
	e_N	8 49.1		λ = 81°.5 W.
	e_E	8 53 52		
	e_E	8 57 07		
	L	9 01		
	F	9 36		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 14, 1942 to May 15, 1942 No. 18

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
122	e	8 49.1		
May	e	8 57 26		
14	L	9 10		
(Cont'd)	F	9 39		
		Seven Falls		
	e	8 54 30		
	e	8 57 28		
	L	8 59		
	F	9 33		
		Ottawa		
124	e_Z	15 54 42		
May	e_Z	15 55 01		
14	L	16 02		
	F	16 25		
		Ottawa		
125	e_Z	2 58 13		
May	L	3 03		
15	F	3 27		
		Ottawa		
127	H	10 50.9	4820	
May	P	10 58 55		
15	PP_N	11 00 40		
	S	11 05 30		
	SS_E	11 08 50		
	SSS_N	11 09.5		
	L	11 13		
	F	11 49		
		Victoria		
	e	11 09 12		
	L	11 21		
	F	11 50		
		Seven Falls		
	H	10 50.9	5110	
	P	10 59 14		
	S	11 06 05		
	L	11 10		
	F	12 07		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM May 15, 1942 to May 17, 1942 No. 19

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
128 May 15	H	11 51.6	4280	
	P	11 59 37		
	PPP	12 01 26		
	S	12 06 12		
	e_E	12 09 34		
	L	12 14		
	F	12 55+		
		Victoria		
	H	11 51.7	6550	
	P	12 01 41		
	S	12 09 53		
	e	12 11 24		
	L	12 18		
	F	13 37		
		Saskatoon		
	e	12 08 52		
	L	12 21		
	F	12 39		
		Seven Falls		
	H	11 51.7	5050	
	P	12 00.0		
	S	12 06 47		
	L	12 11		
	F	13 14		
		Ottawa		
133 May 16	e_Z	19 39 40		
	L	19 48		
	F	20 12		
		Ottawa		
134 May 17	H	15 14.6	4790	
	P	15 22 36		
	PP_N	15 24 10		
	PPP_N	15 24 48		
	iS_E	15 29 09		
	iE	15 32 30		
	L	15 36		
	F	17 04		
		Victoria		
	H	15 14.6	6635	
	P	15 24.6		
	S	15 32 50		
	e_E	15 34.2		
	L	15 45		
	F	16 51		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 17, 1942 to May 20, 1942 No. 20

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Toronto		
134 May 17 (Cont'd)	H	15 14.4	4850	
	P	15 22 28		
	S	15 29.1		
	L	15 36		
	F	16 10		
		Saskatoon		
	e	15 31 46		
	L	15 38		
	F	16 02		
		Halifax		
	e	15 22.9		
	L	15 29		
	F	16. 02		
		Seven Falls		
	e	15 22.1		
	i	15 29 40		
	L	15 39		
	F	17 37		
		Ottawa		
135 May 19	e_Z	11 55 44		
	L	12 09		
	F	12 16		
		Shawinigan Falls		
	e	11 55 48		
	L	12 10		
	F	12 14		
		Ottawa		
138 May 20	H	12 19.3	90	
	P_1	12 19 37		
	S_1	12 19 48		
	F	12 24		
		Seven Falls		
	H	12 19.4	305	
	P_1	12 20 04		
	S_1	12 20 39.5		
	F	12 22		
		Shawinigan Falls		
	H	12 19.4	150	
	P_1	12 19 52.5		
	S_1	12 20 09.5		
	F	12 23		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM May 20, 1942 to May 24, 1942 No. 21

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
143 May 22	H	10 30.7	4565	
	P_Z	10 38 24		
	S	10 44 45		
	SSS_N	10 48.0		
	L	10 51		
	F	11 12		
		Ottawa		
146 May 23	e_Z	13 08 16		
	L	13 36		
	F	15 09		
		Victoria		
	e	13 12 57		
	L	13 34		
	F	14 03		
		Seven Falls		
	e	13 21.3		
	L	13 45		
	F	15 17		
		Ottawa		
149 May 24	e	3 45.6		
	e_N	4 05 32		
	L	4 31		
	F	5 32		
		Victoria		
	H	3 33.9	8890	
	P	3 46.3		
	S	3 56.4		
	SS	4 02.3		
	L	4 27		
	F	5 04		
		Seven Falls		
	e	3 55.3		
	e	4 03.3		
	L	4 19		
	F	5 49		
		Ottawa		
150 May 24	H	7 15.1	170	
	P_2	7 15 39.5		
	S_2	7 15 59.5		
	e	7 16 05		
	F	7 17.5		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM May 24, 1942 to May 28, 1942 No. 22

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
150 May 24 (Cont'd)	H	7 15.1	220	
	P_1	7 15 49		
	S_1	7 16 15		
	F	7 18		
		Ottawa		
151 May 24	H	11 33.9	170	
	P_2	11 34 23		
	S_2	11 34 43		
	e	11 34 49		
	F	11 37		
		Seven Falls		
	i	11 35 31		
	e	11 35 36		
	F	11 37		
		Shawinigan Falls		
	H	11 33.9	220	
	P_1	11 34 32.5		
	S_1	11 34 58.5		
	F	11 38		
		Ottawa		
156 May 27	e_Z	6 50.7		
	e_E	6 55		
	e_N	7 00		
	e	7 02		
	e	7 09		
	L	7 35		
	F	9 19		
		Victoria		
	e	6 55 54		
	L	7 17		
	F	8 53		
		Seven Falls		
	e	6 52.9		
	e	7 02.4		
	e	7 09.4		
	L	7 32		
	F	9 33		
		Ottawa		
157 May 28	e_Z	0 47.1		
	L	0 59		
	F	1 10		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM May 28, 1942 to May 28, 1942 No. 23

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
158 May 28	H	1 01.6	15,000	
	P'	1 20 56		
	e_Z	1 21 28		
	PP	1 23 17		
	SKP	1 24 13		
	e	1 25.0		
	e_E	1 28.8		
	PS	1 33		
	PPS	1 35.1		
	SS	1 41		
	L	2 06		
	F	3 45		
		Victoria		
	H	1 01.7	11,780	
	P	1 15 58		
	PP	1 20 12		
	SKKS	1 27 14		
	PS	1 29 17		
	PPS	1 30 05		
	SS	1 35.2		
	L	1 44		
	F	3 59		
		Toronto		
	e	1 23.3		
	i	1 24 22		
	e	1 33.5		
	L	2 06		
	F	3 00		
		Saskatoon		
	e	1 20 46		
	e	1 30.7		
	F	2 00 ca		
		Halifax		
	e	1 21.0		
	e_N	1 23 35		
	e	1 24 32		
	e	1 53		
	L	2 07		
	F	2 27		
		Seven Falls		
	e	1 20 58		
	e	1 23 09		
	i	1 24 22		
	e	1 40		
	L	1 57		
	F	3 50		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM May 28, 1942 to May 31, 1942 No. 24

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
158 May 28 (Cont'd)	e	1 20 57		
	e	1 23.1		
	i	1 24 22		
	e	1 25.0		
	F	1 45		
		Ottawa		
161 May 29	H	5 32.2	4580	
	P	5 39 56		
	S	5 46 18		
	SS_N	5 49.3		
	eL	5 51		
	F	6 19		
		Seven Falls		
	e	5 45.0		
	L	5 50		
	F	6 19		
		Ottawa		
162 May 29	H	14 28.4	185	
	P_1	14 28 57		
	S_1	14 29 19		
	L?	14 29 35		
	F	14 30		
		Ottawa		
163 May 30	P	7 26 42		
	L	7 37		
	F	8 20		
		Victoria		
	e	7 30.5		
	L	7 33		
	F	8 23		
		Saskatoon		
	e	7 35.0		
	L	7 37		
	F	7 49		
166 May 31		Ottawa		
	H	2 42.9	4560	
	P_Z	2 50 39		
	S	2 57.0		
	L	3 04		
	F	3 39		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM May 31, 1942 to May 31, 1942 No. 25

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
166	e	3 01		
May	L	3 05		
31	F	3 34		
		Ottawa		
167	H	5 20.9	6380	
May	PZ	5 30 38		
31	S	5 38 40		
	L	5 52		
	F	6 27		
		Victoria		
	e	5 28		
	e	5 32 02		
	L	5 35		
	F	6 50		
		Seven Falls		
	e	5 38 59		
	L	5 51		
	F	6 50		
		Victoria		
169	e	13 04		
May	e	13 10.1		
31	L	13 24		
	F	14 22		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month May, 1942

No.	Date	Ottawa	Victoria	Toronto	Saskatoon	Halifax	Seven Falls		Shawinigan	**
							M. S.	W. A.		
106	2	20 30+0 20u	.....	.....	.....	.....	20 42+0 07L	.....	.....	..
107	2	21 53+0 25u	22 12+0 09L	.....	.....	.....	22 07+0 05L	.....	.....	..
108	3	5 26+0 01P	.....	.....	.....	.....	.....	.....	.....	..
109	6	.....	8 15+0 14L	.....	.....	.....	.....	.....	.....	..
110	6	.....	.....	.....	.....	.....	21 34+0 17L	.....	.....	..
111	6	22 57+0 51u	23 21+0 27L	.....	.....	.....	23 03+0 38u	.....	.....	..
112	7	.....	3 22+0 05L	.....	.....	.....	.....	.....	.....	..
113	7	20 15+0 0.5P*	.....	.....	.....	.....	.....	.....	.....	..
114	9	4 48+0 01P	.....	.....	.....	.....	.....	.....	.....	..
115	9	.....	.....	.....	.....	.....	.....	4 48+0 0.5P	.....	..
116	10	.....	.....	.....	.....	.....	12 41+0 22L	.....	.....	..
117	11	.....	18 32+0 15L	.....	.....	.....	.....	.....	.....	..
118	11	23 44+0 01P	.....	.....	.....	.....	.....	.....	.....	..
119	13	21 23+0 45L	20 53+0 49u	.....	.....	.....	.....	.....	.....	..
120	14	2 22+4 44R	2 24+4 31U	2 22+3 38R	2 23+3 07U	2 22+3 37U	2 22+5 06U	2 22+3 00U	2 22+2 51U	A
121	14	3 03+0 06P	.....	.....	.....	.....	.....	3 03+0 04P	3 03+0 06P	..
122	14	8 47+0 49u	8 49+0 50u	.....	.....	.....	8 54+0 39u	.....	.....	..
123	14	10 50+0 07L	.....	.....	.....	.....	.....	.....	.....	..
124	14	15 55+0 30u	16 22+0 13L	.....	.....	.....	16 06+0 18L	.....	.....	..
125	15	2 58+0 29u	2 59+0 12L	.....	.....	.....	3 02+0 33L	.....	.....	..
126	15	.....	3 19+0 20L	.....	.....	.....	.....	.....	.....	..
127	15	10 59+0 50r	11 09+0 41u	.....	.....	.....	11 06+1 01u	10 59+0 02P	10 59+0 03P	E
128	15	12 00+0 55r	12 02+1 35u	.....	12 09+0 30u	.....	12 07+1 07u	12 00+0 12P	12 00+0 03P	C
129	15	17 52+0 0.2P*	.....	.....	.....	.....	.....	.....	.....	..
130	15	18 01+0 0.2P*	.....	.....	.....	.....	.....	.....	.....	..
131	15	18 20+0 03P*	18 43+0 16L	.....	.....	.....	18 27+0 22L	.....	.....	..
132	16	8 39+0 01P*	.....	.....	.....	.....	.....	.....	.....	..
133	16	19 40+0 32u	19 36+0 47L	.....	.....	.....	.....	.....	.....	..
134	17	15 23+1 41r	15 25+1 26u	15 22+0 48r	15 32+0 30u	15 23+0 39u	15 22+2 15u	15 30+0 14P	15 23+0 25P	E
135	19	11 56+0 20r	11 52+0 13L	.....	.....	.....	.....	.....	11 56+0 18r	..
136	20	11 10+0 05L	.....	.....	.....	.....	.....	.....	11 11+0 03L	..
137	20	11 30+0 03L	.....	.....	.....	.....	.....	.....	11 30+0 02L	..
138	20	12 20+0 03d	.....	.....	.....	.....	.....	12 20+0 02v	12 20+0 03v	F

EARTHQUAKE CORRELATION TABLE

Month May, 1942

No.	Date	Ottawa	Victoria	Toronto	Saskatoon	Halifax	Seven Falls		Shawinigan	**
							M. S.	W. A.		
139	20	.....	.....	.....	.....	.....	12 50+0 12L	.....	.....	..
140	20	18 07+0 19L	.....	.....	.....	.....	18 08+0 33L	.....	.....	..
141	21	0 21+0 01P	.....	.....	.....	.....	.....	.....	.....	..
142	21	3 54+0 01P	.....	.....	.....	.....	.....	.....	.....	..
143	22	10 38+0 34r	.....	.....	.....	.....	10 45+0 29L	.....	10 39+0 06P	G
144	22	19 40+0 50L	19 31+1 14L	.....	.....	.....	19 45+0 33L	.....	.....	..
145	23	4 18+1 05L	4 01+0 41L	.....	.....	.....	4 21+1 12L	.....	.....	..
146	23	13 08+2 01u	13 13+0 50u	.....	.....	.....	13 21+1 56u	.....	.....	..
147	23	16 05+0 08L	15 56+0 09L	.....	.....	.....	16 07+0 07L	.....	.....	..
148	23	.....	.....	.....	.....	.....	20 56+0 10L	.....	.....	..
149	24	3 46+1 46u	3 46+1 18u	.....	.....	.....	3 55+1 54u	.....	.....	J
150	24	7 16+0 1.5v	.....	.....	.....	.....	.....	.....	7 16+0 02v	K
151	24	11 34+0 02v	.....	.....	.....	.....	.....	11 35+0 1.5v	11 35+0 03v	N
152	24	14 55+0 01P*	.....	.....	.....	.....	.....	.....	.....	..
153	24	16 58+0 0.5P*	.....	.....	.....	.....	17 05+0 18L	.....	.....	..
154	24	22 18+0 19L	.....	.....	.....	.....	22 13+0 34L	.....	.....	..
155	26	.....	.....	.....	.....	.....	14 10+0 04L	.....	.....	..
156	27	6 51+2 28u	6 56+1 57u	7 25+0 54L	7 26+0 33L	7 39+0 39L	6 53+2 40u	.....	.....	..
157	28	0 47+0 23u	0 41+0 14L	.....	.....	.....	.....	.....	.....	..
158	28	1 21+2 24u	1 16+2 43u	1 23+1 37u	1 21+0 39u	1 21+1 06u	1 23+2 29u	1 21+0 25u	1 21+0 24u	Q
159	28	.....	.....	.....	.....	.....	.....	3 29+0 01P	3 29+0 02P	..
160	28	.....	.....	.....	.....	.....	16 09+0 08L	.....	.....	..
161	29	5 40+0 39r	6 07+0 17L	.....	.....	5 49+0 03L	5 45+0 34r	.....	5 40+0 02P	R
162	29	14 29+0 01v	.....	.....	.....	.....	.....	.....	.....	S
163	30	7 27+0 53r	7 30+0 53u	7 35+0 13L	7 35+0 14r	7 42+0 13L	7 37+0 38L	7 39+0 10L	7 38+0 12L	..
164	30	8 53+0 10L	.....	.....	.....	.....	8 57+0 09L	.....	.....	..
165	30	.....	13 56+0 06L	.....	.....	.....	.....	.....	.....	..
166	31	2 51+0 48r	3 01+0 33u	3 08+0 12L	.....	3 07+0 07L	3 00+0 31L	.....	2 51+0 03P	T
167	31	5 31+0 56u	5 28+1 22r	5 53+0 23L	.....	.....	5 39+1 11u	.....	5 31+0 03P	V
168	31	.....	12 04+0 06L	.....	.....	.....	.....	.....	.....	..
169	31	13 50+0 31L	13 04+1 18u	.....	.....	.....	13 41+0 15L	.....	.....	..

CORRELATION OF EARTHQUAKES

May, 1942

N O T E S

A :	Ottawa	Δ = 4930 km.	H = $2^h13^m.4$ U.T.
	Victoria	Δ = 6640 km.	H = 2 13.6 U.T.
	Toronto	Δ = 4660 km.	H = 2 13.8 U.T.
	Saskatoon	Δ = 6100 km.	H = 2 13.7 U.T.
	Halifax	Δ = 5080 km.	H = 2 13.6 U.T.
	Seven Falls	Δ = 5240 km.	H = 2 13.5 U.T.
	Shawinigan Falls	Δ = 5170 km.	H = 2 13.5 U.T.
B :	Ottawa	Δ = 4820 km.	H = $10^h50^m.9$ U.T.
	Seven Falls	Δ = 5110 km.	H = 10 50.9 U.T.
C :	Ottawa	Δ = 4820 km.	H = $11^h51^m.6$ U.T.
	Victoria	Δ = 6550 km.	H = 11 51.7 U.T.
	Seven Falls	Δ = 5050 km.	H = 11 51.7 U.T.
E :	Ottawa	Δ = 4790 km.	H = $15^h14^m.6$ U.T.
	Victoria	Δ = 6635 km.	H = 15 14.6 U.T.
	Toronto	Δ = 4850 km.	H = 15 14.4 U.T.
F :	Ottawa	Δ = 90 km.	H = $12^h19^m.3$ U.T.
	Seven Falls	Δ = 305 km.	H = 12 19.4 U.T.
	Shawinigan Falls	Δ = 150 km.	H = 12 19.4 U.T.
G :	Ottawa	Δ = 4565 km.	H = $10^h30^m.7$ U.T.
J :	Victoria	Δ = 8890 km.	H = $3^h33^m.9$ U.T.
K :	Ottawa	Δ = 170 km.	H = $7^h15^m.1$ U.T.
	Shawinigan Falls	Δ = 220 km.	H = 7 15.1 U.T.
N :	Ottawa	Δ = 170 km.	H = $11^h33^m.9$ U.T.
	Shawinigan Falls	Δ = 220 km.	H = 11 33.9 U.T.
Q :	Ottawa	Δ = 15,000 km.	H = $1^h01^m.6$ U.T.
	Victoria	Δ = 11,780 km.	H = 1 01.7 U.T.
R :	Ottawa	Δ = 4580 km.	H = $5^h32^m.2$ U.T.
S :	Ottawa	Δ = 185 km.	H = $14^h28^m.4$ U.T.
T :	Ottawa	Δ = 4560 km.	H = $2^h42^m.9$ U.T.
V :	Ottawa	Δ = 6380 km.	H = $5^h20^m.9$ U.T.

Dominion Observatory,
Ottawa, Canada,
July 18, 1942.

SEISMOLOGICAL BULLETINS RECEIVED
May and June, 1942

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

STATIONS	BULLETINS	RECEIVED	
Florissant	July to October, 1941	May	6
Saint Louis and Auxiliary Stations	Supplement to preliminary of November 6, 1941	"	6
United States Coast and Geodetic Survey	March and April, 1940	"	7
Perth	March, 1942	"	15
Ksara	October to December, 1941	"	18
Brisbane	March, 1942	"	20
New Zealand Stations	March, 1942	"	22
Santa Clara	February and March, 1942	"	26
Zurich	February and March, 1942	June	9
Pasadena	Local Shocks December to March, 1942	"	9
Pasadena	Local Shocks February to April, 1942	"	18
New Zealand Stations	Distant and Local Earthquakes for April, 1942	"	22

DOMINION OBSERVATORY,
OTTAWA - CANADA.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN
June
1942

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DOMINION OBSERVATORY
OTTAWA - CANADA

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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

ϕ = 45°23'38" N. λ = 75°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

ϕ = 44°38' N. λ = 63°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

ϕ = 47°07!4 N. λ = 70°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

ϕ = 48°31'14" N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33!1 N. λ = 72°45!8 W. h = 60m. 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 15 g.

SASKATOON

University of Saskatchewan

ϕ = 52°08' N. λ = 106°38' W. h = 515m.

Time correction from radio time signals

Foundation: clay and sand

Instruments: Mainka NS and EW components, designated SN and SE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

KIRKLAND LAKE

Lake Shore Mines

ϕ = 48°09' N. λ = 80°03' W. h = 320m.

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_o	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)	9.0	72	Aper.		
SE (Saskatoon)	9.0	56	"		
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, 1942 to June 7, 1942 No. 26

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
171 June 2	e	1 00.2		
	e	1 07.1		
	eL	1 25		
	F	2 06		
		Victoria		
	e_N	0 51.3		
	e_E	0 54.5		
	L	1 42		
	F	2 42		
		Seven Falls		
	e	0 59.6		
	e	1 06.6		
	L	1 21		
	F	2 47		
		Ottawa		
174 June 6	eZ	10 47 42		
	L	10 54		
	F	11 08		
		Ottawa		
175 June 6	eZ	15 12 13		
	e	15 23.8		
	e	15 31		
	eL	15 50		
	F	16 22		
		Victoria		
	e	(15 12)		
	L	(15 16)		
	F	(16 03)		
		Seven Falls		
	e	15 16.2		
	e	15 24.4		
	L	15 42		
	F	16 20		
		Ottawa		
177 June 7	H	10 48.2	5,000	
	P	10 56 26		
	S	11 03 10		
	SS	11 06.4		
	F	11 23		
		Victoria		
	e	10 58.4		
	e	11 06.7		
	L	11 22		
	F	11 38		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 7, 1942 to June 10, 1942 No. 27

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
180 June 9	H	9 26.0	3020	
	P_Z	9 31 47		
	S_Z	9 36 32		
	L	9 39 26		
	F	9 47		
		Seven Falls		
	e	9 36.7		
	L	9 38 29		
	F	9 45		
		Shawinigan Falls		
	e	9 31 37		
	e	9 36.6		
	L	9 38 49		
	F	9 51		
		Ottawa		
181 June 9	e_Z	11 13 48		
	e	11 19.6		
	L	11 26		
	F	11 53		
		Saskatoon		
	e	11 13.5		
	L	11 16		
	F	11 30		
		Shawinigan Falls		
	e	11 14.6		
	L	11 27		
	F	11 39		
		Ottawa		
182 June 10	e_Z	1 18 55		
	e_N	1 27 52		
	e_E	1 37		
	L	1 43		
	F	2 09		
		Seven Falls		
	e	1 27.9		
	L	1 42		
	F	2 11		
		Ottawa		
183 June 10	e_Z	10 40 11		
	e	10 42		
	e_N	10 48		
	e_E	10 59		
	L	11 04		
	F	12 30		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 10, 1942 to June 12, 1942 No. 28

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
183 June 10 (Cont'd)	e_N	10 46 36		
	e_E	10 49 11		
	L	11 02		
	F	11 59		
		Seven Falls		
	e	10 48.9		
	L	11 16		
	F	12 28		
		Ottawa		
184 June 10	e_Z	14 09 36		
	L	15 05		
	F	15 50		
		Ottawa		
190 June 12	e_Z	2 09 02		
	e	2 19.2		
	e	2 21 42		
	e	2 25.0		
	F	2 42		
		Victoria		
	e	2 05.1		
	L	2 08		
	F	2 42		
		Seven Falls		
	e	2 19.8		
	eL	2 23		
	F	2 44		
		Shawinigan Falls		
	e	2 18.4		
	L	2 22		
	F	2 32		
		Ottawa		
191 June 12	H	10 21.7	5180	USCGS. gives:-
	P	10 30 09		ϕ = 2°.5 S.
	S	10 37 04		λ = 77° W.
	SSS	10 41 00		
	eL	10 45		
	F	11 41		
		Victoria		
	H	10 21.7	7100	
	P	10 32.1		
	S	10 40 51		
	L	10 52		
	F	11 55		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 12, 1942 to June 15, 1942 No. 29

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
191 June 12 (Cont'd)	e	10 37 30		
	L	10 43		
	F	11 35		
		Shawinigan Falls		
	e	10 30 20		
	e	10 37.6		
	F	10 40		
		Ottawa		
193 June 13	e_N	20 06.5		
	e_E	20 09.5		
	L	20 13		
	F	20 38		
		Victoria		
	e	19 37.2		
	L	19 55		
	F	20 31		
		Ottawa		
194 June 14	e_Z	3 28 21		
	e	3 34 50		
	e	3 38 18		
	L	3 58		
	F	4 50		
		Victoria		
	H	3 10.1	8500	
	P	3 21 51		
	S	3 31 40		
	L	3 42		
	F	4 53		
		Seven Falls		
	e	3 35.0		
	e	3 38.4		
	L	3 59		
	F	5 22		
		Ottawa		
195 June 14	e_Z	14 49 47		
	L	15 40		
	F	16 00		
		Seven Falls		
199 June 15	e	22 06 53		Local origin - probably within 50 km. of Seven Falls.
	e	22 07 00		
	F	22 07.4		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 15, 1942 to June 16, 1942 No. 30

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
200 June 16	e_Z	4 59 13		
	eL	5 24		
	F	5 31		
		Ottawa		
201 June 16	e_Z	5 53.8		
	e_N	6 03		
	L	6 15		
	F	6 39		
		Victoria		
	e	6 06.1		
	L	6 26		
	F	6 47		
		Ottawa		
202 June 16	e_Z	7 51 09		
	e_N	7 53.0		
	e_N	7 57.9		
	e	8 01		
	L	8 05		
	F	8 23		
		Victoria		
	e	7 53.1		
	L	8 17		
	F	8 34		
		Ottawa		
203 June 16	H	21 05.4	4880	USCGS. gives:-
	P	21 13 30		ϕ = 0° N.
	PPP	21 15 20		λ = 81° W.
	i_Z	21 17 14		
	S	21 20 08		
	SSS	21 23.8		
	eL	21 26		
	F	22 12		
		Victoria		
	H	21 05.3	6690	
	P	21 15 23		
	S	21 23 43		
	L	21 36		
	F	22 17		
		Seven Falls		
	e	21 17.1		
	e	21 20 54		
	L	21 24		
	F	22 21		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 16, 1942 to June 19, 1942 No. 31

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
205 June 18	H	9 31 ca.	13,000ca	
	P_Z	9 49 46		
	PP	9 50 50		
	SKS	9 56 38		
	PS	10 00 32		
	SS	10 06.1		
	SSS	10 11.4		
	e	10 20		
	L	10 26		
	F	12 38		
		Victoria		
	H	9 31.0	9610	
	P	9 43 42		
	PP_E	9 47 26		
	S	9 54 20		
	e_N	10 06 54		
	L	10 12		
	F	12 27		
		Saskatoon		
	e_E	9 48 17		
	e_N	9 56.4		
	L	10 13		
	F	10 54		
		Halifax		
	e	9 51.8		
	L	10 25		
	F	11 22		
		Seven Falls		
	e	9 51.2		
	e	9 58.2		
	e	10 06 40		
	L	10 18		
	F	12 18		
		Shawinigan Falls		
	e	9 50 50		
	e	10 00.6		
	L	10 26		
	F	10 58		
		Ottawa		
206 June 19	e_Z	19 49 48		
	e	19 59 54		
	eL	20 13		
	F	20 55		
		Victoria		
	e	19 55.1		
	L	20 13		
	F	20 36		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 19, 1942 to June 22, 1942 No. 32

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
206 June 19 (Cont'd)	e	20 00.3		
	L	20 18		
	F	21 15		
		Ottawa		
207 June 20	H	10 02.3	3540	USCGS. gives:-
	P	10 08 45		ϕ = 17°.7 N.
	i	10 09 05		λ = 101°.0 W.
	PPP	10 10 02		Depth 50 km. ca.
	S	10 14 03		
	e	10 14 32		
	SS	10 15 50		
	eL	10 20		
	F	11 00		
		Victoria		
	H	10 02.4	3570	
	P	10 08 55		
	S	10 14.2		
	e	10 17 24		
	L	10 21		
	F	11 05		
		Saskatoon		
	e	10 09.7		
	e	10 17.2		
	L	10 20		
	F	10 32		
		Seven Falls		
	H	10 02.5	3860	
	P	10 09 21		
	e	10 09 39		
	PPP	10 10 36		
	S	10 15 00		
	eL	10 17		
	F	11 06		
		Shawinigan Falls		
	e	10 09 07		
	e	10 10.4		
	e	10 18.0		
	L	10 22		
	F	10 35		
		Ottawa		
209 June 22	e_Z	20 01 34		
	e_N	20 07		
	e_E	20 10.5		
	L	20 14		
	F	20 46		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 22, 1942 to June 24, 1942 No. 33

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
211 June 23	e_Z	9 02 48		
	e_N	9 08		
	L	9 11		
	F	9 26		
		Ottawa		
213 June 24	H	11 13.4 ca.	14,450ca.	
	P'_Z	11 35 35		
	PP	11 37 45		
	SKP	11 39 00		
	S	11 46		
	SS	11 55 10		
	L	12 12		
	F	14 40		
		Victoria		
	H	11 13.4 ca.	13,100ca.	
	SKP	11 34 55		
	S	11 41 13		
	PS	11 42 29		
	SS	11 49 47		
	SSS	11 54.4		
	L	12 04		
	F	14 35		
		Halifax		
	e	11 39 24		
	e	11 57.1		
	L	12 20		
	F	13 34		
		Seven Falls		
	e	11 35 48		
	e	11 38 12		
	e	11 39 11		
	e	11 56.5		
	L	12 13		
	F	14 52		
		Shawinigan Falls		
	e	11 36		
	e	11 39.1		
	L	12 23		
	F	12 36		
		Ottawa		
214 June 24	e_Z	23 38 44		
	L	23 52		
	F	23 58		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM June 24, 1942 to June 30, 1942 No. 34

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
223 June 29	H	6 26.7	8500	USCGS. gives:-
	P	6 38 29		ϕ = 34°5 S.
	PP	6 41.2		λ = 70°5 W.
	S	6 48 18		
	SS_E	6 53.0		
	SSS_N	6 57.5		
	eL	7 02		
	F	7 36		
		Victoria		
	e_N	6 39.9		
	e_E	6 40 28		
	e	6 50 17		
	L	7 09		
	F	7 37		
		Seven Falls		
	H	6 26.8	8560	
	P	6 38 42		
	S	6 48 34		
	SS	6 53.7		
	F	7 55		
		Shawinigan Falls		
	H	6 26.8	8520	
	P	6 38 35		
	S	6 48 25		
	F	6 53		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month June, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
170	1	.....	.....	.....	.....	9 40+0 22L	.....	.....	..
171	2	1 00+1 06u	0 51+1 51u	.....	.....	1 00+1 47u	.....	.....	..
172	3	.....	6 04+0 09L	.....	.....	5 43+0 23L	.....	.....	..
173	4	.....	.....	.....	.....	.....	.....	10 11+0 03L	..
174	6	10 48+0 20u	11 46+0 07L	.....	.....	.....	.....	.....	..
175	6	15 12+1 10u	15 12+0 51u	.....	.....	15 16+1 04u	.....	.....	..
176	6	.....	.....	.....	.....	16 56+0 06L	.....	.....	..
177	7	10 56+0 27r	10 58+0 40u	.....	.....	11 04+0 27L	.....	.....	A
178	7	.....	13 25+0 10L	.....	.....	.....	.....	.....	..
179	7	.....	.....	.....	.....	16 29+0 04L	.....	.....	..
180	9	9 32+0 15r	9 43+0 05L	.....	9 39+0 02L	9 38+0 02L	9 37+0 08r	9 32+0 19r	B
181	9	11 14+0 39r	11 08+0 48L	11 14+0 16r	11 29+0 13L	11 27+0 30L	11 27+0 08L	11 15+0 25r	..
182	10	1 19+0 50u	1 22+0 30L	.....	.....	1 28+0 43u	.....	1 19+0 03P	..
183	10	10 40+1 50u	10 47+1 12u	.....	.....	10 49+1 39u	.....	.....	..
184	10	14 10+1 40u	14 55+0 11L	.....	.....	15 08+0 49L	.....	.....	..
185	11	.....	.....	.....	.....	11 28+0 17L	.....	.....	..
186	11	.....	.....	.....	.....	16 25+0 13L	.....	.....	..
187	11	.....	.....	.....	.....	17 07+0 30L	.....	.....	..
188	11	.....	.....	.....	.....	18 29+0 33L	.....	.....	..
189	11	.....	.....	.....	.....	19 23+0 03L	.....	.....	..
190	12	2 09+0 33r	2 05+0 37r	.....	2 25+0 09L	2 21+0 23r	2 20+0 11r	2 18+0 14r	..
191	12	10 30+1 11u	10 32+1 23u	.....	10 37+0 29L	10 37+0 58u	.....	10 30+0 10P	C
192	13	17 15+0 14L	.....	.....	.....	17 17+0 24L	.....	.....	..
193	13	20 06+0 32u	19 37+0 54u	.....	.....	20 16+0 48L	.....	.....	..
194	14	3 28+1 22u	3 22+1 31u	.....	4 10+0 08L	3 35+1 47u	.....	.....	E
195	14	14 50+1 10u	14 54+0 43L	.....	.....	15 26+0 41L	.....	.....	..
196	15	6 14+0 10L	6 29+0 08L	.....	.....	6 12+0 12L	.....	.....	..
197	15	14 05+0 03P	.....	.....	.....	.....	.....	.....	..
198	15	16 59+0 15L	16 53+0 18L	.....	.....	17 03+0 10L	.....	.....	..
199	15	.....	.....	.....	.....	22 07+0 0.1d	22 07+0 0.5d	.....	..
200	16	4 59+0 32u	.....	.....	.....	5 24+0 13L	.....	4 59+0 02P	..

EARTHQUAKE CORRELATION TABLE

Month June, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
201	16	5 54+0 45u	6 06+0 41u	.....	.....	6 16+0 22L	.....	.....	..
202	16	7 51+0 32u	7 53+0 41u	.....	.....	7 58+0 23L	.....	.....	..
203	16	21 13+0 59r	21 15+1 02u	.....	.....	21 17+1 04r	.....	21 14+0 03P	F
204	17	.....	.....	.....	.....	16 52+0 20L	.....	.....	..
205	18	9 50+2 48u	9 44+2 43u	9 48+1 06u	9 52+1 30u	9 51+2 27u	10 27+0 26L	9 51+1 07u	G
206	19	19 50+1 05u	19 55+0 41u	.....	.....	20 00+1 15u	.....	.....	..
207	20	10 09+0 51r	10 09+0 56r	10 10+0 22r	....	10 10+0 57r	10 09+0 26r	10 09+0 26r	J
208	21	.....	.....	.....	.....	.....	4 50+0 11P	4 50+0 13P	..
209	22	20 02+0 44u	20 21+0 22L	.....	.....	20 10+0 58L	.....	.....	..
210	23	7 26+0 10L	.....	.....	.....	.....	.....	.....	..
211	23	9 03+0 23u	.....	.....	.....	9 11+0 16L	.....	.....	..
212	24	.....	.....	.....	.....	9 21+0 22L	.....	.....	..
213	24	11 36+3 04U	11 35+3 00U	.....	11 39+1 55U	11 36+3 16U	11 38+1 50U	11 36+1 00U	K
214	24	23 39+0 19u	.....	.....	.....	.....	.....	.....	..
215	25	.....	.....	.....	.....	21 36+0 08L	.....	.....	..
216	26	5 30+0 04L	5 17+0 07L	.....	.....	5 31+0 05L	5 31+0 03L	.....	..
217	26	.....	11 19+0 09L	.....	.....	.....	.....	.....	..
218	27	1 31+0 03P*	.....	.....	.....	.....	.....	.....	..
219	27	2 57+0 06P*	.....	.....	.....	.....	.....	.....	..
220	27	.....	.....	.....	.....	15 37+0 14L	.....	.....	..
221	28	0 14+0 08P	0 34+0 09L	.....	.....	0 20+0 19L	.....	.....	..
222	28	.....	.....	.....	.....	16 17+0 16L	.....	.....	..
223	29	6 38+0 58u	6 40+0 57u	.....	.....	6 39+1 16u	6 39+0 14u	6 39+0 14u	N
224	29	17 43+0 02P	18 04+0 07L	.....	.....	17 55+0 17L	.....	.....	..
225	29	.....	.....	.....	.....	19 26+0 05L	.....	.....	..
226	30	.....	.....	.....	.....	6 10+0 24L	.....	.....	..
227	30	.....	.....	.....	.....	7 10+0 07L	.....	.....	..
228	30	.....	.....	.....	.....	8 22+0 26L	.....	.....	..
229	30	.....	.....	.....	.....	10 34+0 03L	.....	.....	..

CORRELATION OF EARTHQUAKES
June, 1942

N O T E S

A :	Ottawa	Δ = 5,000 km.	H = $10^h48^m.2$ U.T.
B :	Ottawa	Δ = 3,020 km.	H = $9^h26^m.0$ U.T.
C :	Ottawa	Δ = 5,180 km.	H = $10^h21^m.7$ U.T.
	Victoria	Δ = 7,100 km.	H = 10 21.7 U.T.
E :	Victoria	Δ = 8,500 km.	H = $3^h10^m.1$ U.T.
F :	Ottawa	Δ = 4,880 km.	H = $21^h05^m.4$ U.T.
	Victoria	Δ = 6,690 km.	H = 21 05.3 U.T.
G :	Ottawa	Δ = 13,000 km. ca.	H = 9^h31^m ca. U.T.
	Victoria	Δ = 9,610 km.	H = 9 31.0 U.T.
J :	Ottawa	Δ = 3,540 km.	H = $10^h02^m.3$ U.T.
	Victoria	Δ = 3,570 km.	H = 10 02.4 U.T.
	Seven Falls	Δ = 3,860 km.	H = 10 02.5 U.T.
K :	Ottawa	Δ = 14,450 km. ca.	H = $11^h13^m.4$ ca. U.T.
	Victoria	Δ = 13,100 km. ca.	H = 11 13.4 ca. U.T.
N :	Ottawa	Δ = 8,500 km.	H = $6^h26^m.7$ U.T.
	Seven Falls	Δ = 8,560 km.	H = 6 26.8 U.T.
	Shawinigan Falls	Δ = 8,520 km.	H = 6 26.8 U.T.

Dominion Observatory,
Ottawa, Canada,
October 14, 1942.

SEISMOLOGICAL BULLETINS RECEIVED

June and July, 1942

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

STATIONS	BULLETINS	RECEIVED
Zurich	February and March, 1942	June 9
Pasadena	Local Shocks December - March/42	" 9
Pasadena	Local Shocks February - April/42	" 18
New Zealand Stations	Distant and Local quakes April/42	" 22
United States Coast and Geodetic Survey	May and June, 1940	July 7
Brisbane	April, 1942	" 8
Pasadena and Auxiliary Stations	October to December, 1940	" 15
Saint Louis and Auxiliary Stations	Preliminary October 3 and Supplement to October; preliminary November 8 and 24th and Supplement to December/41	" 15
New Zealand Stations	May, 1942	" 20
Perth	April and May, 1942	" 27
Santa Clara	April to June, 1942	" 28
Zurich	April and May, 1942	" 31

Dominion Observatory,

Ottawa - Canada.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN
July
1942

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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

ϕ = 45°23'38" N. λ = 75°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

ϕ = 44°38' N. λ = 63°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

ϕ = 47°07!4 N. λ = 70°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

ϕ = 48°31'14" N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33'.1 N. λ = 72°45'.8 W, h = 60m. 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 15 g.

SASKATOON

University of Saskatchewan

ϕ = 52°08' N. λ = 106°38' W. h = 515m.

Time correction from radio time signals

Foundation: clay and sand

Instruments: Mainka NS and EW components, designated SN and SE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

KIRKLAND LAKE

Lake Shore Mines

ϕ = 48°09' N. λ = 80°03' W. h = 320m.

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_o	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)	9.0	72	Aper.		
SE (Saskatoon)	9.0	56	"		
KL (Kirkland Lake)	1/30	2×10^4	at 30	cycles	

NOTE: Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM July 1, 1942 to July 4, 1942 No. 35

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
233 July 3	e	3 14.5		
	L	3 38		
	F	4 37		
		Victoria		
	e	3 20		
	L	3 44		
	F	4 30		
		Seven Falls		
	e	3 15		
	L	3 32		
	F	4 37		
		Ottawa		
236 July 3	eZ	23 53 36		
	L	0 01		
	F	0 25		
		Ottawa		
237 July 4	H	1 53.2	4940	USCGS. gives:-
	P	2 01 21		ϕ = 0°.6 N.
	PP	2 03 08		λ = 80°.9 W.
	S	2 08 02		
	SS	2 11.6		
	L	2 15		
	F	3 01		
		Victoria		
	H	1 53.4	6560	
	P	2 03 24		
	S	2 11 36		
	L	2 25		
	F	3 02		
		Seven Falls		
	H	1 53.1	5280	
	P	2 01.7		
	S	2 08 40		
	L	2 12		
	F	3 15		
		Ottawa		
238 July 4	eZ	5 07 46		
	L	5 15		
	F	5 31		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM July 4, 1942 to July 5, 1942 No. 36

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
239 July 4	H	6 08.6	5000	USCGS. gives:-
	P	6 16 50		ϕ = 0°.7 N.
	S	6 23 34		λ = 80°.9 W.
	SSS	6 27.2		
	L	6 31		
	F	7 18		
		Victoria		
	H	6 08.7	6740	
	P	6 18 50		
	S	6 27 13		
	L	6 40		
	F	7 17		
		Seven Falls		
	H	6 08.9	5200	
	P	6 17 22		
	S	6 24.3		
	L	6 28		
	F	7 20		
		Ottawa		
242 July 4	H	18 50.4	6540	
	P	19 00 21		
	PPP	19 04.2		
	S	19 08 32		
	L	19 17		
	F	20 00		
		Seven Falls		
	e	19 04.5		
	L	19 19		
	F	20 23		
		Ottawa		
243 July 5	H	10 30.0	4830	USCGS. gives:-
	P	10 38 05		ϕ = 1°.4 N.
	PPP	10 40 04		λ = 80°.5 W.
	S	10 44 40		
	SS	10 46 40		
	L	10 50		
	F	11 13		
		Victoria		
	e	10 40 06		
	e	10 50.2		
	L	11 05		
	F	11 21		
		Ottawa		
245 July 5	e_Z	14 19 26		
	L	14 26		
	F	14 42		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM July 5, 1942 to July 8, 1942 No. 37

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
246 July 5	eZ	23 21 45		
	e	23 26.4		
	L	23 30		
	F	23 44		
		Ottawa		
249 July 7	e	(3 11.5)		
	e	(3 22)		
	L	(3 27)		
	F	(4 30)		
		Victoria		
	e	3 05 45		
	e	3 07 21		
	e	3 15 31		
	L	3 40		
	F	4 30		
		Seven Falls		
	e	3 13.7		
	e	3 18.0		
	e	3 22.2		
	L	3 31		
	F	5 25		
		Victoria		
250 July 7	H	12 37.8	6580	
	P	12 48 03		
	S	12 56 17		
	L	13 08		
	F	14 01		
		Seven Falls		
	H	12 37.9	5150	
	P	12 46.3		
	S	12 53 11		
	L	12 57		
	F	14 17		
		Ottawa		
251 July 8	H	6 55.8	7660	USCGS. gives:-
	iP	7 06 49		ϕ = 25°.5 S.
	i	7 06 53		λ = 79°.5 W.
	iS	7 15 58		
	i	7 16 50		
	SS	7 21.4		
	SSS	7 24		
	L	7 27		
	F	10 13		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM July 8, 1942 to July 8, 1942 No. 38

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
251 July 8 (Cont'd)	H	6 56.0	9335	
	P	7 08 27		
	S	7 18 53		
	SS	7 24		
	e	7 31.3		
	L	7 35		
	F	9 47		
		Seven Falls		
	H	6 55.9	7800	
	P	7 07 02		
	S	7 16 17		
	SS	7 24.2		
	L	7 27		
	F	10 26		
		Shawinigan Falls		
	H	6 55.7	7920	
	P	7 06 56		
	i	7 07 00		
	S	7 16.3		
	L	7 27		
	F	7 50		
		Ottawa		
253 July 8	e_Z	21 35 31		
	L	22 04		
	F	22 37		
		Ottawa		
254 July 8	H	22 31.0	4920	
	P	22 39 12		
	PPP	22 41 04		
	S	22 45 52		
	SS_N	22 48.5		
	SSS	22 49 30		
	L	22 52.5		
	F	23 45		
		Victoria		
	H	22 31.2	6635	
	P	22 41 11		
	S	22 49 28		
	L	23 04		
	F	23 51		
		Seven Falls		
	H	22 31.1	5155	
	P	22 39 33		
	S	22 46 26		
	SS	22 50.2		
	L	22 55		
	F	0 03		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM July 8, 1942 To July 12, 1942 No. 39

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
256 July 10	e	4 58 10		
	L	5 04		
	F	5 30		
		Victoria		
	e	5 00 17		
	L	5 25		
	F	5 39		
		Ottawa		
259 July 12	H	5 05.4	4920	USCGS. gives:-
	P	5 13 37		ϕ = 0°.8 N.
	e	5 15 28		λ = 80°.5 W.
	iS	5 20 17		
	SS_E	5 23 32		
	L	5 28		
	F	8 20		
		Victoria		
	H	5 05.5	6700	
	P	5 15 35		
	iS	5 23 56		
	e_N	5 25 25		
	L	5 34		
	F	8 03		
		Saskatoon		
	H	5 05.6	6150	
	P	5 15 07		
	S	5 22 56		
	L	5 35		
	F	5 53		
		Halifax		
	H	5 05.3	5080	
	P	5 13 46		
	S	5 20 35		
	SS	5 23 35		
	L	5 26		
	F	6 01		
		Seven Falls		
	H	5 05.5	5180	
	P	5 13 56		
	iS	5 20 51		
	SS	5 23 49		
	L	5 28		
	F	8 41		
		Shawinigan Falls		
	H	5 05.5	5100	
	P	5 13 50		
	PP	5 15.7		
	S	5 20.7		
	SS	5 23 44		
	F	5 42		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM July 12, 1942 to July 25, 1942 No. 40

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
260 July 13	e_Z	0 26 23		
	L	1 05		
	F	1 42		
		Victoria		
	e_E	0 31 42		
	L_E	0 53		
	F	1 13		
		Seven Falls		
	e	0 45.3		
	L	0 59		
	F	2 06		
		Ottawa		
264 July 21	H	8 44.3	6240	
	P	8 53 54		
	S	9 01.8		
	SSS	9 08		
	L	9 12		
	F	9 34		
		Victoria		
	H	8 44.1	8220	
	P	8 55.7		
	S	9 05 16		
	L	9 23		
	F	9 38		
		Seven Falls		
	H	8 44.2	6570	
	P	8 54.2		
	S	9 02 24		
	L	9 11		
	F	9 34		
		Victoria		
266 July 24	e	5 19.4		
	L	6 10		
	F	6 50		
		Victoria		
268 July 25	e_E	0 06.9		
	e_N	0 08.7		
	L	0 16		
	F	0 43		
		Ottawa		
269 July 25	e_Z	1 26 24		
	L	1 35		
	F	1 49		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM July 25, 1942 to July 29, 1942 No. 41

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
270 July 25	H	6 22.4	13,500ca.	
	P'_Z	6 41 20		
	PP	6 42 47		
	PPP	6 45 26		
	SKS_N	6 48 11		
	S_E	6 50.5		
	PS	6 52 20		
	SS	6 59 08		
	eL	7 20		
	F	8 28		
		Victoria		
	e	6 36.3		
	e	6 40.2		
	i	6 46 22		
	e	6 53.7		
	L	7 06		
	F	8 51		
		Seven Falls		
	e	6 42.9		
	e	6 50 29		
	e	6 58 51		
	L	7 19		
	F	8 36		
		Ottawa		
271 July 25	e_Z	15 28 28		
	e	15 36 08		
	e	15 38.3		
	L	15 46		
	F	16 07		
		Seven Falls		
	e	15 37		
	L	15 47		
	F	16 12		
		Ottawa		
273 July 29	H	22 53.2 ca.	13,350ca.	
	P	23 08 30		
	e	23 11.0		
	P'	23 11 58		
	S	23 21 06		
	PPS	23 24.0		
	SSS	23 34		
	L	23 45		
	F	1 55		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM July 29, 1942 to July 31, 1942 No. 42

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
273 July 29 (Cont'd)	H	22 53.5 ca.	8600ca.	
	P	23 03 24		
	PPP	23 07 46		
	PS	23 14 04		
	L	23 27		
	F	1 55		
		Seven Falls		
	H	22 53.2ca.	13,350ca.	
	P	23 08.5		
	e	23 11 00		
	i	23 12 00		
	SKS	23 18 46		
	SS	23 28.4		
	L	23 46		
	F	1 55		
		Shawinigan Falls		
	e	23 08 40		
	e	23 10 41		
	e	23 11 58		
	L	23 21		
	F	23 35		

W. H. Dopse.

EARTHQUAKE CORRELATION TABLE

Month July, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
230	1	.....	22 08+0 16L	.....	.....	.....	.....	.....	..
231	2	8 00+0 01P*	8 27+0 08L	.....	.....	.....	.....	.....	..
232	2	.....	14 30+0 03L	.....	.....	.....	.....	.....	..
233	3	3 14+1 23u	3 20+1 10u	.....	.....	3 15+1 22u	.....	.....	..
234	3	17 21+0 0.2P*	.....	.....	.....	.....	.....	.....	..
235	3	18 22+0 0.6P*	.....	.....	.....	.....	.....	.....	..
236	3	23 54+0 31u	0 04+0 31L	.....	.....	0 02+0 29L	.....	.....	..
237	4	2 01+1 00r	2 03+0 59u	.....	.....	2 02+1 13r	2 02+0 02P	2 02+0 03P	A
238	4	5 08+0 23r	5 34+0 13L	.....	.....	5 15+0 23L	.....	.....	..
239	4	6 17+1 01r	6 19+0 58u	.....	.....	6 17+1 03u	6 17+0 03P	6 17+0 04P	B
240	4	7 39+0 0.5P	.....	.....	.....	.....	.....	.....	..
241	4	18 56+0 04P	.....	.....	.....	.....	.....	18 56+0 01P	..
242	4	19 00+1 00u	18 57+1 29u	.....	.....	2 04+1 18u	.....	19 00+0 03P	C
243	4	.....	.....	.....	.....	22 00+0 04L	.....	.....	..
244	5	10 38+0 35r	10 40+0 41u	.....	.....	10 42+0 48L	.....	10 38+0 05P	E
245	5	14 19+0 22r	.....	.....	.....	14 26+0 22L	.....	.....	..
246	5	23 22+0 22r	.....	.....	.....	23 27+0 12L	.....	23 22+0 10P	..
247	6	16 29+0 0.6P	.....	.....	.....	.....	.....	.....	..
248	6	.....	.....	.....	.....	19 26+0 04L	.....	.....	..
249	7	3 12+1 18u	3 06+1 24u	.....	.....	3 14+2 11u	.....	.....	..
250	7	12 46+1 14u	12 48+1 13u	.....	.....	12 46+1 30u	.....	12 46+0 04P	F
251	8	7 07+3 06U	7 08+2 39U	.....	.....	7 07+3 19U	7 07+0 41U	7 07+0 43U	G
252	8	19 31+0 03P	.....	.....	.....	.....	.....	.....	..
253	8	21 36+1 01u	21 58+0 24L	.....	.....	22 05+0 33L	.....	.....	..
254	8	22 39+1 06r	22 41+1 10u	.....	.....	22 40+1 26u	22 40+0 03P	22 39+0 04P	J
255	9	.....	18 56+0 08L	.....	.....	.....	.....	.....	..
256	10	4 58+0 32u	5 00+0 39u	.....	.....	.....	.....	.....	..
257	11	0 54+0 05L	.....	.....	.....	.....	.....	.....	..
258	11	16 59+0 04L	.....	.....	.....	17 02+0 03L	.....	.....	..
259	12	5 14+3 06R	5 16+2 47U	5 15+0 38U	5 14+0 47U	5 14+3 27U	5 14+0 22U	5 14+0 28U	K

EARTHQUAKE CORRELATION TABLE

Month July, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
260	13	0 26+1 16u	0 32+0 41u	.....	.....	0 45+1 21u	.....	.....	..
261	20	13 44+0 01P*	.....	.....	.....	14 05+0 24L	.....	.....	..
262	20	.....	.....	.....	.....	16 44+0 27L	.....	.....	..
263	21	7 59+0 05P	.....	.....	.....	.....	7 59+0 04P	7 59+0 06P	..
264	21	8 54+0 40u	8 56+0 42u	.....	.....	9 02+0 31u	8 54+0 03P	8 54+0 04P	N
265	22	17 22+0 03P	.....	.....	.....	.....	.....	.....	..
266	24	6 12+0 18L	5 19+1 31u	.....	.....	6 12+0 25L	.....	.....	..
267	24	12 25+0 20L	12 10+0 23L	.....	.....	12 27+0 30L	.....	.....	..
268	25	.....	0 07+0 36u	.....	.....	.....	.....	.....	..
269	25	1 26+0 23r	1 48+0 17L	.....	.....	1 40+0 12L	.....	.....	..
270	25	6 41+1 47u	6 36+2 15u	.....	.....	6 43+1 43u	.....	6 41+0 10P	Q
271	25	15 28+0 39u	.....	.....	.....	15 37+0 35u	.....	.....	..
272	29	.....	21 54+0 07L	.....	.....	.....	.....	.....	..
273	29	23 08+2 47u	23 03+2 52u	.....	.....	23 08+2 47u	23 08+1 10u	23 09+0 26u	R
274	30	18 11+0 0.5P	.....	.....	.....	.....	.....	.....	..
275	31	21 26+0 05v	.....	.....	.....	.....	21 29+0 02v	21 28+0 02v	..

EARTHQUAKE CORRELATION TABLE

July, 1942

N O T E S

A :	Ottawa	Δ = 4,940 km.	H =	$1^h53^m.2$ U.T.
	Victoria	Δ = 6,560 km.	H =	1 53.4 U.T.
	Seven Falls	Δ = 5,280 km.	H =	1 53.1 U.T.
B :	Ottawa	Δ = 5,000 km.	H =	$6^h08^m.6$ U.T.
	Victoria	Δ = 6,740 km.	H =	6 08.7 U.T.
	Seven Falls	Δ = 5,200 km.	H =	6 08.9 U.T.
C :	Ottawa	Δ = 6,540 km.	H =	$18^h50^m.4$ U.T.
E :	Ottawa	Δ = 4,830 km.	H =	$10^h30^m.0$ U.T.
F :	Victoria	Δ = 6,580 km.	H =	$12^h37^m.8$ U.T.
	Seven Falls	Δ = 5,150 km.	H =	12 37.9 U.T.
G :	Ottawa	Δ = 7,660 km.	H =	$6^h55^m.8$ U.T.
	Victoria	Δ = 9,335 km.	H =	6 56.0 U.T.
	Seven Falls	Δ = 7,800 km.	H =	6 55.9 U.T.
	Shawinigan Falls	Δ = 7,920 km.	H =	6 55.7 U.T.
J :	Ottawa	Δ = 4,920 km.	H =	$22^h31^m.0$ U.T.
	Victoria	Δ = 6,635 km.	H =	22 31.2 U.T.
	Seven Falls	Δ = 5,155 km.	H =	22 31.1 U.T.
K :	Ottawa	Δ = 4,920 km.	H =	$5^h05^m.4$ U.T.
	Victoria	Δ = 6,700 km.	H =	5 05.5 U.T.
	Saskatoon	Δ = 6,150 km.	H =	5 05.6 U.T.
	Halifax	Δ = 5,080 km.	H =	5 05.3 U.T.
	Seven Falls	Δ = 5,180 km.	H =	5 05.5 U.T.
	Shawinigan Falls	Δ = 5,100 km.	H =	5 05.5 U.T.
N :	Ottawa	Δ = 6,240 km.	H =	$8^h44^m.3$ U.T.
	Victoria	Δ = 8,220 km.	H =	8 44.1 U.T.
	Seven Falls	Δ = 6,570 km.	H =	8 44.2 U.T.
Q :	Ottawa	Δ = 13,500 km. ca.	H =	$6^h22^m.4$ U.T. ca.
R :	Ottawa	Δ = 13,350 km. ca.	H =	$22^h53^m.2$ U.T. ca.
	Victoria	Δ = 8,600 km. ca.	H =	22 53.5 U.T. ca.
	Seven Falls	Δ = 13,350 km. ca.	H =	22 53.2 U.T. ca.

Dominion Observatory,
Ottawa, Canada,
October 30, 1942.

SEISMOLOGICAL BULLETINS RECEIVED

August and September, 1942

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

STATIONS	BULLETINS	RECEIVED
Ksara	January to March, 1942	August 3
Coimbra	September to December, 1941	" 10
Santa Clara	July, 1942	" 12
Pasadena	Preliminary Bulletin May-June, 1942	" 12
Brisbane	June, 1942	" 13
Sydney	January and February, 1942	" 15
Perth	June, 1942	" 15
Saint Louis and Auxiliary Stations	Supplement to January and March/42 and preliminaries January 20, 27, March 1, 5, 19, April 8, 11, 1942	" 17
Pasadena and Auxiliary Stations	October to December, 1940	" 17
United States Coast and Geodetic Survey	July, 1940	" 20
Weston	Preliminary March to July, 1942	" 22
Sydney	March, 1942	" 26
Brisbane	May, 1942	" 27
Weston	Preliminary August, 1942	September 4
New Zealand	July, 1942	" 8
Santa Clara	August, 1942	" 14
New Zealand	June, 1942	" 14
United States Coast and Geodetic Survey	August, 1940	" 17
Zurich	June, 1942	" 19
La Paz	Year 1939	" 25

Dominion Observatory,
Ottawa - Canada.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

August

1942

%%%%

DOMINION OBSERVATORY
OTTAWA - CANADA

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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

ϕ = 45°23'38" N. λ = 75°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

ϕ = 44°38' N. λ = 63°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

ϕ = 47°07'.4 N. λ = 70°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

ϕ = 48°31'14" N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33'.1 N. λ = 72°45'.8 W. h = 60m. 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 15 g.

SASKATOON

University of Saskatchewan

ϕ = 52°08' N. λ = 106°38' W. h = 515m.

Time correction from radio time signals

Foundation: clay and sand

Instruments: Mainka NS and EW components, designated SN and SE, respectively, each with smoked sheet registration, air damping, paper speed of 15 mm. per min., mass 139 kg.

KIRKLAND LAKE

Lake Shore Mines

ϕ = 48°09' N. λ = 80°03' W. h = 320m.

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_o	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)	9.0	72	Aper.		
SE (Saskatoon)	9.0	56	"		
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, 1942 to August 1, 1942 No. 43

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s		
		Ottawa		
276 Aug. 1	eZ	5 06 53		
	eE	5 09		
	L	5 50		
	F	6 15		
		Ottawa		
277 Aug. 1	H	12 33.8	14,800ca.	
	P'	12 53 08		
	PP	12 55 20		
	SKP	12 56 24		
	PS	13 06 12		
	SS	13 13 07		
	SSS	13 18.0		
	eL	13 30		
	F	15 00+		
		Victoria		
	H	12 34ca.	11,700ca.	
	P	12 48 09		
	PP	12 52 25		
	SKS	12 58 39		
	PS	13 01.4		
	SS	13 07 18		
	L	13 22		
	F	14 54		
		Halifax		
	e	12 53.4		
	e	12 56 54		
	L	13 42		
	F	14 42		
		Seven Falls		
	H	12 33.9	15,100	
	P'	12 53 16		
	PP	12 55 45		
	SKP	12 56 44		
	PPS	13 08.7		
	SS	13 14.1		
	F	14 55+		
		Ottawa		
278 Aug. 1	eZ	14 50 14		
	eZ	14 52 04		
	e	14 56.0		
	e	14 59.3		
	e	15 17.2		
	L	15 41		
	F	17 14		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 1, 1942 to August 6, 1942 No. 44

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km	
		Victoria		
278	e	14 49.7		
Aug.	e	14 53.4		
1	e_E	15 12.4		
(Cont'd)	L	15 32		
	F	17 22		
		Seven Falls		
	e	14 55.1		
	L	15 16		
	F	17 49		
		Ottawa		
279	H	21 13.7	150	
Aug.	P_1	21 14 08		
1	S_1	21 14 25		
	e	21 14 36		
	F	21 15		
		Victoria		
280	e	20 21.4		
Aug.	L	20 31		
3	F	20 39		
		Ottawa		
281	e_Z	23 08 27		
Aug.	L	23 25		
3	F	23 45		
		Victoria		
	e	23 04.4		
	L	23 08		
	F	23 47		
		Ottawa		
283	H	23 36.9	3740	Compression N.E.
Aug.	iP	23 43 41		USCGS. gives:
6	PPP	23 45 08		ϕ = 14°.4 N.
	iS	23 49 12		λ = 90°.9 W.
	SS	23 51 22		Deeper than normal.
	L	23 54		
	F	4 12ca.		
		Victoria		
	H	23 37.3	4600	
	P	23 45 07		
	PPP	23 46 59		
	S	23 51 30		
	SSS	23 54.9		
	L	23 57		
	F	4 08		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 6, 1942 to August 7, 1942 No. 45

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
283 Aug. 6 (Cont'd)	H	23 37.3	4260	
	P	23 44 37		
	PP	23 46 21		
	S	23 50 41		
	SSS	23 53.6		
	L	23 55		
	F	1 52		
		Halifax		
	H	23 37.1	4200	
	P	23 44 23		
	PPP	23 46 00		
	S	23 50 23		
	SSS	23 53.3		
	L	23 55		
	F	2 39		
		Seven Falls		
	H	23 36.9	4140	
	P	23 44 06		
	PPP	23 45 52		
	S	23 50 02		
	SSS	23 53.3		
	L	23 55		
	F	4 03		
		Shawinigan Falls		
	H	23 36.9	4020	
	P	23 43 56		
	S	23 49 45		
	L	23 55		
	F	1 34		
		Ottawa		
285 Aug. 7	H	6 04.4	3980	
	P_Z	6 11 28		
	S	6 17 14		
	SS	6 19.2		
	L	6 24		
	F	6 44		
		Victoria		
	e	6 18.4		
	L	6 29		
	F	7 07		
		Seven Falls		
	e	6 13.5		
	L	6 25		
	F	6 54		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 7, 1942 to August 8, 1942 No. 46

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
289 Aug. 8	eZ	0 32 52		
	e	0 43		
	F	0 45		
		Ottawa		
290 Aug. 8	H	7 19.5	3720	
	P	7 26 10		
	PPP	7 27 40		
	S	7 31 40		
	L	7 35		
	F	8 19		
		Victoria		
	H	7 19.4	4800	
	P	7 27.5		
	S	7 34 01		
	L	7 43		
	F	8 26		
		Seven Falls		
	H	7 19.6	4000	
	P	7 26 39		
	S	7 32.4		
	L	7 40		
	F	8 36		
		Ottawa		
292 Aug. 8	H	22 36.6	3690	USCGS. gives:
	P	22 43 16		ϕ = 14°.4 N.
	PPP	22 44 42		λ = 90°.9 W.
	S	22 48 44		
	SS	22 50 28		
	L	22 54		
	F	0 16		
		Victoria		
	H	22 36.7	4740	
	P	22 44 39		
	S	22 51 09		
	SSS	22 53.5		
	L	22 59		
	F	0 28		
		Halifax		
	e	22 45.5		
	L	22 58		
	F	23 21		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 8, 1942 to August 11, 1942 No. 47

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
292 Aug. 8 (Cont'd)	H	22 36.6	4090	
	P	22 43 43		
	PPP	22 45 26		
	S	22 49 36		
	SS	22 52.3		
	L	22 54		
	F	0 49		
		Shawinigan Falls		
	H	22 36.6	3960	
	P	22 43 34		
	S	22 49 19		
	SS	22 53.2		
	F	23 21		
		Ottawa		
294 Aug. 11	H	4 48.2	3800	
	P	4 55 02		
	PPP	4 56.3		
	S	5 00 37		
	L	5 05		
	F	5 41		
		Victoria		
	e	4 56 21		
	L	5 08		
	F	5 48		
		Seven Falls		
	H	4 48.0	4400	
	P	4 55 29		
	S	5 01 41		
	L	5 08		
	F	5 38		
		Ottawa		
295 Aug. 11	H	7 11.6	3690	
	P	7 18 16		
	S	7 23 44		
	L	7 27		
	F	7 53		
		Victoria		
	e	7 26.1		
	L	7 36		
	F	8 00		
		Seven Falls		
	e	7 24 33		
	L	7 32		
	F	8 00		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 11, 1942 to August 15, 1942 No. 48

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
296 Aug. 15	H	15 45ca.	13,600ca	
	P_Z	16 03 40		
	PP	16 05.3		
	SKS	16 10 36		
	PS_E	16 15 08		
	L	16 38		
	F	18 08		
		Victoria		
	e	16 08 15		
	L	16 23		
	F	17 51		
		Ottawa		
298 Aug. 13	e	19 37 42		
	e	19 45 23		
	F	20 08		
		Seven Falls		
	e	19 45 53		
	L	19 55		
	F	20 11		
		Ottawa		
302 Aug. 14	H	20 50.7	4040	
	P	20 57 46		
	S	21 03.6		
	SSS	21 06.1		
	L	21 08		
	F	22 00ca.		
		Seven Falls		
	e	20 59.9		
	e	21 07 43		
	L	21 11		
	F	21 56		
		Ottawa		
305 Aug. 15	e	6 42 17		
	e_N	6 47 44		
	e_E	6 48 09		
	e	6 50		
	L	6 54		
	F	7 13		
		Ottawa		
306 Aug. 15	e_Z	15 21.3		
	e	15 29		
	L	15 50		
	F	17 20		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 15, 1942 to August 20, 1942 No. 49

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
306 Aug. 15 (Cont'd)	e	15 38.6		
	L	15 58		
	F	17 27		
		Ottawa		
307 Aug. 16	i	11 40 08		
	F	12 18		
		Victoria		
	e	11 40		
	L	11 48		
	F	12 03		
		Ottawa		
309 Aug. 16	H	20 07.9	3660	
	P	20 14 34		
	P_N	20 15.7		
	S	20 20 00		
	SSS	20 22 36		
	L	20 25		
	F	20 58		
		Victoria		
	H	20 08.0	4740	
	P	20 15 54		
	S	20 22 24		
	L	20 32		
	F	20 59		
		Seven Falls		
	H	20 07.9	4010	
	P	20 15 01		
	PPP	20 16 31		
	S	20 20 49		
	SSS	20 24 11		
	L	20 29		
	F	21 03		
		Shawinigan Falls		
	H	20 08.0	3800	
	P	20 14 52		
	S	20 20 27		
	F	20 34		
		Ottawa		
317 Aug. 20	H	16 43.3	3600	
	P_Z	16 49 55		
	S	16 55 17		
	L	16 58.3		
	F	17 10		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 20, 1942 to August 23, 1942 No. 50

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
319 Aug. 20	H	22 37.2	3630	
	P	22 43 47		
	PPP_N	22 45.0		
	S	22 49 11		
	L	22 52.0		
	F	23 14		
		Victoria		
	H	22 37.4	4640	
	P	22 45 15		
	S	22 51 40		
	L	23 01		
	F	23 17		
		Seven Falls		
	e	22 45.8		
	e	22 53.0		
	L	22 57		
	F	23 19		
		Shawinigan Falls		
	H	22 37.2	3840	
	P	22 44 04		
	S	22 49 41		
	F	23 00		
		Ottawa		
320 Aug. 22	e_Z	8 40 53		
	L	8 57		
	F	9 07		
		Ottawa		
321 Aug. 22	e_Z	9 14 31		
	e	9 25.0		
	L	9 47		
	F	10 22		
		Ottawa		
322 Aug. 22	e_Z	19 59 20		
	L	20 05		
	F	20 14		
		Ottawa		
324 Aug. 23	H	6 35.5	7550	USCGS. gives:- ϕ = 51°.5 N. λ = 163 E.
	P	6 46 26		
	PP	6 49.0		
	PPP	6 50 42		
	S	6 55 30		
	SS	7 00 10		
	SSS	7 03.0		
	L	7 07		
	F	8 56		

No chronometer signals on Victoria records but S-P interval gives a Δ of 4600 km. ca.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 23, 1942 to August 24, 1942 No. 51

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
324 Aug. 23 (Cont'd)	H	6 35.5	5580	
	P	6 44 23		
	S	6 51 40		
	SS	6 55.4		
	L	7 00		
	F	7 31		
		Seven Falls		
	H	6 35.5	7600	
	P	6 46 30		
	S	6 55 36		
	SSS	7 03.6		
	L	7 08		
	F	9 11		
		Shawinigan Falls		
	H	6 35.5	7600	
	P	6 46 29		
	S	6 55 35		
	L	7 20		
	F	7 10		
		Ottawa		
325 Aug. 24	H	22 50.6	6570	Compression N. USCGS. gives:- ϕ = 14°.5 S, λ = 75°.5 W. Depth 50-100 km.
	P	23 00 35		
	PP	23 03.0		
	PPP	23 04 12		
	S	23 08 48		
	PS	23 09 24		
	SS	23 13 05		
	SSS	23 15.0		
	L	23 19		
	F	4 05		
		Victoria		
	S-P	9 56	8650	No chronometer signals on record.
		Saskatoon		
	H	22 50.8	7880	
	P	23 02 00		
	e	23 02 26		
	S	23 11 19		
	PS	23 12		
	SS	23 16		
	L	23 21		
	F	2 13		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 24, 1942 to August 25, 1942 No. 52

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Halifax		
325 Aug. 24 (Cont'd)	H	22 50.4	6640	
	P	23 00 23		
	PPP	23 03 20		
	S	23 08 40		
	PS	23 09.3		
	SSS	23 15.2		
	L	23 20		
	F	2 33		
		Seven Falls		
	H	22 50.7	6790	
	P	23 00 51		
	iS	23 09 17		
	SSS	23 15.4		
	L	23 17		
	F	4 34		
		Shawinigan Falls		
	H	22 50.6	6780	
	P	23 00 42		
	S	23 09 07		
	L	23 20		
	F	1 50		
		Ottawa		
333 Aug. 25	i_Z	13 36 57		
	e	13 42.3		
	L	13 48		
	F	14 00		
		Ottawa		
335 Aug. 25	H	20 16.0	6580	
	P	20 25 58		
	S	20 34 12		
	SSS	20 41 00		
	L	20 44		
	F	21 20+		
		Victoria		
	H	20 16.1	8320	
	P	20 27 47		
	S	20 37 28		
	L	20 52		
	F	22 14		
		Seven Falls		
	e	20 34 35		
	L	20 42		
	F	22 47		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 25, 1942 to August 26, 1942 No. 53

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
336 Aug. 25	H	20 51.5	6600	
	P	21 01 27		
	S	21 09 42		
	L	21 19		
	F	22 11		
		Ottawa		
339 Aug. 26	H	12 08.7	6640	
	P	12 18 41		
	i_Z	12 18 52		
	PPP	12 22.4		
	S	12 26 58		
	SSS	12 34.0		
	L	12 37		
	F	13 08		
		Victoria		
	H	12 08.7	8450	
	P	12 20.5		
	S	12 30 15		
	L	12 46		
	F	13 03		
		Seven Falls		
	e	12 27 25		
	L	12 37		
	F	13 15		
		Ottawa		
340 Aug. 26	H	14 18.4	6700	
	P_Z	14 28 27		
	S	14 36 48		
	L	14 47		
	F	15 10		
		Victoria		
	e	14 40.2		
	L	15 01		
	F	15 26		
		Ottawa		
341 Aug. 26	H	17 54.3	215	
	P_2	17 54 54.5		
	S_2	17 55 19		
	F	18 00		
		Seven Falls		
	e	17 56 27		
	e	17 56 47		
	F	17 58		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM August 26, 1942 to August 31, 1942 No. 54

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
341	e	17 55 43		
Aug.	e	17 55 55		
26	e	17 56 03		
(Cont'd)	F	17 58		
		Ottawa		
344	H	6 14.4	7220	
Aug.	PZ	6 24 59		
27	S	6 33.8		
	L	6 44		
	F	7 12		
		Victoria		
	e	6 37 18		
	L	7 01		
	F	7 24		
		Seven Falls		
	H	6 14.4	6920	
	P	6 24 39		
	PP	6 26 57		
	S	6 33 12		
	L	6 43		
	F	7 23		
		Ottawa		
348	H	12 24.1	3610	
Aug.	P	12 30 39		
29	S	12 36 02		
	L	12 43		
	F	13 06		
		Victoria		
	e	12 32 00		
	e	12 38 30		
	L	12 50		
	F	13 09		
		Shawinigan Falls		
	H	12 24.1	3850	
	P	12 30 56		
	S	12 36.6		
	F	12 45		
		Ottawa		
349	H	21 40.5	3600	
Aug.	P	21 47 02		
29	S	21 52 24		
	e	21 55.0		
	L	21 58		
	F	22 17		

W W. Doxsee

EARTHQUAKE CORRELATION TABLE

Month August, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						N. S.	W. A.		
276	1	5 07+1 08u	5 38+0 28L	.....	.....	5 53+0 39L	.....	.....	..
277	1	12 53+2 07U	12 48+2 06U	.....	12 53+1 49U	12 53+2 02U	12 53+1 07U	12 53+0 15P	A
278	1	14 50+2 24U	14 50+2 33U	.....	16 04+0 26L	14 55+2 54U	.....	.....	..
279	1	21 14+0 01v	.....	.....	.....	.....	.....	.....	B
280	3	20 27+0 03P	20 21+0 18u	.....	.....	20 34+0 48L	.....	.....	..
281	3	23 08+0 37r	23 04+0 43r	.....	.....	23 26+0 37L	.....	.....	..
282	5	14 27+0 08P	.....	.....	.....	.....	.....	.....	..
283	6	23 44+4 28R	23 45+4 23R	23 45+2 07R	23 44+2 55R	23 44+4 19R	23 44+1 51R	23 44+1 50R	C
284	7	0 59+0 01P*	.....	.....	.....	.....	.....	.....	..
285	7	6 11+0 33r	6 18+0 49r	.....	.....	6 13+0 41r	.....	6.12+0 02P	E
286	7	7 13+0 02P*	.....	.....	.....	.....	.....	.....	..
287	7	13 47+0 01P*	.....	.....	.....	.....	.....	.....	..
288	7	20 03+0 02P*	.....	.....	.....	.....	.....	.....	..
289	8	0 33+0 12r	.....	.....	.....	1 06+0 14L	.....	.....	..
290	8	7 26+0 53r	7 27+0 58r	.....	.....	7 32+1 02r	7 27+0 03P	7 26+0 05P	G
291	8	9 26+0 03P*	.....	.....	.....	.....	.....	.....	..
292	8	22 43+1 33r	22 45+1 43r	23 45+0 46L	22 46+0 36r	22 44+2 06r	22 44+0 36r	22 44+0 37r	J
293	10	15 01+0 03P	.....	.....	.....	.....	.....	15 01+0 01P	..
294	11	4 55+0 46r	4 56+0 52r	.....	.....	5 02+0 37r	4 55+0 19r	4 55+0 03P	K
295	11	7 18+0 35r	7 26+0 34r	.....	.....	7 25+0 42r	.....	7 19+0 02P	N
296	13	16 04+2 04u	16 08+1 43u	.....	16 57+0 05L	16 11+1 16u	.....	.....	O
297	13	16 14+0 05P*	.....	.....	.....	.....	.....	.....	..
298	13	19 38+0 30u	.....	.....	.....	19 46+0 25u	.....	.....	..
299	14	6 56+0 02P	.....	.....	.....	.....	.....	.....	..
300	14	8 33+0 07P	.....	.....	.....	.....	.....	.....	..
301	14	9 40+0 02P	.....	.....	.....	.....	.....	9 41+0 01P	..
302	14	20 58+1 02r	20 59+1 02L	.....	.....	21 00+0 56r	21 13+0 18L	21 11+0 13L	Q
303	14	21 50+0 02P	.....	.....	.....	.....	.....	.....	..
304	15	.....	0 49+0 07L	.....	.....	1 03+0 02L	.....	.....	..
305	15	6 42+0 31r	6 59+0 18L	.....	.....	6 52+0 25L	.....	.....	..
306	15	15 21+1 59u	15 25+1 20u	.....	.....	15 39+1 48u	.....	.....	..
307	16	11 40+0 38u	11 40+0 23u	.....	.....	.....	.....	11 40+0 08P	..
308	16	19 28+0 01P*	.....	.....	.....	.....	.....	.....	..
309	16	20 15+0 43r	20 16+0 43r	.....	.....	20 15+0 48r	20 15+0 17r	20 15+0 19r	R
310	16	21 03+0 03P	.....	.....	.....	.....	.....	.....	..

EARTHQUAKE CORRELATION TABLE

Month August, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
311	18	22 12+0 13L	.....	.....	.....	22 14+0 30L	.....	.....	..
312	19	0 01+0 01P*	.....	.....	.....	.....	.....	.....	..
313	19	.....	.....	.....	.....	6 54+0 12L	.....	.....	..
314	19	8 19+0 02P*	.....	.....	.....	8 46+0 16L	.....	.....	..
315	19	10 20+0 01P*	.....	.....	.....	.....	.....	.....	..
316	20	15 59+0 03P	.....	.....	.....	.....	.....	.....	..
317	20	16 50+0 20r	.....	.....	.....	16 59+0 10L	.....	16 50+0 01P	S
318	20	.....	18 22+0 07L	.....	.....	.....	.....	.....	..
319	20	22 44+0 30r	22 45+0 32r	.....	.....	22 46+0 33r	22 50+0 09L	.....	T
320	22	8 41+0 26u	.....	.....	.....	9 02+0 07L	.....	.....	..
321	22	9 15+1 07u	.....	.....	.....	9 50+0 43L	.....	.....	..
322	22	19 59+0 15u	.....	.....	.....	.....	.....	20 00+0 07P	..
323	23	.....	.....	.....	.....	5 13+0 05L	.....	.....	..
324	23	6 46+2 10U	6 50+2 00U	6 44+0 47U	7 14+0 29L	6 47+2 24U	6 47+0 50U	6 46+0 28U	U
325	24	23 01+5 04U	.....	23 02+3 11U	23 00+3 33U	23 01+5 33U	23 01+2 53U	23 01+2 49U	V
326	25	1 55+0 02P	.....	.....	.....	.....	.....	1 55+0 02P	..
327	25	2 13+0 02P	.....	.....	.....	.....	.....	2 13+0 01P	..
328	25	2 41+0 01P*	.....	.....	.....	.....	.....	.....	..
329	25	3 13+0 03P	.....	.....	.....	.....	.....	3 13+0 03P	..
330	25	6 05+0 01P*	.....	.....	.....	.....	.....	.....	..
331	25	7 50+0 01P*	.....	.....	.....	.....	.....	.....	..
332	25	8 56+0 03P	.....	.....	.....	.....	.....	8 56+0 02P	..
333	25	13 37+0 23u	.....	.....	.....	13 46+0 15L	.....	.....	..
334	25	.....	.....	.....	.....	15 51+0 09L	.....	.....	..
335	25	20 26+0 54u	20 28+1 46u	.....	.....	20 35+2 12u	.....	20 26+0 02P	W
336	25	21 01+1 10u	.....	.....	.....	.....	.....	21 01+0 03P	X
337	25	.....	.....	.....	.....	23 52+0 05L	.....	.....	..
338	26	1 43+0 01P*	.....	.....	.....	.....	.....	.....	..
339	26	12 19+0 49u	12 20+0 42u	.....	.....	12 27+0 48u	.....	12 19+0 04P	Y
340	26	14 28+0 42u	14 40+0 46u	.....	.....	14 48+0 29L	.....	.....	Z
341	26	17 55+0 05v	.....	.....	.....	.....	17 56+0 01v	17 56+0 02v	AA
342	26	.....	18 19+0 12L	.....	.....	.....	.....	.....	..
343	26	22 21+0 01P*	.....	.....	.....	.....	.....	.....	..
344	27	6 25+0 47u	6 37+0 47u	.....	.....	6 25+0 58u	6 25+0 02P	.....	BB

EARTHQUAKE CORRELATION TABLE

Month August, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
345	27	23 06+0 01P*	.....	.....	.....	.....	.....	.....	..
346	29	1 09+0 11P	.....	.....	.....	.....	1 09+0 02P	1 09+0 10P	..
347	29	1 57+0 04P	.....	.....	.....	.....	.....	.....	..
348	29	12 31+0 35r	12 32+0 37r	.....	.....	.....	.....	12 31+0 14r	CC
349	29	21 47+0 30r	.....	.....	.....	21 59+0 29L	.....	21 47+0 03P	EE
350	30	.....	.....	.....	.....	.....	19 48+0 01P	19 49+0 01P	..
351	31	2 19+0 0.3P*	.....	.....	.....	.....	.....	.....	..
352	31	3 08+0 0.4P*	.....	.....	.....	.....	.....	.....	..
353	31	6 49+0 04P*	.....	.....	.....	7 08+0 11L	6 49+0 02P	6 49+0 03P	..
354	31	10 16+0 02P*	.....	.....	.....	.....	.....	.....	..

CORRELATION OF EARTHQUAKES
August, 1942

N O T E S

A	:	Ottawa	Δ = 14,800 km.	H = $12^h33^m.8$ U.T.
		Victoria	Δ = 11,700 km.	H = 12 34 U.T.
		Seven Falls	Δ = 15,100 km.	H = 12 33.9 U.T.
B	:	Ottawa	Δ = 150 km.	H = $21^h13^m.7$ U.T.
C	:	Ottawa	Δ = 3,740 km.	H = $23^h36^m.9$ U.T.
		Victoria	Δ = 4,600 km.	H = 23 37.3 U.T.
		Saskatoon	Δ = 4,260 km.	H = 23 37.3 U.T.
		Halifax	Δ = 4,200 km.	H = 23 37.1 U.T.
		Seven Falls	Δ = 4,140 km.	H = 23 36.9 U.T.
		Shawinigan Falls	Δ = 4,020 km.	H = 23 36.9 U.T.
E	:	Ottawa	Δ = 3,980 km.	H = $6^h04^m.4$ U.T.
G	:	Ottawa	Δ = 3,720 km.	H = $7^h19^m.5$ U.T.
		Victoria	Δ = 4,800 km.	H = 7 19.4 U.T.
		Seven Falls	Δ = 4,000 km.	H = 7 19.6 U.T.
J	:	Ottawa	Δ = 3,690 km.	H = $22^h36^m.6$ U.T.
		Victoria	Δ = 4,740 km.	H = 22 36.7 U.T.
		Seven Falls	Δ = 4,090 km.	H = 22 36.6 U.T.
		Shawinigan Falls	Δ = 3,960 km.	H = 22 36.6 U.T.
K	:	Ottawa	Δ = 3,800 km.	H = $4^h48^m.2$ U.T.
		Seven Falls	Δ = 4,400 km.	H = 4 48.0 U.T.
N	:	Ottawa	Δ = 3,690 km.	H = $7^h11^m.6$ U.T.
O	:	Ottawa	Δ = 13,600 km. ca.	H = 13^h45^m ca. U.T.
Q	:	Ottawa	Δ = 4,040 km.	H = $20^h50^m.7$ U.T.
R	:	Ottawa	Δ = 3,660 km.	H = $20^h07^m.9$ U.T.
		Victoria	Δ = 4,740 km.	H = 20 08.0 U.T.
		Seven Falls	Δ = 4,010 km.	H = 20 07.9 U.T.
		Shawinigan Falls	Δ = 3,800 km.	H = 20 08.0 U.T.
S	:	Ottawa	Δ = 3,600 km.	H = $16^h43^m.3$ U.T.
T	:	Ottawa	Δ = 3,630 km.	H = $22^h37^m.2$ U.T.
		Victoria	Δ = 4,640 km.	H = 22 37.4 U.T.
		Shawinigan Falls	Δ = 3,840 km.	H = 22 37.2 U.T.
U	:	Ottawa	Δ = 7,550 km.	H = $6^h35^m.5$ U.T.
		Victoria	Δ = 4,600 km. ca.	Time uncertain
		Saskatoon	Δ = 5,580 km.	H = 6 35.5 U.T.
		Seven Falls	Δ = 7,600 km.	H = 6 35.5 U.T.
		Shawinigan Falls	Δ = 7,600 km.	H = 6 35.5 U.T.
V	:	Ottawa	Δ = 6,570 km.	H = $22^h50^m.6$ U.T.
		Victoria	Δ = 8,650 km.	
		Saskatoon	Δ = 7,880 km.	H = 22 50.8 U.T.
		Halifax	Δ = 6,640 km.	H = 22 50.4 U.T.
		Seven Falls	Δ = 6,790 km.	H = 22 50.7 U.T.
		Shawinigan Falls	Δ = 6,780 km.	H = 22 50.6 U.T.
W	:	Ottawa	Δ = 6,580 km.	H = $20^h16^m.0$ U.T.
		Victoria	Δ = 8,320 km.	H = 20 16.1 U.T.

CORRELATION OF EARTHQUAKES
August, 1942

N O T E S

X :	Ottawa	Δ = 6,600 km.	H = $20^h51^m.5$ U.T.
Y :	Ottawa	Δ = 6,640 km.	H = $12^h08^m.7$ U.T.
	Victoria	Δ = 8,450 km.	H = 12 08.7 U.T.
Z :	Ottawa	Δ = 6,700 km.	H = $14^h18^m.4$ U.T.
AA :	Ottawa	Δ = 215 km.	H = $17^h54^m.3$ U.T.
BB :	Ottawa	Δ = 7,220 km.	H = $6^h14^m.4$ U.T.
	Seven Falls	Δ = 6,920 km.	H = 6 14.4 U.T.
CC :	Ottawa	Δ = 3,610 km.	H = $12^h24^m.1$ U.T.
	Shawinigan Falls	Δ = 3,850 km.	H = 12 24.1 U.T.
EE :	Ottawa	Δ = 3,600 km.	H = $21^h40^m.5$ U.T.

Dominion Observatory,
Ottawa - Canada,
December 2, 1942.

SEISMOLOGICAL BULLETINS RECEIVED
October and November, 1942

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

STATIONS	BULLETINS	RECEIVED	
Saint Louis and Auxiliary Stations	Preliminaries for May 14, June 12, 15, 16, 20, 29, July 4, 5, 7, 8, 12, August 6, November 16, 18; Supplement to February and November; preliminaries for December 5, 6.	October	2
Pasadena	Preliminary for July and August, 1942	"	2
Weston	Preliminary for September, 1942	"	7
Pasadena	Local Shocks April to June, 1942	"	15
Brisbane	July, 1942	"	16
Riverview	October to December, 1941	"	16
Santa Clara	August and September, 1942	"	26
New Zealand Stations	Provisional for August, 1942	"	26
Perth	July, 1942	"	26
Weston	Preliminary for October, 1942	November	4
New Zealand Stations	Provisional for September, 1942	"	10
Brisbane	August, 1942	"	11
Santa Clara	October, 1942	"	16
Berkeley and Auxiliary Stations	April to June, 1940	"	18
Zürich	July and August, 1942	"	23
Helwan	Year 1941	"	25
Pasadena	Local Shocks July to September, 1942	"	27

DOMINION OBSERVATORY,
OTTAWA - CANADA.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN
September
1942

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DOMINION OBSERVATORY

OTTAWA - CANADA

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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

ϕ = 45°23'38" N. λ = 75°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

ϕ = 44°38' N. λ = 63°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

ϕ = 47°07!4 N. λ = 70°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

ϕ = 48°31'14" N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33.1 N. λ = 72°45.8 W. h = 60m. 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.

KIRKLAND LAKE

Lake Shore Mines

ϕ = 48°09' N. λ = 80°03' W. h = 320m.

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_o	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.	
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, 1942 to September 4, 1942 No. 55

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
355 Sept. 1	H	9 42.0	8320	
	P_Z	9 53 36		
	S	10 03 17		
	SS_N	10 08.0		
	L	10 17		
	F	10 53		
		Seven Falls		
	H	9 42.4	7640	
	P	9 53 24		
	S	10 02 32		
	L	10 17		
	F	11 02		
		Ottawa		
356 Sept. 1	e_Z	19 12 14		
	L	19 41		
	F	20 06		
		Ottawa		
358 Sept. 2	H	3 17.6	6120	USCGS. gives:- ϕ = 52°.5 N. λ = 170° W.
	P	3 27 04		
	S	3 34 52		
	SSS	3 40.2		
	L	3 44		
	F	4 44		
		Victoria		
	H	3 17.6	2990	
	P	3 23 21		
	S	3 28 04		
	L	3 30		
	F	4 52		
		Seven Falls		
	e	3 27.6		
	e	3 35 12		
	L	3 47		
	F	5 03		
		Ottawa		
359 Sept. 2	eZ	16 22 12		
	L	16 30.5		
	F	16 46		
		Ottawa		
362 Sept. 4	H	2 53.4	4090	USCGS. gives:- ϕ = 12°.5 N. λ = 91° W.
	P	3 00 34		
	S	3 06 27		
	SSS	3 09		
	L	3 12		
	F	3 43		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM September 4, 1942 to September 6, 1942 No. 56

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
362 Sept. 4 (Cont'd)	e	3 02.7		
	e	3 07.0		
	e	3 10		
	L	3 14		
	F	3 59		
		Shawinigan Falls		
	e	3 00.9		
	L	3 16		
	F	3 21		
		Ottawa		
363 Sept. 4	H	17 46.5	6170	USCGS. gives:-
	P	17 56 03		ϕ = 52°.8 N.
	S	18 03 53		λ = 169°.2 W.
	L	18 14		
	F	19 10		
		Victoria		
	e_E	17 52.5		
	e	17 57 01		
	L	17 59		
	F	18 55		
		Seven Falls		
	e	18 04 06		
	L	18 16		
	F	19 10		
		Shawinigan Falls		
	H	17 46.5	6290	
	P	17 56 08		
	S	18 04 05		
	F	18 07		
		Seven Falls		
364 Sept. 5	H	14 30.4	50	
	P_1	14 30 32		
	S_1	14 30 38		
	F	14 32		
		Shawinigan Falls		
	e	14 30 54		
	F	14 31.3		
		Ottawa		
366 Sept. 6	i_Z	16 04 55		
	i_N	16 05 12		
	e	16 14 22		
	L	16 38		
	F	16 47		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM September 6, 1942 to September 9, 1942 No. 57

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
366	e	16 05.1		
Sept.	e	16 14 38		
6	L	16 34		
(Cont'd)	F	16 52		
		Ottawa		
368	e_Z	4 58 24		
Sept.	e_N	5 04.0		
7	L	5 11		
	F	5 23		
		Ottawa		
369	H	16 07.6	9960	
Sept.	P_Z	16 20 33		
8	S	16 31 26		
	e	16 44		
	L	16 52		
	F	17 08		
		Victoria		
	H	16 07.7	7240	
	P_E	16 18.3		
	S	16 27 08		
	F	16 46		
		Seven Falls		
	e	16 31.4		
	L	16 52		
	F	17 07		
		Ottawa		
370	H	1 25.5	6020	USCGS. gives:-
Sept.	P	1 34 52		ϕ = 53°.1 N.
9	PP	1 37.0		λ = 165° W.
	S	1 42 34		
	SS	1 46.2		
	L	1 52		
	F	3 23		
		Victoria		
	H	1 25.5	2865	
	P	1 31 02		
	S	1 35 36		
	L	1 38		
	F	3 47		
		Halifax		
	e	1 44.1		
	L	1 56		
	F	2 19		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM September 9, 1942 to September 11, 1942 No. 58

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
370 Sept. 9 (Cont'd)	H	1 25.6	6100	
	P	1 35 03		
	S	1 42 49		
	SS	1 46.4		
	L	1 52		
	F	3 30		
		Shawinigan Falls		
	H	1 25.6	6000	
	P	1 34 59		
	S	1 42.7		
	L	1 54		
	F	2 03		
		Ottawa		
371 Sept. 10	e_Z	5 06 47		
	L	5 46		
	F	6 17		
		Victoria		
	e	5 12 06		
	L	5 35		
	F	6 05		
		Seven Falls		
	e	5 25.5		
	L	5 44		
	F	6 47		
		Ottawa		
372 Sept. 10	e_Z	23 46 36		
	L	23 55		
	F	0 08		
		Victoria		
	e_N	23 44.5		
	L	23 51		
	F	0 21		
		Ottawa		
374 Sept. 11	e	11 06 51		Nearby quake.
	i	11 08 13		
	i	11 08 46		
	F	11 13		
		Seven Falls		
	e	11 07 01		
	e	11 07 51		
	e	11 07 55		
	F	11 10		
		Shawinigan Falls		
	e	11 07.2		
	F	11 09		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM September 11, 1942 to September 16, 1942 No. 59

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
375 Sept. 12	H	5 40.6	6580	
	P	5 50 30		
	S	5 58 44		
	L	6 09		
	F	6 40		
		Victoria		
	e	6 02 09		
	L	6 21		
	F	6 45		
		Seven Falls		
	e	5 59.6		
	L	6 11		
	F	6 51		
		Ottawa		
376 Sept. 14	e_Z	11 49 41		
	L	12 18		
	F	13 00 ca.		
		Victoria		
	H	11 31.4	9720	
	P	11 44.1		
	S	11 54 50		
	PS	11 55 55		
	SS	12 01.0		
	L	12 08		
	F	12 56		
		Seven Falls		
	e	12 01.7		
	L	12 09		
	F	13 25		
		Ottawa		
377 Sept. 15	H	22 32.8	160	
	P_1	22 33 11		
	S_1	22 33 30		
	i	22 33 37		
	F	22 35		
		Ottawa		
378 Sept. 15 and 16	e_Z	23 56 32		
	L	0 36		
	F	1 01		
		Victoria		
	e_E	0 01.3		
	L	0 21		
	F	0 57		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM September 16, 1942 to September 24, 1942 No. 60

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
379	e	11 49.2		
Sept.	L	12 28		
17	F	12 40		
		Ottawa		
382	H	22 29.3	145	
Sept.	P_1	22 29 46		
18	S_1	22 30 03		
	i	22 30 07		
	F	22 30.5		
		Seven Falls		
384	H	13 26.9	30	
Sept.	P_1	13 27 01		
19	S_1	13 27 05		
	F	13 28		
		Victoria		
385	e	23 55.1		
Sept.	e_E	0 05.7		
20	L	0 28		
	F	0 45		
		Victoria		
386	e_E	6 13.1		
Sept.	L	6 25		
21	F	6 58		
		Ottawa		
389	H	0 46.5	9200	
Sept.	P_Z	0 58 52		
22	S	1 09 12		
	SS	1 14.8		
	SSS	1 18.2		
	L	1 27		
	F	2 10		
		Victoria		
	e	1 09 58		
	L	1 24		
	F	2 09		
		Seven Falls		
	e	1 09 42		
	L	1 22		
	F	2 16		
		Ottawa		
391	e_N	4 04		
Sept.	e	4 07 04		
24	e_N	4 13.6		
	L	4 26		
	F	5 33		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM September 24, 1942m to September 26, 1942 No. 61

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
391	e	3 51 44		
Sept.	e	4 02 11		
24	L	4 13		
(Cont'd)	F	5 30		
		Seven Falls		
	e	4 16		
	L	4 27		
	F	5 32		
		Ottawa		
392	H	8 14.6	6100	
Sept.	P_Z	8 24 04		
25	S	8 31 50		
	L	8 42		
	F	9 48		
		Victoria		
	e_E	8 20.5		
	L	8 25		
	F	9 56		
		Seven Falls		
	e	8 32.1		
	L	8 44		
	F	10 05		
		Ottawa		
393	H	4 00.4	3650	USCGS. gives:-
Sept.	P	4 07 02		ϕ = 12°.8 N.
26	PPP	4 08 22		λ = 87°.5 W.
	iS	4 12 27		
	e	4 14.8		
	L	4 17		
	F	5 18		
		Victoria		
	H	4 00 ca.	5060	
	P	(4 08.3)		
	S	(4 15.1)		
	SS	(4 18.2)		
	L	(4 25)		
	F	(5 14)		
		Halifax		
	H	4 00.5	4100	
	P	4 07.7		
	S	4 13.6		
	L	4 19		
	F	4 37		

SEISMOLOGICAL SERVICES OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM September 26, 1942 to September 30, 1942 No. 62

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
393 Sept. 26 (Cont'd)	H	4 00.5	3950	
	P	4 07 28		
	PPP	4 09.0		
	S	4 13 12		
	SS	4 16		
	L	4 17		
	F	5 27		
		Shawinigan Falls		
	H	4 00.4	3850	
	P	4 07 19		
	S	4 12 57		
	L	4 17		
	F	4 33		
		Ottawa		
395 Sept. 27	e	13 35.7		
	e_N	13 42		
	L	13 48		
	F	14 19		
		Victoria		
	e_E	13 37.9		
	L	13 55		
	F	14 50		
		Seven Falls		
	e	13 36.5		
	e	13 42.7		
	L	13 49		
	F	15 18		
		Ottawa		
396 Sept. 27	e_Z	17 08 52		
	e	17 14		
	L	17 17		
	F	17 38		
		Seven Falls		
	e	17 15.1		
	e	17 18.1		
	L	17 21		
	F	17 35		
		Ottawa		
398 Sept. 30	e_Z	16 14 38		
	L	16 36		
	F	16 49		

W W Doxsee.

EARTHQUAKE CORRELATION TABLE

Month September, 1942

No.	Date	Ottawa	Victoria	Halifax	Seven Falls		Shawinigan	**
					M. S.	W. A.		
355	1	9 54+0 59u	10 31+0 21L	.....	10 03+1 00u	9 53+0 11u	9 54+0 03P	A
356	1	19 12+0 54u	19 37+0 16L	.....	19 42+0 22L	.....	.....	..
357	1	.....	.....	.....	21 17+0 10L	.....	.....	..
358	2	3 27+1 17u	3 23+1 29r	3 49+0 14L	3 35+1 28u	3 28+0 30u	.....	B
359	2	16 22+0 24u	.....	.....	.....	.....	.....	..
360	2	20 53+0 01P*	.....	.....	.....	.....	.....	..
361	3	.....	.....	.....	8 44+0 11L	.....	.....	..
362	4	3 01+0 42r	3 19+0 18L	.....	3 03+0 56r	.....	3 01+0 20r	C
363	4	17 56+1 14u	17 52+1 03r	.....	18 04+1 06u	.....	17 56+0 11u	E
364	5	.....	.....	.....	.....	14 31+0 01d	14 31+0 0.4v	F
365	5	21 47+0 01P*	.....	.....	.....	.....	.....	..
366	6	16 05+0 42u	.....	.....	16 15+0 38u	16 05+0 03P	16 05+0 06P	..
367	6	20 35+0 01P*	.....	.....	.....	.....	.....	..
368	7	4 58+0 25u	.....	.....	5 12+0 18L	.....	.....	..
369	8	16 21+0 47u	16 18+0 28u	.....	16 31+0 36u	.....	.....	G
370	9	1 35+1 48u	1 31+2 16r	1 44+0 35u	1 35+1 55u	1 35+0 36u	1 35+0 28u	J
371	10	5 07+1 10u	5 12+0 53u	.....	5 25+1 22u	.....	.....	..
372	10	23 47+0 21u	23 44+0 37u	.....	23 57+0 14L	.....	.....	..
373	11	2 04+0 0.5P	.....	.....	.....	.....	.....	..
374	11	11 07+0 06v	.....	.....	.....	11 07+0 03v	11 07+0 02v	..
375	12	5 50+0 50u	6 02+0 43u	.....	6 00+0 51u	.....	.....	..
376	14	11 50+1 10u	11 44+1 12u	.....	12 02+1 23u	.....	.....	N
377	15	22 33+0 02v	.....	.....	.....	.....	22 34+0 0.5v	P
378	15	23 57+1 04u	0 01+0 56u	.....	0 39+0 39L	.....	.....	..
379	17	11 52+0 10P	11 49+0 51u	.....	.....	11 52+0 04P	11 52+0 03P	..
380	18	1 31+0 01P*	.....	.....	.....	.....	.....	..
381	18	5 32+0 01P*	.....	.....	.....	.....	.....	..
382	18	22 30+0 01v*	.....	.....	.....	.....	.....	Q
383	19	7 39+0 01P*	.....	.....	.....	.....	.....	..
384	19	.....	.....	.....	.....	13 27+0 01d	.....	R
385	20	.....	23 55+0 50u	.....	.....	.....	.....	..
386	21	.....	6 13+0 45u	.....	6 43+0 13L	.....	.....	..

EARTHQUAKE CORRELATION TABLE

Month September, 1942

No.	Date	Ottawa	Victoria	Halifax	Seven Falls		Shawinigan	**
					M. S.	W. A.		
387	21	.....	.....	.....	8.05+0.04L	.....	.....	..
388	21	10 05+0 02P*	.....	.....	.....	.....	.....	..
389	22	0 59+1 11u	1 10+0 59u	.....	1 10+1.06u	.....	.....	S
390	23	10 38+0 01P*	.....	.....	.....	.....	.....	..
391	24	4 04+1 29u	3 52+1 38u	.....	4 16+1 16u	.....	.....	..
392	25	8 24+1 24u	8 20+1 36u	.....	8.32+1.33u	.....	.....	T
393	26	4 07+1 11r	4 08+1 06u	4 08+0 29u	4 07+1 20r	4 07+0 24r	4 07+0 26r	U
394	26	10 41+0 02P*	.....	.....	.....	.....	.....	..
395	27	13 36+0 43u	13 38+1 12u	.....	13 37+1 41u	.....	.....	..
396	27	17 09+0 29r	.....	.....	17 15+0 20r	.....	.....	..
397	29	12 53+0 01P	13 15+0 12L	.....	13 03+0 14L	.....	.....	..
398	30	16 15+0 34u	.....	.....	.....	.....	.....	..

CORRELATION OF EARTHQUAKES
September, 1942

N O T E S

A	:	Ottawa	Δ = 8320 km.	H = $9^h42^m.0$ U.T.
		Seven Falls	Δ = 7640 km.	H = 9 42.4 U.T.
B	:	Ottawa	Δ = 6120 km.	H = $3^h17^m.6$ U.T.
		Victoria	Δ = 2990 km.	H = 3 17.6 U.T.
C	:	Ottawa	Δ = 4090 km.	H = $2^h53^m.4$ U.T.
E	:	Ottawa	Δ = 6170 km.	H = $17^h46^m.5$ U.T.
		Shawinigan Falls	Δ = 6290 km.	H = 17 46.5 U.T.
F	:	Seven Falls	Δ = 50 km.	H = $14^h30^m.4$ U.T.
G	:	Ottawa	Δ = 9960 km.	H = $16^h07^m.6$ U.T.
		Victoria	Δ = 7240 km.	H = 16 07.7 U.T.
J	:	Ottawa	Δ = 6020 km.	H = $1^h25^m.5$ U.T.
		Victoria	Δ = 2865 km.	H = 1 25.5 U.T.
		Seven Falls	Δ = 6100 km.	H = 1 25.6 U.T.
		Shawinigan Falls	Δ = 6000 km.	H = 1 25.6 U.T.
K	:	Ottawa	Δ = 6580 km.	H = $5^h40^m.6$ U.T.
N	:	Victoria	Δ = 9720 km.	H = $11^h31^m.4$ U.T.
P	:	Ottawa	Δ = 160 km.	H = $22^h32^m.8$ U.T.
Q	:	Ottawa	Δ = 145 km.	H = $22^h29^m.3$ U.T.
R	:	Seven Falls	Δ = 30 km.	H = $13^h26^m.9$ U.T.
S	:	Ottawa	Δ = 9200 km.	H = $0^h46^m.5$ U.T.
T	:	Ottawa	Δ = 6100 km.	H = $8^h14^m.6$ U.T.
U	:	Ottawa	Δ = 3650 km.	H = $4^h00^m.4$ U.T.
		Victoria	Δ = 5060 km.	H = 4 00 ca. U.T.
		Halifax	Δ = 4100 km.	H = 4 00.5 U.T.
		Seven Falls	Δ = 3950 km.	H = 4 00.5 U.T.
		Shawinigan Falls	Δ = 3850 km.	H = 4 00.4 U.T.

Dominion Observatory,
Ottawa, Canada,
December 22, 1942.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

October

1942

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DOMINION OBSERVATORY

OTTAWA - CANADA

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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

ϕ = 45°23'38" N. λ = 75°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

ϕ = 44°38' N. λ = 63°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

ϕ = 47°07!4 N. λ = 70°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

ϕ = 48°31'14" N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33.1 N. λ = 72°45.8 W. h = 60m. 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.

KIRKLAND LAKE

Lake Shore Mines

ϕ = 48°09' N. λ = 80°03' W. h = 320m.

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_o	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.	
KL (Kirkland Lake)	1/30	2×10^4	at 30 cycles		

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CAN
DOMINION OBSERVATORY, OTTAWA

FROM October 1, 1942 to October 8, 1942 No. 63

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
400 Oct. 1	H	20 58.3	250	
	P_2	20 58 59		
	S_2	20 59 27.5		
	F	21 00		
		Ottawa		
405 Oct. 6	H	2 53.4	3960	
	P_Z	3 05 22		
	PPP	3 06 45		
	S_E	3 11 07		
	L	3 17		
	F	4 06		
		Seven Falls		
	e	3 12.0		
	L	3 20		
	F	4 12		
		Ottawa		
408 Oct. 6	e_Z	12 19 11		
	L	12 54		
	F	13 22		
		Victoria		
	e_E	12 14		
	L	12 32		
	F	13 15		
		Ottawa		
410 Oct. 8	H	3 02.8	4280	
	P_Z	3 10 14		
	PP_N	3 11.7		
	S	3 16 19		
	SS	3 19.0		
	L	3 23		
	F	4 07		
		Victoria		
	e	3 20		
	L	3 31		
	F	3 53		
		Seven Falls		
	H	3 02.9	4580	
	P	3 10 42		
	S	3 17 04		
	L	3 20		
	F	4 04		
		Ottawa		
413 Oct. 8	e_Z	20 21 26		
	L	21 04		
	F	21 30		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM October 8, 1942 to October 16, 1942 No. 64

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
413 Oct. 8 (Cont'd)	e	20 25		
	L	20 44		
	F	21 12		
		Ottawa		
414 Oct. 9	e_Z	0 53.5		
	e	1 04		
	L	1 16		
	F	1 32		
		Ottawa		
415 Oct. 9	e_Z	16 04 46		
	e_E	16 15.2		
	L	16 35		
	F	18 05		
		Seven Falls		
	e	16 03.1		
	e	16 05 07		
	e	16 14.4		
	L	16 39		
	F	18 12		
		Ottawa		
417 Oct. 12	e_Z	1 26 40		
	e_E	1 34 50		
	L	1 42		
	F	2 10		
		Seven Falls		
	e	1 35 17		
	L	1 46		
	F	2 08		
		Ottawa		
418 Oct. 12	H	6 10.2	9300	
	P_Z	6 22 36		
	eS	6 33.0		
	L	6 45		
	F	7 05		
		Ottawa		
422 Oct. 15	e_Z	15 00 09		
	L	15 11		
	F	15 21		
		Ottawa		
423 Oct. 16	H	18 30.0	145	
	P_2	18 30 23		
	S_2	18 30 40		
	e	18 30 50		
	F	18 31.2		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM October 16, 1942 to October 21, 1942 No. 65

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
427 Oct. 18	e_Z	5 31 52		
	e_N	5 37.3		
	L	5 42		
	F	6 20		
		Victoria		
	e	5 35.7		
	L	5 40		
	F	6 30		
		Ottawa		
428 Oct. 18	e_Z	11 44 58		
	L	11 58		
	F	12 05		
		Ottawa		
429 Oct. 20 and 21	H	23 21.7	14,000	
	P'	23 40 45		
	PP	23 42 32		
	SKS	23 48.1		
	PS	23 52.6		
	PPS	23 54.5		
	SS	23 59 27		
	SSS	0 05.4		
	L	0 16		
	F	2 16		
		Victoria	11,200	
	H	23 21.8		
	P_E	23 35 43		
	PP	23 39 43		
	PPP	23 41.6		
	SKS	23 46 19		
	PPS	23 49 12		
	L	0 07		
	F	2 30		
		Halifax		
	e_N	23 42.8		
	e	23 58.8		
	L	0 19		
	F	1 11		
		Seven Falls		
	e	23 43.1		
	e	23 48.6		
	e	23 55 49		
	e	23 59 16		
	L	0 14		
	F	2 00		
		Ottawa		
430 Oct. 21	H	16 22.2	3700	USCGS. gives:-
	P	16 28 55		ϕ = 33°.1 N.
	S	16 34 24		λ = 116°.0 W.
	SS	16 36 45		
	i_N	16 37 22		
	L	16 39		
	F	18 27		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM October 21, 1942 to October 25, 1942 No. 66

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
430 Oct. 21 (Cont'd)	H	16 22.2	1910	
	P	16 26 11		
	S	16 29 29		
	L	16 31		
	F	17 47		
		Seven Falls		
	H	16 22.3	4090	
	P	16 29 28		
	S	16 35 21		
	SSS	16 38.9		
	L	16 42		
	F	18 10		
		Shawinigan Falls		
	e	16 29 15		
	L	16 38		
	F	17 18		
		Ottawa		
431 Oct. 22	H	1 50.8	3600	
	P_Z	1 57 20		
	S	2 02 42		
	L	2 07		
	F	3 12		
		Victoria		
	e	1 57 50		
	e	1 59.6		
	L	2 02		
	F	2 57		
		Seven Falls		
	e	2 03.7		
	e	2 06.6		
	L	2 10		
	F	3 38		
		Ottawa		
435 Oct. 24	H	16 47.2	145	
	P_1	16 47 40		
	S_1	16 47 57		
	e	16 48 07		
	F	16 48.4		
		Ottawa		
437 Oct. 25	e_Z	2 42 30		
	L	2 56		
	F	3 00		
		Ottawa		
440 Oct. 25	e_Z	8 53 50		
	L	9 49		
	F	10 13		

SEISMOLOGICAL SERVICE OF CAN
DOMINION OBSERVATORY, OTTAWA

FROM October 25, 1942 to October 28, 1942 No. 67

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
441 Oct. 26	H	21 09.4	8650	USCGS. gives:-
	P	21 21 18		ϕ = 45°.0 N.
	PP	21 24.2		λ = 152° E.
	S	21 31 14		
	SS	21 37.0		
	L	21 45		
	F	23 32		
		Victoria		
	H	21 09.4	6000	
	P	21 18 43		
	S	21 26 23		
	e_N	21 28 28		
	SS	21 30.0		
	L	21 35		
	F	23 26		
		Seven Falls		
	H	21 09.6	8560	
	P	21 21 29		
	S	21 31 21		
	SS	21 36 23		
	SSS	21 39.4		
	L	21 45		
	F	0 00		
		Shawinigan Falls		
	H	21 09.4	8700	
	P	21 21 19		
	S	21 31 17		
	F	21 35		
		Ottawa		
442 Oct. 27	e_Z	17 50 05		
	e	17 55.5		
	L	18 03		
	F	18 09		
		Ottawa		
443 Oct. 28	e_Z	2 34 08		
	L	2 55		
	F	3 16		
		Ottawa		
444 Oct. 28	H	10 44.8	3760	USCGS. gives:-
	P	10 51 32		ϕ = 15°.5 ± N.
	S	10 57 04		λ = 96°.4 ± W.
	SSS	10 59.8		
	L	11 03		
	F	11 58		
		Victoria		
	H	10 45.1	4240	
	P	10 52 25		
	S	10 58 27		
	SSS	11 01.9		
	L	11 04		
	F	12 05		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM October 28, 1942 to October 31, 1942 No. 68

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
444 Oct. 28 (Cont'd)	H	10 44.8	4120	
	P	10 52 02		
	PPP	10 53 31		
	S	10 57 57		
	L	11 03		
	F	11 54		
		Shawinigan Falls		
	P	10 51 49		
	L	11 06		
	F	11 16		
		Ottawa		
445 Oct. 29	eZ	21 49 26		
	e	21 56 10		
	e	22 05		
	L	22 20		
	F	22 40		
		Seven Falls		
	e	21 57.0		
	L	22 20		
	F	22 32		
		Ottawa		
448 Oct. 31	eZ	15 30 16		
	L	15 42		
	F	15 51		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month October, 1942

No.	Date	Ottawa	Victoria	Halifax	Seven Falls		Shawinigan	**
					M. S.	W. A.		
399	1	19 32+0 01P*	.....	.....	.....	.....	.....	..
400	1	20 59+0 01v*	.....	.....	.....	.....	.....	A
401	2	20 17+0 01P*	.....	.....	.....	.....	.....	..
402	2	20 31+0 0.6v*	.....	.....	.....	.....	.....	..
403	3	.....	10 32+0 06L	.....	.....	.....	.....	..
404	5	1 11+0 02P*	.....	.....	.....	.....	.....	..
405	6	3 05+1 00r	3 01+0 21L	.....	3 12+1 00r	.....	.....	B
406	6	.....	3 40+0 24L	.....	.....	.....	.....	..
407	6	12 09+0 02P	.....	.....	.....	12 09+0 02P	.....	..
408	6	12 19+1 03u	12 14+1 01u	.....	.....	.....	.....	..
409	6	14 34+0 04P	.....	.....	.....	.....	.....	..
410	8	3 10+0 57r	3 20+0 32r	.....	3 17+0 47r	3 11+0 02P	3 11+0 03P	C
411	8	14 14+0 0.6P*	.....	.....	.....	.....	.....	..
412	8	17 49+0 0.5P*	.....	.....	.....	.....	.....	..
413	8	20 21+1 09u	20 25+0 47u	.....	21 03+0 27L	.....	.....	..
414	9	0 54+0 38u	1 24+0 20L	.....	1 18+0 15L	.....	.....	..
415	9	16 05+2 00u	17 05+0 28L	16 40+0 14L	16 03+2 09u	.....	.....	..
416	9	20 31+0 01P*	.....	.....	.....	.....	.....	..
417	12	1 27+0 53u	.....	.....	1 35+0 33u	.....	.....	..
418	12	6 23+0 42u	.....	.....	6 47+0 16L	.....	.....	E
419	14	0 32+0 19L	.....	.....	.....	.....	0 33+0 03L	..
420	14	5 04+0 01P*	.....	.....	.....	.....	.....	..
421	15	4 00+0 01P*	.....	.....	.....	.....	.....	..
422	15	15 00+0 21u	.....	.....	15 10+0 10L	15 00+0 01P	.....	..
423	16	18 30+0 01v*	.....	.....	.....	.....	.....	F
424	16	23 48+0 08L	.....	.....	.....	.....	.....	..
425	17	4 00+0 03P	.....	.....	.....	4 01+0 01P	.....	..
426	17	20 21+0 02P	.....	.....	.....	.....	.....	..
427	18	5 32+0 48u	5 36+0 54u	5 47+0 12L	5 42+0 39L	5 45+0 11L	5 44+0 08L	..
428	18	11 45+0 20u	.....	.....	.....	.....	.....	..
429	20	23 41+2 35U	23 36+2 54U	23 43+1 28U	23 43+2 17U	.....	23 41+0 04P	G
430	21	16 29+1 58R	16 26+1 21R	16 43+0 34L	16 29+1 41R	16 29+0 54R	16 29+0 49R	J
431	22	1 57+1 15R	1 58+0 59R	2 12+0 20L	2 04+1 34R	2 09+0 13L	2 04+0 25L	K

EARTHQUAKE CORRELATION TABLE

Month October, 1942

No.	Date	Ottawa	Victoria	Halifax	Seven Falls		Shawinigan	**
					M. S.	W. A.		
432	22	3 19+0 01P	.....	.....	.....	.....	.....	..
433	22	.....	6 25+0 04L	.....	.....	.....	.....	..
434	22	18 31+0 05L	.....	.....	.....	.....	.....	..
435	24	16 48+0 0.7v*	.....	.....	.....	.....	.....	M
436	24	17 29+0 0.7v*	.....	.....	.....	.....	.....	..
437	25	2 42+0 18u	.....	.....	.....	.....	.....	..
438	25	3 09+0 02P*	.....	.....	.....	.....	.....	..
439	25	.....	.....	.....	7 58+0 10L	.....	.....	..
440	25	8 54+1 19u	.....	.....	9 46+0 57L	.....	.....	..
441	26	21 21+2 11u	21 19+2 07u	.....	21 21+2 39u	21 31+0 02P	.....	N
442	27	17 50+0 19r	.....	.....	18 02+0 03L	.....	.....	..
443	28	2 34+0 42u	3 12+0 24L	.....	2 54+0 30L	.....	.....	..
444	28	10 52+1 06r	10 52+1 13r	11 05+0 20L	10 52+1 02r	10 52+0 06P	10 52+0 24r	Q
445	28	.....	.....	.....	16 23+0 05L	.....	.....	..
446	29	21 49+0 51u	.....	.....	21 57+0 35u	.....	.....	..
447	30	.....	.....	.....	.....	23 25+0 0.3d	.....	R
448	31	15 30+0 21r	.....	.....	15 44+0 17L	.....	15 31+0 02P	..

CORRELATION OF EARTHQUAKES
October, 1942

N O T E S

A :	Ottawa	Δ = 250 km.	H = $20^h58^m.3$ U.T.
B :	Ottawa	Δ = 3960 km.	H = $2^h58^m.4$ U.T.
C :	Ottawa	Δ = 4280 km.	H = $3^h02^m.8$ U.T.
	Seven Falls	Δ = 4580 km.	H = 3 02.9 U.T.
E :	Ottawa	Δ = 9300 km.	H = $6^h10^m.2$ U.T.
F :	Ottawa	Δ = 145 km.	H = $18^h30^m.0$ U.T.
G :	Ottawa	Δ = 14,000 km.	H = $23^h21^m.7$ U.T.
	Victoria	Δ = 11,200 km.	H = 23 21.8 U.T.
J :	Ottawa	Δ = 3700 km.	H = $16^h22^m.2$ U.T.
	Victoria	Δ = 1910 km.	H = 16 22.2 U.T.
	Seven Falls	Δ = 4090 km.	H = 16 22.3 U.T.
K :	Ottawa	Δ = 3600 km.	H = $1^h50^m.8$ U.T.
M :	Ottawa	Δ = 145 km.	H = $16^h47^m.2$ U.T.
N :	Ottawa	Δ = 8650 km.	H = $21^h09^m.4$ U.T.
	Victoria	Δ = 6000 km.	H = 21 09.4 U.T.
	Seven Falls	Δ = 8560 km.	H = 21 09.6 U.T.
	Shawinigan Falls	Δ = 8700 km.	H = 21 09.4 U.T.
Q :	Ottawa	Δ = 3760 km.	H = $10^h44^m.8$ U.T.
	Victoria	Δ = 4240 km.	H = 10 45.1 U.T.
	Seven Falls	Δ = 4120 km.	H = 10 44.8 U.T.

R : Origin probably within 50 km. of Seven Falls station.

Dominion Observatory,
Ottawa, Canada,
January 5, 1943.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

November

1942

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

ϕ = 45°23'38" N. λ = 75 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

ϕ = 44°38' N. λ = 63°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

ϕ = 47°07'.4 N. λ = 70°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

ϕ = 48°31"14' N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33'.1 N. λ = 72°45'.8 W. h = 60m. 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

ϕ = 52°08' N. λ = 106°38' W. h = 515m.
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.
Note: This replaces Mainka instruments dismantled in August.

KIRKLAND LAKE

Lake Shore Mines

ϕ = 48°09' N. λ = 80°03' W. h = 320m,
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_o	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 November 1, 1942 to November 6, 1942 No. 69

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
449 Nov. 1	e_Z	15 46 28		
	L	15 54		
	F	16 03		
		Ottawa		
451 Nov. 1	e_Z	18 55.7		
	L	19 02		
	F	19 12		
		Ottawa		
452 Nov. 2	H	18 05.7	150	
	P_2	18 06 04.5		
	S_2	18 06 22		
	F	18 06.9		
		Ottawa		
455 Nov. 3	e	0 26.4		
	e_E	0 28.6		
	L	0 46		
	F	2 33		
		Seven Falls		
	e	0 24.4		
	e	0 28 56		
	L	0 52		
	F	2 38		
		Ottawa		
460 Nov. 5	e_Z	2 44 47		
	e_N	2 51.6		
	L	2 58		
	F	3 26		
		Ottawa		
463 Nov. 5	e_Z	11 54 06		
	e_N	11 59 26		
	e	12 00 00		
	e_E	12 02.5		
	L	12 05		
	F	12 40		
		Ottawa		
464 Nov. 6	H	13 31.3	5500	
	P	13 40 05		
	S	13 47 17		
	PS	13 48 06		
	SS	13 52		
	L	13 56		
	F	14 11		
		Victoria		
	H	13 31.3	7300	
	P	13 41 57		
	S	13 50 50		
	F	13 55		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM November 6, 1942 to November 10, 1942 No. 70

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
464 Nov. 6 (Cont'd)	H	13 31.5	5800	
	P	13 40 20		
	S	13 47 50		
	PS	13 48 41		
	L	13 53		
	F	14 14		
		Shawinigan Falls		
	H	13 31.3	5650	
	P	13 40 15		
	S	13 47 36		
	F	13 50		
		Ottawa		
465 Nov. 7	e_Z	7 51 24		
	e	7 54 58		
	e_N	8 01 05		
	L	8 38		
	F	9 33		
		Seven Falls		
	e	8 13		
	L	8 40		
	F	9 29		
		Ottawa		
466 Nov. 7	H	16 29.3	210	
	P_2	16 29 50		
	S_2	16 30 14		
	F	16 30.7		
		Ottawa		
468 Nov. 8	e_Z	10 26 58		
	L	10 53		
	F	11 00		
		Ottawa		
471 Nov. 10	H	11 41.3	15,000	USCGS. gives:-
	P'	12 00 38		ϕ = 35° S.
	i_Z	12 00 44		λ = 46°5 E.
	PP	12 03 06		
	SKP	12 04 06		
	PPP	12 06 05		
	S	12 11 20		
	PS	12 13 24		
	PPS	12 15 08		
	SS	12 20 42		
	SSS	12 25 28		
	L	12 35		
	F	17 11		

SEISMOLOGICAL SERVICE OF CAN
DOMINION OBSERVATORY, OTTAWA

FROM November 10, 1942 to November 11, 1942 No. 71

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
471 Nov. 10 (Cont'd)	H	11 41.3	18,700	
	P_1	12 01 27		
	e	12 02 02		
	P_2'	12 02 40		
	PP	12 06 21		
	SS	12 27 30		
	SSS	12 33 23		
	L	12 47		
	F	15 46		
		Halifax		
	H	11 41.7	13,900	
	PP	12 02 28		
	SKP	12 04.0		
	SKKS	12 09 09		
	S	12 10 24		
	PS	12 12 32		
	SS	12 19.0		
	SSS	12 23 33		
	L	12 37		
	F	14 37		
		Seven Falls		
	H	11 41.3	15,000	
	P'	12 00 39		
	PP	12 03 06		
	SKP	12 03 59		
	S	12 11 17		
	SS	12 20.3		
	e	12 35		
	L	12 42		
	F	17 08		
		Shawinigan Falls		
	H	11 41.3	15,000	
	P'	12 00 41		
	PP	12 03.2		
	SKP	12 04.2		
	PPP	12 05.9		
	SS	12 19.9		
	SSS	12 25.4		
	L?	12 36		
	F	14 38		
		Ottawa		
472 Nov. 11	H	13 06.3	3850	
	P_Z	13 13 08		
	PPP	13 14 52		
	S	13 18 46		
	SSS	13 22		
	L	13 25		
	F	13 40		
		Seven Falls		
	e	13 19.4		
	L	13 22		
	F	13 37		

SEISMOLOGICAL SERVICE OF CAN
DOMINION OBSERVATORY, OTTAWA

FROM November 11, 1942 to November 12, 1942 No. 72

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
474 Nov. 12	H	4 55.7	3400	USCGS. gives:-
	PZ	5 01 57		ϕ = 16°8 ± N.
	eZ	5 02 16		λ = 94°2 ± W.
	i	5 02 24		
	e	5 03 08		
	S	5 07 06		
	eE	5 07 42		
	SS	5 09 16		
	L	5 11		
	F	6 11		
		Victoria		
	H	4 55.9	4240	
	P	5 03 14		
	S	5 09 16		
	SSS	5 12.9		
	L	5 17		
	F	6 10		
		Seven Falls		
	H	4 55.8	3840	
	P	5 02 26		
	PPP	5 04 02		
	S	5 08 04		
	L	5 11		
	F	6 13		
		Shawinigan Falls		
	P	5 02 16		
	e	5 09.4		
	F	5 20		
		Ottawa		
475 Nov. 12	H	15 26.2	5150	
	P	15 34 39		
	PP	15 36 31		
	S	15 41 32		
	SS	15 45 12		
	L	15 49		
	F	16 52		
		Victoria		
	H	15 26.5	6720	
	P	15 36 35		
	S	15 44 57		
	L	15 56		
	F	16 36		
		Seven Falls		
	e	15 35.0		
	L	15 42		
	F	17 20		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM November 12, 1942 to November 16, 1942 No. 73

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
479 Nov. 14	i_Z	5 40 10		
	e_N	5 52.0		
	e_E	5 53.8		
	e_N	5 59.3		
	L	6 20		
	F	7 34		
		Victoria		
	e_E	(5 47.9)		
	L	(6 01)		
	F	(7 52)		
		Seven Falls		
	e	5 52.1		
	e	6 00		
	L	6 18		
	F	7 28		
		Ottawa		
480 Nov. 14	e_Z	18 07 14		
	e	18 14		
	L	18 21		
	F	18 48		
		Ottawa		
483 Nov. 15	H	17 12.1	10,040	
	P	17 25 08		
	S	17 36 04		
	SS	17 42.4		
	SSS	17 45.9		
	L	17 57		
	F	19 32		
		Victoria		
	H	17 12.5	7120	
	P	17 23 03		
	S	17 31 47		
	L	17 40		
	F	19 00 ca.		
		Seven Falls		
	e	17 28.1		
	i	17 36 06		
	e	17 49.7		
	L	17 57		
	F	19 39		
		Ottawa		
484 Nov. 16	H	0 13.5	95	
	P_1	0 13 48		
	S_1	0 13 59		
	e	0 14 04		
	F	0 19		

SEISMOLOGICAL SERVICE OF CA
DOMINION OBSERVATORY, OTTAWA

FROM November 16, 1942 to November 19, 1942 No. 74

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
484 Nov. 16 (Cont'd)	H	0 13.5	320	
	P_g	0 14 25		
	S_g	0 15 01		
	F	0 16.4		
		Shawinigan Falls		
	H	0 13.5	190	
	P_2	0 14 00.5		
	S_2	0 14 22		
	F	0 17		
		Ottawa		
486 Nov. 17	e_Z	10 21 03		
	L	10 57		
	F	11 30		
		Ottawa		
487 Nov. 17	H	23 19.7	6650	
	P_Z	23 29 45		
	S_E	23 38 03		
	L	23 48		
	F	0 13		
		Victoria		
	e_N	23 41 22		
	L	0 02		
	F	0 17		
		Seven Falls		
	e	23 38 25		
	L	23 48		
	F	0 10		
		Ottawa		
490 Nov. 19	H	8 51.8	5100	USCGS, gives:-
	P	9 00 14		ϕ = 1° S.
	PP	9 02 08		λ = 81° W.
	S	9 07 05		
	SSS	9 11.2		
	L	9 14		
	F	10 33		
		Victoria		
	S-P	8 22	6720	No chronometer signals.
		Halifax		
	H	8 52.2	5150	
	P_N	9 00 39		
	S	9 07 32		
	L	9 18		
	F	9 40		
		Seven Falls		
	e	9 00 49		
	S	9 07 30		
	SSS	9 11.8		
	L	9 16		
	F	11 08		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM November 19, 1942 to November 25, 1942 No. 75

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
493 Nov. 19	H	14 40.0	5050	
	P_Z	14 48 19		
	PP_N	14 50 16		
	S_N	14 55 06		
	SS	14 58.5		
	L	15 03		
	F	15 21		
		Seven Falls		
	e	14 55 44		
	L	15 00		
	F	15 16		
		Seven Falls		
499 Nov. 21	H	15 07.4	155	
	P_2	15 07 50		
	S_2	15 08 08		
	F	15 09		
		Ottawa		
500 Nov. 22	e_Z	16 23 26		
	L	17 06		
	F	18 00		
		Ottawa		
501 Nov. 25	H	1 17.9	3850	Tacubaya gives:- ϕ = 16°16' N. λ = 97°48' W.
	P	1 24 47		
	PP_N	1 26 17		
	S	1 30 25		
	SS	1 32 33		
	L	1 36		
	F	2 47		
		Victoria		
	H	1 18.0	4190	
	P	1 25 20		
	S	1 31 19		
	e	1 35 35		
	L	1 38		
	F	2 22		
		Saskatoon		
	H	1 18.2	3865	
	P	1 25 06		
	S	1 30 45		
	SSS	1 33 39		
	L	1 35		
	F	2 29		
		Seven Falls		
	H	1 17.9	4260	
	P	1 25 19		
	PPP	1 26 57		
	S	1 31 23		
	L	1 38		
	F	2 34		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM November 25, 1942 to November 27, 1942 No. 76

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
501 Nov. 25 (Cont'd)	H	1 17.8	4200	
	P	1 25 06		
	S	1 31.1		
	L	1 44		
	F	1 55		
		Ottawa		
502 Nov. 26	H	14 27.6	8700	
	P	14 39 34		
	S	14 49 32		
	L	15 03		
	F	16 05		
		Victoria		
	H	14 27.7	6020	
	P	14 37 04		
	S	14 44 46		
	SSS	14 50.7		
	L	14 54		
	F	16 00 ca.		
		Saskatoon		
	H	14 28.3	6420	
	P	14 38 07		
	S	14 46 12		
	SS	14 50.2		
	SSS	14 53		
	L	14 56		
	F	15 34		
		Seven Falls		
	H	14 27.7	8620	
	P	14 39 37		
	S	14 49 32		
	PS	14 50 19		
	e	14 58 41		
	L	15 03		
	F	15 29		
		Shawinigan Falls		
	H	14 27.6	8780	
	P	14 39 37		
	S	14 49 39		
	F	14 53		
		Ottawa		
504 Nov. 27	H	14 18.4	145	
	P_1	14 18 49		
	S_1	14 19 06		
	e	14 19 17		
	F	14 19.6		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM November 27, 1942 to November 30, 1942 No. 77

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
505 Nov. 28	H	10 39.0	5550	
	P	10 47 51		
	PP	10 50 02		
	S	10 55 07		
	e	10 57 20		
	SS	10 58 44		
	SSS	11 00 30		
	L	11 03		
	F	12 47+		
		Victoria		
	H	10 38.9	9180	
	P	10 51 14		
	S	11 01 33		
	L	11 15		
	F	13 33		
		Saskatoon		
	H	10 39.1	7880	
	P	10 50 19		
	S	10 59 38		
	SS	11 04		
	SSS	11 08		
	L	11 10		
	F	13 16		
		Seven Falls		
	H	10 39.0	5400	
	P	10 47 39		
	S	10 54 46		
	SS	10 58.5		
	SSS	10 59.8		
	L	11 02		
	F	13 52		
		Shawinigan Falls		
	H	10 38.9	5540	
	P	10 47 42		
	S	10 54 57		
	SS	10 58.6		
	SSS	11 00.3		
	L	11 07		
	F	11 22		
		Ottawa		
506 Nov. 30	H	0 48.1	7120	
	PZ	0 58 34		
	S	1 07 18		
	F	1 12+		
		Seven Falls		
	H	0 48.1	7180	
	P	0 58 42		
	S	1 07 29		
	F	1 09		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month November, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
449	1	15 46+0 17r	.....	.....	.....	15 57+0 07L	15 55+0 06L	15 53+0 06L	..
450	1	.....	.....	.....	.....	.....	16 36+0 0.7d	.....	..
451	1	18 56+0 16r	.....	.....	.....	19 06+0 04L	19 03+0 11L	19 02+0 12L	..
452	2	18 06+0 0.8v*	.....	.....	.....	.....	.....	.....	A
453	2	.....	.....	.....	.....	18 27+0 05L	.....	.....	..
454	2	23 03+0 01P	.....	.....	.....	23 50+0 23L	.....	.....	..
455	3	0 26+2 07u	.....	.....	.....	0 24+2 14u	.....	.....	..
456	3	.....	.....	.....	.....	14 10+0 09L	.....	.....	..
457	3	16 54+0 01P*	.....	.....	.....	.....	.....	.....	..
458	3	23 54+0 13L	.....	.....	.....	23 55+0 13L	.....	.....	..
459	4	.....	.....	.....	.....	11 11+0 08L	.....	.....	..
460	5	2 45+0 41u	.....	.....	.....	3 00+0 26L	.....	.....	..
461	5	10 47+0 01P*	.....	.....	.....	.....	.....	.....	..
462	5	11 46+0 01P*	.....	.....	.....	.....	.....	.....	..
463	5	11 54+0 46u	12 15+0 09L	.....	.....	.....	.....	11 54+0 02P	..
464	6	13 40+0 31u	13 42+0 23u	.....	.....	13 40+0 33u	13 40+0 04P	13 40+0 10u	B
465	7	7 51+1 42u	.....	.....	.....	8 13+1 16u	.....	7 52+0 07P	..
466	7	16 30+0 0.8v*	.....	.....	.....	.....	.....	.....	C
467	8	10 04+0 01P*	.....	.....	.....	.....	.....	.....	..
468	8	10 27+0 33u	.....	.....	.....	.....	.....	.....	..
469	9	4 09+0 06P	.....	.....	.....	.....	.....	.....	..
470	9	10 42+0 01P*	.....	.....	.....	.....	.....	.....	..
471	10	12 01+5 10U	12 01+3 45U	.....	12 02+2 35U	12 01+5 07U	12 01+2 31U	12 01+2 37U	E
472	11	.....	.....	.....	.....	2 28+0 13L	.....	.....	..
473	11	13 13+0 27r	.....	.....	.....	13 19+0 18r	.....	.....	F
474	12	5 02+1 09r	5 03+1 07r	.....	5 13+0 07L	5 02+1 11r	5 02+0 19r	5 02+0 19r	G
475	12	15 35+1 17u	15 37+0 59u	.....	.....	15 35+1 45u	.....	15 35+0 03P	J
476	12	16 10+0 01P*	.....	.....	.....	.....	.....	.....	..
477	12	18 08+0 01P	.....	.....	.....	.....	.....	.....	..
478	13	14 40+0 0.2P*	.....	.....	.....	.....	.....	.....	..
479	14	5 40+1 54u	5 48+2 04u	.....	.....	.....	5 52+1 36u	.....	..
480	14	18 07+0 41u	18 34+0 07L	.....	.....	.....	18 16+0 17L	.....	..
481	14	21 05+0 01P*	.....	.....	.....	.....	.....	.....	..
482	15	17 13+0 02P*	.....	.....	.....	.....	.....	.....	..

EARTHQUAKE CORRELATION TABLE

Month November, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
483	15	17 25+2 07u	17 23+1 37u	.....	18 03+0 16L	17 28+2 11u	.....	17 25+0 02P	K
484	16	0 14+0 05d	.....	.....	.....	.....	0 14+0 02v	0 14+0 03v	M
485	16	21 39+0 0.5P*	.....	.....	.....	.....	.....	.....	..
486	17	10 21+1 09u	.....	.....	.....	11 07+0 34L	.....	.....	..
487	17	23 30+0 43u	23 41+0 36u	.....	.....	23 38+0 32u	.....	.....	N
488	18	.....	7 38+0 08L	.....	.....	.....	.....	.....	..
489	18	.....	.....	.....	.....	12 53+0 13L	.....	.....	..
490	19	9 00+1 33u	9 ca+2 ca	.....	9 01+0 39u	9 01+2 07u	9 01+0 37u	9 00+0 37u	Q
491	19	9 17+0 05P	.....	.....	.....	.....	9 18+0 02P	9 17+0 05P	..
492	19	13 43+0 02P*	.....	.....	.....	.....	.....	.....	..
493	19	14 48+0 33u	15 13+0 10L	.....	.....	14 56+0 21u	.....	.....	R
494	19	16 41+0 03P*	.....	.....	.....	.....	.....	.....	..
495	19	20 28+0 01P*	.....	.....	.....	.....	.....	.....	..
496	20	4 11+0 03P	.....	.....	.....	.....	.....	.....	..
497	21	13 42+0 01P*	.....	.....	.....	.....	.....	.....	..
498	21	14 13+0 02P*	.....	.....	.....	14 35+0 17L	14 13+0 01P	.....	..
499	21	.....	.....	.....	.....	.....	15 07+0 01v	.....	S
500	22	16 23+1 37u	.....	.....	.....	17 09+0 51L	.....	.....	..
501	25	1 25+1 22r	1 25+0 57r	1 25+1 04r	.....	1 25+1 09r	1 25+0 24r	1 25+0 30r	T
502	26	14 40+1 25u	14 37+1 23u	14 38+0 56u	.....	14 50+0 40u	14 40+0 13u	14 40+0 13u	V
503	27	.....	10 59+0 13L	11 05+0 08L	.....	.....	.....	.....	..
504	27	14 19+0 0.8v*	.....	.....	.....	.....	.....	.....	W
505	28	10 48+2 00u	10 51+2 42u	10 50+2 26u	.....	10 48+3 10u	10 48+0 50u	10 48+0 34u	X
506	30	0 59+0 13u	.....	.....	.....	.....	0 59+0 10u	0 59+0 09P	..
507	30	21 00+0 01P*	.....	.....	.....	.....	.....	.....	..

CORRELATION OF EARTHQUAKES
November, 1942

N O T E S

A :	Ottawa	Δ = 150 km.	H = $18^h05^m.7$ U.T.
B :	Ottawa	Δ = 5500 km.	H = $13^h31^m.3$ U.T.
	Victoria	Δ = 7300 km.	H = 13 31.3 U.T.
	Seven Falls	Δ = 5800 km.	H = 13 31.5 U.T.
	Shawinigan Falls	Δ = 5650 km.	H = 13 31.3 U.T.
C :	Ottawa	Δ = 210 km.	H = $16^h29^m.3$ U.T.
E :	Ottawa	Δ = 15,000 km.	H = $11^h41^m.3$ U.T.
	Victoria	Δ = 18,700 km.	H = 11 41.3 U.T.
	Halifax	Δ = 13,900 km.	H = 11 41.7 U.T.
	Seven Falls	Δ = 15,000 km.	H = 11 41.3 U.T.
	Shawinigan Falls	Δ = 15,000 km.	H = 11 41.3 U.T.
F :	Ottawa	Δ = 3850 km.	H = $13^h06^m.3$ U.T.
G :	Ottawa	Δ = 3400 km.	H = $4^h55^m.7$ U.T.
	Victoria	Δ = 4240 km.	H = 4 55.9 U.T.
	Seven Falls	Δ = 3840 km.	H = 4 55.8 U.T.
J :	Ottawa	Δ = 5150 km.	H = $15^h26^m.2$ U.T.
	Victoria	Δ = 6720 km.	H = 15 26.5 U.T.
K :	Ottawa	Δ = 10,040 km.	H = $17^h12^m.1$ U.T.
	Victoria	Δ = 7120 km.	H = 17 12.5 U.T.
M :	Ottawa	Δ = 95 km.	H = $0^h13^m.5$ U.T.
	Seven Falls	Δ = 320 km.	H = 0 13.5 U.T.
	Shawinigan Falls	Δ = 190 km.	H = 0 13.5 U.T.
N :	Ottawa	Δ = 6650 km.	H = $23^h19^m.7$ U.T.
Q :	Ottawa	Δ = 5100 km.	H = 8 51.8 U.T.
	Victoria	Δ = 6720 km.	Time uncertain
	Halifax	Δ = 5150 km.	H = 8 52.2 U.T.
* S :	Seven Falls	Δ = 155 km.	H = $15^h07^m.4$ U.T.
T :	Ottawa	Δ = 3850 km.	H = $1^h17^m.9$ U.T.
	Victoria	Δ = 4190 km.	H = 1 18.0 U.T.
	Saskatoon	Δ = 3865 km.	H = 1 18.2 U.T.
	Seven Falls	Δ = 4260 km.	H = 1 17.9 U.T.
	Shawinigan Falls	Δ = 4200 km.	H = 1 17.8 U.T.
V :	Ottawa	Δ = 8700 km.	H = $14^h27^m.6$ U.T.
	Victoria	Δ = 6020 km.	H = 14 27.7 U.T.
	Saskatoon	Δ = 6420 km.	H = 14 28.3 U.T.
	Seven Falls	Δ = 8620 km.	H = 14 27.7 U.T.
	Shawinigan Falls	Δ = 8780 km.	H = 14 27.6 U.T.
W :	Ottawa	Δ = 145 km.	H = $14^h18^m.4$ U.T.
X :	Ottawa	Δ = 5550 km.	H = $10^h39^m.0$ U.T.
	Victoria	Δ = 9180 km.	H = 10 38.9 U.T.
	Saskatoon	Δ = 7880 km.	H = 10 39.1 U.T.
	Seven Falls	Δ = 5400 km.	H = 10 39.0 U.T.
	Shawinigan Falls	Δ = 5540 km.	H = 10 38.9 U.T.
Y :	Ottawa	Δ = 7120 km.	H = $0^h48^m.1$ U.T.
	Seven Falls	Δ = 7180 km.	H = 0 48.1 U.T.
* R :	Ottawa	Δ = 5050 km.	H = $14^h40^m.0$ U.T.

Dominion Observatory,
Ottawa , Canada,
January 7, 1943.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN
December
1942

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DOMINION OBSERVATORY
OTTAWA - CANADA

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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

ϕ = 45°23'38" N. λ = 75 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

ϕ = 44°38' N. λ = 63°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

ϕ = 47°07'.4 N. λ = 70°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

ϕ = 48°31"14' N. λ = 123°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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

ϕ = 46°33'.1 N. λ = 72°45'.8 W. h = 60m. 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

ϕ = 52°08' N. λ = 106°38' W. h = 515m.
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

ϕ = 48°09' N. λ = 80°03' W. h = 320m.
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_o	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 (

DOMINION OBSERVATORY, OTTAWA

FROM December 1, 1942 to December 5, 1942 No. 78

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
509 Dec. 2	eZ	0 33 05		
	L	1 23		
	F	1 34		
		Ottawa		
512 Dec. 4	eZ	15 44 14		
	L	16 23		
	F	16 58		
		Victoria		
	e	15 49 12		
	L	16 03		
	F	16 57		
		Ottawa		
513 Dec. 5	H	14 28.7	4960	
	PZ	14 36 53		
	S	14 43 35		
	SSS	14 47.3		
	L	14 50		
	F	15 37		
		Victoria		
	H	14 28.4	2300	
	P	14 33 07		
	iS	14 36 57		
	L	14 39		
	F	15 38		
		Saskatoon		
	H	14 28.8	2845	
	P	14 34 22		
	S	14 38 54		
	L	14 43		
	F	14 55+		
		Seven Falls		
	e	14 37 11		
	S?	14 43 51		
	e	14 47 14		
	L	14 50		
	F	15 30		
		Shawinigan Falls		
	e	14 36 58		
	L	14 53		
	F	15 06		
		Ottawa		
514 Dec. 5	H	21 10.8	185	
	P_1	21 11 19.5		
	S_1	21 11 41		
	i	21 11 47.5		
	F	21 18		

SEISMOLOGICAL SERVICE OF CAN

DOMINION OBSERVATORY, OTTAWA

FROM December 5, 1942 to December 9, 1942 No. 79

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
514 Dec. 5 (Cont'd)		Seven Falls		
	i	21 12 27		
	i	21 12 44		
	F	21 15		
		Shawinigan Falls		
	H	21 10.9	230	
	P_1	21 11 37		
	S_1	21 12 04		
	F	21 15		
		Ottawa		
515 Dec. 9	H	22 19.3	6000	
	P_Z	22 28 36		
	i	22 28 44		
	PP	22 30 42		
	S	22 36 16		
	SS	22 40.0		
	L	22 46		
	F	0 10 ca.		
		Victoria		
	H	22 19.1	2950	
	P	22 24 46		
	PP	22 25 24		
	S	22 29 26		
	L	22 33		
	F	0 27		
		Saskatoon		
	H	22 19.5	3580	
	P	22 26 04		
	S	22 31 25		
	L	22 34		
	F	23 57		
		Halifax		
	e	22 37 39		
	e	22 51 04		
	L	22 56		
	F	23 15		
		Seven Falls		
	H	22 19.3	6100	
	P	22 28 44		
	S	22 36 30		
	SS	22 40.3		
	L	22 46		
	F	0 02		
		Shawinigan Falls		
	H	22 19.3	6000	
	P	22 28 41		
	PP	22 30.8		
	S	22 36.3		
	L	22 47		
	F	23 01		

SEISMOLOGICAL SERVICE OF CAN.

DOMINION OBSERVATORY, OTTAWA

FROM December 9, 1942 to December 15, 1942 No. 80

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
516 Dec. 11	H	2 39.4	8120	
	P_Z	2 50 52		
	S	3 00.4		
	SS_E	3 05.3		
	eL	3 12		
	F	4 01 ca.		
		Victoria		
	e	3 03 05		
	e	3 20.5		
	L	3 30		
	F	4 14		
		Saskatoon		
	e	3 01 49		
	L	3 18		
	F	3 57		
		Seven Falls		
	H	2 39.2	7940	
	P	2 50 27		
	S	2 59 49		
	L	3 13		
	F	4 06		
		Ottawa		
521 Dec. 13	e_Z	19 31 57		
	L	20 23		
	F	20 40		
		Victoria		
	e	19 50.5		
	L	20 04		
	F	20 23		
		Seven Falls		
	e	19 35 18		
	L	20 19		
	F	20 46		
		Ottawa		
525 Dec. 15	e_Z	9 17 24		
	L	9 24		
	F	9 55		
		Victoria		
	e	9 27 46		
	L	9 39		
	F	10 06		
		Seven Falls		
	e	9 17 50		
	e	9 24		
	L	9 35		
	F	9 46		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM December 15, 1942 to December 20, 1942 No. 81

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
529 Dec. 19	eZ	23 24.0		
	L	0 04		
	F	0 47		
		Victoria		
	e	23 31 03		
	e	23 43.0		
	L	23 58		
	F	1 12		
		Saskatoon		
	e	23 32.3		
	e	23 43		
	L	23 50		
	F	1 05		
		Seven Falls		
	e	23 59.5		
	L	0 05		
	F	1 02		
		Ottawa		
530 Dec. 20	H	14 03.2	8320	
	PZ	14 14 51		
	S	14 24 32		
	L	14 37		
	F	16 00		
		Victoria		
	e	14 27.3		
	L	14 43		
	F	16 24+		
		Saskatoon		
	e?	14 15.2		
	S	14 25 47		
	L	14 41		
	F	15 27+		
		Seven Falls		
	H	14 03.1	8100	
	P	14 14 29		
	S	14 24.0		
	SSS	14 31 56		
	L	14 37		
	F	15 54		
		Shawinigan Falls		
	H	14 03.1	8200	
	P	14 14 36		
	S	14 24 12		
	L	14 38		
	F	15 04		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM December 20, 1942 to December 23, 1942 No. 82

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
533 Dec. 22	e_E	4 40 18		
	e_E	4 43.5		
	e	4 49.0		
	L	5 02		
	F	6 04		
		Seven Falls		
	e	4 43.5		
	e	4 49.7		
	L	5 08		
	F	6 04		
		Ottawa		
534 Dec. 22	H	6 25.0	4150	
	P_Z	6 32 15		
	S_E	6 38 12		
	L	6 44		
	F	7 07		
		Seven Falls		
	e	6 31.5		
	L	6 45		
	F	7 12		
		Ottawa		
537 Dec. 23	H	1 13.0	4080	
	P_Z	1 20.2		
	S	1 26 04		
	SSS	1 29.0		
	L	1 36		
	F	1 57		
		Seven Falls		
	e	1 26 26		
	L	1 37		
	F	2 01		
		Ottawa		
538 Dec. 23	e_Z	14 17 40		
	e	14 35.6		
	L	14 50		
	F	16 04		
		Victoria		
	e_E	14 22.3		
	L_E	14 41		
	F	15 01		
		Seven Falls		
	e	14 17 45		
	L	14 52		
	F	16 08		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM December 23, 1942 to December 29, 1942 No. 83

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km	
		Ottawa		
539 Dec. 26	H	12 31.8	3960	USCGS. gives:-
	P_Z	12 38 51		ϕ = 9°.0 N.
	PP	12 40 02		λ = 75°.0 W.
	S	12 44 36		
	SS	12 47.2		
	L	12 49		
	F	13 28		
		Victoria		
	e	12 41 53		
	e	12 49 12		
	L	13 00		
	F	13 31		
		Saskatoon		
	e	12 47.8		
	e	12 54.1		
	L	12 59		
	F	13 18		
		Seven Falls		
	H	12 32.0	4080	
	P	12 39 08		
	PPP	12 40 29		
	S	12 45.0		
	L	12 48		
	F	13 13+		
		Ottawa		
541 Dec. 27	e_Z	16 48 15		
	e_E	17 11.3		
	L	17 29		
	F	17 58		
		Seven Falls		
	e	17 04.8		
	L	17 29		
	F	18 22		
		Ottawa		
542 Dec. 29	e_Z	3 52 44		
	L	4 11		
	F	4 30		
		Seven Falls		
	e	3 52 19		
	L	4 10		
	F	4 34		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM December 29, 1942 to December 31, 1942 No. 84

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
544 Dec. 31	H	12 03.7	4010	USCGS. gives:-
	P	12 10 47		ϕ = 18°1 N.
	PP	12 12 00		λ = 47°0 W.
	S	12 16 35		
	SS	12 18 48		
	SSS	12 19.5		
	F	13 30		
		Victoria		
	H	12 03.8	7440	
	P	12 14.6		
	S	12 23 37		
	L	12 36		
	F	13 23		
		Seven Falls		
	H	12 03.8	3840	
	P	12 10 36		
	PP	12 11 43		
	S	12 16 13		
	SS	12 18.4		
	F	13 34		
		Shawinigan Falls		
	H	12 03.8	3800	
	P	12 10 40		
	S	12 16 15		
	L	12 21		
	F	12 28		
		Ottawa		
545 Dec. 31	eZ	19 21 10		
	L	19 29		
	F	20 03		
		Seven Falls		
	e	19 20 54		
	L	19 28		
	F	20 03		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

Month December, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
508	1	2 50+0 01P	.....	.....	.....	.....	.....	.....	..
509	2	0 33+1 01u	.....	.....	.....	1 23+0 27L	.....	.....	..
510	2	.....	.....	.....	.....	19 45+0 05L	.....	.....	..
511	3	.....	9 50+0 09L	9 53+0 04L	.....	.....	.....	.....	..
512	4	15 44+1 14u	15 49+1 08u	16 13+0 31L	.....	16 20+0 34L	.....	.....	..
513	5	14 37+1 08r	14 33+1 05r	14 34+0 21r	.....	14 44+0 46r	14 37+0 31r	14 37+0 30r	A
514	5	21 11+0 07v	.....	.....	.....	.....	21 12+0 03v	21 12+0 04v	B
515	9	22 29+1 41u	22 25+2 02r	22 26+1 31r	22 38+0 37u	22 37+1 25u	22 29+0 31u	22 29+0 32u	C
516	11	2 51+1 10u	3 03+1 11u	3 02+0 55u	.....	3 00+1 06u	2 50+0 02P	.....	E
517	11	3 33+0 0.5P*	.....	.....	.....	.....	.....	.....	..
518	11	3 44+0 01P	.....	.....	.....	.....	.....	.....	..
519	11	6 20+0 0.7P*	.....	.....	.....	.....	.....	.....	..
520	13	8 53+0 11P	.....	.....	.....	9 13+0 14L	8 52+0 11P	8 53+0 11P	..
521	13	19 32+1 08u	19 50+0 33u	.....	.....	20 19+0 27L	19 35+0 01P	.....	..
522	14	14 06+0 02P	.....	.....	.....	.....	.....	14 06+0 01P	..
523	14	.....	16 37+0 05L	.....	.....	.....	.....	.....	..
524	15	8 17+0 01P	.....	.....	.....	.....	.....	.....	..
525	15	9 17+0 38u	9 28+0 38u	9 41+0 17L	.....	9 24+0 22u	9 18+0 02P	9 18+0 03P	..
526	16	2 53+0 01P	.....	.....	.....	.....	.....	.....	..
527	17	1 28+0 01P	.....	.....	.....	.....	.....	.....	..
528	17	2 28+0 01P	.....	.....	.....	.....	.....	.....	..
529	19	23 24+1 23u	23 31+1 41u	23 32+1 33u	.....	.....	.....	.....	..
530	20	14 15+1 45U	14 27+1 57U	14 15+1 12U	.....	14 24+1 30U	14 14+0 49U	14 15+0 49U	F
531	20	15 46+0 01P*	.....	.....	.....	.....	.....	.....	..
532	21	13 11+0 04P	.....	.....	.....	.....	13 11+0 02P	.....	..
533	22	4 40+1 24u	4 37+0 29L	.....	.....	4 44+1 20u	.....	.....	..
534	22	6 32+0 35r	.....	.....	.....	6 32+0 42r	6 33+0 01P	6 32+0 04P	G
535	22	15 41+0 0.6P*	.....	.....	.....	.....	.....	.....	..

EARTHQUAKE CORRELATION TABLE

Month December, 1942

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
536	22	16 40+0 01P	.....	.....	.....	.....	.....	.....	..
537	23	1 20+0 37r	.....	.....	.....	1 26+0 35r	.....	.....	..
538	23	14 18+1 46u	14 22+0 39u	.....	.....	14 52+1 16u	14 18+0 02P	.....	J
539	26	12 39+0 49r	12 42+0 48u	12 48+0 30r	.....	12 40+0 32r	12 39+0 19r	12 39+0 11r	K
540	26	22 32+0 02P	.....	.....	.....	.....	.....	.....	..
541	27	16 48+1 10u	17 00+0 41L	.....	.....	17 05+1 17u	.....	.....	..
542	29	3 53+0 37u	4 28+0 16L	4 22+0 13L	.....	4 10+0 24L	3 52+0 02P	.....	..
543	29	4 48+0 02P	.....	.....	.....	.....	4 48+0 01P	.....	..
544	31	12 11+1 19r	12 15+1 08u	.....	12 22+0 07L	12 12+1 22r	12 11+0 11r	12 11+0 17r	N
545	31	19 21+0 42u	19 46+0 21L	19 41+0 14L	.....	19 28+0 35L	19 21+0 02P	19 21+0 02P	..

CORRELATION OF EARTHQUAKES
December, 1942

N O T E S

A :	Ottawa	Δ = 4960 km.	H = $14^h28^m.7$ U.T.
	Victoria	Δ = 2300 km.	H = 14 28.4 U.T.
	Saskatoon	Δ = 2845 km.	H = 14 28.8 U.T.
B :	Ottawa	Δ = 185 km.	H = $21^h10^m.8$ U.T.
	Shawinigan Falls	Δ = 230 km.	H = 21 10.9 U.T.
C :	Ottawa	Δ = 6000 km.	H = $22^h19^m.3$ U.T.
	Victoria	Δ = 2950 km.	H = 22 19.1 U.T.
	Saskatoon	Δ = 3580 km.	H = 22 19.5 U.T.
	Seven Falls	Δ = 6100 km.	H = 22 19.3 U.T.
	Shawinigan Falls	Δ = 6000 km.	H = 22 19.3 U.T.
E :	Ottawa	Δ = 8120 km.	H = $2^h39^m.4$ U.T.
	Seven Falls	Δ = 7940 km.	H = 2 39.2 U.T.
F :	Ottawa	Δ = 8320 km.	H = $14^h03^m.2$ U.T.
	Seven Falls	Δ = 8100 km.	H = 14 03.1 U.T.
	Shawinigan Falls	Δ = 8200 km.	H = 14 03.1 U.T.
G :	Ottawa	Δ = 4150 km.	H = $6^h25^m.0$ U.T.
J :	Ottawa	Δ = 4080 km.	H = $1^h13^m.0$ U.T.
K :	Ottawa	Δ = 3960 km.	H = $12^h31^m.8$ U.T.
	Seven Falls	Δ = 4080 km.	H = 12 32.0 U.T.
N :	Ottawa	Δ = 4010 km.	H = $12^h03^m.7$ U.T.
	Seven Falls	Δ = 3840 km.	H = 12 03.8 U.T.
	Shawinigan Falls	Δ = 3800 km.	H = 12 03.8 U.T.

Dominion Observatory,
Ottawa, Canada,
March 2, 1943

SEISMOLOGICAL BULLETINS RECEIVED

December, 1942

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

STATIONS	BULLETINS	RECEIVED
Brisbane	September, 1942	December 5
Weston	November, 1942	" 11
India Stations	April to June, 1940	" 15
Santa Clara	November, 1942	" 15
Coimbra	January to July, 1941	" 19
New Zealand Stations	October, 1941	" 21
Pasadena	Preliminary bulletin Sept.-Oct./42	" 29

DOMINION OBSERVATORY,
OTTAWA - CANADA.