7 JUN 1947

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

January, February
and March

1 9 4 7

****

DOMINION OBSERVATORY

OTTAWA - CANADA

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SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

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

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.

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

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48°31'14"$ N. $\lambda = 123°24'56"$ 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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

$\phi = 46°33.1$ N. $\lambda = 72°45.8$ 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

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

Time correction from radio time signals

Foundation: clay and sand

Instrument: Milne-Shaw NE and NW components, designated 18 and 22, respectively, each with photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

DETERMINED CONSTANTS

INSTRUMENT	T_0	V	ε	DISPLACEMENT FOR 1" ARC TILT	DISPLACEMENT FOR 10^{-6} g
17 (Ottawa)	12.0	300	20:1	50 mm.	
23 (Ottawa)	12.0	300	20:1	50 mm.	
BS (Ottawa)	1.0				5 mm.
BL (Ottawa)	1.0				16 mm.
HN (Halifax)	5.0	125	20:1		
HE (Halifax)	5.0	125	20:1		
SA (Shawinigan)	1.0	2500			
20 (Victoria)	12.0	300	20:1		
21 (Victoria)	12.0	300	20:1		
SF (Seven Falls)	1.0	2500			
SM (Seven Falls)	12.0	300	20:1	50 mm.	
18 (Saskatoon)	10.0	150	20:1	18 mm.	
22 (Saskatoon)	10.0	150	20:1	18 mm.	

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, CANADA

FROM	January 1, 1947		to	January 3, 1947	No. 1

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
1 Jan. 1	H	19 44.3	155	
	P_{2Z}	19 44 44		
	S_{2Z}	19 45 02		
	F	19 45.3		
		Ottawa		
4 Jan. 3	e_Z	2 32 30		USCGS gives:-
	i_Z	2 33 06		ϕ = 44° N.
	e	2 39 48		λ = 144° E.
	L	2 53		
	F	4 34		
		Saskatoon		
	H	2 17.6	6940	
	P_{NE}	2 27 54		
	S	2 36 28		
	e	2 39 50		
	L	2 48		
	F	3 26		
		Seven Falls		
	H	2 17.3	9180	
	P	2 29 32		
	S	2 39 51		
	L	2 57		
	F	4 58		
		Shawinigan Falls		
	H	2 17.2	9120	
	P	2 29 31		
	S	2 39 47		
	e	2 43 26		
	L	3 12		
	F	3 29		
		Ottawa		
6 Jan. 3	H	20 16.7	235	
	P_{3Z}	20 17.5		
	P_{2Z}	20 17 19		
	S_{2Z}	20 17 46		
	S_{1Z}	20 17 49		
	F	20 18.5		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	January 3, 1947	to	January 21, 1947	No. 2

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
8 Jan. 4	e_Z L F	17 38 09 18 21 18 54		
		Ottawa		
13 Jan. 11	H P_{2Z} S_{2Z} F	21 05.9 21 06 19 21 06 26 21 07	150	
		Ottawa		
15 Jan. 13	H P_{2Z} S_{2Z} F	20 28.5 20 28 55.5 20 29 13 20 29.6	150	
		Ottawa		
19 Jan. 15	e_Z L F	18 34 47 18 45 19 31		USCGS gives:- $\phi = 27°$ N. $\lambda = 111°$ W.
		Saskatoon		
	e L F	18 38.0 18 41 19 25		
		Seven Falls		
	e e L F	18 35 22 18 41.2 18 47 19 43		
		Ottawa		
21 Jan. 19	H P_{2Z} S_{2Z} F	0 45.0 0 45 30 0 45 51.5 0 47	190	
		Ottawa		
27 Jan. 21	H P_Z S_Z SSS L F	20 06.9 20 17 52 20 27.0 20 33 20 39 21 03	7640	USCGS gives:- $\phi = 25°$ S. $\lambda = 70°$ W.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   January 21, 1947   to   January 25, 1947   No. 3

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
27 Jan. 21 (cont'd)	H	20 07.1	7660	
	P	20 18 06		
	S	20 27 15		
	L	20 39		
	F	20 55		
		Ottawa		
29 Jan. 23	e_Z	16 07 06		USCGS prel location
	L	16 25		$\phi = 53°$ N.
	F	17 05		$\lambda = 164°$ W.
		Seven Falls		
	H	15 57.8	6080	
	P	16 07 16		
	S	16 15.0		
	L	16 27		
	F	16 58		
		Ottawa		
34 Jan. 25	H	3 52.6	3690	USCGS prel. location
	P_Z	3 59 19		$\phi = 13°$ N.
	S^Z	4 04 47		$\lambda = 88°$ W.
	SS_E	4 07		
	L	4 09		
	F	5 00+		
		Halifax		
	e	4 05.4		
	L	4 08		
	F	4 42		
		Seven Falls		
	H	3 52.6	4110	
	P	3 59 45		
	S	4 05 39		
	L	4 10		
	F	5 03+		
		Shawinigan Falls		
	H	3 52.7	3910	
	P	3 59 37		
	S	4 05 19		
	L	4 11		
	F	4 37		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | January 25, 1947 | to | January 26, 1947 | No. 4 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
35 Jan. 25	e_Z	4 53 41		
	L	5 00		
	F	5 43		
		Ottawa		
36 Jan. 26	H	10 06.8	3580	Comp. N.E.
	P_Z	10 13 21		USCGS Prel. Location
	i^Z	10 13 26		$\phi = 13°$ N.
	PPP	10 14 48		$\lambda = 86°5$ W.
	S	10 18 42		
	i	10 19 36		
	SS_E	10 20 36		
	L	10 23		
	F	12 31		
		Victoria		
	H	10 07.1	4850	
	P	10 15 09		
	PP	10 16 50		
	S	10 21 45		
	SS	10 24 46		
	e	10 27.6		
	L	10 29		
	F	11 03		
		Saskatoon		
	H	10 06.8	4380	
	iP	10 14 20		
	PPP	10 16 05		
	iS	10 20 31		
	SSS	10 23 54		
	L	10 26		
	F	12 00		
		Halifax		
	H	10 06.6	3890	
	iP	10 13 28		
	PPP	10 15 02		
	iS	10 19 08		
	e	10 20 08		
	SSS	10 22 16		
	L	10 24		
	F	11 21		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   January 26, 1947   to   January 29, 1947   No. 5

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
36 Jan. 26 (cont'd)	H	10 06.9	3870	
	P	10 13 46		
	PPP	10 15 22		
	e	10 16 16		
	S	10 19 25		
	e	10 20 27		
	SS	10 22 03		
	L	10 24		
	F	12 54		
		Shawinigan Falls		
	H	10 06.8	3790	
	P	10 13 38		
	i	10 13 43		
	PPP	10 15 13		
	S	10 19 12		
	L	10 22		
	F	11 05		
		Ottawa		
42 Jan. 29	H	8 18.0	7030	USCGS Prel. location $\phi = 27°$ S. $\lambda = 63°$ W.
	iP	8 28 21		
	PP	8 31 08		
	iS	8 37 00		
	SS	8 40 30		
	L	8 50		
	F	9 16		
		Saskatoon		
	H	8 17.9	8250	
	P	8 29 29		
	S	8 39 07		
	F	9 00		
		Seven Falls		
	H	8 18.0	7120	
	P	8 28 29		
	S	8 37 13		
	SS	8 42.1		
	L	8 49		
	F	9 15		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	January 29, 1947	to	January 31, 1947	No.6

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
42 Jan. 29 (cont'd)	H P S F	8 17.9 8 28 25 8 37 09 8 44	7100	
		Ottawa		
43 Jan. 30	H P_{2Z} S_{2Z} F	18 38.6 18 39 00 18 39 18 18 39.7	155	

W. W. Doxsee.

CORRELATION TABLE

The numbered pages of the bulletin list only those earthquakes for which two or more phases are recorded. The tabulation which follows not only provides a yearly numbered list of all earthquakes recorded in Canada but also correlates the seismic registrations of the six Canadian stations. 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

January, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls V. A.	Shawinigan	**
1	1	19 45+0 0.6v*						0 18+0 02P	A
2	3	0 18+0 01P*							
3	3	2 29+0 03P				0 56+0 0?I		2 30+0 59u	B
4	3	2 32+2 02u		2 28+0 58u		2 40+2 18u	2 30+0 52u		C
5	3	9 23+0 01P*							
6	3	20 17+0 01v*							
7	4	4 38+0 01P*				18 24+0 31I			
8	4	17 38+1 16u				19 10+0 14I			
9	5					15 52+0 15I			
10	6							19 50+0 04P	
11	8					13 01+0 14I			
12	9								D
13	11	21 06+0 01v*						5 03+0 08I	
14	13	19 08+0 0.2 P*						8 14+0 01P	
15	13	20 29+0 0.7v*						9 42+0 01P	
16	14	5 03+0 25I	4 45+0 15I	4 52+0 14I		5 03+0 1?I	5 03+0 12I		E
17	15								
18	15	18 35+0 56r	18 40+0 10I	18 38+0 47r	18 50+0 12I	18 41+1 02r	18 35+0 27r	18 47+0 12I	F
19	15					20 06+0 16I			
20	17	0 45+0 02v*					0 47+0 02v	0 46+0 01v	
21	19	11 00+0 10I				11 02+0 14I			
22	20	16 41+0 05I							
23	20	21 34+0 07I						22 02+0 01I	
24	20					19 53+0 11I			
25	20								
26	21								

EARTHQUAKE CORRELATION TABLE
January, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls V. A.	Shawinigan	**
27	21	20 18+0 45u				20 27+0 .28u	20 .18+0 04P	20 .18+0 06P	G
28	22					19 45+0 18-			J
29	23	16 07+0 58u	16 08+0 08L			16 15+0 43u	15 07+0 04P	16 07+0 10P	
30	24	17 34+0 41L				17 34+0 48L			
31	24							23 41+0 03P	
32	25					3 28+0 27-		3 26+0 02P	
33	25	3 58+0 0.5P*						3 58+0 02P	K
33	25	3 59+1 01r	4 18+0 14L	4 14+0 24L	4 05+0 37r	4 01+1 02r	4 00+0 33r	4 00+0 37r	
34	25	4 54+0 49r			4 56+0 15L	5 04+0 53-	5 04+0 07L	4 54+0 03P	M
35	25	10 13+2 18R	10 15+0 48R	10 14+1 45R	10 13+1 08R	10 14+2 40R	10 14+0 58R	10 14+0 51R	
36	26	10 46+0 0.6P*							
37	26	19 57+0 0.4P*				1 27+0 11-			
38	26	1 23+0 11L				19 51+0 11-			
39	27					11 34+0 17-			
40	27					8 28+0 47u			
41	28				8 29+0 30u		8 28+0 15u	8 28+0 16u	N
42	29	8 28+0 48u							
43	30	18 39+0 0.7v*				19 08+0 20L			P
44	30								

CORRELATION OF EARTHQUAKES

January, 1947

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N O T E S

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A	:	Ottawa	$\Delta =$	155 km.	$H = 19^h44^m3$ U.T.
B	:	Saskatoon	$\Delta =$	6,940 km.	$H = 2^h17^m6$ U.T.
		Seven Falls	$\Delta =$	9,180 km.	$H = 2\ 17.3$ U.T.
		Shawinigan Falls	$\Delta =$	9,120 km.	$H = 2\ 17.2$ U.T.
C	:	Ottawa	$\Delta =$	235 km.	$H = 20^h16^m7$ U.T.
D	:	Ottawa	$\Delta =$	150 km.	$H = 21^h05^m9$ U.T.
E	:	Ottawa	$\Delta =$	150 km.	$H = 20^h28^m5$ U.T.
F	:	Ottawa	$\Delta =$	190 km.	$H = 0^h45^m0$ U.T.
G	:	Ottawa	$\Delta =$	7,640 km.	$H = 20^h06^m9$ U.T.
		Seven Falls	$\Delta =$	7,660 km.	$H = 20\ 07.1$ U.T.
J	:	Seven Falls	$\Delta =$	6,080 km.	$H = 15^h57^m8$ U.T.
K	:	Ottawa	$\Delta =$	3,690 km.	$H = 3^h52^m6$ U.T.
		Seven Falls	$\Delta =$	4,110 km.	$H = 3\ 52.6$ U.T.
		Shawinigan Falls	$\Delta =$	3,910 km.	$H = 3\ 52.7$ U.T.
M	:	Ottawa	$\Delta =$	3,580 km.	$H = 10^h06^m8$ U.T.
		Victoria	$\Delta =$	4,850 km.	$H = 10\ 07.1$ U.T.
		Saskatoon	$\Delta =$	4,380 km.	$H = 10\ 06.8$ U.T.
		Halifax	$\Delta =$	3,890 km.	$H = 10\ 06.6$ U.T.
		Seven Falls	$\Delta =$	3,870 km.	$H = 10\ 06.9$ U.T.
		Shawinigan Falls	$\Delta =$	3,790 km.	$H = 10\ 06.8$ U.T.
N	:	Ottawa	$\Delta =$	7,030 km.	$H = 8^h18^m0$ U.T.
		Saskatoon	$\Delta =$	8,250 km.	$H = 8\ 17.9$ U.T.
		Seven Falls	$\Delta =$	7,120 km.	$H = 8\ 18.0$ U.T.
		Shawinigan Falls	$\Delta =$	7,100 km.	$H = 8\ 17.9$ U.T.
P	:	Ottawa	$\Delta =$	155 km.	$H = 18^h38^m6$ U.T.

Dominion Observatory,

OTTAWA, CANADA

April 23, 1947.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

_____

FROM	February 1, 1947	to	February 9, 1947.	No. 7

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
45 Feb. 2	e_Z L F	4 13 32 4 30 4 55		
		Ottawa		
46 Feb. 2	H P_{2Z} S_{3Z} S_{2Z} F	16 50.5 16 51 46 16 52 28 16 52 41 16 54.7	490	
		Seven Falls		
	H P_1 S_1 F	16 50.6 16 50 41.5 16 50 49 16 53	63	
		Shawinigan Falls		
	H P_2 S_2 F	16 50.5 16 51 06.5 16 51 32 16 54	225	
		Ottawa		
51 Feb. 5	H P_{2Z} S_{2Z} F	19 58.2 19 58 39 19 58 57 19 59.4	155	
		Ottawa		
53 Feb. 7	e_Z L F	8 59 22 9 34 10 07		
		Ottawa		
55 Feb. 7	H P_{2Z} S_{2Z} F	20 19.6 20 20 00 20 20 17.5 20 20.6	150	
		Ottawa		
62 Feb. 9	e_Z e_N L F	4 40 12 4 48.6 5 03 5 12		

SMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | February 9, 1947 | to | February 28, 1947 | No. 8 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
62 Feb. 9 (cont'd)	e L F	4 48.9 4 58 5 20		
		Ottawa		
66 Feb. 12	H P_{2Z} S_{2Z} F	21 09.1 21 09 36.5 21 09 56 21 10.1	170	
		Ottawa		
68 Feb. 15	e_Z L_N F	1 17 27 1 36 2 06		
		Ottawa		
75 Feb. 23	H P_{2Z} S_{2Z} e_Z F	21 31.0 21 31 23 21 31 40 21 31 49 21 32.3	150	
		Ottawa		
76 Feb. 24	H P S SS_N L F	17 31.7 17 41 41 17 49 54 17 54.5 18 00 18 36	6570	
		Saskatoon		
	i L F	17 52 48 18 05 18 37		
		Seven Falls		
	H P S SSS L F	17 31.8 17 41 51 17 50 13 17 56.3 18 02 18 28	6720	
		Ottawa		
77 Feb. 26	e_Z L F	1 57 38 2 10 2 30		

W. W. Doysee

EARTHQUAKE CORRELATION TABLE

February, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	
45	2	4 14+0 41u		4 17+0 24L		4 31+0 30L	16 51+0 02d	16 51+0 03v	A
46	2	16 52+0 03v*					16 52+0 10P	16 52+0 07P	
47	3	16 52+0 02P*							
48	4			7 11+0 09L		6 57+0 13L			
49	4							17 45+0 03P	
50	4	23 51+0 01P*						23 51+0 03P	
51	5	19 59+0 0.8v*		9 26+0 36L		9 38+0 40L			B
52	7	2 16+0 0.8P		10 56+0 11L		10 35+0 22L			
53	7	8 59+1 07u							
54	7		10 42+0 12L	10 47+0 03L		11 02+0 04L			C
55	7	20 20+0 0.6v*	10 57+0 20L	11 03+0 11L		11 17+0 18L			
56	8	10 58+0 06L	11 38+0 15L	11 45+0 05L					
57	8	11 15+0 16L	11 55+0 14L	12 00+0 05L		12 12+0 07L			
58	8	11 56+0 08L	18 10+0 15L	18 15+0 07L		18 30+0 04L			
59	8	12 10+0 08L							
60	8	18 26+0 07L				4 49+0 31u			
61	9			4 41+1 02L		4 43+1 07L			
62	10	4 40+0 32u							
63	10	4 52+0 46L							
64	11	20 06+00.2P*					20 21+0 0.1d		
65	12					19 02+0 06L			
66	13	21 10+00.5v*							D
67	15	0 24+0 01P*		1 23+0 30L		1 37+0 32L	2 23+0 07P	2 23+0 12P	
68	16	1 17+0 49u							
69	20	2 22+0 03P*	18 23+0 07L	18 29+0 06L		18 42+0 04L			
70	21					22 52+0 15L			
71	22	23 01+0 12L	2 12+0 13L	2 19+0 13L		2 32+0 05L			
72	22	2 30+0 06L		4 33+0 23L		4 23+0 13L			
73		4 21+0 13L							

EARTHQUAKE CORRELATION TABLE

February, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
74	22	.	.	5 23+0 03L	.	.	.	.	.
75	23	21 31+0 01v*	.	.	.	.	.	.	E
76	24	17 42+0 54u	.	17 53+0 44u	.	17 50+0 38u	17 42+0 10u	17 42+0 07P	F
77	26	1 58+0 32u	.	2 20+0 09L	.	2 12+0 17L	.	1 58+0 01P	.
78	26	5 53+0 0.2P*	.	.	.	.	.	.	.

CORRELATION OF EARTHQUAKES

February, 1947

NOTES

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A : Ottawa Δ = 490 km. H = $16^h50^m.5$ U.T.
    Seven Falls Δ = 63 km. H = 16 50.6 U.T.
    Shawinigan Falls Δ = 225 km. H = 16 50.5 U.T.

B : Ottawa Δ = 155 km. H = $19^h58^m.2$ U.T.

C : Ottawa Δ = 150 km. H = $20^h19^m.6$ U.T.

D : Ottawa Δ = 170 km. H = $20^h09^m.1$ U.T.

E : Ottawa Δ = 150 km. H = $21^h31^m.0$ U.T.

F : Ottawa Δ = 6,570 km. H = $17^h31^m.7$ U.T.
    Seven Falls Δ = 6,720 km. H = 17 31.8 U.T.

Dominion Observatory,

OTTAWA, CANADA

May 2, 1947.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | March 1, 1947 | | to | March 2, 1947 | No. 9 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
79 Mar. 2	H	19 09.3	14,100	
	PZ	19 28 26		
	PPN	19 30		
	SKP	19 31 38		
	SKS	19 35 26		
	SKKS	19 37 15		
	PPS	19 41.9		
	SS	19 47.5		
	L	20 06		
	F	21 17		
		Victoria		
	e	19 26 28		
	i	19 32 26		
	i	19 34 24		
	L	19 52		
	F	21 40		
		Saskatoon		
	H	19 09.4	12,000	
	PP	19 28.4		
	SKS	19 34 34		
	PS	19 37 27		
	PPS	19 38 31		
	SSS	19 48.0		
	L	19 59		
	F	20 50		
		Seven Falls		
	H	19 09.3	14,450	
	P'	19 28 30		
	PP	19 30.7		
	SKP	19 31.9		
	SKS	19 35 32		
	e	19 40 14		
	SS	19 47 40		
	SSS	19 52.7		
	SSSS	19 59.7		
	L	20 10		
	F	21 35		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM	March 2, 1947	to	March 17, 1947	No. 10

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
90 Mar. 17	H	8 19.8	11,000 ca	USCGS gives
	P$_Z$	8 33 30		φ = 29° N.
	PP	8 37 30		λ = 100° E.
	SKS	8 44 06		
	SKKS	8 44 50		
	S$_N$	8 45 16		
	PS	8 46 22		
	PPS	8 47.3		
	SS	8 52.0		
	SSS	8 55.8		
	e	8 58.5		
	L	9 07		
	F	11 12		
		Saskatoon		
	H	8 20.0	9,520 km.	
	P	8 32 37		
	S	8 43 11		
	PS	8 43 49		
	SS	8 49.8		
	L	8 57		
	F	11 00		
		Halifax		
	e	(8 48)		No time marks.
	L	(9 02)		
	F	(10 10)		
		Seven Falls		
	H	8 19.4	11,300	
	P	8 33 19		
	PP	8 37 33		
	S	8 45 02		
	PS	8 46 30		
	SS	8 51 34		
	SSS	8 56.6		
	L	9 03		
	F	11 16		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | March 17, 1947 | to | March 25, 1947 | No. 11 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
90 Mar. 17 (cont'd)	H P PP PPP L F	8 19.6 8 33 21 8 37 18 8 39 31 9 09 9 53	11,100	
		Ottawa		
92 Mar. 18	H P2Z S2Z F	19 55.4 19 55 48 19 56 06 19 56.5	155	
		Ottawa		
98 Mar. 25	H PŽ e SKS SS SSS L F	20 32.3 20 51 22 20 54.0 21 00 21 10.6 21 15 12 21 28 23 39	14,100	USCGS gives $\varphi = 39°$ S. $\lambda = 178°5$ E.
		Victoria		
	H S SS e e L F	20 32.4 20 57 47 21 04 51 21 10.4 21 14 21 22 23 47	11,100	
		Saskatoon		
	H PP S SS L F	20 33 20 52 00 21 00.5 21 07.2 21 22 0 00	12,200	
		Halifax		
	e L F	21 37 21 53 23 28		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	March 25, 1947	to	March 28, 1947	No. 12

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
98 Mar. 25 (cont.)	H	20 31.7	14,000	
	SKP	20 53.8		
	PPP	20 55 11		
	SKKS	20 59 13		
	PPS	21 04.1		
	SSS	21 13 59		
	L	21 29		
	F	23 50		
		Ottawa		
99 Mar. 26	H	18 43.6	270	
	P_{2Z}	18 44 23		
	S_{2Z}	18 44 53.5		
	i_Z	18 44 56		
	F	18 45.4		
		Seven Falls		
101 Mar. 26	H	20 20.9	45	
	P_1	20 21 02		
	S_1	20 21 07.5		
	F	20 22		
		Ottawa		
102 Mar. 26	H	23 06.2	105	
	P_{1Z}	23 06 30		
	i_Z	23 06 34		
	S_{1Z}	23 06 42.5		
	i_Z	23 06 47		
	F	23 07.2		
		Ottawa		
104 Mar. 28	H	21 11.5	155	
	P_{2Z}	21 12 00.5		
	P_{1Z}	21 12 02		
	S_{2Z}	21 12 13		
	S_{1Z}	21 12 20.5		
	i_Z	21 12 27		
	F	21 12.7		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	March 28, 1947	to	March 31, 1947	No. 13

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
105 Mar. 29	H	12 29.1	465	
	P_3Z	12 30 12		
	$e_{\bar{x}}$	12 30 55.5		
	S_3Z	12 31 02		
	S_2Z	12 31 07		
	F	12 33		
		Seven Falls		
	H	12 28.9	55	
	P_1	12 29 01.5		
	S_1	12 29 08		
	F	12 31		
		Shawinigan Falls		
	H	12 28.7	260	
	P_3	12 29 22		
	P_1	12 29 25		
	S_3	12 29 51		
	S_2	12 29 54		
	F	12 31.5		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

March, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
79	2	19 28+1 49u	19 26+2 14u	19 28+1 22u	19 41+0 21L	19 31+2 04u	19 28+0 05P	19 28+0 08P	A
80	7	4 51+0 09L	4 34+0 13L	4 40+0 09L		4 53+0 07L			
81	7	21 46+0 0.1P*							
82	8	15 25+0 0.5P*							
83	10	2 05+0 0.5P*				2 29+0 07L			
84	10					4 33+0 06L			
85	11					19 54+0 10L		4 59+0 01d	B
86	15	8 29+0 05L							
87	15	14 17+0 05P				8 31+0 08T		14 18+0 11P	
88	15	10 42+0 09L							
89	16	8 33+2 39T		8 33+2 27U	8 48+1 22U	8 38+2 38T	8 33+1 18U	8 33+1 20U	C
90	17	15 44+0 05L							
91	18	19 56+0 0.7v*							D
92	18					20 09+0 14T			
93	21	23 11+0 02P						23 11+0 09P	
94	21	9 52+0 03P					9 52+0 13P	9 52+0 12P	
95	22	1 24+0 03P*							
96	23	16 51+0 0.4P*							
97	24	20 51+2 48u				20 54+2 56u			E
98	25	18 44+0 01v*	20 58+2 49u	20 52+3 08u	21 37+1 51u				F
99	26					20 02+0 14L	20 21+0 01d		G
100	26							23 07+0 01v	H
101	26	23 06+0 0.7v*							
102	27								
103	28	21 12+00.7v*				19 42+0 52L		12 29+0 02v	J
104	29	12 30+0 03v*				12 29+0 0.5d	12 29+0 02d	20 16+0 01P	K
105	30								
106	31					20 28+0 07L			
107									

CORRELATION OF EARTHQUAKES

March, 1947

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N O T E S

===

A :   Ottawa Δ = 14,100 km.   H = 19^h09^m3 U.T.
         Saskatoon Δ = 12,000 km.   H = 19 09.4 U.T.
         Seven Falls Δ = 14,450 km.   H = 19 09.3 U.T.

B :   May not be seismic.

C :   Ottawa Δ = 11,000 km.   H = $^h19^m$ U.T.
         Saskatoon Δ = 9,520 km.   H = 6 20.0 U.T.
         Seven Falls Δ = 11,300 km.   H = 19.4 U.T.
         Shawinigan Falls Δ = 11,100 km.   H = 19.6 U.T.

D :   Ottawa Δ =   155 km.   H = 19^h55^mU.T.

E :   Ottawa Δ = 14,100 km.   H = $20^h32.3$ U.T.
         Victoria Δ = 11,100 km.   H = 20 32.4 U.T.
         Saskatoon Δ = 12,200 km.   H = 20 33   U.T.
         Seven Falls Δ = 14,000 km.   H = 20 31.7 U.T.

F :   Ottawa Δ =   270 km.   H = 10^h43^m6 U.T.

G :   Ottawa Δ =   45 km.   H = 20^h20^m9 U.T.

H :   Ottawa Δ =   105 km.   H = 23^h06^m2 U.T.

J :   Ottawa Δ =   155 km.   H = 21^h11^m5 U.T.

K :   Ottawa Δ =   465 km.   H = 12^h29^m1 U.T.
         Seven Falls Δ =   55 km.   H = 12 28.9 U.T.
         Shawinigan Falls Δ =   260 km.   H = 12 28.7 U.T.

DOMINION OBSERVATORY,

    OTTAWA, CANADA.

       May 3, 1947.

SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED	

January, 1947

STATIONS	BULLETINS	RECEIVED	
Ksara	September, October, 1946	January	2
Pehpei	Year 1945	"	2
Moscow	August, 1946	"	2
Brisbane	October, 1946	"	3
Ksara	November, 1946	"	4
Bureau Central	August to November, 1946		
	Supplements to June, July, 1946	"	13
Santa Clara	December, 1946	"	13
Cartuja	Years 1941, 1942, 1943	"	11
Oxford	Year 1935	"	11
Istanbul	September, October, 1946	"	11
Stuttgart	November, 1946	"	20
D. Bilt	Preliminaries October, 1946,		
	November, 1946	"	22
St. Louis and			
Auxiliary Stations	Preliminaries January to March, 1946, Supplement to February, 1946	"	27
Wellington	July to December 1941, January to December, 1942, October and November, 1946	"	30

February, 1947

STATIONS	BULLETINS	RECEIVED	
Stuttgart	December, 1946	February	1
La Paz	Year, 1944	"	1
Berkeley and Auxiliary Stations	July 1 to September 30, 1940	"	1
Dr. Bilt	December, 1946	"	6
Trieste	October, November 1946	"	6
Firenze	November, 1946	"	6
Santa Clara	January, 1947	"	8
Almeria	March, 1946	"	8
Zurich	November, December, 1946	"	8
Rio de Janeiro	Years 1933 to 1939	"	22
Bureau Central	September, December, 1946		
	Supplements to July, August 1946	"	22
Paris	January 1941	"	22
India Stations	October to December, 1941; January to March, 1942	"	26
St. Louis and Auxiliary Stations	Preliminaries Nos. 10, 11, 13, 14, 15, 16, 17. Supplements to March, 1946	"	27
UCCLE	November, December, 1946 January, 1947	"	28

SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED

March, 1947

STATIONS	BULLETINS	RECEIVED
Stuttgart	January, 1947	March 5
Berkeley and Auxiliary Stations	October 1 to December 31, 1940	" 5
Harvard	January to December, 1945	" 5
Pasadena	Locals April to June, 1946	" 7
De Bilt	Preliminary January, 1947	" 7
Wellington	December, 1946	" 10
Rome	December, 1946	" 10
Weston	Preliminaries December, 1946, January, 1947	" 11
Pasadena	Preliminaries November, 1946 to February, 1947; April to June, 1946; Locals April to June, 1946	" 15
Ksara	December, 1946, January, 1947	" 15
Santa Clara	February, 1947	" 15
Almeria	January to June, 1942	" 15
Moscow	October, 1946	" 18
Paris	February, 1941	" 20
Strasbourg	October, 1946	" 20
Bureau Central	January, 1947	" 20
Wellington	Year, 1944	" 21
Apia	July to December, 1946	" 21
St. Louis and Auxiliary Stations	Preliminaries October 4, 22, 30, November 1, 2, 3, 4, 12, 14, 1946	" 21
Wellington	Preliminary January, 1947	" 21
De Bilt	February, 1947	" 27
Pasadena	Locals July to September, 1946	" 28

DOMINION OBSERVATORY

OTTAWA - CANADA.

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

April and May
1947

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DOMINION OBSERVATORY

OTTAWA - CANADA

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SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

C. S. Beals, Dominion Astronomer
Ernest A. Hodgson, Chief, Seismological Division
W. W. Doxsee, Seismologist in charge
W. G. Milne, Station Superintendent

S T A T I O N S

OTTAWA

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

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

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

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

$\phi = 47°07!4 N.$ $\lambda = 70°49!6 W.$ $h = 232m.$ 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.

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 and NW components,
designated 18 and 22, respectively, each with
photographic registration, magnetic damping,
paper speed of 8 mm. per min., mass 1 lb.

DETERMINED CONSTANTS

INSTRUMENT	To	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	2500			
20 (Victoria)	12.0	300	20:1		
21 (Victoria)	12.0	300	20:1		
SF (Seven Falls)	1.0	2500			
SM (Seven Falls)	12.0	300	20:1	50 mm.	
18 (Saskatoon)	10.0	150	20:1	18 mm.	
22 (Saskatoon)	10.0	150	20:1	18 mm.	

NOTE:-   Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
108 Apr. 2	H	5 39.2	14,200	USCGS gives:- $\phi = 1°$ S. $\lambda = 141°$ E.
	PZ^{i}	5 58 21		
	PP	6 00 15		
	SKP	6 01 34		
	SKS_N	6 05 24		
	SKKS	6 07 14		
	PS	6 10 25		
	PPS_N	6 12.1		
	SS	6 17.6		
	SSS_N	6 22		
	L	6 39		
	F	9 00 ca.		
		Victoria		
	H	5 39.4	10,700	
	P	5 52 56		
	SKS	6 03 24		
	PS	6 05 24		
	SS	6 11 03		
	SSS	6 14 32		
	e	6 17 45		
	L	6 23.0		
	F	9 20		
		Saskatoon		
	H	5 39.3	11,900	
	PP	5 57 55		
	SKS	6 04 12		
	SKKS	6 05 03		
	PS	6 07 12		
	PPS	6 08 03		
	SS	6 13 03		
	SSS	6 16 56		
	L	6 25		
	F	9 05		
		Halifax		
	H	5 39.9	14,500	
	SKP	6 02 19		
	SKKS	6 08 05		
	PS	6 11.3		
	SS	6 19.1		
	SSS	6 24.1		
	L	6 40		
	F	8 09		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	April 2, 1947		to	April 10, 1947	No. 15

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
108 Apr. 2 (cont'd)	H	5 39.4	14,300	
	P'	5 58.5		
	PP	6 00 32		
	SKKS	6 07 18		
	e	6 16.0		
	e	6 21.1		
	L	6 45		
	F	7 45		
		Shawinigan Falls		
	H	5 39.3	14,000	
	P'	5 58 26		
	PP	6 00 11		
	SKP	6 01.7		
	SKKS	6 07 16		
	L	6 42		
	F	7 06		
		Ottawa		
109 Apr. 2	e_N	21 10.2		
	e_N	21 13.4		
	L	21 37		
	F	22 38		
		Ottawa		
110 Apr. 3	H	22 15.0	150	
	P_{2Z}	22 15 24		
	S_{2Z}	22 15 41		
	e_Z	22 15 48		
	F	22 16.1		
		Ottawa		
111 Apr. 10	H	15 58.1	3,540	USCGS gives:- ϕ = 35° N. λ = 116°.6 W.
	P_Z	16 04 37		
	PPP	16 06.0		
	S	16 09 55		
	SS_N	16 11.6		
	SSS	16 12.3		
	L	16 14		
	F	18 00		
		Victoria		
	H	15 58.0	1,740	
	P	16 01 39		
	S	16 04 41		
	L	16 05 22		
	F	17 38		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | April 10, 1947 | | to | April 14, 1947 | No. 16 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
Apr. 10 (cont'd)	H	15 58.0	2,160	
	P	16 02 25		
	e	16 03 20		
	S	16 06 03		
	L	16 08		
	F	17 40		
		Halifax		
	e	16 12 10		
	eE	16 15 08		
	L	16 18		
	F	17 12		
		Seven Falls		
	H	15 58	4,200	
	P	16 05 11		
	PP	16 06 29		
	SSS	16 14 15		
	L	16 16		
	F	16 55		
		Shawinigan Falls		
	H	15 58.2	3,660	
	P	16 04 51		
	PPP	16 06 10		
	S	16 10 17		
	SS	16 12 12		
	L	16 15		
	F	16 49		
		Ottawa		
114 Apr. 14	H	7 15.5	9,250	USCGS gives:- $\phi = 45° N.$ $\lambda = 146°5 E.$
	Pz	7 27 56		
	PP	7 31.0		
	S	7 38 18		
	SS	7 44 08		
	SSS	7 47.3		
	L	7 56		
	F	11 22		
		Victoria		
	H	7 15.9	6,280	
	P	7 25 35		
	S	7 33 31		
	SS	7 37 14		
	i	7 39 52		
	L	7 43		
	F	11 12		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	April 14, 1947	to	April 24, 1947	No. 17

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
114 Apr. 14 (cont'd)	H	7 15.8	6,980	
	P	7 26 06		
	S	7 34 42		
	SS	7 39 04		
	SSS	7 41.3		
	L	7 47		
	F	11 08		
		Halifax		
	e	7 38 59		
	e	7 44.3		
	e	7 50.1		
	L	7 58		
	F	10 04		
		Seven Falls		
	H	7 15.4	9,280	
	P	7 27 50		
	S	7 38 13		
	e	7 50.1		
	L	7 56		
	F	8 52		
		Shawinigan Falls		
	H	7 15.4	9,500	
	P	7 27 59		
	S	7 38 32		
	L	7 59		
	F	8 49		
		Ottawa		
122 Apr. 24	H	19 35.4	5,330	USCGS gives:- $\phi = 8° N.$ $\lambda = 37°.5 W.$
	P	19 44 02		
	PP	19 45 42		
	PPP	19 46 32		
	S	19 51 05		
	SS	19 54.5		
	SSS_N	19 55 44		
	e	19 56 24		
	L	19 58		
	F	22 00 ca.		
		Victoria		
	H	19 35.3	8,980	
	P	19 47 30		
	S	19 57 40		
	PS_E	19 58 16		
	L	20 13		
	F	21 30		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | April 24, 1947 | to | April 30, 1947 | No. 18 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
122 Apr. 24 (cont'd)	H	19 35.4	7,660	
	P	19 46 25		
	S	19 55 34		
	SS	20 00		
	L	20 06		
	F	21 52		
		Halifax		
	H	19 35.6	4,460	
	P	19 43 10		
	PPP	19 45.2		
	S	19 49 25		
	SSS	19 52.7		
	L	19 55		
	F	20 41		
		Seven Falls		
	H	19 35.3	5,220	
	P	19 43 50		
	S	19 50 47		
	L	19 56		
	F	20 16		
		Shawinigan Falls		
	H	19 35.4	5,240	
	P	19 43 54		
	PP	19 45.7		
	S	19 50 52		
	L	19 56		
	F	20 17		
		Saskatoon		
125 Apr. 27	e	8 08 16		
	L	8 09.5		
	F	8 23		
		Shawinigan Falls		
128 Apr. 30	e	5 07 50		
	L	5 10		
	F	5 23		

EARTHQUAKE CORRELATION TABLE

April, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
108	2	5 58+3 02U	5 53+3 27U	5 58+3 07U	6 02+2 07U		5 58+1 48U	5 58+1 08U	A
109	2	21 10+1 28u		21 34+0 30L					B
110	3	22 15+0 0.8v*							C
111	10	16 05+1 55R	16 02+1 36R	16 02+1 38R	16 12+1 0Cr		16 05+0 50r		
112	14	3 45+1 44L	4 58+0 38L	4 14+1 16L					
113	14			7 01+0 18L					
114	14	7 28+3 54u	7 26+3 46u	7 26+3 42u	7 39+2 25u		7 23+1 24u	7 28+1 21u	D
115	14	14 55+0 0.1P*							
116	14	19 21+0 0.2P*							
117	15		22 41+0 06L						
118	18	11 18+0 07L	4 48+0 12L						
119	19	20 47+0 38L	19 47+1 43U	19 46+2 06U	19 43+0 58R		19 44+0 35U	19 44+0 33R	E
120	23	4 58+0 31L	13 11+0 04L						
121	24	5 03+0 20L	13 36+0 15L	13 38+0 10L			5 04+0 05L	5 03+0 04L	
122	24	19 44+2 16U							
123	26								
124	26	8 20+0 23L	8 05+0 33L	8 08+0 15r	8 24+0 06L		8 21+0 14L	8 20+0 11L	
125	27	11 29+0 07L	11 14+0 09L	11 18+0 06L	11 32+0 05L		11 29+0 04L	11 29+0 05L	
126	27	14 03+0 14L		14 01+0 06L					
127	28	5 10+0 30L	4 56+0 29L		5 13+0 14L		5 10+0 13L	5 08+0 15L	
128	30	17 32+0 07L							
129	30								

CORRELATION OF EARTHQUAKES

April, 1947

N O T E S

A :	Ottawa	Δ = 14,200 km.	H = $5^h39^m.2$ U.T.
	Victoria	Δ = 10,700 km.	H = 5 39.4 U.T.
	Saskatoon	Δ = 11,900 km.	H = 5 39.3 U.T.
	Halifax	Δ = 14,500 km.	H = 5 39.9 U.T.
	Seven Falls	Δ = 14,300 km.	H = 5 39.4 U.T.
	Shawinigan Falls	Δ = 14,000 km.	H = 5 39.3 U.T.
B :	Ottawa	Δ = 150 km.	H = $22^h15^m.0$ U.T.
C :	Ottawa	Δ = 3,540 km.	H = $15^h58^m.1$ U.T.
	Victoria	Δ = 1,740 km.	H = 15 58.0 U.T.
	Saskatoon	Δ = 2,160 km.	H = 15 58.0 U.T.
	Seven Falls	Δ = 4,200 km.	H = 15 58 U.T.
	Shawinigan Falls	Δ = 3,660 km.	H = 15 58.2 U.T.
D :	Ottawa	Δ = 9,250 km.	H = $7^h15^m.5$ U.T.
	Victoria	Δ = 6,280 km.	H = 7 15.9 U.T.
	Saskatoon	Δ = 6,980 km.	H = 7 15.8 U.T.
	Seven Falls	Δ = 9,280 km.	H = 7 15.4 U.T.
	Shawinigan Falls	Δ = 9,500 km.	H = 7 15.4 U.T.
E :	Ottawa	Δ = 5,330 km.	H = $19^h35^m.4$ U.T.
	Victoria	Δ = 8,980 km.	H = 19 35.3 U.T.
	Saskatoon	Δ = 7,660 km.	H = 19 35.4 U.T.
	Halifax	Δ = 4,460 km.	H = 19 35.6 U.T.
	Seven Falls	Δ = 5,220 km.	H = 19 35.3 U.T.
	Shawinigan Falls	Δ = 5,240 km.	H = 19 35.4 U.T.

Dominion Observatory,

OTTAWA, CANADA.

June 27, 1947.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | May 1, 1947 | to | May 6, 1947 | No.19 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
131 May 2	H	2 19.1	5,940	USCGS gives:-
	P	2 28 21		ϕ = 54° N.
	S	2 35 58		λ = 164° W.
	SS	2 40.0		
	L	2 46		
	F	3 43		
		Victoria		
	H	2 19.0	2,870	
	P	2 24 34		
	S	2 29 08		
	L	2 32		
	F	3 43		
		Saskatoon		
	e	2 26.2		
	e	2 31.6		
	L	2 35		
	F	3 33		
		Saskatoon		
132 May 2	e	12 39.5		
	L	12 43		
	F	12 46		
		Ottawa		
134 May 5	e	5 11.3		
	L	5 14		
	F	5 30		
		Ottawa		
135 May 6	H	20 30.5	14,200	USCGS gives:-
	P$	20 49 35		ϕ = 7° S.
	PF	20 51 24		λ = 150° E.
	SKP	20 52 50		
	PS	21 01 26		
	PPS	21 03.2		
	SS	21 08.7		
	SSS	21 13.4		
	e	21 17.3		
	L	21 23		
	F	23 48		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	May 6, 1947	to	May 6, 1947	No. 20

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
135 May 6 (cont'd)	H	20 30.5	10,600	
	P	20 43 54		
	PP	20 47 42		
	SKS	20 54 27		
	SKKS	20 55.0		
	PS	20 56.2		
	PPS	20 56.9		
	SS	21 01.6		
	SSS	21 05.4		
	eN	21 09.2		
	L	21 14		
	F	22 43+		
		Saskatoon		
	H	20 30.7	11,500	
	PP	20 49.0		
	SKS	20 55 17		
	PS	20 58.1		
	SS	21 03.5		
	SSS	21 07.4		
	e	21 14.1		
	L	21 18.5		
	F	23 45		
		Halifax		
	H	20 31 ca.	14,500	
	SKP	20 53 28		
	PS	21 02.3		
	PPS	21 04.3		
	SS	21 10		
	SSS	21 14		
	e	21 19		
	L	21 25		
	F	22 55		
		Shawinigan Falls		
	P'	20 49 37		
	L	21 26		
	F	22 04		
		Seven Falls		
	H	20 30.5	14,500	
	P'	20 49.7		
	SKP	20 52.9		
	PS	21 02.1		
	PPS	21 03.4		
	SS	21 09.0		
	L	21 26		
	F	22 12		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	May 6, 1947		to	May 17, 1947	No. 21

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
138 May 8	e L F	7 18 48 7 19.3 7 25		
		Ottawa		
139 May 9	e L F	0 08.1 0 12 0 46		USCGS gives:- ϕ = 61° N. λ = 139° W.
		Victoria		
	e L F	0 09.5 0 19 0 44		
		Ottawa		
144 May 11	e L F	19 08 19 53 20 48		
		Victoria		
	e L F	19 06 19 44 20 45		
		Victoria		
147 May 14	e L F	2 31 3 05 3 21		
		Ottawa		
151 May 17	H P$_Z$ PP$_E$ SKP SKS$_E$ S$_N$ PS SS L F	7 06.6 7 25 44 7 27.5 7 29.0 7 33 7 36 7 38 7 45 8 00 10 30	14,200	USCGS gives:- ϕ = 37.5° S. λ = 160°

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | May 17, 1947 | | to | May 26, 1947 | No. 22 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
151 May 17 (cont'd)	H	7 06.6	11,500	
	PP	7 24 43		
	SKS	7 31 24		
	SKKS	7 32.3		
	S_E	7 32 43		
	PS_N	7 34.2		
	SS	7 39 32		
	SSS	7 44.8		
	e_E	7 47.3		
	L	7 56		
	F	10 32		
		Saskatoon		
	H	7 06.3	12,800	
	PP	7 25.9		
	S_{NW}	7 33 35		
	PS_{NE}	7 35.4		
	SS	7 41.8		
	SSS	7 45.8		
	L	7 59		
	F	10 30		
		Halifax		
	H	7 07ca.	15,000	
	PP	7 29.0		
	SS	7 47		
	e	8 03		
	L	8 11		
	F	9 29		
		Seven Falls		
	H	7 06.5	14,600	
	P?	7 25.8		
	SKP	7 29 02		
	SS	7 46.1		
	L	8 14		
	F	9 26		
		Ottawa		
155 May 26	H	0 07.1	3,310	
	P	0 13 16		
	S	0 18 20		
	L	0 22		
	F	0 41		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	May 26, 1947	to	May 27, 1947	No. 23

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
157 May 26	e	20 06.5		
	L	20 12		
	F	20 19		
		Ottawa		
158 May 27	H	5 58.8	14,700	USCGS gives:-
	P_z^2	6 18 02		$\phi = 2°$ S.
	PP	6 20.2		$\lambda = 141°$ E.
	SKP	6 21.6		
	PPS	6 33 07		
	SS	6 38.0		
	L	6 55		
	F	9 25		
		Victoria		
	H	5 59.0	11,450	
	P	6 13.0		
	PP	6 16.8		
	SKS	6 23 30		
	SKKS	6 24.2		
	S_E	6 24.9		
	PPS	6 26.9		
	SS	6 31.3		
	L	6 43		
	F	9 34		
		Saskatoon		
	H	5 58.9	12,200	
	PP	6 17 52		
	iNW	6 19 44		
	SKKS	6 25.2		
	S	6 25.6		
	PS	6 27.3		
	SS	6 33.3		
	SSS	6 37.6		
	L	6 46		
	F	9 09		
		Halifax		
	H	6 59.3	14,800	
	PP	6 20.9		
	SKP	6 21 49		
	SKKS	6 27.5		
	PPS	6 33.9		
	SS	6 38.9		
	SSS	6 45.2		
	L	6 58		
	F	8 32		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	May 27, 1947	to	May 31, 1947	No. 24

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
158 May 27 (cOnt'd)	o	6 20 25		
	L	6 5.		
	F	8 1.		
		Seven Falls		
	P?	6 18 44		
	L	6 54		
	F	8 19		
		Saskatoon		
159 May 27	e	17 45.1		
	L	17 46.5		
	F	17 49		
		Victoria		
160 May 27	e	21 00.4		
	L	21 03		
	F			
		Saskatoon		
	e	21 05.8		
	L	21 08		
	F	21 14		
		Ottawa		
164 May 31	H	15 03.6	180	
	P_2	15 04 09		
	S_2	15 04 29.5		
	e	15 04 36		
	F	15 04.9		

W. W. Dome.

EARTHQUAKE CORRELATION TABLE

May, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
130	2	1 48+0 27L		1 56+0 08					
131	2	2 28+1 15u	2 25+1 18r	2 26+1 07r	2 50+0 15L				A
132	2			12 39+0 07r					
133	2	15 02+0 07L							
134	5	5 11+0 19u							
135	6	20 50+2 58U	20 44+2 00U	20 49+2 56U	20 53+2 02U		20 50+1 22U	20 50+1 14U	B
136	6		22 43+1 14L					21 31+0 01P	
137	7		14 52+0 21L						
138	8	0 08+0 38r	7 19+0 06r	7 24+0 05L				7 36+0 02L	
139	9	13 46+0 18L	0 09+0 35r	0 16+0 24L				13 49+0 06L	
140	9	0 47+0 16L	13 58+0 09L						
141	10		0 35+0 12L						
142	11		5 15+0 02L						
143	11	7 09+0 18L	7 14+0 27L						
144	11	19 08+1 40u	19 06+1 39u						
145	11		22 48+0 34L						
146	12		10 54+0 13L						
147	14	3 07+0 28L	2 31+0 50u						
148	16		6 10+0 02L						
149	16		6 41+0 05L						
150	16		7 22+0 06L					6 05+0 02L	
151	17	7 26+3 04U	7 25+3 07U	7 26+3 04U	7 29+2 00U		7 26+2 00U		C
152	18	2 00+0 09L							
153	24	16 23+0 58L	18 33+0 10L						
154	25	0 13+0 28r	16 06+0 40L						
155	26	6 33+0 07L							D
156	26	20 06+0 13r	20 02+0 05L						
157	26	6 18+3 07U	6 13+3 21U	6 18+2 51U	6 21+2 11U		6 19+2 00U	6 20+1 56U	
158	27		17 39+0 11L	17 45+0 04r					E
159	27		21 00+0 19r	21 06+0 08r					
160	27	21 17+0 16L	15 11+0 35L						
161	28	15 45+0 45L							
162	29	23 28+0 22L				23 33+0 09L			
163	30		13 51+0 14L						
164	31	15 04+0 0.8v*							F

CORRELATION OF EARTHQUAKES

May, 1947

N O T E S

==

A	:	Ottawa	Δ = 5,940 km.	H = $2^h19^m.1$ U.T.
		Victoria	Δ = 2,870 km.	H = 2 19.0 U.T.
B	:	Ottawa	Δ = 14,200 km.	H = $20^h30^m.5$ U.T.
		Victoria	Δ = 10,600 km.	H = 20 30.5 U.T.
		Saskatoon	Δ = 11,500	H = 20 30.7 U.T.
		Halifax	Δ = 14,500 km.	H = 20 31 U.T.
		Seven Falls	Δ = 14,500 km.	H = 20 30.5 U.T.
C	:	Ottawa	Δ = 14,200 km.	H = $7^h06^m.6$ U.T.
		Victoria	Δ = 11,500 km.	H = 7 06.6 U.T.
		Saskatoon	Δ = 12,800 km.	H = 7 06.3 U.T.
		Halifax	Δ = 15,000 km.	H = 7 07ca U.T.
		Seven Falls	Δ = 14,600 km.	H = 7 06.5 U.T.
D	:	Ottawa	Δ = 3,310 km.	H = $0^h07^m.1$ U.T.
E	:	Ottawa	Δ = 14,700 km.	H = $5^h58^m.8$ U.T.
		Victoria	Δ = 11,450 km.	H = 5 59.0 U.T.
		Saskatoon	Δ = 12,200 km.	H = 5 58.9 U.T.
		Halifax	Δ = 14,800 km.	H = 5 59.3 U.T.
F	:	Ottawa	Δ = 180 km.	H = $15^h03^m.6$ U.T.

Dominion Observatory,

Ottawa, Canada.

July 10, 1947.

SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED

April, 1947

Bogota	August, September, 1946	April	3
Moscow	October, November, 1946	"	3
Rome	January, 1947	"	3
San Fernando	Year, 1942	"	8
San Fernando	July to December, 1941	"	8
Berkeley	Preliminaries July to December, 1946	"	8
Santa Clara	March, 1947	"	8
Almeria	January to June, 1942	"	9
Almeria	October, 1945	"	9
La Paz	Year, 1945	"	10
Moscow	December, 1946	"	10
Almeria	November, December, 1945	"	10
Stuttgart	February, 1947	"	10
St. Louis and Auxiliary Stations	Preliminaries June 7, July 1, August 21, 28, September 12, 25, 29, 30, October 2, 1946	"	18
Harvard	January to December, 1946	"	19
Rome	February, 1947	"	21
Moscow	January to March, 1947	"	24
Moscow and Russian Stations	January, February, 1947	"	25
Bucarest	Year, 1946	"	25
Zurich	January to March, 1947	"	28
Perth	October to December, 1946	"	29

May, 1947

Stuttgart	March, 1947	May	2
Paris	April, 1941	"	5
Strasbourg	Supplement October, November, 1946	"	5
De Bilt	March, 1947	"	7
Helsinki	October to December, 1946	"	8
Wellington	Preliminary February, 1947	"	8
Ksara	February, March, 1947	"	12
Santa Clara	April, 1947	"	13
Rome	March, 1947	"	13
Triests	December, 1946, January, February, 1947	"	13
Firenze	December, 1946, January, February, March, 1947	"	13
Lima	Years 1944, 1945	"	20
Weston	Preliminary February, March, 1947	"	26
De Bilt	Preliminary April, 1947	"	28
Bogota	October, November, December, 1946	"	30
Belgrade	January, February, 1947	"	31

DOMINION OBSERVATORY

OTTAWA - CANADA.

DEPARTMENT OF MINES AND RESOURCES

SURVEYS AND ENGINEERING BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN
June and July
1947

0000

DOMINION OBSERVATORY

OTTAWA — CANADA

0000

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	June 1, 1947		to	June 5, 1947	No. 25

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
165 June 1	H Pz S SSS L F	11 19.0 11 29 52 11 38.9 11 47 11 54 12 23	7500	
		Ottawa		
171 June 2	H P S L F	6 40.7 6 53 28 7 04 10 7 21 8 25	9720	
		Seven Falls		
	H P S L F	6 40.3 6 53 10 7 03 59 7 24 8 15	9865	
		Ottawa		
173 June 3	H Pz Sz L F	0 29.9 0 40 54 0 50 00 1 01 1 30	7600	
		Ottawa		
178 June 5	H P2z S2z ez F	20 14.7 20 15 26.5 20 15 57.5 20 16 19 20 16.7	275	
		Ottawa		
179 June 5	H P PPP S SS L F	22 58.4 23 04 54 23 06 16 23 10 14 23 12 30 23 15.5 23 45	3570	USCGS gives:- $\phi = 14°$ N. $\lambda = 90°$ W.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	June 5, 1947	to	June 7, 1947	No. 26

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
179 June 5 (cont'd)	H	22 58.3	4900	
	P	23 06 25		
	S	23 13 04		
	SS	23 15 52		
	L	23 20		
	F	23 34		
		Seven Falls		
	e	23 06.9		
	L	23 11		
	F	23 45		
		Shawinigan Falls		
	H	22 58.5	3720	
	P	23 05 11		
	PPP	23 06 38		
	S	23 10 41		
	L	23 14		
	F	23 20		
		Ottawa		
180 June 7	H	18 47.8	13500	USCGS gives:- $\phi = 11°$ N, $\lambda = 127°$ E.
	P$\frac{1}{2}$	19 06 41		
	PP	19 08 10		
	PS	19 18.0		
	SS	19 24 38		
	SSS	19 28.8		
	L	19 45		
	F	21 23		
		Victoria		
	H	18 48.2	11100	
	PP	19 05 22		
	SKS$_E$	19 11 55		
	SKKS$_E$	19 12 30		
	S$_N$	19 13 03		
	PS	19 14.3		
	SS	19 19		
	SSS	19 24		
	L	19 35		
	F	21 23		
		Saskatoon		
	e	19 14 16		
	L	19 23		
	F	20 38		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	June 7, 1947		to	June 12, 1947	No. 27

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
182 June 10	eZ	11 31.4		
	eN	11 43.4		
	e	11 49		
	L	12 04		
	F	12 51		
		Ottawa		
183 June 10	H	19 40.5	3850	
	P	19 47 25		
	S	19 53 03		
	L	19 57		
	F	20 26		
		Seven Falls		
	H	19 40.5	3480	
	P	19 46 54		
	S	19 52 09		
	L	19 58		
	F	20 30		
		Ottawa		
184 June 12	H	9 02.4	14500	USCGS gives:- $\phi = 1°$ N. $\lambda = 127°$ E.
	P½	9 21 36		
	PP	9 23 44		
	SKP	9 25.0		
	PPP	9 26.2		
	SKKS	9 30.5		
	PS	9 34.2		
	SS	9 41.0		
	L	9 56		
	F	11 43		
		Victoria		
	H	9 02.7	11100	
	P	9 16 30		
	PP	9 20 54		
	SKS	9 27.2		
	S	9 28.3		
	PS	9 29.7		
	PPS	9 30.2		
	SS	9 35.2		
	SSS	9 39.2		
	L	9 49		
	F	11 39		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	June 12, 1947		to	June 12, 1947	No. 28

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
184 June 12 (cont'd)	H	9 02.4	14000	
	PP	9 23.2		
	SKP	9 24 34		
	PS	9 33.5		
	SS	9 40.3		
	F	11 42		
		Halifax		
	H	9 02.3	14700	
	P'	9 21.7		
	SKP	9 25 17		
	SKKS	9 31.0		
	PPS	9 36.2		
	SS	9 42 00		
	SSS	9 47.2		
	L	10 02		
	F	11 05		
		Seven Falls		
	H	9 02.6	14300	
	P'	9 21 40		
	PP	9 23.8		
	SKP	9 25.1		
	S	9 31.6		
	PS	9 33.8		
	SS	9 41.2		
	L	9 59		
	F	11 48		
		Shawinigan Falls		
	H	9 02.4	14450	
	P'	9 21 35		
	PP	9 23 44		
	SKP	9 24 56		
	SKS	9 28.7		
	SKKS	9 30.7		
	PS	9 34.0		
	F	10 07		
		Ottawa		
185 June 12	H	18 14.6	160	
	P_{2Z}	18 15 02		
	S_{2Z}	18 15 20.5		
	e_Z	18 15 27		
	F_Z	18 15.6		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
186 June 12	H	23 03.2	155	
	P_{2Z}	23 03 36		
	i_Z	23 03 37.6		
	S_{2Z}	23 03 54		
	i_Z	23 03 57		
	e_Z	23 04 03		
	F	23 04.2		
		Ottawa		
188 June 13	H	20 25ca	11800 ca	USCGS gives:- $\phi = 19°$ N. $\lambda = 146°$ E.
	P_Z	20 39.2		
	e_Z	20 42.1		
	PP	20 43 20		
	SKS	20 49 30		
	S_T	20 50 48		
	PS	20 52 24		
	SS	20 58 20		
	SSS_N	21 02		
	SSSS	21 06		
	L	21 13		
	F	23 56		
		Victoria		
	H	20 25.1	8250	
	P	20 36 42		
	S	20 46 20		
	SS	20 51.4		
	L	21 00		
	F	23 40		
		Saskatoon		
	H	20 25.0	9220	
	P	20 37 27		
	S	20 47.7		
	PS	20 48.7		
	SS	20 53.3		
	L	21 05		
	F	23 12		
		Halifax		
	H	20 25.0	12100	
	PP	20 43 56		
	PPP	20 46 24		
	SKS	20 50 08		
	PS	20 53 20		
	SS	20 59 23		
	L	21 12		
	F	22 30		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | June 13, 1947 | | to | June 13, 1947 | No. 30 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
188 June 13 (cont'd)	H	20 25.0	11700	
	PP	20 43 25		
	SKS	20 49 46		
	PS	20 52 31		
	SS	20 58 29		
	SSSS	21 07		
	L	21 17		
	F	23 52		
		Shawinigan Falls		
	e	20 42 41		
	e	20 49 40		
	e	20 52.3		
	F	22 03		
		Ottawa		
191 June 13	H	23 50	11800	
	PP	0 08 37		
	SKS	0 15.0		
	SS	0 18		
	e	0 23.5		
	L	0 33		
	F	2 12		
		Victoria		
	H	23 49.9	8520	
	P	0 01 42		
	S	0 11 32		
	PS	0 12.4		
	SS	0 16.8		
	L	0 25		
	F	2 15		
		Saskatoon		
	H	23 50.4	9280	
	P	0 02 50		
	S	0 13.2		
	SS	0 18.9		
	L	0 29		
	F	2 05		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | June 13, 1947 | | to | June 19, 1947 | No. 31 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
191 June 13 (cont'd)	K PP SKS PS SS L F	23 50.5 0 08 51 0 15 16 0 18.0 0 21.8 0 41 2 36	11700	
		Victoria		
194 June 14	e L F	16 52.2 17 05 18 00 ca		
		Seven Falls		
197 June 16	K P_1 S_1 F	17 04.8 17 04 53.5 17 04 57.5 17 05.4	33	
		Ottawa		
200 June 18	e e F	22 06 30.8 22 06 32 22 07.3		Blast at Dibbleo quarry, 3.5 miles south of Ottawa.
		Ottawa		
201 June 19	eZ L F	2 25 18 2 57 3 40		
		Victoria		
	e L F	2 35.9 2 46 3 06		
		Ottawa		
202 June 19	K PP SKS PS SS SSS eK L F	7 34.3 7 52 45 7 59 09 8 02.1 8 07.9 8 11.5 8 17 8 21 10 05	11800	USCGS gives:- ϕ = 22° N. λ = 146° E.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	June 19, 1947	to	June 19, 1947	No. 32

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
202 June 19 (cont'd)	H	7 34.8	8200	
	P	7 46 20		
	PP	7 49.1		
	S	7 55 56		
	SS	8 01		
	SSS	8 04		
	L	8 09		
	F	10 13		
		Saskatoon		
	H	7 34.3	9390	
	P	7 46 47		
	SKS	7 57 03		
	PS	7 58.2		
	L	8 15		
	F	10 49		
		Halifax		
	H	7 34.4	12300	
	SKS	7 59.2		
	PS	8 02 39		
	SS	8 08.8		
	L	8 25		
	F	9 20		
		Seven Falls		
	H	7 34.7	11700	
	PP	7 53 03		
	PPP	7 54.8		
	SKS	7 59.3		
	SKKS	8 00.4		
	PS	8 02.2		
	SS	8 07.9		
	L	8 23		
	F	10 36		
		Shawinigan Falls		
	e	7 52 51		
	L	8 27		
	F	8 47		
		Ottawa		
205 June 19	H	22 47.6	4940	
	P z	22 55 49		
	S	23 02 30		
	SS	23 05.7		
	L	23 10		
	F	23 30		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	June 19, 1947	to	June 20, 1947	No. 33

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
205 June 19 (cont'd)	H P PPP S SS L F	22 47.5 22 56 14 22 58.9 23 03 20 23 06.2 23 10 23 46	5400	
		Ottawa		
207 June 20	H P PP$_E$ S SS$_N$ L F	13 34.4 13 40 36 13 41.4 13 45 40 13 47.0 13 49 14 16	3310	
		Seven Falls		
	e L F	13 39 58 13 46 14 20		
		Seven Falls		
208 June 20	e L F	17 10 51 17 16 17 30		
		Ottawa		
213 June 20	e$_Z$ L F	22 44 41 22 56 23 09		
		Ottawa		
214 June 20	e$_Z$ e$_E$ L F	23 16 18 23 21.8 23 25 23 48		
		Seven Falls		
	e e L F	23 15 47 23 21.0 23 26 23 39		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	June 20, 1947	to	June 30, 1947	No. 34

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
219 June 22	ez L F	23 36 38 23 48 0 12		
		Ottawa		
222 June 23	H P2Z S2Z ez F	21 13.4 21 13 57.5 21 14 21 21 14 33 21 14.7	205	
		Ottawa		
223 June 24	H P2Z S2Z ez F	21 28.8 21 29 16 21 29 33.5 21 29 42 21 30.1	150	
		Ottawa		
226 June 25	ez L F	22 56 29 23 06 23 26		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

June, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls V. A.	Shawinigan	**
165	1	11 30+0 53u	12 03+0 24L						A
166	1	17 34+0 01P*							
167	1	22 30+0 01P*						1 53+0 02P	
168	1								
169	2	4 10+0 01P*							
170	2								B
171	2	6 53+1 32u	7 03+0 03L			7 04+1 11u	6 53+0 02P		
172	2	19 33+0 0.3P*	7 26+0 35L						C
173	3	0 41+0 49u	1 10+0 26L	0 54+0 21L		4 59+0 21L	0 42+0 01P		
174	3					6 06+0 12L			
175	3					1 00+0 27L			
176	3							2 59+0 01P	D
177	4	2 58+0 01P*							E
178	5	20 15+0 01v*							F
179	5	23 05+0 40r	23 06+0 28r	23 16+0 16L	23 07+0 02P	23 07+0 38r			
180	5	19 07+2 16U	19 05+2 18U	19 14+1 24U	19 43+0 36L				
181	7	6 18+0 01P*						6 18+0 01P	
182	9	11 31+1 20u							G
183	10	19 47+0 39r				19 52+0 33r	19 47+0 03P		H
184	10	9 22+2 21U	9 16+2 23U	9 23+2 19U	9 22+1 43U	9 24+2 24U	9 22+0 31U	9 22+0 45U	J
185	12	13 15+0 0.6v*							K
186	12	23 04+0 0.6v*							
187	12	18 26+0 0.3P*							
188	13	20 39+3 17U							
189	13	20 55+0 0.6P*	20 37+3 03U	20 37+2 35U	20 44+1 46U	20 43+3 09U	20 43+1 00U	20 43+1 20U	L

EARTHQUAKE CORRELATION TABLE

June, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
190	13	21 37+0 01P*		0 03+2 02u	0 44+0 55L	0 09+2 27u			M
191	13	0 09+2 03u	0 02+2 13u						
192	14	1 04+00.4P*							
193	14	1 50+00.1P**	16 52+1 08u			16 56+1 05L			
194	14	17 13+0 43L	11 17+0 15L	7 47+3 02u					
195	15	11 34+0 06L							
196	16	11 15+0 0.5P*				17 05+0 0.5d	17 05+0 0.5d		N
197	16		14 30+0 13L						
198	17	14 05+0 01P*							
199	18	11 07+0 01P*							
200	18	22 05+0 01d							
201	19	2 25+1 15u	2 36+0 30u	2 53+0 02L		2 47+0 58L			
202	19	7 53+2 12u	7 46+2 27u	7 47+3 02u	7 59+1 21u	7 53+2 43u	7 59+0 41u	7 53+0 54u	P
203	19	8 05+00.7P*							
204	19	22 13+00.2P*	23 12+0 12L						
205	19	22 56+0 34r		23 09+0 20L		22 56+0 50u			Q
206	20					12 49+0 09L	13 40+0 05P		
207	20	13 41+0 35r	14 02+0 22L	13 53+0 15L		13 41+0 39r	17 11+0 01P		R
208	20					17 16+0 14L			
209	20	18 39+0 0.5P*							
210	20	20 28+00.2P*							
211	20	20 45+00.1P*							
212	20	22 07+00.2P*							
213	20	22 45+0 24r				23 02+0 05L			
214	20	23 16+0 32u				23 21+0 18u	23 16+0 01P		

EARTHQUAKE CORRELATION TABLE
June, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
215	21	.	.	.	.	1 14+0 09L	.	.	.
216	21	22 10+0 0.3P*	.	.	.	.	.	.	.
217	22	11 50+0 01P*	.	.	.	.	.	.	.
218	22	.	.	.	.	19 10+0 04L	.	.	.
219	22	23 37+0 35r	23 36+0 12L	23 39+0 12L	.	23 50+0 12L	.	.	.
220	23	13 11+00.5P*	.	.	.	.	.	.	.
221	23	20 17+00.1P*	.	.	.	.	.	.	.
222	23	21 14+00.7v*	.	.	.	.	.	.	S
223	24	21 29+00.8v*	.	.	.	.	.	.	T
224	25	16 49+0 01P*	23 15+0 19L	.	.	23 11+0 18L	.	16 49+0 01P	.
225	25	22 27+0 0.5P*	.	.	.	.	.	.	.
226	25	22 56+0 30r	.	.	.	.	.	.	.
227	26	.	.	4 54+0 32L	.	.	.	.	.
228	26	14 09+0 02P*	.	.	.	.	.	.	.
229	26	18 16+00.1P*	.	.	.	.	.	.	.
230	26	19 52+0 0.1P*	.	.	.	.	.	.	.
231	27	.	.	9 53+0 19L	.	2 53+0 25L	.	.	.
232	27	12 06+0 0.2P*	.	12 40+1 07L	.	19 37+0 02L	.	.	.
233	28	2 07+0 02P*	.	.	.	.	.	.	.
234	28	.	.	.	.	.	.	.	.
235	28	.	.	.	.	.	.	21 41+0 01P	.
236	29	8 23+0 06L	8 10+0 07L	8 13+0 06L	.	8 24+0 05L	8 24+0 02L	8 24+0 03L	.
237	30	4 29+0 04L	.	.	.	.	4 33+0 02L	4 30+0 04L	.
238	30	.	8 16+0 39L	.	.	8 53+0 32L	.	.	.

CORRELATION OF EARTHQUAKES

June, 1947

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N O T E S

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A	:	Ottawa	Δ = 7,500 km.	H = 11^h19^m0 U.T.
B	;	Ottawa	Δ = 9,720 km.	H = 6^h40^m7 U.T.
		Seven Falls	Δ = 9,865 km.	H = 6 40.3 U.T.
C	:	Ottawa	Δ = 7,600 km.	H = 0^h29^m9 U.T.
D	:	Ottawa	Δ = 275 km.	H = 20^h14^m7 U.T.
E	:	Ottawa	Δ = 3,570 km.	H = 22^h58^m4 U.T.
		Victoria	Δ = 4,900 km.	H = 22 58.3 U.T.
		Shawinigan Falls	Δ = 3,720 km.	H = 22 58.5 U.T.
F	:	Ottawa	Δ = 13,500 km.	H = 18^h47^m8 U.T.
		Victoria	Δ = 11,100 km.	H = 18 48.2 U.T.
G	:	Ottawa	Δ = 3,850 km.	H = 19^h40^m5 U.T.
		Seven Falls	Δ = 3,480 km.	H = 19 40.5 U.T.
H	:	Ottawa	Δ = 14,500 km.	H = 9^h02^m4 U.T.
		Victoria	Δ = 11,100 km.	H = 9 02.7 U.T.
		Saskatoon	Δ = 14,000 km.	H = 9 02.4 U.T.
		Halifax	Δ = 14,700 km.	H = 9 02.3 U.T.
		Seven Falls	Δ = 14,300 km.	H = 9 02.6 U.T.
		Shawinigan Falls	Δ = 14,450 km.	H = 9 02.4 U.T.
J	:	Ottawa	Δ = 160 km.	H = 18^h14^m6 U.T.
K	:	Ottawa	Δ = 155 km.	H = 23^h03^m2 U.T.
L	:	Ottawa	Δ = 11,800 km.	H = 20^h25^m U.T.
		Victoria	Δ = 8,250 km.	H = 20 25.1 U.T.
		Saskatoon	Δ = 9,220 km.	H = 20 25.0 U.T.
		Halifax	Δ = 12,100 km.	H = 20 25.0 U.T.
		Seven Falls	Δ = 11,700 km.	H = 20 25.0 U.T.
M	:	Ottawa	Δ = 11,800 km.	H = 23^h50^m U.T.
		Victoria	Δ = 8,520 km.	H = 23 49.9 U.T.
		Saskatoon	Δ = 9,280 km.	H = 23 50.4 U.T.
		Seven Falls	Δ = 11,700 km.	H = 23 50.5 U.T.
N	:	Seven Falls	Δ = 33 km.	H = 17^h04^m8 U.T.
P	:	Ottawa	Δ = 11,800 km,	H = 7^h34^m3 U.T.
		Victoria	Δ = 8,200 km.	H = 7 34.8 U.T.
		Saskatoon	Δ = 9,390 km.	H = 7 34.3 U.T.
		Halifax	Δ = 12,300 km.	H = 7 34.4 U.T.
		Seven Falls	Δ = 11,700 km.	H = 7 34.7 U.T.
Q	:	Ottawa	Δ = 4,940 km.	H = 22^h47^m6 U.T.
		Seven Falls	Δ = 5,400 km.	H = 22 47.5 U.T.
R	:	Ottawa	Δ = 3,310 km.	H = 13^h34^m4 U.T.
S	:	Ottawa	Δ = 205 km.	H = 21^h13^m4 U.T.
T	:	Ottawa	Δ = 150 km.	H = 21^h28^m8 U.T.

Dominion Observatory,
   OTTAWA - CANADA.
      August 15, 1947.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM	July 1, 1947		to	July 10, 1947	No. 35

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
240 July 3	H	2 35.4	4050	
	P	2 42 30		
	S	2 48 20		
	SS	2 50.6		
	L	2 56		
	F	3 19		
		Victoria		
	H	2 35.9	4350	
	P	2 43 24		
	S	2 49 34		
	SSS	2 53.1		
	L	2 57		
	F	3 19		
		Ottawa		
247 July 6	eNS	23 45.4		
	L	23 51		
	F	23 58		
		Ottawa		
250 July 10	H	10 48.9	3000	USCGS gives:- $\phi = 73°$ N. $\lambda = 70°$ W.
	P	10 54 38		
	PP	10 55 13		
	S	10 59 21		
	iz	11 00 10		
	SS	11 00.6		
	L	11 03		
	F	12 00		
		Victoria		
	e	11 06.1		
	L	11 06.9		
	F	11 57		
		Saskatoon		
	H	10 48.7	3010	
	PNE	10 54 25		
	S	10 59 09		
	L	11 02.1		
	F	12 03		
		Seven Falls		
	H	10 48.7	2990	
	P	10 54 26		
	S	10 59 09		
	SS	11 00 06		
	L	11 02.0		
	F	12 12		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM		July 10, 1947	to		July 12, 1947	No. 36
NO. AND DATE	PHASE	TIME	DISTANCE		REMARKS	

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
250 July 10 (cont'd)	H	10 48.5	3120	
	P	10 54 25		
	PP	10 55 05		
	S	10 59 18		
	L	11 02.3		
		Kirkland Lake		
	H	10 48.8	2860	
	P	10 54 20		
	i	10 54 36		
	S	10 58 54		
	SS	11 00 31		
	L	11 02		
	F	11 20		
		Ottawa		
251 July 10	eZ	16 12.8		USCGS gives:-
	L	16 17		$\phi = 14°$ N.
	F	17 16		$\lambda = 93°$ W.
				$H = 16^h05^m.1$
		Victoria		
	e	16 13.0		
	L	16 28		
	F	17 00 ca.		
		Seven Falls		
	H	16 05.3	4110	
	PP	16 13 41		
	S	16 18 30		
	L	16 23		
	F	17 53		
		Shawinigan Falls		
	e	16 13 37		
	L	16 28.1		
	F	16 38		
		Ottawa		
252 July 12	H	1 59.0	8900	USCGS gives:-
	PZ	2 11 09		$\phi = 45°$ N.
	SE	2 21 16		$\lambda = 149°$ E.
	L	2 43		
	F	3 14		
		Victoria		
	e	2 17.5		
	L	2 24		
	F	3 07		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | July 12, 1947 | to | July 13, 1947 | No. 37 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
252 July 12 (cont'd)	H P S L F	1 59.1 2 09 23 2 17 55 2 29.7 3 05	6900	
		Seven Falls		
	i L F	2 21 19 2 38.8 3 35		
		Shawinigan Falls		
	e L F	2 11 11 2 22 09 2 23		
		Victoria		
253 July 12	H P SKS SSS L F	12 30.4 12 43.0 12 53 19 13 02.8 13 11 14 37	9400	USCGS gives:- $\phi = 20°$ S. $\lambda = 176°$ W.
		Saskatoon		
	H S SS L F	12 30.0 12 54 02 13 00 13 13.6 14 33	10100	
		Seven Falls		
	H PP SKS SKKS PS PPS L F	12 29.7 12 49.2 12 55.1 12 56.2 12 58.7 13 00.0 13 24 15 33	12800	
		Saskatoon		
254 July 13	H P S L F	6 31.0 6 35 48 6 39 46 6 42.0 6 54	2400	

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	July 13, 1947	to	July 23, 1947.	No. 38

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
255 July 13	e L F	13 10.4 13 21 14 06		
		Ottawa		
259 July 17	e_Z e_E L F	4 51 26 5 03 5 10 6 21		
		Victoria		
	e L F	4 57.8 5 12 5 57		
		Ottawa		
260 July 17	H P_{2Z} S_{2Z} e F	21 25.7 21 26 09 21 26 26.5 21 26 34 21 27	150	
		Ottawa		
268 July 23	e L F	5 24 26 5 38 5 49		USCGS gives:- ϕ = 17° N. λ = 68°.5 W. H = $5^h13^m.4$
		Ottawa		
270 July 23	H PP SKS PPS SS e L F	17 13.7 17 32 15 17 38.4 17 42.1 17 47.4 17 58 18 03 19 28	11800	USCGS gives:- ϕ = 54° S. λ = 30° W.
		Saskatoon		
	e L F	17 35.9 17 51.0 18 52		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	July 23, 1947		to	July 24, 1947	No. 39

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Halifax		
270 July 23 (cont'd)	H	17 13.6	11500	
	PP	17 31 51		
	SKS	17 38.1		
	SKKS	17 39.2		
	SS	17 46.5		
	L	18 05		
	F	18 31		
		Seven Falls		
	H	17 13.2	12100	
	PPP	17 34.4		
	SKS	17 38.1		
	SKKS	17 39 48		
	PS	17 41 48		
	PPS	17 43.6		
	SS	17 47.4		
	SSS	17 51.9		
	L	17 59		
	F	20 14		
		Ottawa		
271 July 23	H	22 25.8	155	
	P_2	22 26 14		
	S_2	22 26 32		
	i	22 26 35		
	e	22 26 39		
	F	22 27		
		Ottawa		
272 July 24	e	9 05.3		
	e	9 13.8		
	L	9 36		
	F	10 07		
		Victoria		
	e	9 01		
	L	9 43		
	F	10 28		
		Seven Falls		
	e	9 06.3		
	L	9 25		
	F	10 34		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 24, 1947   to   July 24, 1947   No. 40

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
273 July 24	eZ	10 58 46		
	e	11 07.2		
	L	11 37		
	F	11 32		
		Victoria		
	e	11 03.6		
	L	11 21		
	F	12 04		
		Seven Falls		
	e	11 11		
	L	11 24		
	F	12 26		
		Ottawa		
276 July 24	H	12 16.8	13700	USCGS gives:-
	P'	12 35 42		$\phi = 18°.5$ S.
	PP	12 37 08		$\lambda = 170°$ E.
	SKS	12 42 48		
	SKKS	12 44 16		
	PS	12 47 00		
	SS	12 53.7		
	L	13 13		
	F	15 10		
		Victoria		
	H	12 17.2	9700	
	P	12 29 54		
	S	12 40 34		
	PS	12 41 50		
	SS	12 47 02		
	SSSS	12 53.4		
	L	12 57.8		
	F	15 16		
		Saskatoon		
	H	12 17.2	11100	
	PP	12 35.0		
	SKS	12 40.9		
	SS	12 49.0		
	SSS	12 53.8		
	L	13 03		
	F	14 04		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
FROM July 24, 1947			to July 24, 1947	No. 41
		h m s	km.	
		Halifax		
276 July 24 (cont'd)	e	12 39 26		
	L	13 16		
	F	14 26		
		Seven Falls		
	H	12 17.1	13700	
	P'	12 35.9		
	PP	12 37.6		
	SKP	12 39.1		
	SKS	12 43.0		
	SKKS	12 44.6		
	PS	12 47.5		
	SS	12 54.6		
	L	13 15		
	F	15 13		
		Kirkland Lake		
	e	12 32.9		
	e	12 33 54		
	L	12 43.2		
	F	13 12		
		Dane		
	H	12 17.1	12900	
	P'	12 35 44		
	PP	12 37.0		
	SKS	12 42.7		
	PPS	12 47.8		
	L	13 20		
	F	13 50		
		Victoria		
277 July 24	H	22 10.7	1750	
	P	22 14 27		
	S	22 17 31		
	e	22 18 27		
	L	22 19.2		
	F	23 02		
		Saskatoon		
277 July 24	e	22 19 01		
	L	22 21.3		
	F	23 12		
		Shawinigan Falls		
	e	22 27 02		
	L	22 29		
	F	22 41		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND PHASE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
281 July 25	e	6 28.4		
	L	6 30		
	F	6 46		
		Ottawa		
282 July 25	H	19 08.9	6880	USCGS gives:- $\phi = 21°$ S. $\lambda = 67°$ W.
	P	19 19 11		
	S	19 27 42		
	SS	19 32		
	L	19 41		
	F	19 51		
		Seven Falls		
	H	19 09.0	6940	
	P	19 19 18		
	S	19 27 52		
	L	19 30		
	F	19 49		
		Ottawa		
285 July 26	eZ	16 19 07		
	L	17 01		
	F	17 30		
		Ottawa		
288 July 28	H	3 49.0	4740	USCGS gives:- $\phi = 62°5$ N. $\lambda = 151°$ W.
	PZ	3 56 55		
	PP	3 58 40		
	S	4 03 25		
	SS	4 06.5		
	L	4 09		
	F	4 50		
		Victoria		
	H	3 48.9	2320	
	P	3 53 35		
	S	3 57 27		
	L	4 00		
	F	4 59		
		Saskatoon		
	H	3 48.1	2600	Δt uncertain
	P	3 52 56		
	S	3 57 09		
	L	4 02		
	F	4 40		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	July 28, 1947	to	July 29, 1947	No. 43

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
July 28 (cont'd)	e	3 57 01		
	L	4 06.5		
	F	4 18		
		Shawinigan Falls		
	e	3 56 59		
	L	4 13		
	F	4 29		
		Ottawa		
292 July 29	H	13 43.2	12000	USCGS gives:-
	P	13 57 36		$\phi = 29°5$ S.
	PP	14 01 52		$\lambda = 106°$ E.
	SKS	14 08 09		
	S	14 09 32		
	PS	14 11.1		
	PPS	14 12 10		
	SS	14 17.0		
	e	14 23		
	e	14 31.5		
	L	14 36		
	F	18 10		
		Victoria		
	H	13 43.8	9800	
	P	13 56 51		
	PP	13 00 51		
	SKS	13 06 55		
	S	13 07 39		
	PS	13 08 15		
	PPS	13 09.4		
	SS	13 13.6		
	SSSS	13 20		
	L	13 29		
	F	18 10		
		Halifax		
	H	13 43.5	11500	
	PP	14 01.8		
	SKS	14 08 00		
	S	14 09.5		
	PS	14 10 26		
	SS	14 15.4		
	SSS	14 19.9		
	L	14 32		
	F	17 12		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   July 29, 1947   to   July 31, 1947   No. 44

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
292 July 29 (cont'd)	H	13 43.0	12100	
	P	13 57 26		
	PP	14 01 51		
	SKS	14 08 10		
	SKKS	14 09 11		
	PS	14 11.2		
	PPS	14 12 06		
	e	14 14.0		
	e	14 16.1		
	SSS	14 24		
	L	14 33		
	F	19 12		
		Shawinigan Falls		
	H	13 43.2	11800	
	P	13 57 28		
	PP	14 01 50		
	SKS	14 08 01		
	SKKS	14 09.0		
	F	16 03		
		Kirkland Lake		
	H	13 43.7	11100	
	P	13 57 29		
	i	14 00 19		
	SKS	14 01.1		
	e	14 14.4		
	L	14 21		
	F	16 15		
		Dane		
	H	14 43.5	11100	
	P	13 57 23		
	e	14 01 38		
	PPP	14 03.7		
	SKS	14 08.1		
	S	14 11.2		
	L	17 00		
		Ottawa		
299 July 31	H	14 13.4	4740	USCGS gives:- $\phi = 0°$ $\lambda = 84° \text{ W.}$
	P	14 21 20		
	S	14 27 50		
	SSS	14 31 20		
	L	14 35		
	F	15 05		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA.

FROM	July 31, 1947	to	July 31, 1947	No. 45

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
299 July 31 (cont'd)	H	14 13.4	6350	
	P	14 23 09		
	PP	14 25.0		
	S	14 31 10		
	e	14 32.8		
	L	14 42		
	F	15 12		
		Ottawa		
300 July 31	H	15 51.8	150	
	P_2	15 51 39		
	S_2	15 51 56		
	F	15 52.4		

W. W. Doxee.

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EARTHQUAKE CORRELATION TABLE

July, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls N.S.	Seven Falls W.A.	Shawinigan	**
239	2	21 34+0 0.5P*	21 56+0 12L			21 45+0 12L			A
240	3	2 42+0 37r	2 43+0 36r	2 55+0 13L		2 42+0 40L	21 38+0 02P		
241	3		21 28+0 06L			21 38+0 05L			
242	4		1 51+0 08L						
243	5		23 38+0 05L						
244	6		1 23+0 09L						
245	6		3 11+0 07L						
246	6		11 30+0 09L						
247	7	23 45+0 13u				5 36+0 07L			
248	7	22 47+0 02P*				23 15+0 07L			B
249	10	10 55+1 05r	11 06+0 51r	10 54+1 14r	11 02+0 10L	10 59+1 13r	10 54+0 21r		C
250	10	16 13+1 03u	16 13+0 47u	15 22+0 32L		16 14+1 39u	16 26+0 09L	16 14+0 24u	D
251	12	2 11+1 03u	2 17+0 50u	2 09+0 56u		2 21+1 14u		2 11+0 12u	E
252	12	12 48+2 12L	12 43+1 54u	12 54+1 39u		12 49+2 44u			
253	13		6 38+0 17L	6 36+0 18r	13 25+0 23u	6 41+0 20L			
254	13		13 11+0 55r			13 23+1 05L			
255	14	7 06+0 01P*							F
256	14	18 36+0 0.4P*							
257	16	20 05+0 32L	19 42+0 48L			19 45+1 17L			
258	17	4 51+1 30u	4 57+1 00u			5 03+1 58L			G
259	17	21 26+0 01v*							
260	19	12 44+0 0.5P*							
261	20		2 34+0 06L			11 23+0 27L			
262	20		11 13+0 19L						
263	20		12 40+0 09L						
264	21								
265	21	9 48+0 01P*							

EARTHQUAKE CORRELATION TABLE
July, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
266	21	10 16+0 02P*	.	.	.	.	.	.	.
267	23	5 19+0 02P*	.	.	.	.	.	.	.
268	23	5 24+0 25r	.	.	.	5 24+0 24L	.	.	.
269	23	5 43+0 02P*	17 47+2 03L	.	.	.	.	.	.
270	23	17 32+1 58u	.	17 36+1 16u	17 32+0 59u	17 34+2 40u	.	.	.
271	23	22 26+0 01v*	9 01+1 27u	.	.	.	.	.	.
272	24	9 05+1 02u	11 04+1 00u	11 29+0 08L	.	9 06+1 28u	.	.	J
273	24	10 59+0 33u	.	.	.	11 11+1 15u	.	.	
274	24	11 20+0 01P*	.	.	.	.	.	.	K
275	24	12 30+0 01P*	12 30+2 46U	12 35+1 29U	12 39+1 47U	12 36+2 47U	22 30+0 11L	12 36+0 02P	
276	24	12 36+2 34U	22 14+0 48R	22 19+0 53r	22 33+0 11L	.	.	22 27+0 14L	
277	24	22 44+0 44L	23 03+0 10L	.	.	.	.	.	.
278	24	23 12+0 07L	0 55+0 10L	0 57+0 40L	.	.	.	.	.
279	24	1 04+0 10L	1 21+0 11L	.	.	.	.	.	.
280	25	.	6 27+0 17L	.	.	.	.	.	.
281	25	6 37+0 18L	19 30+0 28L	6 28+0 18r	6 42+0 06L	19 19+0 20u	19 19+0 09u	6 38+0 05P	L
282	25	19 19+0 32u	2 58+0 12L	.	.	3 10+0 16L	.	19 19+0 09P	
283	26	3 07+0 12L	12 05+0 13L	.	3 12+0 03L	12 26+0 29L	.	3 08+0 04P	
284	26	.	16 42+0 34L	.	.	17 01+0 32L	.	.	.
285	26	16 19+1 10u	.	.	.	.	.	.	.
286	26	22 35+0 03P*	.	.	.	.	.	.	.
287	26	23 03+0 01P*	.	.	4 14+0 11L	.	.	.	.
288	28	3 57+0 53r	3 54+1 05r	3 53+0 47r	.	7 04+1 06L	3 57+0 21r	3 57+0 29r	M
289	29	2 49+0 01P*	.	.	.	.	.	.	.
290	29	.	.	.	.	.	.	.	.
291	29	12 57+0 02P*	.	.	.	.	.	.	.
292	29	13 58+4 12U	13 57+4 13U	.	14 02+3 10U	13 57+5 15U	13 57+2 43U	13 57+2 05U	N

EARTHQUAKE CORRELATION TABLE

July, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
293	29	23 49+0 02P*							
294	30	1 31+0 01P*							
295	30	4 16+0 01P*							
296	30	4 21+0 02P*							
297	30	·							
298	31	·8 05+0 02P*	14 23+0 49u			15 54+0 20L			O
299	31	14 21+0 44r							P
300	31	15 51+0 01v*							
301	31	18 47+0 01P*							

CORRELATION OF EARTHQUAKES

June, 1947

N O T E S

A	:	Ottawa	$\Delta =$ 4,050 km.	H = 2^h35^m4 U.T.
		Victoria	$\Delta =$ 4,350 km.	H = 2 35.9 U.T.
B	:	Ottawa	$\Delta =$ 3,000 km.	H = 10^h48^m9 U.T.
		Saskatoon	$\Delta =$ 3,010 km.	H = 10 48.7 U.T.
		Seven Falls	$\Delta =$ 2,990 km.	H = 10 48.7 U.T.
		Shawinigan Falls	$\Delta =$ 3,120 km.	H = 10 48.5 U.T.
		Kirkland Lake	$\Delta =$ 2,860 km.	H = 10 48.8 U.T.
C	:	Seven Falls	$\Delta =$ 4,110 km.	H = 16^h05^m3 U.T.
D	:	Ottawa	$\Delta =$ 8,900 km.	H = 1^h59^m0 U.T.
		Saskatoon	$\Delta =$ 6,900 km.	H = 1 59.1 U.T.
E	:	Victoria	$\Delta =$ 9,400 km.	H = 12^h30^m4 U.T.
		Saskatoon	$\Delta =$ 10,100 km.	H = 12 30.0 U.T.
		Seven Falls	$\Delta =$ 12,800 km.	H = 12 29.7 U.T.
F	:	Saskatoon	$\Delta =$ 2,400 km.	H = 6^h31^m0 U.T.
G	:	Ottawa	$\Delta =$ 150 km.	H = 21^h25^m7 U.T.
H	:	Ottawa	$\Delta =$ 11,800 km.	H = 17^h13^m7 U.T.
		Halifax	$\Delta =$ 11,500 km.	H = 17 13.6 U.T.
		Seven Falls	$\Delta =$ 12,100 km.	H = 17 13.2 U.T.
I	:	Ottawa	$\Delta =$ 155 km.	H = 22^h25^m8 U.T.
J	:	Ottawa	$\Delta =$ 13,700 km.	H = 12^h16^m8 U.T.
		Victoria	$\Delta =$ 9,700 km.	H = 12 17.2 U.T.
		Saskatoon	$\Delta =$ 11,100 km.	H = 12 17.2 U.T.
		Seven Falls	$\Delta =$ 13,700 km.	H = 12 17.1 U.T.
		Dane	$\Delta =$ 12,900 km.	H = 12 17.1 U.T.
K	:	Victoria	$\Delta =$ 1,750 km.	H = 22^h10^m7 U.T.
L	:	Ottawa	$\Delta =$ 6,880 km.	H = 19^h08^m9 U.T.
		Seven Falls	$\Delta =$ 6,940 km.	H = 19 09.0 U.T.
M	:	Ottawa	$\Delta =$ 4,740 km.	H = 3^h49^m0 U.T.
		Victoria	$\Delta =$ 2,340 km.	H = 3 48.9 U.T.
		Saskatoon	$\Delta =$ 2,600 km.	H = 3 48.1 U.T.
N	:	Ottawa	$\Delta =$ 12,000 km.	H = 13^h43^m2 U.T.
		Victoria	$\Delta =$ 9,800 km.	H = 13 43.8 U.T.
		Halifax	$\Delta =$ 11,500 km.	H = 13 43.5 U.T.
		Seven Falls	$\Delta =$ 12,100 km.	H = 13 43.0 U.T.
		Shawinigan Falls	$\Delta =$ 11,800 km.	H = 13 43.2 U.T.
		Kirkland Lake	$\Delta =$ 11,100 km.	H = 13 43.7 U.T.
		Dane	$\Delta =$ 11,100 km.	H = 13 43.5 U.T.
O	:	Ottawa	$\Delta =$ 4,740 km.	H = 14^h13^m4 U.T.
		Victoria	$\Delta =$ 6,350 km.	H = 14 13.4 U.T.
P	:	Ottawa	$\Delta =$ 150 km.	H = 15^h51^m8 U.T.

Dominion Observatory,

OTTAWA, CANADA.

October 6, 1947.

SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED

June, 1947

UCCLE	1941 - 1945; February, March, April, 1947	June	2
Wellington	Locals for 1945; March, 1947	"	2
Almeria	April - August, 1946	"	3
Stuttgart	August to December, 1939; 1940; 1941; January to June, 1942	"	7
Moscow	March, 1947	"	7
Pasadena	July to December, 1946, January to March, 1947; Preliminaries - March to May, 1947	"	16
Belgrade	March, April, 1947	"	16
Strasbourg	December, 1946, January, February, 1947	"	17
Perth	January to March, 1947	"	17
Helsinki	January to March, 1947	"	18
Brisbane	November, December, 1946, February, March, 1947	"	19
USCGS	April to June, 1944	"	20
Rome	April, 1947	"	20
Lima	Year 1946	"	20
St. Louis and Auxiliary Stations	Supplement for April, June, August, 1946; Preliminaries September 13, 18, 23	"	27
Apia	January to March, 1947	"	28
Santa Clara	May, 1947	"	28
Wellington	Year 1943, April, 1947	"	28
Brisbane	April, 1947	"	30
De Bilt	Years 1938 - 1941	"	30

July, 1947

De Bilt	May, 1947	July	4
UCCLE	May, June, 1947	"	4
Moscow	April, 1947	"	7
Weston	Preliminaries - April, May, 1947	"	10
St. Louis and Auxiliary Stations	Supplements for May, July, September, October, November, 1946	"	11
Santa Clara	June, 1947	"	14
India Stations	April - September, 1942	"	14
Trieste	March, April, 1947	"	17
Ksara	April, May, 1947	"	17
Rome	May, 1947	"	19
Pasadena	Preliminaries May 26 - July 6, 1947	"	21
Belgrade	May, 1947	"	22
Zurich	April, May, 1947	"	23
UCCLE	June, 1947	"	24
Batavia	Year, 1941	"	25
Bureau Central	March, 1947	"	28
Strasbourg	June, 1947	"	28

DOMINION OBSERVATORY
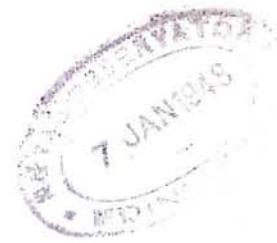
OTTAWA - CANADA

DEPARTMENT OF MINES AND RESOURCES

MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

August and September
1947

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DOMINION OBSERVATORY

OTTAWA — CANADA

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SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

C. S. Beals, Dominion Astronomer
Ernest A. Hodgson, Chief, Seismological Division
W. W. Doxsee, Seismologist in charge
W. G. Milne, 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 EW, 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.

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

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.

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 and NW components,
    designated 18 and 22, respectively, each with
    photographic registration, magnetic damping,
    paper speed of 8 mm. per min., mass 1 lb.

DETERMINED CONSTANTS

INSTRUMENT	To	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	2500			
20 (Victoria)	12.0	300	20:1		
21 (Victoria)	12.0	300	20:1		
SF (Seven Falls)	1.0	2500			
SM (Seven Falls)	12.0	300	20:1	50 mm.	
18 (Saskatoon)	10.0	150	20:1	18 mm.	
22 (Saskatoon)	10.0	150	20:1	18 mm.	

NOTE:- Universal Time used throughout.

EXPERIMENTAL FIELD STATIONS

The following stations are a semi-permanent installation. They are to be moved at irregular intervals of time on a line stretching from Kirkland Lake, Ontario to Ottawa. Outstanding earthquakes recorded on these instruments are included in the main body of this bulletin.

Instruments: Sprengnether electro-magnetic seismometers with galvanometric registration; period of seismometer and galvanometer both set at 1.9 sec.; magnetic damping in ratio 2.29:1; paper speed of 60 mm. per min.

KIRKLAND LAKE

Operating continuously.

$\varphi = 48°09'$ N. $\lambda = 80°03'$ W.   Z component.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

DANE

Operating during summer season.

$\varphi = 48°04'$ N. $\lambda = 80°01'$ W.   Z, NS, and EW components.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield·

VILLE MARIE

Operating continuously.

$\varphi = 47°19'$ N. $\lambda = 79°27'$ W.   Z, NS, and EW components.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

TEMISKAMING

Operating during winter season.

$\varphi = 46°40'$ N. $\lambda = 79°04'$ W.   Z, NS, and EW components.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   **August 1, 1947**   to   **August 5, 1947**   No. 46

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
302 Aug. 1	iz	1 00 48		
	ez	1 01 30		
	e	1 10.1		
	L	1 19		
	F	1 24		
		Seven Falls		
	e	1 10 18		
	L	1 21		
	F	1 30		
		Victoria		
305 Aug. 1	e	14 34.8		
	L	14 37		
	F	15 30		
		Ottawa		
307 Aug. 2	H	19 56.9	150	
	P_2	19 57 18.5		
	S_2	19 57 36		
	e	19 57 44		
	F	19 58		
		Ottawa		
308 Aug. 4	H	8 25.7	90	Cornwall?
	P_1	8 26 01		
	S_1	8 26 12		
	F	8 27		
		Ottawa		
310 Aug. 5	iz	7 57 03		
	e	8 07		
	L	8 09		
	F	8 18		
		Ottawa		
311 Aug. 5	H	14 24.3	11,100	USCGS gives:-
	P	14 38.1		$\varphi = 25°$ N.
	e	14 41.0		$\lambda = 62°$ E.
	PP	14 42 08		
	SKS	14 48 35		
	PPS	14 51 20		
	SS	14 56 45		
	SSS	15 00.4		
	L	15 13		
	F	18 23		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   August 5, 1947   to   August 5, 1947   No. 47

NO, AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
311 Aug. 5 (cont'd)	H	14 24.1	11,100	
	e_N	14 38.6		
	PP	14 41 52		
	e	14 43 12		
	PPP	14 44.2		
	SKKS	14 49 05		
	PPS	14 51.6		
	SS	14 56.2		
	SSSS	15 03		
	L	15 09		
	F	17 18		
		Saskatoon		
	H	14 24.3	11,500	
	PP	14 42 32		
	SKS	14 48 52		
	PS	14 51 36		
	SS	14 56.3		
	L	15 11		
	F	17 40		
		Halifax		
	H	14 24.4	10,600	
	PP	14 41.7		
	SKS	14 48.3		
	SS	14 55		
	F	17 06		
		Seven Falls		
	H	14 24.3	10,900	
	P	14 37 50		
	PP	14 41 51		
	SKS	14 48 24		
	SKKS	14 49.1		
	PS	14 50.6		
	SS	14 55.4		
	SSS	15 00.1		
	SSSS	15 05.6		
	L	15 13		
	F	18 56		
		Shawinigan Falls		
	H	14 24.4	10,900	
	P	14 38 00		
	PP	14 42 07		
	SKS	14 48.3		
	SS	14 56.2		
	L	15 09		
	F	16 23		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	August 5, 1947	to	August 6, 1947	No. 48

NO. AND DATE	PHASE	TIME h m s	DISTANCE km.	REMARKS
		Dane		
311 Aug. 5 (cont'd)	H	14 24.4	10,900	
	P	14 38.0		
	PP	14 41.5		
	PPP	14 43.9		
	SKS	14 48.6		
	PS	14 50.9		
	L	15 07		
	F	15 58		
		Kirkland Lake		
	H	14 24.4	10,900	
	P	14 38.1		
	PP	14 42.0		
	e	15 03		
	F	16 21		
		Ottawa		
313 Aug. 5	H	21 56.5	150	
	P_2	21 56 57.5		
	S_2	21 57 15		
	e	21 57 23		
	F	21 57.6		
		Ottawa		
314 Aug. 6	H	5 47.2	5,110	USCGS gives:— $\varphi = 9°5$ S. $\lambda = 72°$ W.
	P	5 55 33		
	eZ	5 56 29		
	PPP	5 57 24		
	eN	6 00 32		
	S	6 02 24		
	e	6 04 18		
	SS	6 05.8		
	F	6 28		
		Victoria		
	H	5 47.2	7,120	
	P	5 57 39		
	PP	5 59 46		
	S	6 06 23		
	SS	6 10 03		
	F	6 37		
		Saskatoon		
	H	5 47.0	4,780	
	S	6 01 32		
	SSS	6 05 13		
	L	6 08		
	F	6 30		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | August 6, 1947 | | to | August 6, 1947 | No. 49 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
314 Aug. 6 (cont'd)	H	5 47.0	..5,350	
	P	5 55 46		
	S	6 02 50		
	SS	6 06 14		
	L	6 10		
	F	6 47		
		Shawinigan Falls		
	H.	5 47.2	5,220	
	P	5 55 41		
	PP	5 57 34		
	S	6 02 38		
	F	6 16		
		Dane		
	H	5 47.2	5,400	
	P	5 55 56		
	S	6 03 03		
	F	6 08		
		Kirkland Lake		
	H	5 47.1	5,450	
	P	5 55 55		
	PP	5 57 50		
	S	6 03 06		
	F	6 08		
		Ottawa		
318 Aug. 6	e	20 16 27		
	L	20 19		
	F	20 35		
		Seven Falls		
	e	20 17.0		
	L	20 22		
	F	21 03		
		Ottawa		
321 Aug. 6	eZ	23 38 30		
	LZ	23 43		
	F	23 48		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	August 6, 1947	to	August 7, 1947	No. 50

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
322 Aug. 7	H	0 40.5	2,760	Rarefaction USCGS gives:- $\varphi = 19°8$ N. $\lambda = 75°8$ W.
	P	0 45 50		
	PPP	0 46 33		
	S	0 50 16		
	SS	0 51 24		
	L	0 52 48		
	F	3 09		
		Victoria		
	H	0 40.5	5,240	
	P	0 49 02		
	PP	0 50 55		
	S	0 56 00		
	SS	0 59.0		
	L	1 04		
	F	2 52		
		Saskatoon		
	H	0 40.6	4,330	
	P	0 48 06		
	PP	0 49 40		
	S	0 54 14		
	SS	0 56.3		
	L	0 59		
	F	2 35		
		Halifax		
	H	0 40.1	3,060	
	P	0 45 59		
	PPP	0 47 07		
	S	0 50 47		
	SS	0 51.9		
	L	0 54		
	F	2 11		
		Seven Falls		
	H	0 40.4	3,040	
	P	0 46 09		
	S	0 50 55		
	SS	0 52.0		
	L	0 56		
	F	3 02		
		Shawinigan Falls		
	H	0 40.1	3,090	
	P	0 46 01		
	PPP	0 47 26		
	S	0 50 51		
	L	0 55		
	F	1 32		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM	August 7, 1947	to	August 9, 1947	No. 51

NO, AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Dane		
322 Aug. 7 (cont'd)	H P S L F	0 40,3￼ 0 46 18￼ 0 51 14￼ 0 56￼ 2 01	3,190	
		Ottawa		
329 Aug. 7	H P S L F	22 16,8￼ 22 22 33￼ 22 27 18￼ 22 33￼ 22 51	3,020	
		Ottawa		
330 Aug. 8	H P_3 S_3 F	5 39.0￼ 5 40 04￼ 5 40 52￼ 5 42	445	
		Dane		
	H P_2 S_2 F	5 39.0￼ 5 39 39.5￼ 5 40 03￼ 5 40.5	205	
		Kirkland Lake		
	H P_2 S_2 F	5 39.0￼ 5 39 40.5￼ 5 40 04.3￼ 5 40.7	210	
		Ottawa		
331 Aug. 8	H Pz S L F	6 39.3￼ 6 44 54￼ 6 49.5￼ 6 52￼ 7 10	2,900	
		Ottawa		
337 Aug. 9	H PP SS L F	2 48.5￼ 2 58 32￼ 3 06 52￼ 3 11￼ 3 37	5,100	USCGS gives:– $\varphi = 1°$ N. $\lambda = 28°$ W.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	August 9, 1947	to	August 10, 1947	No. 52

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
337 Aug. 9 (cont'd)	e L F	3 06,5 3 12 4 00		
		Ottawa		
338 Aug. 9	H P S L F	3 55.4 4 00 54 4 05.4 4 11 4 26	2,810	
		Seven Falls		
	e L F	4 07.0 4 12 4 22		
		Ottawa		
339 Aug. 9	ez L F	5 52 26 6 45 7 09		
		Ottawa		
340 Aug. 10	H Pz iS iL F	2 46.6 2 48 30 2 50 00.5 2 50 36 2 55	860	USCGS gives:- $\varphi = 41°9$ N. $\lambda = 84°5$ W.
		Seven Falls		
	H P S SS L F	2 46.9 2 49 28 2 51 29 2 52 02 2 52.5 3 03	1,150	
		Shawinigan Falls		
	H P S L F	2 46.7 2 49 04 2 50 55 2 51.8 3 04	1,055	
		Dane		
	H P S L F	2 46.8 2 48 24 2 49 39 2 50.4 3 07	705	

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | August 10, 1947 | | to | August 17, 1947 | No. 53 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Kirkland Lake		
340 Aug. 10 (cont'd)	H P S L F	2 46.8 2 48 25 2 49 40 2 50.1 3 02	715	
		Ottawa		
346 Aug. 14	H P_1 S_1 F	2 18.5 2 18 48.5 2 18 59.5 2 22	90	Cornwall?
		Ottawa		
348 Aug. 15	ez e L F	4 23 03 4 33.0 4 53 5 20		
		Seven Falls		
	e e L F	4 22 42 4 32.3 4 43 5 29		
		Victoria		
349 Aug. 15	e L F	9 30.9 9 44 10 15		
		Seven Falls		
353 Aug. 16	e L F	18 58.9 19 07 19 18		
		Ottawa		
355 Aug. 16	H P_2 S_2 e F	20 32.6 20 33 03.5 20 33 21.5 20 33 30 20 34	150	
		Ottawa		
360 Aug. 17	H P_2 S_2 e F	20 21.5 20 21 58.5 20 22 16 20 22 24 20 22.6	150	

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM **August 17, 1947** to **August 20, 1947** No. **54**

N. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
361 Aug. 18	e$_Z$	6 18 50		
	e^Z	6 26.5		
	L	6 39		
	F	7 31		
		Saskatoon		
	e	6 21.4		
	L	6 37		
	F	7 11		
		Seven Falls		
	e	6 27.4		
	L	6 39		
	F	7 48		
		Ottawa		
363 Aug. 19	H	20 06.0	150	
	P$_2$	20 06 27.7		
	S$_2$	20 06 45.5		
	S$_1$	20 06 47.0		
	L	20 06 53		
	F	20 07.2		
		Ottawa		
364 Aug. 19	H	21 25.0	265	
	P$_3$	21 25 39.5		
	P$_2$	21 25 42		
	S$_3$	21 26 09.4		
	S$_2$	21 26 12.0		
	L	21 26 34		
	F	21 27		
		Ottawa		
365 Aug. 20	H	11 50.3	160	
	P$_2$	11 50 47		
	S$_2$	11 51 06		
	e	11 51 11		
	F	11 51.5		
		Ottawa		
366 Aug. 20	H	19 52.5	150	
	P$_2$	19 52 59		
	S$_2$	19 53 16.5		
	e	19 53 24		
	F	19 53.5		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	August 20, 1947	to	August 25, 1947	No. 55

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
368 Aug. 22	eZ	.2 51 06		
	e	3 07		
	L	3 31		
	F	4 11		
		Victoria		
	e	2 54 36		
	L	3 07		
	F	3 48		
		Seven Falls		
	e	3 02.6		
	L	3 32		
	F	4 14		
		Ottawa		
383 Aug. 24	H	11 31.5	12,900	
	PP	11 50 12		
	PS	12 00 46		
	PPS	12 01 10		
	SS	12 07.2		
	SSS	12 19		
	L	12 29		
	F	13 01		
		Victoria		
	eE	12 00 27		
	L	12 25		
	F	12 51		
		Saskatoon		
	e	12 00 13		
	L	12 26		
	F	12 52		
		Seven Falls		
	e	12 01.5		
	L	12 19		
	F	13 06		
		Saskatoon		
387 Aug. 25	e	5 44 52		
	L	5 46		
	F	5 53		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM August 25, 1947 to August 27, 1947 No.56

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
390 Aug. 27	H	13 37.6	14,200	USCGS gives:–
	P'	13 55 45		$\varphi = 42°$ S.
	PP	13 58 48		$\lambda = 179°$ E.
	PPP	14 01.3		
	S	14 06.1		
	SS	14 15 46		
	SSS	14 19.8		
	L	14 39		
	F	16 25		
		Victoria		
	H	13 37.6	11,800	
	P	13 51 54		
	PP	13 56 00		
	SKS	14 02 17		
	PS	14 05 10		
	L	14 23		
	F	16 19		
		Saskatoon		
	H	13 38 ca	12,000	
	PP	13 56 58		
	S	14 04 39		
	PPS	14 06.8		
	SS	14 12		
	L	14 28		
	F	16 00		
		Halifax		
	e	14 00.7		
	L	14 34		
	F	15 11		
		Seven Falls		
	H	13 37.6	14,800	
	P'	13 56 52		
	PP	13 59 14		
	PPP	14 01 14		
	SS	14 17.3		
	L	14 44		
	F	16 50		
		Ottawa		
394 Aug. 27	H	20 03.1	150	
	P_2	20 03 36		
	S_2	20 03 54		
	S_1	20 03 57		
	e	20 04 03		
	F	20 04.3		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	August 27, 1947		to	August 28, 1947	No. 57

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
398 Aug. 28	H	6 50.6	8,100	Compression
	P	7 02 04		USCGS gives:-
	PP	7 04 34		$\varphi = 49°$ N.
	S	7 11 36		$\lambda = 155°$ E.
	SS	7 14.8		
	SSS	7 16.5		
	L	7 27		
	F	8 32		
		Victoria		
	H	6 50.6	5,500	
	P	6 59 23		
	PPP	7 01 47		
	S	7 06 36		
	SS	7 09 17		
	L	7 15		
	F	8 16		
		Saskatoon		
	H	6 50.4	6,290	
	P	7 00 05		
	S	7 08 02		
	SS	7 11.9		
	L	7 18		
	F	8 14		
		Halifax		
	H	6 50.5	8,780	
	P	7 02 30		
	S	7 12 32		
	L	7 32		
	F	7 58		
		Seven Falls		
	H	6 50.4	8,220	
	P	7 02 05		
	S	7 11 42		
	SS	7 16.7		
	L	7 23		
	F	9 00		
		Shawinigan Falls		
	H	6 50.5	8,200	
	P	7 02 03		
	S	7 11 41		
	PS	7 12 04		
	F	7 18		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	August 28, 1947	to	August 28, 1947	No. 58

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
402 Aug. 28	H	14 29.7	7,770	Compression USCGS gives:- $\varphi = 52°$ N. $\lambda = 159°$ E.
	P	14 40 49		
	PP	14 43 28		
	S	14 50 03		
	PS	14 50 24		
	SS	14 54.3		
	SSS	14 58		
	L	15 02		
	F	16 11		
		Victoria		
	H	14 29.9	4,940	
	P	14 38 06		
	PPP	14 40 10		
	S	14 44 47		
	SSS	14 48 00		
	L	14 53		
	F	15 29		
		Saskatoon		
	H	14 29.5	5,880	
	P	14 38 43		
	S	14 46 17		
	L	15 01		
	F	16 06		
		Seven Falls		
	H	14 29.5	7,920	
	P	14 40 48		
	PPP	14 45 20		
	S	14 50 09		
	SSS	14 58.5		
	L	15 03		
	F	16 18		
		Ottawa		
407 Aug. 28	H	19 48.2	8,150	
	P	19 59 43		
	S	20 09 17		
	PS	20 09 40		
	SS	20 17.2		
	L	20 20		
	F	20 42		
		Ottawa		
409 Aug. 28	H	22 12.4	150	
	P_2	22 12 49.5		
	P_1	22 12 51		
	S_2	22 13 07.3		
	e	22 13 15		
	F	22 13.5		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM	August 28, 1947	to	August 31, 1947	No. 59

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
422 Aug. 30	H	20 27.9	165	
	P_2	20 28 25		
	P_1	20 28 26.3		
	S_2	20 28 44.5		
	S_1	20 28 46		
	e	20 28 51.5		
	F	20 29		
		Ottawa		
423 Aug. 30	H	22 21.8	7,900	
	P	22 32 59		
	S	22 42 19		
	PS	22 43.1		
	SS	22 47.5		
	L	22 55		
	F	23 58		
		Victoria		
	e	22 45 24		
	L	23 03		
	F	23 33		
		Saskatoon		
	H	22 21.7	9,100	
	P	22 33 59		
	S	22 44 14		
	L	23 04		
	F	23 56		
		Seven Falls		
	H	22 21.8	7,400	
	P	22 32 34		
	S	22 41 31		
	SS	22 48.5		
	L	22 59		
	F	23 57		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE
August, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
302	1	1 01+0 23u	1 13+0 07L			1 10+0 20u		1 02+0 03P	
303	1	5 23+0 31L	4 47+0 58L			5 01+1 01L			
304	1	13 57+0 09L	13 51+0 14L			14 00+0 08L		14 44+0 04L	
305	1	14 43+0 28L	14 35+0 55r	14 38+0 17L	14 49+0 08L	14 46+0 35L			
306	2	19 57+0 0.3P*							A
307	2	19 57+0 0.7v*							B
308	4	8 26+0 01d*							
309	4		7 58+0 07L			18 41+0 22L			
310	5	7 57+0 21r	7 58+0 07L			8 10+0 08L			C
311	5	14 38+3 45U	14 39+2 39U	14 43+2 57U	14 42+2 24U	14 38+4 18U	14 38+2 00U	14 38+1 45U	D
312	5	16 58+0 0.7P*							E
313	5	21 57+0 0.7v*							
314	6	5 56+0 32u	5 58+0 39u	6 02+0 28r		6 03+0 44u	5 56+0 15u	5 56+0 20u	
315	6	6 34+0 01P*	10 31+0 16L						
316	6	9 57+0 01P*				10 16+0 41L			
317	6	20 12+0 01P*	20 32+0 11L						
318	6	20 16+0 19r				20 17+0 46r			
319	6	20 40+0 01P*							
320	6	20 34+0 01P*							
321	6	23 35+0 10r				23 44+0 05L			
322	7	23 46+2 23R	0 49+2 03U	0 48+1 47R	0 46+1 25R	0 46+2 16R	0 46+1 04R	0 46+0 46R	F
323	7	2 39+0 0.7P*				12 59+0 15L			
324	7								
325	7								
326	7	19 27+0 01P*							
327	7	19 33+0 0.1P*						16 41+0 0.5d	
328	7	22 11+0 0.2P*							
329	7	22 23+0 28r				22 29+0 20L			G
330	8	5 40+0 02v*							H
331	8	6 45+0 25r		7 00+0 11L		6 51+0 40L			J

EARTHQUAKE CORRELATION TABLE

August, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
332	8	17 23+0 0.6P*							
333	8	19 03+0 0.3P*							
334	8	2 03+0 0.4P*							
335	8	20 19+0 01P*						20 20+0 01P	K
336	8	21 04+0 0.3P*							L
337	9	2 59+0 38u	2 31+0 28L			21 30+0 28L			
338	9	4 01+0 25r				3 06+0 54u			
339	9	5 52+1 17u				4 07+0 15r			
340	9	2 48+0 07V				6 57+0 15L	2 49+0 14R	2 49+0 15R	M
341	10			2 56+0 03L		2 53+0 02L	14 62+0 0.5P		
342	11	5 53+0 0.3P*							
343	12	21 54+0 02P*							
344	12	22 08+0 0.3P*							
345	12	10 41+0 02P*							
346	13	2 19+0 03d*							
347	14	9 58+0 04P*	9 31+0 44u			10 03+0 49L			
348	14	4 23+0 57u	4 57+0 15L	4 57+0 12L		4 32+0 57u	4 23+0 01P		N
349	14								
350	15	22 22+0 01P*							
351	15	15 58+0 0.4P*							
352	15	18 05+0 0.1P*	19 07+0 10L			18 59+0 19u			
353	16	18 51+0 03P*							
354	16	19 30+0 13P*							
355	16	20 33+0 01V*							
356	16	21 36+0 0.6v*				4 20+0 04L			O
357	16					9 57+0 30L			
358	17	10 03+0 18L		10 00+0 16L					
359	17	15 15+0 02P*							P
360	17	20 22+0 0.6v*							
361	18	6 19+1 12u	6 34+0 15L	6 21+0 50u		6 27+1 21u			

EARTHQUAKE CORRELATION TABLE
August, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
362	19		1 49+0 .10L						
363	19	20 06+0 0.8v*							Q
364	19	21 26+0 01v*							R
365	20	11 51+0 0.7v*							S
366	20	19 53+0 0.5v*							E
367	21	21 05+0 0.6P*							T
368	22	2 51+1 20u	2 55+0 53u	3 12+0 26L		3 03+1 11u			
369	22	19 35+0 0.5P*							
370	22	21 36+0 0.7P*							
371	23	0 54+0 0.4P*							
372	23	5 30+0 35L		5 32+0 16L		5 19+0 45L			
373	24	4 33+0 01P*							
374	24	9 26+0 05P*						9 26+0 04P	
375	24	9 31+0 08P*						9 32+0 04P	
376	24	9 48+0 03P*							
377	24	9 51+0 03P*							
378	24	10 00+0 03P*							
379	24	10 50+0 01P*							
380	24	10 54+0 02P*							
381	24	11 34+0 0.7P*							
382	24	11 44+0 02P*							
383	24	11 50+1 11u	12 00+0 51u	12 00+0 52u		12 02+1 04u		11 51+0 02P	
384	24	15 11+0 01P*							
385	24	18 47+0 0.5P*							
386	25	2 06+0 01P*							
387	25	5 54+0 11L	5 43+0 09L	5 45+0 08r		5 55+0 07L	5 55+0 05L	5 55+0 03L	
388	26	3 57+0 0.7P*							
389	26	5 02+0 0.4P*							
390	27	13 57+2 28U	13 52+2 27U	13 57+2 03U	14 01+1 10U	13 57+2 53U	13 57+1 15U		U
391	27	16 40+0 07P*							V

EARTHQUAKE CORRELATION TABLE
August, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
392	27	18 02+0 0.5P*							
393	27	19 55+0 0.6P*							
394	27	20 04+0 0.7v*							W
395	27	21 37+0 0.5P*							
396	28	4 36+0 01P*							
397	28	6 25+0 01P*							
398	28	7 02+1 30U	6 59+1 16U	7 00+1 14U	7 02+0 56U	7 02+1 58U	7 02+0 40U	7 02+0 16u	X
399	28	9 08+0 0.5P*							
400	28	10 08+0 0.7P*							
401	28	14 03+0 0.2P*							
402	28	14 41+1 30U	14 38+0 51R	14 39+1 27U		14 41+1 37U	14 41+0 37U	14 41+0 13P	Y
403	28	14 47+0 04P*							
404	28	14 53+0 04P*							
405	28	14 08+0 01P*							
406	28	17 06+0 0.3P							
407	28	18 00+0 42u							
408	28	20 48+0 0.5P*				20 09+0 51u		20 00+0 08P	Z
409	28	20 13+0 0.7v*							AA
410	28	22 29+0 0.5P*							
411	29	6 41+0 01P*							
412	29	12 30+0 0.3P*							
413	29	16 17+0 @.5P*							
414	29	16 40+0 02P*						16 40+0 02P	
415	29	16 52+0 17L				16 52+0 18L	16 52+0 04L	16 54+0 03L	
416	29	16 41+0 0.3P*							
417	29	18 02+0 0.8P*							
418	30	20 46+0 0.5P*							
419	30	4 53+0 0.8P*							
420	30	7 16+0 0.4P*							
421	30	9 14+0 0.9P*							

EARTHQUAKE CORRELATION TABLE

August, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
422	30	20 28+0 0.6v*							BB
423	30	22 33+1 25u	22 45+0 48u	22 34+1 22u		22 33+1 24u	22 33+0 35u	22 33+0 06P	CC
424	30	23 01+0 0.8P*							
425	30	23 09+0 01P*							
426	31	1 52+0 0.7P*							
427	31	2 40+0 0.5P*							
428	31	6 28+0 01P*							
429	31	7 26+0 0.9P*							
430	31	18 18+0 0.5P*							

CORRELATION OF EARTHQUAKES

August, 1947

NOTES

A	:	Ottawa	$\Delta =$	150 km.	$H = 19^h56^m.9$ U.T.
B	:	Ottawa	$\Delta =$	90 km.	$H = 8^h25^m.7$ U.T.
C	:	Ottawa	$\Delta =$	11,100 km.	$H = 14^h24^m.3$ U.T.
		Victoria	$\Delta =$	11,100 km.	$H = 14\ 24.1$ U.T.
		Saskatoon	$\Delta =$	11,500 km.	$H = 14\ 24.3$ U.T.
		Halifax	$\Delta =$	10,600 km.	$H = 14\ 24.4$ U.T.
		Seven Falls	$\Delta =$	10,900 km.	$H = 14\ 24.3$ U.T.
		Shawinigan Falls	$\Delta =$	10,900 km.	$H = 14\ 24.4$ U.T.
		Dane	$\Delta =$	10,900 km.	$H = 14\ 24.4$ U.T.
		Kirkland Lake	$\Delta =$	10,900 km.	$H = 14\ 24.4$ U.T.
D	:	Ottawa	$\Delta =$	150 km.	$H = 21^h56^m.5$ U.T.
E	:	Ottawa	$\Delta =$	5,110 km.	$H = 5^h47^m.2$ U.T.
		Victoria	$\Delta =$	7,120 km.	$H = 5\ 47.2$ U.T.
		Saskatoon	$\Delta =$	4,780 km.	$H = 5\ 47.0$ U.T.
		Seven Falls	$\Delta =$	5,350 km.	$H = 5\ 47.0$ U.T.
		Shawinigan Falls	$\Delta =$	5,220 km.	$H = 5\ 47.2$ U.T.
		Dane	$\Delta =$	5,400 km.	$H = 5\ 47.2$ U.T.
		Kirkland Lake	$\Delta =$	5,450 km.	$H = 5\ 47.1$ U.T.
F	:	Ottawa	$\Delta =$	2,760 km.	$H = 0^h40^m.5$ U.T.
		Victoria	$\Delta =$	5,240 km.	$H = 0\ 40.5$ U.T.
		Saskatoon	$\Delta =$	4,330 km.	$H = 0\ 40.6$ U.T.
		Halifax	$\Delta =$	3,060 km.	$H = 0\ 40.1$ U.T.
		Seven Falls	$\Delta =$	3,040 km.	$H = 0\ 40.4$ U.T.
		Shawinigan Falls	$\Delta =$	3,090 km.	$H = 0\ 40.1$ U.T.
		Dane	$\Delta =$	3,190 km.	$H = 0\ 40.3$ U.T.
G	:	Ottawa	$\Delta =$	3,020 km.	$H = 22^h16^m.8$ U.T.
H	:	Ottawa	$\Delta =$	445 km.	$H = 5^h39^m.0$ U.T.
		Dane	$\Delta =$	205 km.	$H = 5\ 39.0$ U.T.
		Kirkland Lake	$\Delta =$	210 km.	$H = 5\ 39.0$ U.T.
J	:	Ottawa	$\Delta =$	2,900 km.	$H = 6^h39^m.3$ U.T.
K	:	Ottawa	$\Delta =$	5,100 km.	$H = 2^h48^m.5$ U.T.
L	:	Ottawa	$\Delta =$	2,810 km.	$H = 3^h55^m.4$ U.T.
M	:	Ottawa	$\Delta =$	860 km.	$H = 2^h46^m.6$ U.T.
		Seven Falls	$\Delta =$	1,150 km.	$H = 2\ 46.9$ U.T.
		Shawinigan Falls	$\Delta =$	1,055 km.	$H = 2\ 46.7$ U.T.
		Dane	$\Delta =$	705 km.	$H = 2\ 46.8$ U.T.
		Kirkland Lake	$\Delta =$	715 km.	$H = 2\ 46.8$ U.T.
N	:	Ottawa	$\Delta =$	90 km.	$H = 2^h18^m.5$ U.T.
O	:	Ottawa	$\Delta =$	150 km.	$H = 20^h32^m.6$ U.T.
P	:	Ottawa	$\Delta =$	150 km.	$H = 20^h21^m.5$ U.T.
Q	:	Ottawa	$\Delta =$	150 km.	$H = 20^h06^m.0$ U.T.
R	:	Ottawa	$\Delta =$	265 km.	$H = 21^h25^m.0$ U.T.
S	:	Ottawa	$\Delta =$	160 km.	$H = 11^h50^m.3$ U.T.
T	:	Ottawa	$\Delta =$	150 km.	$H = 19^h52^m.5$ U.T.

CORRELATION OF EARTHQUAKES

August, 1947

N O T E S

U :	Ottawa	Δ = 12,900 km.		H = $11^h 31^m.5$ U.T.
V :	Ottawa	Δ = 14,200 km.		H = $13^h 37^m.6$ U.T.
	Victoria	Δ = 11,800 km.		H = 13 37.6 U.T.
	Saskatoon	Δ = 12,000 km.		H = 13 38 U.T.
	Seven Falls	Δ = 14,800 km.		H = 13 37.6 U.T.
W :	Ottawa	Δ = 150 km.		H = $20^h 03^m.1$ U.T.
X :	Ottawa	Δ = 8,100 km.		H = $6^h 50^m.6$ U.T.
	Victoria	Δ = 5,500 km.		H = 6 50.6 U.T.
	Saskatoon	Δ = 6,290 km.		H = 6 50.4 U.T.
	Halifax	Δ = 8,780 km.		H = 6 50.5 U.T.
	Seven Falls	Δ = 8,220 km.		H = 6 50.4 U.T.
	Shawinigan Falls	Δ = 8,200 km.		H = 6 50.5 U.T.
Y :	Ottawa	Δ = 7,770 km.		H = $14^h 29^m.7$ U.T.
	Victoria	Δ = 4,940 km.		H = 14 29.9 U.T.
	Saskatoon	Δ = 5,880 km.		H = 14 29.5 U.T.
	Seven Falls	Δ = 7,920 km.		H. = 14 29.5 U.T.
Z :	Ottawa	Δ = 8,150 km.		H = $19^h 48^m.2$ U.T.
AA :	Ottawa	Δ = 150 km.		H = $22^h 12^m.4$ U.T.
BB :	Ottawa	Δ = 165 km.		H = $20^h 27^m.9$ U.T.
CC :	Ottawa	Δ = 7,900 km.		H = $22^h 21^m.8$ U.T.
	Saskatoon	Δ = 9,100 km.		H = 22 21.7 U.T.
	Seven Falls	Δ = 7,400 km.		H = 22 21.8 U.T.

Dominion Observatory,

OTTAWA, CANADA.

November 7, 1947.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, CANADA

FROM	September 1, 1947		to	September 4, 1947	No. 60

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
431 Sept. 1	H P$_2$ S$_2$ S$_1$ F	13 32.2 13 32 55.5 13 33 22 13 33 26.5 13 34	225	
		Ottawa		
433 Sept. 2	ez L F	14 50 42 14 57 15 24		USCGS gives:- φ = 20° S. λ = 179° W.
		Victoria		
	e L F	14 54 32 15 06 15 20		
		Ottawa		
434 Sept. 2	H P$_2$ S$_2$ F	16 47.0 16 47 25 16 47 42 16 48.5	145	
		Ottawa		
437 Sept. 3	ez eE L F	19 15 12 19 26.8 19 33 21 16		USCGS gives:- φ = 11° S. λ = 162° E.
		Victoria		
	e L F	19 19 38 19 33 20 06		
		Seven Falls		
	e e L F	19 23 19 19 33.7 19 53 21 27		
		Ottawa		
438 Sept. 4	e L F	0 55.3 1 18 2 06		USCGS gives:- φ = 15° S. λ = 174° W.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   September 4, 1947   to   September 6, 1947   No. 61

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
438 Sept. 4 (cont'd)	e	0 55 23		
	i	.0 58 43		
	L	1 20		
	F	2 31		
		Ottawa		
444 Sept. 5	iz	5 48 31		
	L	5 54.5		
	F	6 08		
		Seven Falls		
445 Sept. 5	e	6 30 47		
	L	6 34		
	F	6 37		
		Ottawa		
447 Sept. 5	H	20 52.2	200	
	P_2	20 52 47		
	P_1	20 52 48		
	S_2	20 53 10.5		
	F	20 53.6		
		Ottawa		
448 Sept. 5	H	21 31.0	160	
	P_2	21 31 29		
	S_2	21 31 48		
	F	21 32.1		
		Ottawa		
450 Sept. 6	H	17 59.0	145	
	P_2	17 59 24.5		
	S_2	17 59 41.5		
	F	18 00.5		
		Ottawa		
451 Sept. 6	H	21 35.1	100	Cornwall?
	P_1	21 35 24.5		
	S_1	21 35 36		
	F	21 36.1		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM   September 6, 1947   to   September 17, 1947   No. 62

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
459 Sept. 11	e$_z$ L^z F	19 52 40 20 10 20 33		
		Ottawa		
460 Sept. 12	e$_z$ L^z F	11 50 43 11 56 12 23		
		Seven Falls		
	e L F	11 53.2 12 05 12 20		
		Ottawa		
464 Sept. 14	H P$_3$ P$_2$ S$_3$ S$_2$ F	19 29.5 19 30 54.5 19 31 05.5 19 31 49 19 32 06.5 19 34.6	540	
		Ottawa		
467 Sept. 15	H P S SSS L F	14 56.6 15 03 58 15 10.0 15 13.2 15 15 15 29	4240	
		Ottawa		
469 Sept. 16	H P$_2$ S$_2$ F	20 45.9 20 46 18 20 46 35.5 20 47.2	150	
		Ottawa		
471 Sept. 17	H P$_2$ S$_2$ F	18 55.7 18 56 11 18 56 30 18 57.2	165	

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM September 17, 1947 to September 23, 1947 No. 63

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
472 Sept. 18	H	20 33.8	150	
	P2	20 34 13		
	S2	20 34 30.5		
	F	20 35.2		
		Ottawa		
478 Sept. 22	H	19 15.8	150	
	P2	19 16 15		
	S2	19 16 32.5		
	F	19 17.2		
		Ottawa		
479 Sept. 23	ez	7 51 05		USCGS gives:—
	L	8 08		$\varphi = 54°$ N.
	F	8 26		$\lambda = 164°$ W.
		Ottawa		
480 Sept. 23	H	12 28.8	9430	
	Pz	12 41 20		
	S	12 51 50		
	SS	12 57.4		
	L	13 08		
	F	14 12+		
		Victoria		
	e	12 55		
	e	13 09		
	L	13 12		
	F	13 57+		
		Saskatoon		
	H	12 29.1	10000	
	SKS	12 52.2		
	SKKS	12 52 52		
	SS	12 58 52		
	L	13 10		
	F	13 57+		
		Halifax		
	e	12 51 28		
	L	13 14		
	F	14 06		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	September 23, 1947	to	September 26, 1947	No. 64

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
480 Sept. 23 (cont'd)	H	12 28.7	9340	
	PP	12 44.4		
	S	12 51 36		
	PS	12 52 26		
	SS	12 57 22		
	SSS	13 03		
	L	13 11		
	F	16 30		
		Ottawa		
482 Sept. 23	iz	14 00 07		USCGS gives:-
	L	14 12		$\varphi = 41°$ N.
	F	15 17		$\lambda = 125°$ W.
		Saskatoon		
	H	13 52.8		
	P	13 57 06		
	S	14 00 36		
	L	14 02.5		
	F	14 48+		
		Ottawa		
485 Sept. 25	ez	23 50 16		
	eN	23 53.6		
	L	0 31		
	F	1 21		
		Victoria		
	e	23 54		
	L	0 03		
	F	1 16		
		Saskatoon		
	e	23 57.6		
	e	0 05.5		
	L	0 20		
	F	1 10		
		Seven Falls		
	e	0 10		
	L	0 23		
	F	0 46		
		Ottawa		
486 Sept. 26	ez	3 17 42		
	L	3 50		
	F	4 09		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | September 26, 1947 | to | September 26, 1947 | No. 65 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
487 Sept. 26	H	16 01.7	12200	USCGS gives:–
	Pz	16 16 13		φ = 26° N.
	PP	16 20 40		λ = 126° E.
	SKS	16 26 40		d = 200 km.
	PS	16 30 08		
	SS	16 35.8		
	L	16 53		
	F	18 12		
		Victoria		
	H	16 02.3	9030	
	P	16 14.5		
	PP	16 17.8		
	S	16 24.7		
	SS	16 30.4		
	L	16 42		
	F	17 50		
		Saskatoon		
	H	16 02.5	9220	
	P	17 14 58		
	S	16 25 19		
	PS	16 25 49		
	L	16 41		
	F	18 hrs. ca.		
		Halifax		
	e	16 37		
	L	16 53		
	F	17 21		
		Seven Falls		
	H	16 02.4	11300	
	P	16 16.3		
	PP	16 20 30		
	e	16 24 56		
	SKKS	16 27 33		
	S	16 27 58		
	PPS	16 29 58		
	SSS	16 39.4		
	L	16 48		
	F	18 36		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

| FROM | September 26, 1947 | to | September 30, 1947 | No. 66 |

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
487 Sept. 26 (cont'd)	H	16 01.6	12100	
	P	16 15 54		
	e	16 25.1		
	SKS	16 26 35		
	PS	16 29 43		
	SS	16 41.4		
	F	17 01		
		Temiskaming		
	H	16 02.3	12900	
	P	16 17 21		
	P'	16 20 31		
	SKS	16 27 42		
	SKKS	16 28 38		
		Kirkland Lake		
	H	16 01.1	12550	
	P	16 15 56		
	PP	16 20 12		
	S	16 28.3		
	F	16 40		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

September, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
431	1	13 33+0 01v*							A
432	1	22 29+0 02P*							
433	2	14 51+0 33u	14 55+0 25u			14 59+0 58L		15 39+0 15P	B
434	2	16 47+0 01v*							
435	3	15 39+0 07P*							
436	3	17 59+0 01P*				19 23+2 04u			
437	3	19 15+2 01u	19 20+0 46u			0 55+1 26u			
438	4	0 55+1 11u			20 00+0 20L				
439	4	9 28+0 0.9P*							
440	4	11 28+0 0.6P*				15 12+0 23L			
441	4								C
442	5	20 12+0 0.4P*							D
443	5	21 54+0 0.5P*				6 31+0 06r			
444	5	5 49+0 19u							E
445	5	28+0 08L							F
446	5	20 16+0 0.7P*							
447	5	20 53+0 0.8v*							
448	5	21 31+0 0.6v*							
449	6	5 31+0 01P*							
450	6	17 59+0 01v*							
451	6	21 35+0 0.7d*							
452	7	6 15+0 03P*							
453	7	10 24+0 01P*							
454	7	21 38+0 0.2P*							
455	9					22 59+0 04L			
456	9			0 42+0 13L		23 25+0 14L			
457	10					0 41+0 28L			
458	11	17 08+0 01P*							
459	11	19 53+0 40u				20 14+0 25L			
460	11	11 51+0 32u				11 53+0 27u			
461	12	8 44+0 01P*							

EARTHQUAKE CORRELATION TABLE

September, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
462	13	15 22+0 01P*							
463	14	17 55+0 01P*							
464	14	19 31+0 03v*							
465	15		12 44+0 17L	12 43+0 20L		10 26+0 07L		19 33+0 01v	G
466	15	12 50+0 22L							
467	15	15 04+0 25r							
468	15	18 50+0 01P*							H
469	16	20 46+0 01v*							J
470	17	17 58+0 01P*							
471	17	18 56+0 01v*							K
472	18	20 34+0 01v*						10 34+0 03P	L
473	19	10 35+0 03P*							
474	19	17 04+0 0.4P*							
475	19	23 02+0 01P*							
476	20	23 56+0 24L							
477	22	2 35+0 07L	2 19+0 12L			23 55+0 20L			M
478	22	19 16+0 01v*				2 38+0 05L			
479	23	7 51+0 35u	7 57+0 16L	7 59+0 20L		8 11+0 20L			N
480	23	12 41+1 31u	12 55+1 02u	12 52+1 05u	12 51+1 15u	12 44+3 46u			
481	23	12 46+0 02P*							
482	23	14 00+1 17r	13 57+1 03L	13 57+0 51r	14 17+0 08L				O
483	24	21 38+0 0.4P*						14 10+0 06L	
484	25	1 02+0 01P*							
485	25	23 50+1 31u	23 54+1 22u	23 58+1 12u		0 10+0 36u			
486	26	3 18+0 51u	3 54+0 22L	3 54+0 22L		3 48+0 38L			
487	26	16 16+1 56u	16 14+1 36u	16 15+1 45u	16 37+0 44u	16 20+2 16u	16 16+0 54u	16 16+0 45u	P
488	27	20 20+0 05P*						22 20+0 02P	
489	28	17 33+0 01P*							
490	28	20 54+0 0.2P*							
491	28	21 24+0 0.1P*							
492	29	5 53+0 0.6P*							

CORRELATION OF EARTHQUAKES

September, 1947

NOTES

A :	Ottawa	$\Delta =$ 225 km.	H = $13^h 32^m.2$ U.T.
B :	Ottawa	$\Delta =$ 145 km.	H = $16^h 47^m.0$ U.T.
C :	Ottawa	$\Delta =$ 200 km.	H = $20^h 52^m.2$ U.T.
D :	Ottawa	$\Delta =$ 160 km.	H = $21^h 31^m.0$ U.T.
E :	Ottawa	$\Delta =$ 145 km.	H = $17^h 59^m.0$ U.T.
F :	Ottawa	$\Delta =$ 100 km.	H = $21^h 35^m.1$ U.T.
G :	Ottawa	$\Delta =$ 540 km.	H = $19^h 29^m.5$ U.T.
H ::	Ottawa	$\Delta =$ 4,240 km.	H = $14^h 56^m.6$ U.T.
J :	Ottawa	$\Delta =$ 150 km.	H = $20^h 45^m.9$ U.T.
K :	Ottawa	$\Delta =$ 165 km.	H = $18^h 55^m.7$ U.T.
L :	Ottawa	$\Delta =$ 150 km.	H = $20^h 33^m.8$ U.T.
M :	Ottawa	$\Delta =$ 150 km.	H = $19^h 15^m.8$ U.T.
N :	Ottawa	$\Delta =$ 9,430 km.	H = $12^h 28^m.8$ U.T.
	Saskatoon	$\Delta =$ 10,000 km.	H = 12 29.1 U.T.
	Seven Falls	$\Delta =$ 9,340 km.	H = 12 28.7 U.T.
O :	Saskatoon	$\Delta =$ 2,060 km.	H = $13^h 52^m.8$ U.T.
P :	Ottawa	$\Delta =$ 12,200 km.	H = $16^h 01^m.7$ U.T.
	Victoria	$\Delta =$ 9,030 km.	H = 16 02.3 U.T.
	Saskatoon	$\Delta =$ 9,220 km.	H = 16 02.5 U.T.
	Seven Falls	$\Delta =$ 11,300 km.	H = 16 02.4 U.T.
	Shawinigan Falls	$\Delta =$ 12,100 km.	H = 16 01.6 U.T.
	Temiskaming	$\Delta =$ 12,900 km.	H = 16 02.3 U.T.
	Kirkland Lake	$\Delta =$ 12,550 km.	H = 16 01.1 U.T.

Dominion Observatory,

OTTAWA, CANADA.

November 26, 1947.

SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED

August, 1947

Station	Bulletin	Received
Brisbane	May, 1947	August 6
La Paz	Year, 1946	" 6
Cartuja	January – March, 1944	" 9
De Bilt	June, 1947	" 13
Almeria	September, 1946	" 13
Ksara	June, 1947	" 13
Moscow	April – June, 1947	" 14
Russian Stations	May, 1947	" 14
Belgrade	Preliminary – June, 1947	" 19
Bureau Central	April, June, 1947	" 21
Strasbourg	July, 1947	" 21
Wellington	May, 1947	" 22
Mexico	January – June, 1945	" 22
Istanbul	Year 1940	" 22
Pasadena	Preliminaries – July 7, August 12, 1947	" 28
Riverview	Year 1945	" 29

September, 1947

Station	Bulletin	Received
UCCLE	July, 1947	September 2
De Bilt	July, 1947	" 2
Almeria	October – December, 1946	" 3
Rome	June, July, 1947	" 4
Helsinki	April, May, 1947	" 5
Tiflis	Year 1938, January – September, 1939	" 8
Pasadena	April – June, 1947	" 8
De Bilt	1937 – 1941	" 8
Upsala	July,1939–June,1940; July,1941–June,1942	" 8
Wellington	1944	" 15
Moscow	July, 1947	" 18
Strasbourg	July 21 – 31, 1947	" 18
Bureau Central	May, 1947; Supplements for March and April	" 18
Belgrade	July, 1947	" 20
Santa Clara	July, 1947; August, 1947	" 20
Brisbane	June, 1947	" 23
Zurich	June, 1947	" 23
Brisbane	July, 1947	" 24
St. Louis and Auxiliary Stations	Preliminaries – January 26, 29, February 16, 24, March 2, 17, 25, April 2; Supplement for January, 1947	" 24
St. Louis and Auxiliary Stations	Preliminaries – December 20, 21, 28, 1946, January 3, 15, 21, 23, 25, April 10, 14, 24, May 2, 6, June 12, 13, 19, May 8, 17, 27, June 5, 7, 19, July 10, 12, 13, 25, 1947; Supplement for November, December, 1946	" 27
Weston	June, July, 1947	" 27
De Bilt	August, 1947	" 30
Ksara	July, 1947	" 30
Wellington	June, 1947	" 30
USCGS	July, August, September,1944	" 30

DOMINION OBSERVATORY
OTTAWA – CANADA.

DEPARTMENT OF MINES AND RESOURCES

MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

October and November

1947

OOOO

DOMINION OBSERVATORY

OTTAWA — CANADA

OOOOOOO

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

C. S. Beals, Dominion Astronomer

Ernest A. Hodgson, Chief, Seismological Division

W. W. Doxsee, Seismologist in charge

W. G. Milne, 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.

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

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.

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 and NW components, designated 18 and 22, respectively, each with photographic registration, magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

DETERMINED CONSTANTS

INSTRUMENT	To	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.	
RS (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	2500			
20 (Victoria)	12.0	300	20:1		
21 (Victoria)	12.0	300	20:1		
SF (Seven Falls)	1.0	2500			
SM (Seven Falls)	12.0	300	20:1	50 mm.	
18 (Saskatoon)	10.0	150	20:1	18 mm.	
22 (Saskatoon)	10.0	150	20:1	18 mm.	

NOTE:-   Universal Time used throughout.

EXPERIMENTAL FIELD STATIONS

The following stations are a semi-permanent installation. They are to be moved at irregular intervals of time on a line stretching from Kirkland Lake, Ontario to Ottawa. Outstanding earthquakes recorded on these instruments are included in the main body of this bulletin.

Instruments: Sprengnether electro-magnetic seismometers with galvanometric registration; period of seismometer and galvanometer both set at 1.9 sec.; magnetic damping in ratio 2.29:1; paper speed of 60 mm. per min.

KIRKLAND LAKE

Operating continuously.

$\varphi = 48°09'$ N. $\lambda = 80°03'$ W.   Z component.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

LANE

Operating during summer season.

$\varphi = 48°04'$ N. $\lambda = 80°01'$ W.   Z, NS, and EW
                                                    components.
Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield·

VILLE MARIE

Operating continuously.

$\varphi = 47°19'$ N. $\lambda = 79°27'$ W.   Z, NS, and EW
                                                    components.
Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

TEMISKAMING

Operating during winter season.

$\varphi = 46°40'$ N. $\lambda = 79°04'$ W.   Z, NS, and EW
                                                    components.
Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   October 1, 1947   to   October 3, 1947   No. 67

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km,	
		Ottawa		
505 Oct. 3	H	6 13.5	13600	
	PP	6 33 51		
	SKP	6 35 16		
	PS	6 43 50		
	L	7 04		
	F	7 28		
		Victoria		
	eE	6 33 07		
	i	6 40 35		
	L	7 11		
	F	7 33		
		Saskatoon		
	i	6 41 52		
	L	7 05		
	F	7 45		
		Seven Falls		
	H	6 13.3	14200	
	SKS	6 39 42		
	PS	6 44 38		
	PPS	6 45.9		
	SS	6 51.5		
	L	7 12		
	F	7 53		
		Ottawa		
507 Oct. 3	H	15 28.5	90	Cornwall?
	P_1	15 28 47.5		
	S_1	15 28 58		
	F	15 29.3		
		Ottawa		
508 Oct. 3	H	22 56.3	255	
	P_2	22 57 02		
	S_2	22 57 31		
	F	22 58.3		
		Ottawa		
509 Oct. 3	H	23 32.5	3470	USCGS gives:- $\varphi = 19°$ N. $\lambda = 102°$ W. Tacubaya gives:- $\varphi = 18° 33'$ N. $\lambda = 100° 33'$ W.
	P	23 38 53		
	PPP	23 40 12		
	S	23 44 07		
	SS	23 46.7		
	L	23 48		
	F	0 34		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   October 3, 1947   to   October 3, 1947   No. 68

NO, AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
509 Oct. 3 (cont'd)	H	23 32.3	3660	
	P	23 38 54		
	PP	23 39 54		
	S	23 44 20		
	L	23 47		
	F	0 31		
		Saskatoon		
	H	23 32.4	3480	
	P	23 38 50		
	PP	23 39 50		
	S	23 44 05		
	L	23 48		
	F	0 45		
		Halifax		
	e	23 49.5		
	L	23 54		
	F	0 08		
		Seven Falls		
	H	23 32.4	3950	
	P	23 39 25		
	PPP	23 40 55		
	S	23 45 09		
	SS	23 47 20		
	L	23 50		
	F	0 59		
		Shawinigan Falls		
	H	23 32.4	3820	
	P	23 39 16		
	PPP	23 40 39		
	S	23 44 52		
	L	23 48		
	F	0 07		
		Kirkland Lake		
	H	23 32.3	3630 .	
	P	23 38 52		
	PP	23 40 00		
	S	23 44 16		
	SS	23 46 46		
	F	0 18		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM October 3, 1947 to October 5, 1947 No. 69

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Temiskaming		
509 Oct. 3 (cont'd)	H	23 32.3	3545	
	P	23 38 47		
	PP	23 30 43		
	S	23 44 05		
	SS	23 46 21		
		Ottawa		
510 Oct. 4	eП	16 00.5		
	eE	16 07.1		
	e	16 22		
	L	16 37		
	F	17 22		
		Ottawa		
513 Oct. 5	H	18 40.8	14700	USCGS gives:- $\varphi = 3°$ S. $\lambda = 140°$ E.
	PፘZ	19 00 02		
	SKP	19 03 30		
	PPP	19 05.1		
	SKKS	19 09 10		
	PPS	19 14.3		
	SS	19 19.1		
	SSS	19 25.6		
	L	19 38		
	F	21 30		
		Victoria		
	e	19 06 13		
	eE	19 07 39		
	eN	19 11 19		
	L	19 25		
	F	29 29		
		Saskatoon		
	H	18 41.1	12100	
	SKS	19 06 10		
	PS	19 09 21		
	SS	19 15 40		
	L	19 30		
	F	21 40		
		Seven Falls		
	H	18 41.1	14500	
	PP	19 01 06		
	PPP	19 03 34		
	S	19 09.4		
	SS	19 18.9		
	L	19 39		
	F	21 53		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	October 5, 1947	to	October 6, 1947	No. 70

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		.Ottawa		
514 Oct. 5	H P_2 S_2 F	19 57.6 19 58 01 19 58 18 19 59	150	
		Ottawa		
516 Oct. 6	e_z L F	18 53 10 19 01 19 18		
		Ottawa		
517 Oct. 6	H P PP S SS SSS L F	19 55.7 20 06 44 20 09 20 20 15 52 20 20 50 20 23 16 20 28 23 23	7640	USCGS gives:- $\varphi = 37°$ N. $\lambda = 21°$ E.
		Victoria		
	H P S PS SS L F	19 56.0 20 08 28 20 18 56 20 19 39 20 25.5 20 33 22 44	9380	
		Saskatoon		
	H P S SS L F	19 55.7 20 07 52 20 18 00 20 25.8 20 34 22 02	8940	
		Halifax		
	H P S SSS L F	19 55.9 20 05 58 20 14 20 20 21.1 20 26 21 20	6720	

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
517 Oct. 6 (cont'd)	H	19 56.0	7000	
	P	20 06 24		
	S	20 15 01		
	SS	20 19.3		
	SSS	20 22.2		
	L	20 28		
	F	23 53		
		Shawinigan Falls		
	H	19 56.0	7240	
	P	20 06 35		
	S	20 15 25		
	SSS	20 22.6		
	L	20 30		
	F	21 00		
		Kirkland Lake		
	H	19 55.5	8000	
	P	20 06 51		
	PP	20 09 53		
	S	20 16 17		
	PS	20 16 52		
	F	20 42		
		Ottawa		
518 Oct. 6	H	21 51.1	150	
	P_2	21 51 34		
	S_2	21 51 51.5		
	F	21 52.3		
		Ottawa		
519 Oct. 7	H	1 53.5	4720	USCGS gives:—
	P	2 01 23		$\varphi = 64°5$ N.
	PP	2 03 00		$\lambda = 146°$ W.
	S	2 07 52		
	SS	2 11 00		
	L	2 14.3		
	F	3 06		
		Victoria		
	H	1 53.3	2290	
	P	1 57 58		
	S	2 01 47		
	L	2 03		
	F	2 55		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   October 7, 1947   to   October 7, 1947   No. 72

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
519 Oct. 7 (cont'd)	H	1 53.6	2600	
	P	1 58 46		
	S	2 03 00		
	L	2 06		
	F	3 00		
		Seven Falls		
	H	1 53.5	4780	
	P	2 01 30		
	S	2 08 02		
	SS	2 10 44		
	L	2 15		
	F	3 10		
		Shawinigan Falls		
	P	2 01 27		
	L	2 13		
	F	2 31		
		Temiskaming		
	H	1 53.4	4510	
	P	2 01 06		
	PP	2 02 20		
	S	2 07 24		
	SS	2 10 14		
	L	2 14		
	F	2 35		
		Ottawa		
520 Oct. 7	H	2 57.6	4720	
	Pz	3 05 29		
	SS	3 15 05		
	L	3 19		
	F	3 41		
		Victoria		
	H	2 57.7	2280	
	P	3 02 20		
	S	3 06 08		
	L	3 07		
	F	3 20		
		Saskatoon		
	e	3 07.3		
	e	3 10 30		
	L	3 12		
	F	3 50		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM　　October 7, 1947　　to　　October 10, 1947　　No. 73

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h　m　s	km.	
		Seven Falls		
520 Oct. ? (cont'd)	e	3 15.4		
	L	3 19		
	F	3 50		
		Shawinigan Falls		
	e	3 05 34		
	L	3 19		
	F	3 28		
		Ottawa		
531 Oct. 9	H	17 03.8	150	
	P_2	17 04 13		
	S_2	17 04 30		
	F	17 05		
		Ottawa		
534 Oct. 10	H	7 32.?	9160	USCGS gives:-
	P_Z	7 44 32		$\varphi = 40°$ N.
	S	7 54 50		$\lambda = 144°$ E.
	SSS	8 04		d = 300 km.
	L	8 11		
	F	9 12		
		Saskatoon		
	H	7 32.5	7020	
	P	7 42 54		
	S	7 51 33		
	L	8 05		
	F	8 55		
		Seven Falls		
	e	7 54 49		
	e	8 05		
	L	8 13		
	F	9 47		
		Ottawa		
536 Oct. 10	e_E	14 20		USCGS gives:-
	e_N	14 31		$\varphi = 30°$ S.
	L	14 54		$\lambda = 180°$
	F	16 20		
		Victoria		
	e	14 07 24		
	L	14 31		
	F	15 15		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM __October 10, 1947__ to __October 15, 1947__ No. 74

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
536 Oct. 10 (cont'd)	e L F	14 14.4 14 35 15 27		
		Seven Falls		
	e L F	14 09 14 52 16 41		
		Ottawa		
549 Oct. 13	e$_Z$ L F	1 14 12 1 27 1 42		
		Shawinigan Falls		
	e L F	1 14 15 1 28 1 34		
		Ottawa		
551 Oct. 13	e$_Z$ L F	7 50 42 8 41 9 17		
		Seven Falls		
	e L F	7 54.4 8 36 9 57		
		Ottawa		
553 Oct. 14	e$_Z$ e$_E$ e$_N$ L F	2 00 04 2 08.6 2 18 2 36 4 00		USCGS gives:- φ = 32° S. λ = 180°
		Victoria		
	e$_N$ L F	2 05 52 2 27 3 00		
		Ottawa		
558 Oct. 15	e$_Z$ L F	4 17 27 4 31 4 40		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   October 15, 1947   to   October 16, 1947   No. 75

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	kn.	
		Shawinigan Falls		
558 Oct. 15 (cont'd)	e	4 17 28		
	L	4 31		
	F	4 39		
		Ottawa		
559 Oct. 15	ez	9 02 56		
	L	9 15		
	F	9 25		
		Ottawa		
563 Oct. 15	iz	19 42 38		
	e	19 52.5		
	L	19 56		
	F	20 15		
		Saskatoon		
	H	19 34.8	2720	
	P	19 40 10		
	S	19 44 33		
	L	19 47 37		
	F	20 00		
		Seven Falls		
	e	19 52 33		
	L	19 57		
	F	20 28		
		Shawinigan Falls		
	e	19 42 42		
	L	19 54		
	F	20 10		
		Ville Marie		
	i	19 42 16		
	L	19 58		
	F	20 15		
		Ottawa		
567 Oct. 16	H	2 09.9	4660	USCGS gives:- φ = 64.5 N. λ = 148.8 W.
	iP	2 17 46		
	PPP	2 19 33		
	S	2 24 12		
	SSS	2 27 42		
	L	2 31		
	F	6 00 ca.		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	October 16, 1947	to	October 16, 1947	No. 76

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
567 Oct. 16 (cont'd)	H	2 09.7	2350	
	P	2 14 31		
	PPP	2 15 10		
	S	2 18 25		
	SS	2 19 00		
	L	2 20		
	F	4 20		
		Saskatoon		
	H	2 09.8	2750	
	P	2 15 08		
	PP	2 15 40		
	PPP	2 15 51		
	S	2 19 34		
	LM	2 26		
	F	5 51		
		Halifax		
	H	2 09.7	5460	
	P	2 18 30		
	PP	2 20 30		
	S	2 25 40		
	SS	2 29.0		
	SSS	2 30 10		
	L	2 34		
	F	4 31		
		Seven Falls		
	H	2 09.9	4800	
	P	2 17 53		
	PPP	2 19 31		
	S	2 24 27		
	SS	2 26 31		
	L	2 29.9		
	F	6 16		
		Shawinigan Falls		
	H	2 09.9	4740	
	P	2 17 49		
	PP	2 19.6		
	S	2 24.3		
	SS	2 27.3		
	L	2 31		
	F	3 47		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	October 16, 1947	to	October 19, 1947	No. 77

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ville Marie		
567 Oct. 16 (cont'd)	H	2 09.9	4420	
	P	2 17 25		
	PP	2 18 52		
	PPP	2 19 30		
	S	2 23 38		
	SS	2 26 27		
	SSS	2 28		
	L	2 30		
	F	3 45		
		Hamilton		
		Courtesy of E. Mantle		
	H	2 10.0	4780	
	P	2 17 57		
	PP	2 19 33		
	S	2 40 29		
	SS	2 27 05		
	L	2 31		
	F	3 55		
		Ottawa		
577 Oct. 16	iZ	14 21 16		
	L	14 35		
	F	14 41		
		Ottawa		
582 Oct. 17	iZ	10 31 03		
	L	10 45		
	F	10 52		
		Ottawa		
585 Oct. 17	H	17 00.3	150	
	P_2	17 00 41		
	S_2	17 00 58		
	F	17 01.5		
		Ottawa		
588 Oct. 18	H	18 25.6	200	
	P_2	18 26 11		
	S_2	18 26 34		
	F	18 27		
		Ottawa		
592 Oct. 19	iZ	12 50 50		
	L	13 05		
	F	13 12		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	October 19, 1947	to	October 20, 1947	No. 78

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
595 Oct. 19	H	20 42.1	150	
	P_2	20 42 32.5		
	S_2	20 42 50		
	F	20 43.3		
		Ottawa		
598 Oct. 20	H	1 43.4	4680	USCGS gives:-
	P	1 51 17		$\varphi = 64°5$ N.
	PP	1 53 02		$\lambda = 148°8$ W.
	S	1 57 44		
	SS	2 00 50		
	L	2 05		
	F	3 26		
		Victoria		
	H	1 43.3	2390	
	P	1 48 05		
	PP	1 48 30		
	iS	1 52 02		
	SS	1 53.0		
	L	1 54		
	F	3 35		
		Saskatoon		
	H	1 43.2	2810	
	P	1 48 39		
	PPP	1 49.5		
	S	1 53 09		
	L	1 56		
	F	3 55		
		Halifax		
	H	1 43.6	5200	
	P	1 52 06		
	PP	1 53 54		
	S	1 59 02		
	SS	2 02 40		
	L	2 08		
	F	3 00		
		Seven Falls		
	H	1 43.3	4850	
	P	1 51 23		
	PP	1 53 02		
	S	1 57 53		
	SS	2 00 49		
	L	2 04		
	F	4 58		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	October 20, 1947	to	October 22, 1947	No. 79

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
598 Oct. 20 (cont'd)	H	1 43.4	4720	
	P	1 51 19		
	PP	1 53 05		
	SSS	2 01.4		
	L	2 04		
	F	2 44		
		Kirkland Lake		
	H	1 43.1	4480	
	P	1 50 45		
	PP	1 52 16		
	S	1 57 01		
	SS	1 59 17		
	L	2 02		
	F	2 33		
		Ville Marie		
	H	1 43.3	4440	
	P	1 50 53		
	PP	1 52 23		
	S	1 57 07		
	SSS	2 00 17		
	L	2 03		
	F	2 46		
		Ottawa		
599 Oct. 20	e	3 06 34		
	L	3 21		
	F	3 26		
		Ottawa		
605 Oct. 22	H	9 36.5	490	
	P_2	9 37 48		
	S_3	9 38 30		
	S_2	9 38 43.5		
	F	9 41.2		
		Seven Falls		
	H	9 36.6	45	
	P_1	9 36 45.5		
	S_1	9 36 51.2		
	F	9 39		
		Shawinigan Falls		
	H	9 36.5	205	
	P_2	9 37 09		
	S_2	9 37 33		
	F	9 39		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	October 22, 1947	to		October 31, 1947	No. 80

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
610 Oct. 22	H P_2 S_2 F	20 09.3 20 09 46.5 20 10 04.5 20 10.5	155	
		Ottawa		
616 Oct. 23	H P_2 S_2 F	21 02.2 21 02 35 21 02 52.5 21 03.2	150	
		Ottawa		
627 Oct. 25	H P_2 S_2 F	22 32.5 22 33 01.5 22 33 25 22 33.8	205	
		Ottawa		
638 Oct. 29	H P_1 S_1 F	15 45.5 15 45 50 15 46 01 15 46.3	95	Cornwall?

W. W. Doxsee

EARTHQUAKE CORRELATION TABLE
October, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
493	1	3 29+0 0.4P*							
494	1	12 50+0 02P*							
495	1	13 01+0 0.6P*							
496	1	18 33+0 02P*							
497	1	19 15+0 01P*							
498	1	21 25+0 0.3P*							
499	1	21 34+0 01P*							
500	1	21 39+0 02P*							
501	1	21 27+0 0.3P*							
502	2	22 40+0 0.5P*							
503	3	5 05+0 01P*							
504	3	22 27+0 05P*							A
505	3	6 34+0 54u	6 33+1 00u	6 42+1 03u		6 40+1 13u			
506	3	8 18+0 03P*	8 30+0 06L	8 29+0 07L					B
507	3	15 29+0 0.5d*							C
508	3	22 57+0 01v*							D
509	3	23 39+0 55r	23 39+0 52R	23 39+1 06R	23 49+0 19r	23 39+1 20r	23 39+0 30r	23 39+0 28r	
510	4	16 00+1 22u				16 33+0 54L			
511	4	19 42+0 01P*							
512	5	6 36+0 01P*							E
513	5	19 00+2 28u	19 06+1 23u	19 06+2 34u	19 50+0 20L	19 01+2 52u			F
514	5	19 58+0 01v*							
515	5					16 08+0 25L			
516	6	18 53+0 25r				18 58+0 24L			
517	6	20 07+3 16U	20 08+2 36U	20 08+1 54U	20 06+1 14U	20 06+3 47U		20 07+0 53U	G
518	6	21 52+0 0.7v*							H
519	7	2 01+1 05R	1 58+0 57R	1 59+1 01R	2 17+0 18L	2 02+1 08R	2 02+0 30R	2 01+0 30R	J
520	7	3 05+0 36r	3 02+0 18r	3 07+0 43r	3 22+0 07L	3 15+0 35r	3 19+0 08L	3 06+0 22r	K
521	7			3 50+0 12L					
522	7	5 04+0 04L		4 55+0 06L		5 05+0 09L			

EARTHQUAKE CORRELATION TABLE
October, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
523	7	19 07+0 0.6P*							
524	7	19 15+0 01P**							
525	7	19 21+0 0.5P*							
526	8	10 59+0 0.4P*							
527	8	21 24+0 0.7P*							
528	8	22 10+0 0.8P*							
529	9	0 38+0 0.8P*							
530	9	:17 04+0 0.8V*	8 00+0 29L	8 54+1 06L					L
531	9	20 27+0 0.7P**							
532	9	2 58+0 0.6P**							
533	10	7 45+1 27u	14 07+1 08u	7 43+1 12u		7 55+1 52u			
534	10	8 41+0 02P*							M
535	10	14 20+2 00u		14 14+1 13u		14 09+2 32u			
536	10	21 43+0 0.6P*							
537	10	22 01+0 Q.4P*							
538	10	22 16+0 0.3P*							
539	11	4 15+0 0.5P*							
540	11	20 01+0 01P*							
541	11	20 46+0 0.2P*							
542	11	21 39+0 0.7P*							
543	11	21 54+0 0.5P*							
544	11	22 44+0 0.3P*							
545	11	7 34+0 01P*							
546	12	19 51+0 0.5P*							
547	12	20 32+0 0.2P*							
548	12	1 14+0 28r	1 17+0 07L	1 19+0 08L		1 29+0 17L	1 27+0 09L	1 14+0 20r	
549	13	6 52+0 0.5P*							
550	13	7 51+1 26u	8 25+0 10L	8 29+0 36L		7 54+1 03u			
551	13	16 45+0 0.3P*							
552	13								

EARTHQUAKE CORRELATION TABLE

October, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
553	14	2 00+2 00u	2 06+0 54u						
554	14	17 30+0 0.2P*							
555	14	19 30+0 0.3P*							
556	14	22 43+0 0.2P*							
557	14	23 14+0 0.1P*							
558	14	4 17+0 23r	4 20+0 08L		1	4 32+0 14L	4 31+0 08L	4 17+0 22r	
559	15	9 03+0 22r	9 00+0 11L						
560	15	18 42+0 0.1P*							
561	15	19 03+0 0.3P*							
562	15	19 33+0 0.4P*							
563	15	19 43+0 32r	19 46+0 09L	19 40+0 20r	19 59+0 17L	19 53+0 35r	19 53+0 15r	19 43+0 27r	N
564	15	21 03+0 0.3P*							
565	15	21 30+0 01P*							
566	16	0 3+0 0.2P*							
567	16	2 18+3 42R	2 15+2 05R	2 15+3 36R	2 18+2 13U	2 18+3 58R	2 18+1 30R	2 18+1 29R	P
568	16	3 10+0 02P*							
569	16	3 35+0 01P*							
570	16	3 40+0 0.4P*							
571	16	4 34+0 01P*							
572	16	5 20+0 0.6P*							
573	16	8 34+0 0.4P*							
574	16	9 30+0 03P*		9 35+0 06L			9 45+0 04L		
575	16	11 31+0 01P*							
576	16	12 38+0 02P*					12 45+0 03L		
577	16	14 21+0 20r				14 36+0 06L			
578	16	15 45+0 0.2P*							
579	16	19 07+0 01P*							
580	17	0 50+0 01P*							
581	17	4 15+0 02P*							
582	17	10 31+0 21r		10 36+0 04L		10 47+0 06L	10 46+0 03L		

SEISMOLOGICAL SERVICE OF CANADA
October, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
583	17	10 51+0 01P*							
584	17	14 03+0 03P*							
585	17	17 01+0 0.8v*							Q
586	17	20 59+0 0.2P*							
587	18	4 09+0 0.5P*							
588	18	18 26+0 0.8v*							R
589	18	21 51+0 0.5P*							
590	19	3 38+0 0.5P*							
591	19	6 02+0 0.2P*							
592	19	12 51+0 2lr	12 54+0 05L			13 06+0 06L	13 03+0 06L	13 05+0 05L	
593	19	16 51+0 0.3P*							
594	19	20 20+0 0.4P*							S
595	19	20 43+0 0.7v*							
596	19	21 06+0 0.1P*							
597	19	22 17+0 0.3P*	1 48+1 47R	1 49+2 06R	1 52+1 08U	1 51+3 06R	1 51+1 03R	1 51+0 53R	T
598	20	1 51+1 35R							
599	20	3 07+0 19r							
600	20	12 29+0 03P*				10 29+0 22L			
601	20	16 00+0 0.2P*							
602	20	17 10+0 0.2P*							
603	21	9 58+0 01P*							
604	22	3 56+0 0.5P*							
605	22	9 38+0 03v*				9 37+0 0.4d	9 37+0 02d	9 37+0 02v	U
606	22	9 42+0 0.2P*							
607	22	13 42+0 01P*							
608	22	17 54+0 0.3P*				18 29+0 16L			
609	22	•• 0.7v**							
610	22	20 10+0 0.7v*							V
611	22	22 07+0 0.2P*							
612	23	11 51+0 04P*							

EARTHQUAKE CORRELATION TABLE

October, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A. / S.	Shawinigan	**
613	23	11 58+0 03P*							
614	23	12 18+0 01P*							
615	23	20 47+0 0.6P*							W
616	23	21 03+0 0.6v*							
617	23	21 30+0 0.4P*							
618	23	23 00+0 0.8P*							
619	24	13 44+0 0.3P**							
620	24	15 40+0 0.4P*							
621	24	17 20+0 0.5P*							
622	24	22 44+0 0.3P*							
623	24	22 48+0 0.5P*							
624	24	15 45+0 0.1P**							
625	25	18 34+0 0.2P*							
626	25	18 39+0 01P*							
627	25	22 35+0 0.8v*				11 48+0 15L			X
628	25	22 36+0 0.7P*							
629	26	11 53+0 0.5P*							
630	27								
631	27	20 23+0 0.4P*							
632	28	3 15+0 0.3P*							
633	28	10 08+0 0.6P*							
634	28	16 30+0 0.2P*							
635	28	21 32+0 0.2P*							
636	29	12 11+0 01P*							
637	29	14 43+0 0.2P*							V
638	29	15 46+0 0.5d*							
639	29	19 23+0 0.2P*							
640	29	22 04+0 01P*							
641	30	11 01+0 0.2P*							
642	30	15 52+0 01P*		13 29+0 09L					
643	31								
644	31	23 14+0 0.3P*							

CORRELATION OF EARTHQUAKES

October, 1947

N O T E S

A :	Ottawa	Δ = 13,600 km.	H =	$6^h13^m{.}5$ U.T.
	Seven Falls	Δ = 14,200 km.	H =	6 13.3 U.T.
B :	Ottawa	Δ = 90 km.	H =	$15^h28^m{.}5$ U.T.
C :	Ottawa	Δ = 255 km.	H =	$22^h56^m{.}3$ U.T.
D :	Ottawa	Δ = 3,470 km.	H =	$23^h32^m{.}5$ U.T.
	Victoria	Δ = 3,660 km.	H =	23 32.3 U.T.
	Saskatoon	Δ = 3,480 km.	H =	23 32.4 U.T.
	Seven Falls	Δ = 3,950 km.	H =	23 32.4 U.T.
	Shawinigan Falls	Δ = 3,820 km.	H =	23 32.4 U.T.
	Kirkland Lake	Δ = 3,630 km.	H =	23 32.3 U.T.
	Temiskaming	Δ = 3,545 km.	H =	23 32.3 U.T.
E :	Ottawa	Δ = 14,700 km.	H =	$18^h40^m{.}8$ U.T.
	Saskatoon	Δ = 12,100 km.	H =	18 41.1 U.T.
	Seven Falls	Δ = 14,500 km.	H =	18 41.1 U.T.
F :	Ottawa	Δ = 150 km.	H =	$19^h57^m{.}6$ U.T.
G :	Ottawa	Δ = 7,640 km.	H =	$19^h55^m{.}7$ U.T.
	Victoria	Δ = 9,380 km.	H =	19 56.0 U.T.
	Saskatoon	Δ = 8,940 km.	H =	19 55.7 U.T,
	Halifax	Δ = 6,720 km.	H =	19 55.9 U.T.
	Seven Falls	Δ = 7,000 km.	H =	19 56.0 U.T.
	Shawinigan Falls	Δ = 7,240 km.	H =	19 56.0 U.T.
	Kirkland Lake	Δ = 8,000 km.	H =	19 55.5 U.T.
H :	Ottawa	Δ = 150 km.	H =	$21^h51^m{.}1$ U.T.
J :	Ottawa	Δ = 4,720 km.	H =	$1^h53^m{.}5$ U.T.
	Victoria	Δ = 2,290 km.	H =	1 53.3 U.T.
	Saskatoon	Δ = 2,600 km.	H =	1 53.6 U.T.
	Seven Falls	Δ = 4,780 km.	H =	1 53.5 U.T.
	Temiskaming	Δ = 4,510 km.	H =	1 53.4 U.T.
K :	Ottawa	Δ = 4,720 km.	H =	$2^h57^m{.}6$ U.T.
	Victoria	Δ = 2,280 km.	H =	2 57.7 U.T.
L :	Ottawa	Δ = 150 km.	H =	$17^h03^m{.}8$ U.T.
M :	Ottawa	Δ = 9,160 km.	H =	$7^h32^m{.}2$ U.T.
	Saskatoon	Δ = 7,020 km.	H =	7 32.5 U.T.
N :	Saskatoon	Δ = 2,720 km.	H =	$19^h34^m{.}8$ U.T.
P :	Ottawa	Δ = 4,660 km.	H =	$2^h09^m{.}9$ U.T.
	Victoria	Δ = 2,350 km.	H =	2 09.7 U.T.
	Saskatoon	Δ = 2,750 km.	H =	2 09.8 U.T.
	Halifax	Δ = 5,460 km.	H =	2 09.7 U.T.
	Seven Falls	Δ = 4,800 km.	H =	2 09.9 U.T.
	Shawinigan Falls	Δ = 4,740 km.	H =	2 09.9 U.T.
	Ville Marie	Δ = 4,420 km.	H =	2 09.9 U.T.
Q :	Ottawa	Δ = 150 km.	H =	$17^h00^m{.}3$ U.T.
R :	Ottawa	Δ = 200 km.	H =	$18^h25^m{.}6$ U.T.
S :	Ottawa	Δ = 150 km.	H =	$20^h42^m{.}1$ U.T.

CORRELATION OF EARTHQUAKES

October, 1947

NOTES

T : Ottawa Δ = 4,680 km.   H = $1^h43^m.4$ U.T.
    Victoria Δ = 2,390 km.   H = 1 43.3 U.T.
    Saskatoon Δ = 2,810 km.   H = 1 43.2 U.T.
    Halifax Δ = 5,200 km.   H = 1 43.6 U.T.
    Seven Falls Δ = 4,850 km.   H = 1 43.3 U.T.
    Shawinigan Falls Δ = 4,720 km.   H = 1 43.4 U.T.
    Kirkland Lake Δ = 4,480 km.   H = 1 43.1 U.T.
    Ville Marie Δ = 4,440 km.   H = 1 43.3 U.T.

U : Ottawa Δ =   490 km.   H = $9^h36^m.5$ U.T.
    Seven Falls Δ =   45 km.   H = 9 36.6 U.T.
    Shawinigan Falls Δ =   205 km.   H = 9 36.5 U.T.

V : Ottawa Δ =   155 km.   H = $20^h09^m.3$ U.T.

W : Ottawa Δ =   150 km.   H = $21^h02^m.2$ U.T.

X : Ottawa Δ =   205 km.   H = $22^h32^m.5$ U.T.

Y : Ottawa Δ =   95 km.   H = $15^h45^m.5$ U.T.

Dominion Observatory,

   OTTAWA, CANADA.

      December 9, 1947.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	November 1, 1947		to	November 1, 1947		No. 81

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
646 Nov. 1	H	6 00 ca.	13,600	
	Pz	6 19 11		
	SKP	6 22 00		
	PPS	6 32		
	L	7 06.5		
	F	8 11		
		Saskatoon		
	e	6 22.1		
	e	6 30.8		
	e	6 38.5		
	e	6 43.7		
	L	7 05		
	F	8 20		
		Seven Falls		
	e	6 30.6		
	L	7 01		
	F	8 32		
		Ottawa		
647 Nov. 1	H	14 59.0	6,150	Compression USCGS gives: $\varphi = 11°$ S. $\lambda = 75°$ W.
	P	15 08 31		
	PP	15 10 36		
	PPP	15 11 40		
	iS	15 16 20		
	PS	15 16 52		
	SS	15 22 10		
	SSS	15 23.7		
	L	15 29		
	F	19 13		
		Victoria		
	H	14 59.0	8,120	
	P	15 10 26		
	PP	15 13 18		
	iS	15 19 58		
	PS	15 20 39		
	L	15 37		
	F	18 36		
		Saskatoon		
	H	14 58.9	7,650	
	e	15 11.5		
	iS	15 19 03		
	SSS	15 28.5		
	L	15 31		
	F	18 58		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Halifax		
647 Nov. 1 (cont'd)	H	14 59.0	6,040	
	P	15 08 26		
	PP	15 10.5		
	S	15 16 08		
	PS	15 16 40		
	SS	15 20.0		
	SSS	15 21.6		
	L	15 26		
	F	18 11		
		Seven Falls		
	H	14 59.1	6,350	
	P	15 08 47		
	S	15 16 47		
	PS	15 17 09		
	SS	15 20.6		
	SSS	15 23.3		
	L	15 29		
	F	19 26		
		Shawinigan Falls		
	H	14 59.0	6,320	
	P	15 08 41		
	PP	15 10 57		
	PPP	15 12 12		
	S	15 16 40		
	PS	15 17 06		
	SS	15 20.6		
	L	15 26		
	F	16 06		
		Temiskaming		
	H	14 58.9	6,500	
	P	15 08 46		
	PP	15 11.2		
	S	15 16 55		
	PS	15 17 07		
	SS	15 20 24		
	L	15 26		
	F	16 04		
		Kirkland Lake		
	H	14 59.0	6,445	
	P	15 08 52		
	PP	15 11 40		
	PPP	15 12 48		
	S	15 16 58		
	PS	15 17 30		
	SSS	15 23.6		
	L	15 29		
	F	16 02		

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM	November 1, 1947	to	November 3, 1947	No. 83

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
655 Nov. 2	H	7 00.6	4,010	USCGS gives:—
	P	7 07 41		$\varphi = 40° N.$
	PPP	7 09 08		$\lambda = 127° W.$
	S	7 13 29		
	SSS	7 16		
	L	7 20		
	F	8 01		
		Victoria		
	H	7 00.4	900	
	P	7 02 24		
	S	7 03 58		
	L	7 05		
	F	8 07		
		Saskatoon		
	H	7 00.3	2,050	
	P	7 04 35		
	S	7 08 05		
	L	7 10		
	F	8 00		
		Seven Falls		
	H	7 00.6	4,400	
	P	7 08 07		
	PP	7 09 38		
	S	7 14 18		
	L	7 22		
	F	8 36		
		Temiskaming		
663 Nov. 3	H	19 51.7	225	
	P_3	19 52 17		
	S_3	19 52 42.5		
	F_3	19 53		
		Kirkland Lake		
	H	19 51.8	320	
	P_3	19 52 32		
	S_3	19 53 07.5		
	F	19 54		
		Seven Falls		
664 Nov. 3	H	23 29.9	35	
	P_1	23 30 02		
	S_3^1	23 30 06		
	F	23 30.5		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	November 3, 1947	to	November 4, 1947	No. 84

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
666 Nov. 4	H	0 09.2	9,430	Rarefaction USCGS gives:
	P	0 21 45		φ = 43° N.
	S	0 32 15		λ = 140° E.
	PS	0 33 13		
	L	0 54		
	F	2 33		
		Victoria		
	H	0 09.3	6,960	
	P	0 19 37		
	PP	0 22 03		
	PPP	0 23 12		
	S	0 28 12		
	L	0 40		
	F	1 55		
		Saskatoon		
	H	0 09.1	7,500	
	P	0 19 58		
	PP	0 22.5		
	S	0 29 00		
	L	0 41		
	F	2 12		
		Halifax		
	H	0 09.3	9,830	
	P	0 22 07		
	S	0 32 54		
	SSS	0 44.2		
	L	0 51		
	F	1 38		
		Seven Falls		
	H	0 09.2	9,460	
	P	0 21 55		
	S	0 32 17		
	SS	0 37.7		
	SSS	0 42.8		
	L	0 52		
	F	2 45		
		Shawinigan Falls		
	H	0 09.3	9,300	
	P	0 21 45		
	S	0 32 09		
	L	0 58		
	F	1 12		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   November 4, 1947   to   November 9, 1947   No. 85

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
678 Nov. 4	H	18 29.7	150	
	P_2	18 30 06.5		
	S_2	18 30 24		
	S_1	18 30 27		
	F	18 31		
		Ottawa		
680 Nov. 4	H	20 34.7	150	
	P_2	20 35 06		
	S_2	20 35 23.5		
	F	20 35.9		
		Ottawa		
688 Nov. 6	H	21 04.1	265	
	P_2	21 04 48		
	S_2	21 05 18		
	F	21 06.1		
		Ottawa		
693 Nov. 7	H	16 29.9	150	
	P_2	16 30 17		
	S_2	16 30 34.5		
	F	16 31.1		
		Ottawa		
696 Nov. 7	H	21 53.0	215	
	P_2	21 53 36		
	S_2	21 54 00.5		
	F	21 54.5		
		Ottawa		
697 Nov. 7	H	23 00.6	6,200	USCGS gives: $\varphi = 11°$ S. $\lambda = 75°$ W.
	eP_Z	23 10 08		
	S	23 18.0		
	L	23 26		
	F	23 57		
		Ottawa		
705 Nov. 9	H	4 57.7	13,900	USCGS gives: $\varphi = 23°$ S. $\lambda = 171°$ E.
	P_Z	5 16 45		
	PP_E	5 18.5		
	SKS_E	5 23 48		
	SKKS	5 25 20		
	PS	5 28.5		
	SS	5 35.6		
	SSS	5 40		
	L	5 56		
	F	7 25		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	November 9, 1947	to	November 12, 1947	No. 86

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
705 Nov. 9 (cont'd)	H	4 58.3	10,000	
	SKS	5 21 37		
	SKKS	5 22 09		
	PPS	5 23 39		
	SS	5 28.0		
	L	5 40		
	F	7 41		
		Saskatoon		
	H	4 57.9	11,500	
	SKS	5 22 28		
	S	5 23 39		
	PS	5 25 17		
	SS	5 31.2		
	SSS	5 34 47		
	L	5 46		
	F	6 40		
		Halifax		
	e	5 20 27		
	e	5 37.6		
	L	5 57		
	F	6 35		
		Seven Falls		
	H	4 57.8	14,200	
	SKP	5 20 10		
	SKS	5 23 58		
	PS	5 29 00		
	SS	5 36.5		
	SSS	5 44.7		
	L	5 57		
	F	7 39		
		Seven Falls		
714 Nov. 12	e	2 00.8		USCGS gives: $\varphi = 29°$ N. $\lambda = 114°$ W.
	L	2 02.8		
	F	2 08		
		Seven Falls		
716 Nov. 12	e	3 04.2		USCGS gives: $\varphi = 29°$ N. $\lambda = 114°$ W.
	L	3 07		
	F	3 19		
		Ottawa		
717 Nov. 12	ez	10 58 06		
	Lz	11 36		
	F	12 00		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   November 12, 1947   to   November 21, 1947   No. 87

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
720 Nov. 12	ez	16 37 50		USCGS gives:
	L	16 49		$\varphi = 23°$ S.
	F	18 03		$\lambda = 171°$ E.
		Victoria		
	H	16 18.8	10,600	
	P	16 32 13		
	SKS	16 42 47		
	PS	16 44 26		
	SS	16 49.9		
	L	17 01		
	F	17 52		
		Seven Falls		
	e	16 47.7		
	L	17 19		
	F	18 43		
		Ottawa		
734 Nov. 17	ez	10 04 10		USCGS gives:
	L	10 13		$\varphi = 14°$ N.
	F	10 30		$\lambda = 45°$ W.
		Ottawa		
735 Nov. 17	ez	11 24 45		
	L	11 54		
	F	12 04		
		Ottawa		
744 Nov. 20	iz	8 31 19		USCGS gives:
	L_N	8 57		$\varphi = 47°$ N.
	F	9 20		$\lambda = 153°$ E.
		Ottawa		
746 Nov. 20	H	19 37.1	150	
	P_2	19 37 31		
	S_2	19 37 48.5		
	F	19 38.4		
		Ottawa		
748 Nov. 21	H	3 54.3	4,080	Rarefaction
	P	4 01 26		USCGS gives:
	PPP	4 02 58		$\varphi = 19°$ N.
	S	4 07 18		$\lambda = 107°$ W.
	SSS	4 10 00		
	L	4 11.5		
	F	5 12		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	November 21, 1947	to	November 21, 1947	No. 88

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
748 Nov. 21 (Cont'd)	H	3 54.2	3,570	
	P	4 00 40		
	PPP	4 01 57		
	S	4 06 00		
	SS	4 08.2		
	L	4 10		
	F	5 57		
		Saskatoon		
	H	3 54.4	3,550	
	P	4 00 54		
	PP	4 01 47		
	PPP	4 02 07		
	S	4 06 13		
	L	4 11		
	F	4 36+		
		Halifax		
	H	3 54.6	4,740	
	P	4 02 32		
	PPP	4 04.3		
	S	4 09.0		
	SSS	4 12.5		
	L	4 17		
	F	4 54		
		Seven Falls		
	H	3 54.5	4,420	
	P	4 02 04		
	PP	4 03 42		
	S	4 08 17		
	SS	4 11 04		
	L	4 14		
	F	5 55		
		Shawinigan Falls		
	e	4 01 55		
	e	4 07 41		
	e	4 10 53		
	L	4 15		
	F	4 53		
		Ottawa		
755 Nov. 21	ez	19 21 00		
	L	19 38		
	F	20 54		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM November 21, 1947 to November 23, 1947 No. 89

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
755 Nov. 21 (cont'd)	e L F	19 26 19 40 21 02		
		Seven Falls		
	e L F	19 32.4 19 53 21 07		
		Ottawa		
758 Nov. 22	H Pz SN L F	8 00.8 8 08 54 8 15 32 8 26 8 35	4,880	
		Ottawa		
760 Nov. 23	H P PP S L F	9 46.1 9 51 32 9 52 09 9 56 00 9 59 10 48	2,790	Compression USCGS gives: $\varphi = 44°\ 47'$ N. $\lambda = 112°\ 02'$ W.
		Hamilton Courtesy of E. Mantle		
	H P S L F	9 46.1 9 51 12 9 55 25 9 57 10 40	2,590	
		Victoria		
	H P S L F	9 46.1 9 48 15 9 49 58 9 50.5 10 35	985	
		Saskatoon		
	H P S LM F	9 46.2 9 48 20 9 50 00 9 51.6 10 40	955	

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM   November 23, 1947   to   November 25, 1947   No. 90

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Halifax		
760 Nov. 23 (cont'd)	e	9 58.2		
	L	6 01		
	F	6 35		
		Seven Falls		
	H	9 46.1	3,065	
	P	9 51 57		
	S	9 56 45		
	L	9 58 55		
	F	11 11		
		Shawinigan Falls		
	H	9 46.1	2,980	
	P	9 51 49		
	PP	9 52 16		
	S	9 56 31		
	SS	9 56 58		
	L	9 58.4		
	F	10 29		
		Temiskaming		
	H	9 46.1	2,500	
	P	9 51 07		
	S	9 55 13		
	SS	9 56 20		
	L	9 58		
	F	10 32		
		Kirkland Lake		
	H	9 46.0	2,550	
	P	9 51 01		
	S	9 55 11		
	L	9 57 12		
	F	10 26		
		Ville Marie		
	H	9 46.0	2,580	
	P	9 51 07		
	S	9 55 19		
	L	9 57		
	F	10 37		
		Ottawa		
765 Nov. 25	ez	18 24 43		USCGS gives: $\varphi = 11°$ S. $\lambda = 75°$ W.
	L	18 45		
	F	18 55		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATOY, OTTAWA

FROM November 25, 1947		to	November 30, 1947	No. 91
NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
770 Nov. 25	H P_2 S_2 F	21 33.8 21 34 25 21 34 49 21 35.1	210	
		Ottawa		
775 Nov. 29	H P_2 S_2 F	15 57.6 15 57 59.5 15 58 17 15 58.8	150	
		Ottawa		
776 Nov. 29	H P_2 S_2 F	21 06.0 21 06 25.5 21 06 43 21 07.3	150	

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE
November, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
645	1	1 53+0 01P*							
646	1	6 19+1 52u		6 22+1 58u		6 31+2 01u			A
647	1	15 09+4 04U	15 10+3 26U	15 11+3 47U	15 08+3 03U	15 09+4 17U	15 09+1 31U	15 09+0 57U	B
648	1	15 38+0 02P*							
649	1	16 48+0 0.5P*							
650	1	16 58+0 02P*						16 58+0 01P	
651	1	19 01+0 01P*							
652	1	21 51+0 0.3P*							
653	1	21 42+0 02P*							
654	2	1 51+0 01P*							
655	2	7 08+0 53r	7 02+1 05V	7 05+0 55r	7 24+0 12L	7 08+1 28r	7 08+0 22r	7 08+0 10P	C
656	2	7 09+0 01P*							
657	2	12 33+0 01P*							
658	2	16 41+0 01P*					16 30+0 02P		
659	2	17 05+0 0.2P*							
660	2	21 29+0 01P*							
661	2	21 38+0 02P*						21 39+0 01P	
662	3	21 42+0 0.4P*						19 55+0 01P	D
663	3						23 30+0 0.5d		E
664	3								
665	3	22 26+0 01P*							
666	4	0 22+2 11U	0 20+1 35U	0 20+1 52U	0 22+1 16U	0 22+2 23U	0 22+0 41U	0 22+0 50U	F
667	4	0 32+0 0.6P*							
668	4	0 48+0 0.3P*							
669	4	5 41+0 0.4P*							
670	4	6 03+0 0.5P*							
671	4	6 26+0 0.4P*							
672	4	7 09+0 0.7P*							
673	4	9 28+0 0.5P*							
674	4	10 04+0 02P*							
675	4	10 07+0 0.2P*							
676	4	15 11+0 0.2P*							
677	4	15 50+0 0.6P*							

EARTHQUAKE CORRELATION TABLE

November, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
678	4	18 30+0 01v*							G
679	4	20 10+0 0.4P*							H
680	4	20 35+0 0.8v*							
681	5	1 23+0 07P*							
682	5	2 22+0 0.7P*							
683	5	14 11+0 01P*							
684	6	7 45+0 0.5P*							
685	6	16 29+0 01P*							
686	6	17 44+0 0.4P*							
687	6	17 57+0 01P*							
688	6	21 05+0 01v*				23 27+0 20L			J
689	6	22 37+0 01P*							
690	7	3 12+0 01P*							
691	7	5 25+0 02P*						5 25+0 01P	
692	7	15 45+0 0.1P*							K
693	7	16 50+0 01v*							
694	7	21 17+0 0.3P*							L
695	7	21 39+0 0.3P*							M
696	7	21 54+0 01v*						23 11+0 10P	
697	7	23 10+0 47u							
698	8	4 15+0 01P*							
699	8	5 33+0 02P*						5 33+0 05P	
700	8	6 57+0 02P*						6 57+0 06P	
701	8	7 01+0 01P*							
702	8	16 50+0 01P*				23 52+0 07L			
703	8	21 25+0 0.7P*				5 20+2 19U		21 25+0 01P	
704	8	23 00+1 04u			5 20+1 15U				
705	9	5 17+2 08U	5 22+2 19U	5 22+1 18U				11 06+0 01P	
706	9	11 07+0 0.6P*							N
707	9	15 20+0 0.6P*							
708	9	21 00+0 0.3P*							
709	10	4 17+0 09L				4 14+0 09L			
710	10	6 46+0 0.6P*							

EARTHQUAKE CORRELATION TABLE

November, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
711	10	13 57+0 0.2P*							
712	10	14 27+0 0.2P*							
713	11	0 11+0 01P*		1 16+0 06L					
714	12	1 58+0 11L	1 52+0 07L	1 53+0 11L					
715	12	2 35+0 12L		2 30+0 07L		2 01+0 07r			
716	12	3 02+0 16L	2 55+0 13L	2 57+0 21L					
717	12	10 58+1 02u		11 29+0 12L		11 33+0 24L			O
718	12	12 56+0 0.3P*							
719	12	14 02+0 01P*							
720	12	16 38+1 25u	16 32+1 20u	1		16 48+1 55u			
721	13	6 48+0 01P*							
722	14	7 59+0 01P*							
723	14	11 03+0 07P*	11 08+0 25L						
724	14	15 20+0 0.3P*							
725	15	0 46+0 0.7P*							
726	15	17 21+0 01P*							
727	15	18 56+0 0.4P*							
728	15	20 32+0 02P*	20 32+0 31L						
729	16	11 28+0 0.5P*							
730	16	12 00+0 0.6P*							
731	16	17 58+0 0.5P*							
732	16	21 21+0 01P*							
733	17	8 20+0 01P*	8 26+0 35L						
734	17	10 04+0 26r	10 25+0 29L	10 26+0 11L					
735	17	11 25+0 39u	11 28+0 39L	11 36+0 18L					
736	17	20 38+0 02P*							
737	18	12 54+0 0.6P*							
738	18	16 47+0 02P*							
739	18	17 33+0 02P*					17 34+0 01P		
740	18	18 43+0 0.4P*							
741	18	22 17+0 04L	22 08+0 05L						
742	19	15 42+0 0.5P*							
743	19	20 23+0 0.2P*							

EARTHQUAKE CORRELATION TABLE
November, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
744	20	8 31+0 49u	8 36+0 28L					8 31+0 03P	
745	20	17 15+0 0.4P*							
746	20	19 38+0 0.9v**							
747	21	0 06+0 0.8P*							Q
748	21	4 01+1 11R	4 01+1 56R	4 01+0 35R	4 03+0 51R	4 04+1 51R	4 02+0 48R	4 02+0 51R	
749	21	4 25+0 02P*		4 35+1 12L					
750	21	9 46+0 01P*				9 54+0 03L		9 46+0 03P	
751	21	13 52+0 0.2P*							
752	21	18 07+0 0.4P*							
753	21	18 10+0 0.4P*							
754	21	18 55+0 0.8P*							
755	21	19 21+1 33u	19 26+1 36u	19 45+0 45L	20 03+0 28L	19 32+1 35u			
756	22	1 36+0 0.7P*							
757	22	5 06+0 0.6P*	8 21+0 10L	8 22+0 12L					
758	22	8 09+0 26r							
759	22	19 20+0 02P*	9 48+0 47V	9 48+0 52V					
760	23	9 52+0 56R				9 52+1 18R	9 52+0 38R	9 52+0 37R	S
761	23	18 03+0 03P*							
762	23	22 39+0 0.3P*							
763	24	12 44+0 0.7P*							
764	25	14 00+0 0.1P*							
765	25	18 25+0 30u							
766	25	18 35+0 0.3P*							
767	25	18 46+0 Q.4P*							
768	25			21 14+0 02d					
769	25			21 27+0 01d					
770	25							18 26+0 03P	T
771	25	21 34+0 0.7v*							
772	28	9 00+0 01P*		23 20+0 01d					
773	28	22 12+0 06L							
774	29	10 25+0 01P*							
775	29	15 58+0 0.8v**							U
776	29	21 06+0 01v*							V

CORRELATION OF EARTHQUAKES

November, 1947

N O T E S

A	:	Ottawa	$\Delta = 13,600$ km.	H = 6^h00^m U.T.
B	:	Ottawa	$\Delta = 6,150$ km.	H = $14^h59^m_{\cdot}0$ U.T.
		Victoria	$\Delta = 8,120$ km.	H = 14 59.0 U.T.
		Saskatoon	$\Delta = 7,650$ km.	H = 14 58.9 U.T.
		Halifax	$\Delta = 6,040$ km.	H = 14 59.0 U.T.
		Seven Falls	$\Delta = 6,350$ km.	H = 14 59.1 U.T.
		Shawinigan Falls	$\Delta = 6,320$ km.	H = 14 59.0 U.T.
		Temiskaming	$\Delta = 6,500$ km.	H = 14 58.9 U.T.
		Kirkland Lake	$\Delta = 6,445$ km.	H = 14 59.0 U.T.
C	:	Ottawa	$\Delta = 4,010$ km.	H = $7^h00^m_{\cdot}6$ U.T.
		Victoria	$\Delta = 900$ km.	H = 7 00.4 U.T.
		Saskatoon	$\Delta = 2,050$ km.	H = 7 00.3 U.T.
D	:	Temiskaming	$\Delta = 225$ km.	H = $19^h51^m_{\cdot}7$ U.T.
		Kirkland Lake	$\Delta = 320$ km.	H = 19 51.8 U.T.
E	:	Seven Falls	$\Delta = 35$ km.	H = $23^h29^m_{\cdot}9$ U.T.
F	:	Ottawa	$\Delta = 9,430$ km.	H = $0^h09^m_{\cdot}2$ U.T.
		Victoria	$\Delta = 6,960$ km.	H = 0 09.3 U.T.
		Saskatoon	$\Delta = 7,500$ km.	H = 0 09.1 U.T.
		Halifax	$\Delta = 9,830$ km.	H = 0 09.3 U.T.
		Seven Falls	$\Delta = 9,460$ km.	H = 0 09.2 U.T.
		Shawinigan Falls	$\Delta = 9,300$ km.	H = 0 09.3 U.T.
G	:	Ottawa	$\Delta = 150$ km.	H = $18^h29^m_{\cdot}7$ U.T.
H	;	Ottawa	$\Delta = 150$ km.	H = $20^h34^m_{\cdot}7$ U.T.
J	:	Ottawa	$\Delta = 265$ km.	H = $21^h04^m_{\cdot}1$ U.T.
K	:	Ottawa	$\Delta = 150$ km.	H = $16^h29^m_{\cdot}9$ U.T.
L	:	Ottawa	$\Delta = 215$ km.	H = $21^h53^m_{\cdot}0$ U.T.
M	:	Ottawa	$\Delta = 6,200$ km.	H = $23^h00^m_{\cdot}6$ U.T.
N	:	Ottawa	$\Delta = 13,900$ km.	H = $4^h57^m_{\cdot}7$ U.T.
		Victoria	$\Delta = 10,000$ km.	H = 4 58.3 U.T.
		Saskatoon	$\Delta = 11,500$ km.	H = 4 57.9 U.T.
		Seven Falls	$\Delta = 14,200$ km.	H = 4 57.8 U.T.
O	:	Victoria	$\Delta = 10,600$ km.	H = $16^h18^m_{\cdot}8$ U.T.
P	:	Ottawa	$\Delta = 150$ km.	H = $19^h37^m_{\cdot}1$ U.T.
Q	:	Ottawa	$\Delta = 4,080$ km.	H = $3^h54^m_{\cdot}3$ U.T.
		Victoria	$\Delta = 3,570$ km.	H = 3 54.2 U.T.
		Saskatoon	$\Delta = 3,550$ km.	H = 3 54.4 U.T.
		Halifax	$\Delta = 4,740$ km.	H = 3 54.6 U.T.
		Seven Falls	$\Delta = 4,420$ km.	H = 3 54.5 U.T.
R	:	Ottawa	$\Delta = 4,880$ km.	H = $8^h00^m_{\cdot}8$ U.T.

CORRELATION OF EARTHQUAKES

November, 1947

N O T E S

S :	Ottawa	$\triangle$ = 2,790 km.	H = 9^h46^m1 U.T.
	Hamilton	$\triangle$ = 2,590 km.	H = 9 46.1 U.T.
	Victoria	$\triangle$ = 985 km.	H = 9 46.1 U.T.
	Saskatoon	$\triangle$ = 955 km.	H = 9 46.2 U.T.
	Seven Falls	$\triangle$ = 3,065 km.	H = 9 46.1 U.T.
	Shawinigan Falls	$\triangle$ = 2,980 km.	H = 9 46.1 U.T.
	Temiskaming	$\triangle$ = 2,500 km.	H = 9 46.1 U.T.
	Kirkland Lake	$\triangle$ = 2,550 km.	H = 9 46.0 U.T.
	Ville Marie	$\triangle$ = 2,580 km.	H = 9 46.0 U.T.
T :	Ottawa	$\triangle$ = 210 km.	H = $21^h33^m.8$ U.T.
U :	Ottawa	$\triangle$ = 150 km.	H = $15^h57^m.6$ U.T.
V :	Ottawa	$\triangle$ = 150 km.	H = $21^h06^m.0$ U.T.

Dominion Observatory,
   Ottawa, Canada.
      December 20, 1947.

SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED

October, 1947

STATIONS	BULLETINS	RECEIVED
Helwan	Year 1939	October 4
Pasadena	August 15 - September 15 1947	" 6
Istanbul	May - July, 1947	" 6
Santa Clara	September, 1947	" 8
Rome	August, 1947	" 16
Belgrade	August, 1947	" 17
UCCLE	August, September, 1947	" 17
Zi-Ka-Wei	November 7 to December 23, 1943; February 5 to March 15, 1944; February 10 to December 9, 1945; January 11 to December 22, 1946	" 20
Pasadena	Preliminary - September 16 to October 7, 1947; October - December, 1946	" 20
Russian Stations	July, 1947	" 20
Ksara	August, 1947	" 20
Wellington	July, 1947	" 21
Istanbul	August, 1947	" 21
Perth	April - June, 1947	" 22
Brisbane	August, 1947	" 22
Zurich	July, August, 1947	" 22
Istanbul	July, August, 1947	" 25
Apia	April - June, 1947	" 29
Triests	May - August, 1947	" 30
Firenze	June, 1947	" 30

November, 1947

STATIONS	BULLETINS	RECEIVED
De Bilt	September, 1947	November 1
Pasadena	Locals for July, August, September, 1947	" 4
Rome	September, 1947	" 4
Bureau Central	June, 1947; Preliminary July 29, 1947	" 7
Strasbourg	August, September, 1947	" 7
St. Louis and Auxiliary Stations	Preliminaries July 23, 24, 28, 29; Supplement for February, March, April, 1947	" 12
Wellington	August, 1947	" 13
Zurich	September, 1947	" 14
Bureau Central	July, 1947	" 19
Strasbourg	October, 1947; Supplement June, 1947	" 19
Berkeley	January - March, 1941	" 19
St. Louis and Auxiliary Stations	Supplement May, June, 1947; Preliminaries July 31, August 5, 6, 1947	" 20
Pittsburg	Year, 1945	" 22
Richmond	I.S.S. April - June, 1947	" 24
Belgrade	September, 1947	" 25
Stuttgart	April to September, 1947	" 25
St. Louis and Auxiliary Stations	Preliminaries August 7, 9, 10, 27, 28, September 2, 3	" 25
Santa Clara	October, 1947	" 28
Richmond	January - September, 1947	" 28

DOMINION OBSERVATORY

OTTAWA - CANADA.

DEPARTMENT OF MINES AND RESOURCES

MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

December and January
1947 1948

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DOMINION OBSERVATORY

OTTAWA – CANADA

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SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

C. S. Beals, Dominion Astronomer

Ernest A. Hodgson, Chief, Seismological Division

W. W. Doxsee, Seismologist in charge

W. G. Milne, Station Superintendent

STATIONS

OTTAWA

$\phi = 45°23'38"$ N. $\lambda = 75°42'57"$ 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

$\phi = 44°38'$ N. $\lambda = 63°36'$ 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

$\phi = 47°07'4$ N. $\lambda = 70°49'6$ 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.

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

VICTORIA

Dominion Astrophysical Observatory

$\phi = 48°31'14"$ N. $\lambda = 123°24'56"$ 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.

SHAWINIGAN FALLS

Shawinigan Water and Power Company

$\phi = 46°33'1$ N. $\lambda = 72°45'8$ 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

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

Time correction from radio time signals

Foundation: clay and sand

Instrument: Milne-Shaw NE and NW components,
    designated 18 and 22, respectively, each with
    photographic registration, magnetic damping,
    paper speed of 8 mm. per min., mass 1 lb.

DETERMINED CONSTANTS

INSTRUMENT	To	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	2500			
20 (Victoria)	12.0	300	20:1		
21 (Victoria)	12.0	300	20:1		
SF (Seven Falls)	1.0	2500			
SM (Seven Falls)	12.0	300	20:1	50 mm.	
18 (Saskatoon)	10.0	150	20:1	18 mm.	
22 (Saskatoon)	10.0	150	20:1	18 mm.	

NOTE:- Universal Time used throughout.

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM	December 1, 1947	to	December 15, 1947	No. 92

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
781 Dec. 3	H	16 59.2	150	
	P_2	16 59 37		
	S_2	16 59 54		
	i	16 59 57		
	F	17 00.4		
		Ottawa		
784 Dec. 4	H	20 33.4	150	
	P_2	20 33 48		
	S_2	20 34 06		
	e	20 34 15		
	F	20 34.6		
		Ottawa		
791 Dec. 9	H	20 41.5	150	
	P_2	20 41 52		
	S_2	20 42 09		
	e	20 42 18		
	F	20 42.7		
		Ottawa		
796 Dec. 10	H	22 54.5	210	
	P_2	22 55 01.5		
	S_2	22 55 25.5		
	e	22 55 37		
	F	22 55.9		
		Ottawa		
803 Dec. 14	ez	2 27 48		USCGS gives:- $\varphi = 26°$ S. $\lambda = 63°$ W. d = 100 km.
	iz	2 28 17		
	Fz	2 30.6		
		Ottawa		
806 Dec. 15	H	19 20.3	13,900	USCGS gives:- $\varphi = 59°$ S. $\lambda = 161°$ W. d = 100 km.
	P^1	19 39 23		
	PP	19 41 10		
	PS	19 51		
	L	20 21		
	F	21 16		
		Victoria		
806 Dec. 15	H	(19 20.8)	12,800	No clock correction,
	P^1	19 39 30		
	SKS	19 45 38		
	PS	19 49 08		
	SS	19 55 20		
	L	20 11		
	F	21 55		

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM December 15, 1947 to December 26, 1947 No. 93

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
806 Dec. 15 (cont'd)	e L F	19 42.3 19 54 21 32		
		Ottawa		
813 Dec. 17	H P_2 S_2 e F	19 19.8 19 20 09.5 19 20 26.5 19 20 34 19 20.8	150	
		Ottawa		
821 Dec. 23	H P_z PPP_z S_z L F	1 56.2 2 02 42 2 03 54 2 08.0 2 10 2 23	3,540	
		Ottawa		
823 Dec. 23	H P_2 S_2 e F	19 11.7 19 12 05.5 19 12 23 19 23 30 19 12.7	150	
		Ottawa		
825 Dec. 23	H P_2 S_2 F	21 46.9 21 47 31 21 47 57 21 48.3	230	
		Ottawa		
826 Dec. 24	e_z e_z e_N L F	5 41 55 5 46 55 5 53.0 6 49 7 17		
		Victoria		
829 Dec. 24	e L F	17 54 17 57 18 05		
		Ottawa		
833 Dec. 26	e L F	17 02 54 17 37 18 19		USCGS gives:— $\varphi = 20°$ S. $\lambda = 168°$ E.

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM	December 26, 1947	to	December 30, 1947	No. 94

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
833 Dec. 26 (cont'd)	e e_N e_N L F	17 07.6 17 14.0 17 21.0 17 26 18 16		
		Victoria		
835 Dec. 26	e L F	20 16 20 33 21 05		
		Ottawa		
840 Dec. 28	H P_3 P_2 S_3 i i S_1 F	19 58.3 19 59 26 19 59 37 20 00 17 20 00 23 20 00 35 20 00 42 20 05	475	
		Shawinigan Falls		
	H P_2 e S_2 F	19 58.2 19 59 06 19 59 37 19 59 42.5 20 02	320	
		Seven Falls		
	H P_2 S_3 S_2 F	19 58.3 19 58 57 19 59 22 19 59 26 20 02	255	
		Ottawa		
841 Dec. 28	H P_2 S_2 e F	20 44.7 20 45 09 20 45 26.5 20 45 34 20 46	150	

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM	December 30, 1947	to	December 31, 1947	No. 95

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
843 Dec. 30	H	1 54.9	4,280	USCGS gives:—
	P	2 02 20		$\varphi = 9°5$ N.
	PPP	2 03 54		$\lambda = 84°5$ W.
	S_N	2 08 25		
	SS	2 11		
	L	2 13.5		
	F	2 39		
		Victoria		
	e	2 04		
	L	2 19		
	F	3 18		
		Victoria		
851 Dec. 31	e	15 18 52		USCGS gives:—
	e(S)	15 28 00		$\varphi = 15°$ S.
	e_E	15 31 00		$\lambda = 176°$ W.
	L	15 41		
	F	16 25		

W. W. Doxsee.

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EARTHQUAKE CORRELATION TABLE

December, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M.S.	Seven Falls W.A.	Shawinigan	**
777	1	1 03+0 01P*							
778	1	15 30+0 0.3P*							
779	1	19 34+0 ⊙.1P*							
780	2	15 59+0 0.7P*							
781	3	17 00+0 0.8v*							A
782	3	19 39+0 0.3P*							
783	3	14 35+0 04P*							
784	4	20 34+0 0.8v*							B
785	4	21 05+0 0.1P*							
786	4	22 21+0 0.1P*							
787	4	23 40+0 01P*							
788	5	15 16+0 0.7P*							
789	7	15 05+0 0.2P*	18 05+0 20L						
790	8	17 38+0 0.5P*	10 13+0 05L						
791	8	.							
792	9	20 42+0 0.8v*							
793	9	22 48+0 0.4P*							
794	9	23 52+0 0.3P*							
795	9	.					23 52+0 02P		C
796	10	22 55+0 0.9v*		5 04+0 08L					
797	10	23 32+0 0.3P*							
798	11	12 46+0 01P*							D
799	13	21 04+0 0.5P*							
800	13	23 13+0 01P*							
801	14	1 13+0 0.3P*							

EARTHQUAKE CORRELATION TABLE
December, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
802	14	2 26+0 0.6P*							
803	14	2 28+0 02P*							
804	14	15 19+0 01P*							
805	15	15 25+0 0.2P*							
806	15	19 39+1 37u	19 39+2 16u			19 42+1 50u			E
807	16	3 34+0 01P*	11 38+0 04L						
808	16								
809	16	19 31+0 0.4P*							
810	16	21 23+0 16L							
811	17	7 41+0 0.3P*							
812	17								
813	17	19 20+0 0.7v*						12 50+0 03P	F
814	19	4 51+0 01P*							
815	20	18 17+0 0.2P*							
816	21	18 24+0 0.4P*							
817	22	0 02+0 03P*							
818	22	3 17+0 01P*							
819	22	13 20+0 0.3P*							
820	22	19 17+0 0.2P*							
821	23	2 03+0 20r						2 03+0 12P	G
822	23	10 00+0 0.4P*							
823	23	19 12+0 0.6v*				19 41+0 33L			H
824	23								J
825	23	21 48+0 0.8v*							
826	24	5 42+1 25u							

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EARTHQUAKE CORRELATION TABLE

December, 1947

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S.	Seven Falls W. A.	Shawinigan	**
827	24	16 44+0 01P*	16 57+0 09L						.
828	24		17 42+0 04L						.
829	24	17 43+0 01P*	17 54+0 11r						.
830	25	6 08+0 0.6P*							.
831	25	18 28+0 0.4P*							.
832	26	2 15+0 0.7P*							.
833	26	17 03+1 16u	17 08+1 08u			17 47+0 29L			.
834	26	18 03+0 0.2P*							.
835	26		20 16+0 49u			20 54+0 20L			.
836	27	3 26+0 0.3P*							.
837	27	16 21+0 0.1P*							.
838	28	2 59+0 0.6P*							.
839	28	4 23+0 0.3P*							K
840	28	19 59+0 06V*					19 59+0 03V	19 59+0 04V	L
841	28	20 45+0 01v*	19 01+0 23L						.
842	29		2 04+1 14u	2 14+0 33L	2 14+0 11L	2 12+0 46L			M
843	30	2 02+0 37r							.
844	30	7 06+0 0.7P*							.
845	30	7 40+0 0.6P*							.
846	30	14 07+0 0.2P*							.
847	30	17 00+0 0.6P*							.
848	30	17 33+0 0.8P*							.
849	30	18 03+0 0.4P*							.
850	31		5 57+0 10L	5 54+0 08L					.
851	31	15 56+0 32L				15 58+0 44L			.

CORRELATION OF EARTHQUAKES

December, 1947

N O T E S

A	:	Ottawa	$\Delta =$	150 km.	$H = 16^h59^m.2$ U.T.
B	:	Ottawa	$\Delta =$	150 km.	$H = 20^h33^m.4$ U.T.
C	:	Ottawa	$\Delta =$	150 km.	$H = 20^h41^m.5$ U.T.
D	:	Ottawa	$\Delta =$	210 km.	$H = 22^h54^m.5$ U.T.
E	:	Ottawa	$\Delta = 13{,}900$ km.	$H = 19^h20^m.3$ U.T.
		Victoria	$\Delta = 12{,}800$ km.	$H = 19\ 20.8$ U.T.
F	:	Ottawa	$\Delta =$	150 km.	$H = 19^h19^m.8$ U.T.
G	:	Ottawa	$\Delta = 3{,}540$ km.	$H = 1^h56^m.2$ U.T.
H	:	Ottawa	$\Delta =$	150 km.	$H = 19^h11^m.7$ U.T.
J	:	Ottawa	$\Delta =$	230 km.	$H = 21^h46^m.9$ U.T.
K	:	Ottawa	$\Delta =$	475 km.	$H = 19^h58^m.3$ U.T.
		Shawinigan Falls	$\Delta =$	320 km.	$H = 19\ 58.2$ U.T.
		Seven Falls	$\Delta =$	255 km.	$H = 19\ 58.3$ U.T.
L	:	Ottawa	$\Delta =$	150 km.	$H = 20^h44^m.7$ U.T.
M	:	Ottawa	$\Delta = 4{,}280$ km.	$H = 1^h54^m.9$ U.T.

Dominion Observatory,

OTTAWA, CANADA.

January 22, 1948.

CORRELATION TABLE

The numbered pages of the bulletin list only those earthquakes for which two or more phases are recorded. The tabulation which follows not only provides a yearly numbered list of all earthquakes recorded in Canada but also correlates the seismic registrations of the six Canadian stations. 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.