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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM January 1, 1948 to January 4, 1948 No. 1

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
2 Jan. 1	H	18 33.8	430	Felt at St. Anne-de-Beaupre, Quebec.
	P_3	18 34 48.5		Epicentre φ = 47°20' N.
	P_2	18 34 56		λ = 70°55' W.
	S_3	18 35 35		
	S_1	18 35 55		
	F	18 44		
		Seven Falls		
	H	18 33.8	25	
	P_1	18 33 53		
	S_1	18 33 58		
	F	18 37		
		Shawinigan Falls		
	H	18 33.8	188	
	P_2	18 34 17.3		
	P_1	18 34 20.6		
	S_3	18 34 36.8		
	S_1	18 34 42.8		
	F	18 44		
		Seven Falls		
3 Jan. 1	H	18 44.8	25	
	P_1	18 44 51		
	S_1	18 44 54.3		
	F	18 45.4		
		Ottawa		
6 Jan. 3	H	22 08.3	150	
	P_2	22 08 39.5		
	S_2	22 08 57		
	e	22 09 06		
	F	22 10		
		Ottawa		
7 Jan. 4	i_Z	9 14 09		USCGS gives:
	L	9 21		φ = 21° S.
	F	9 42		λ = 180°
				d = 600 km.
		Victoria		
	i	9 17 26		
	i_E	9 21 19		
	F	9 25		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM January 4, 1948 to January 6, 1948 No. 2

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
9 Jan. 4	H	14 57.8	220	
	P_2	14 58 25		
	S_2	14 58 50		
	F	14 59.5		
		Ottawa		
11 Jan. 6	H	17 23.5	3,650	USCGS gives:-
	P	17 30 09		φ = 16°5 N.
	e	17 32 44		λ = 98° W.
	S	17 35 35		
	L	17 38 24		
	F	19 25		
		Victoria		
	H	17 23.3	4,060	
	P	17 30 24		
	PPP	17 32 00		
	S	17 36 15		
	L	17 42		
	F	18 20+		
		Saskatoon		
	H	17 23.4	3,920	
	P	17 30 21		
	PPP	17 31 43		
	S	17 36 04		
	SSS	17 38 43		
	L	17 44		
	F	18 18+		
		Halifax		
	H	17 23.2	4,620	
	P	17 30 58		
	PP	17 32 34		
	S	17 37 22		
	SS	17 40.0		
	L	17 46		
	F	18 41		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM January 6, 1948 to January 6, 1948 No. 3

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
11 Jan. 6 (cont'd)	H	17 23.3	4,230	
	P	17 30 38		
	PP	17 32 12		
	e	17 34 36		
	S	17 36 40		
	SS	17 39 32		
	L	17 43		
	F	19 48		
		Shawinigan Falls		
	H	17 23.3	4,140	
	P	17 30 30		
	e	17 33 01		
	S	17 36 26		
	SS	17 38 57		
	L	17 43		
	F	18 45		
		Ottawa		
16 Jan. 6	H	20 46.9	490	
	P_2	20 48 12		
	S_3	20 48 55.5		
	S_2	20 49 07		
	e	20 49 13.5		
	F	20 52		
		Seven Falls		
	H	20 46.8	245	
	P_2	20 47 28		
	S_2	20 47 55.5		
	S_1	20 47 58		
	F	20 50		
		Shawinigan Falls		
	H	20 46.8	330	
	P_2	20 47 39.5		
	S_2	20 48 16		
	S_1	20 48 21.5		
	F	20 51		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM January 6, 1948 to January 16, 1948 No. 4

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
17 Jan. 7	H	20 15.0	150	
	P_2	20 15 24.5		
	S_2	20 15 41.5		
	e	20 15 50		
	F	20 16.1		
		Victoria		
23 Jan. 10	e	5 38.0		USCGS gives:- φ = 20° S. λ = 169° E.
	L	5 51		
	F	6 34		
		Ottawa		
25 Jan. 14	H	2 26.0	6,620	USCGS gives:- φ = 10° S. λ = 109° W.
	P_Z	2 36 00		
	S	2 44 16		
	SS	2 48.4		
	SSS	2 50.6		
	L	2 56		
	F	3 40		
		Victoria		
	e	2 43 46		
	L	2 50		
	F	3 55		
		Ottawa		
26 Jan. 14	H	19 17.1	150	
	P_2	19 17 30		
	S_2	19 17 47.5		
	e	19 17 56		
	F	19 18.5		
		Ottawa		
28 Jan. 16	H	6 03.3	780	Epicentre probably east of the Saguenay River and north of the St. Lawrence River.
	P_2	6 05 16.5		
	P_1	6 05 40		
	e	6 05 48.5		
	S_3	6 06 22		
	S_2	6 06 46		
	S_1	6 07 12		
	F	6 09.5		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM January 16, 1948 to January 16, 1948 No. 5

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
28 Jan. 16 (cont'd)	H	6 03.2	250	
	P_2	6 03 50.5		
	P_1	6 03 54.5		
	S_3	6 04 14.8		
	S_2	6 04 19		
	e	6 04 32		
	F	6 07		
		Shawinigan Falls		
	H	6 03.2	445	
	P_2	6 04 23.5		
	e	6 04 56.5		
	S_3	6 05 00		
	S_2	6 05 13.5		
	e	6 05 27		
	F	6 08		
		Ottawa		
29 Jan. 16	H	11 08.8	7,080	USCGS gives:-
	P_Z	11 19 18		φ = 52° N.
	S	11 28.0		λ = 172° E.
	SSS_E	11 35		h = 100 km.
	L	11 40		
	F	12 17		
		Victoria		
	H	(11 08.1)	4,380	No clock correction.
	P_E	11 15 34		
	PP	11 17 15		
	S_N	11 21 45		
	SS	11 24.4		
	L	11 27		
	F	13 10		
		Saskatoon		
	e	11 24		
	L	11 31		
	F	12 32		
		Seven Falls		
	e	11 19 26		
	L	11 30		
	F	12 45		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM January 16, 1948 to January 20, 1948 No. 6

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
31 Jan. 17	H	7 12 ca	11,700 ca	USCGS gives:-
	PP_E	7 30.5		φ = 15° N.
	SKS	7 36 10		λ = 147° E.
	S_E	7 37 30		h = 100 km.
	PS_E	7 39 16		
	SS_E	7 44 52		
	SSS_N	7 49.0		
	L	8 00		
	F	9 09		
		Victoria		
	H	(7-11.5)	8,250	No clock correction.
	P	7 23.0		
	S	7 32 38		
	SS	7 37.6		
	L	7 43		
	F	9 09		
		Saskatoon		
	i	7 34 19		
	L	7 47		
	F	8 45		
		Seven Falls		
	e	7 39.6		
	e	7 45.5		
	L	7 55		
	F	8 28		
		Ottawa		
32 Jan. 17	H	16 35.5	150	
	P_2	16 35 56		
	S_2	16 36 13.5		
	e	16 36 21		
	F	16 36.7		
		Ottawa		
35 Jan. 20	H	9 44.0	13,700	USCGS gives:-
	P_2	10 02 58		φ = 33° S.
	PP	10 04 33		λ = 179° E.
	PS_E	10 14 28		
	SS_E	10 21 32		
	L	10 38		
	F	11 40		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM January 20, 1948 to January 24, 1948 No. 7

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
35 Jan. 20 (cont'd)	e_N	10 04.2		
	e_N	10 07.8		
	e_E	10 08 49		
	e	10 28		
	L	10 33		
	F	11 35		
		Saskatoon		
	e	10 12.2		
	e	10 17.7		
	L	10 34		
	F	11 34		
		Ottawa		
40 Jan. 21	H	19 01.5	150	
	P_2	19 01 52.5		
	P_1	19 01 54.5		
	S_2	19 02 11		
	S_1	19 02 14		
	e	19 02 19.5		
	F	19 02.5		
		Victoria		
41 Jan. 22	i	14 17 54		
	L	14 30		
	F	15 09		
		Ottawa		
44 Jan. 24	H	17 46.7	13,500	USCGS gives:- $\varphi = 10^\circ$ N. $\lambda = 122^\circ$ E.
	P	18 05 38		
	PP	18 07 12		
	PPP	18 09 30		
	SKS	18 12 36		
	S	18 15 02		
	PS	18 16 52		
	SS	18 23 38		
	SSS	18 27.5		
	L	18 41		
	F	20 46		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM January 24, 1948 to January 24, 1948 No. 8

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
44 Jan. 24 (cont'd)	H	17 46.7	10,900	
	P	18 00 18		
	PP	18 04 18		
	SKS	18 10 54		
	S_N	18 11 48		
	PS_E	18 12 54		
	PPS	18 13 59		
	SS	18 18 14		
	SSS	18 22 03		
	L	18 31		
	F	22 26		
		Saskatoon		
	H	17 46.6	11,800	
	PP	18 05 04		
	SKS	18 11 27		
	S	18 12 42		
	PPS	18 15 12		
	SS	18 20 16		
	SSS	18 24 01		
	L	18 37		
	F	21 55		
		Halifax		
	H	17 47 ca	13,500	ca
	PP	18 07.3		
	SKS	18 13		
	PS	18 17.3		
	SS	18 24		
	L	18 40		
	F	20 26		
		Seven Falls		
	H	17 46.7	13,500	
	P'	18 05 38		
	PP	18 07 09		
	SKP	18 08.5		
	SKKS	18 14.2		
	PS	18 17.3		
	PPS	18 18.3		
	SS	18 23.7		
	SSS	18 27.5		
	L	18 43		
	F	22 15		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM January 24, 1948 to January 26, 1948 No. 9

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
44 Jan. 24 (cont'd)	H	17 46.7	13,350	
	P'	18 05 39		
	PP	18 07 09		
	SKP	18 08.4		
	SKS	18 10.8		
	SKKS	18 12.5		
	PS	18 16.2		
	L	18 41		
	F	19 42		
		Ottawa		
50 Jan. 26	H	14 10.7	13,500	USCGS gives:- φ = 10° N. λ = 122° E.
	P'	14 29 36		
	SKKS	14 38		
	PS_N	14 41.2		
	SS_E	14 47.7		
	SSS_N	14 51.5		
	L	15 01		
	F	16 03		
		Victoria		
	e	14 34 21		
	L	14 57		
	F	16 24		
		Saskatoon		
	e	14 36 41		
	L	14 56		
	F	15 50		
		Seven Falls		
	e	14 48.0		
	L	15 00		
	F	16 15		
		Ottawa		
52 Jan. 26	eZ	19 05 27		
	eZ	19 09 00		
	L	19 18		
	F	19 33		

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SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 26, 1948 to January 27, 1948 No. 10

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
55 Jan. 27	e_Z	12 15 53		USCGS gives:-
	e_E	12 20.0		φ = 20° S.
	e_N	12 23 52		λ = 178° W.
	e_E	12 25.7		d = 600 km.
	e_N	12 27 50		
	e_E	12 29.5		
	e_N	12 32 00		
	e_N	12 35 40		
	e_N	12 40 00		
	F	12 52+		
		Victoria		
	H	(11 58.1)	8,080	No clock correction
	P	12 09 26		
	e	12 11 34		
	e	12 12 41		
	S	12 18 56		
	SS	12 23 00		
	L	12 32		
	F	13 54		
		Saskatoon		
	H	11 58.3	135500	
	P	12 13.8		
	PPP	12 21 22		
	SKS	12 23 59		
	SKKS	12 25 22		
	S	12 26 26		
	F	13 48		
		Seven Falls		
	H	11 58.6	13,300	
	e	12 16 07		
	SKP	12 20.3		
	SKKS	12 26 10		
	S	12 27 36		
	PPS	12 30.02		
	SS	12 35.7		
	L	13 00		
	F	14 30		

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SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 27, 1948 to January 28, 1948 No. 11

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
56 Jan. 27	e_Z	12 26 53		
	e_Z	12 29 20		
	e_N	12 53		
	e_E	12 59		
	L	13 05		
	F	13 33		
		Ottawa		
58 Jan. 27	H	19 17.1	150	
	P_2	19 17 28		
	S_2	19 17 45		
	e	19 17 53		
	F	19 18.2		
		Ottawa		
59 Jan. 28	H	3 47.3	14,400	USCGS gives:-
	P_Z	4 06 26		φ = 10° N.
	PP	4 08 28		λ = 122° E.
	SKP	4 09 41		
	PS_N	4 19.3		
	e_N	4 21 24		
	SSS	4 30.4		
	L	4 41		
	F	5 25		
		Victoria		
	e	4 11 11		
	e_N	4 23 08		
	L	4 29		
	F	5 17		
		Saskatoon		
	H	3 47.1	12,600	
	PP	4 06 30		
	SKS	4 12 26		
	SKKS	4 13 22		
	PS	4 15 57		
	SS	4 21 47		
	L	4 47		
	F	5 20		

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SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

FROM January 28, 1948 to January 31, 1948 No. 12

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
60 Jan. 28	e_Z	16 04 28		USCGS gives:-
	e	16 15 10		φ = 38° N.
	e_N	16 32 20		λ = 68° E.
	L	16 40		
	F	17 05		
		Saskatoon		
64 Jan. 29	e	13 33.2		
	L	13 35		
	F	13 39		
		Ottawa		
68 Jan. 30	e_N	9 11.0		USCGS gives:-
	e_N	9 16		φ = 24° N.
	L	9 33		λ = 64° E.
	F	11 06		
		Victoria		
	e_N	9 01 15		
	e_N	9 07 30		
	e_N	9 11 37		
	L	9 36		
	F	11 08		
		Saskatoon		
	e	9 08 40		
	e	9 16.7		
	L	9 28		
	F	11 17		

W. W. Doyle.

EARTHQUAKE CORRELATION TABLE

January, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M.S.	W.A.		
35	20	10 03+1 37u	10 04+1 31u	10 12+1 22u	.....	10 48+1 22L	.....	.....	P
36	20	20 35+0 02P*	.....	.....	.....	.....	.....	.....	..
37	20	20 46+0 0.2P*	.....	.....	.....	.....	.....	.....	..
38	20	17 17+0 0.4P*	.....	.....	.....	.....	.....	.....	..
39	21	18 26+0 04P*	.....	.....	.....	.....	.....	18 26+0 02P	..
40	21	19 02+0 0.6v*	.....	.....	.....	.....	.....	.....	Q
41	22	.....	14 18+0 51y	14 20+0 13P	.....	.....	.....	.....	..
42	22	20 21+0 03P*	.....	.....	.....	.....	.....	.....	..
43	23	20 57+0 0.2P*	.....	.....	.....	.....	.....	.....	..
44	24	18 06+2 40U	18 00+4 26U	18 05+3 50U	18 07+2 19U	18 07+4 08U	18 06+1 41U	18 06+1 37U	R
45	24	18 15+0 01P*	.....	.....	.....	.....	.....	.....	..
46	24	19 22+0 01P*	.....	.....	.....	.....	.....	.....	..
47	24	21 55+0 01P*	.....	.....	.....	.....	.....	.....	..
48	24	23 15+0 03P*	23 26+0 08L	.....	.....	.....	.....	.....	..
49	26	2 25+0 01P*	.....	.....	.....	.....	.....	.....	..
50	26	14 30+1 33u	14 34+1 50u	14 37+1 13u	.....	14 48+1 27u	.....	.....	S
51	26	15 04+0 0.1P*	.....	.....	.....	.....	.....	.....	..
52	26	19 05+0 28u	19 00+0 43L	19 08+0 25L	.....	.....	.....	.....	..
53	26	20 03+0 0.3P*	19 56+0 07L	.....	.....	.....	.....	.....	..
54	26	20 38+0 0.4P*	20 33+0 04L	.....	.....	.....	.....	.....	..
55	27	12 16+0 37u	12 09+1 45u	12 14+1 34u	.....	12 20+2 10u	12 16+0 08P	.....	T
56	27	12 27+1 06u	.....	.....	.....	.....	.....	.....	..
57	27	15 00+0 11P*	.....	.....	.....	.....	.....	.....	..
58	27	19 17+0 01v*	.....	.....	.....	.....	.....	.....	U
59	28	4 06+1 19u	4 11+1 06u	4 06+1 14u	.....	4 22+1 23L	4 08+0 07P	4 06+0 07P	V
60	28	16 04+1 01u	16 41+0 36L	16 41+0 28L	.....	16 34+0 54L	.....	.....	..
61	28	.....	20 34+0 04L	.....	.....	.....	.....	.....	..
62	28	.....	22 25+0 02L	.....	.....	.....	.....	.....	..
63	29	3 57+0 01P*	.....	.....	.....	.....	.....	.....	..
64	29	13 29+0 0.7P*	.....	13 33+0 06r	.....	.....	.....	.....	..
65	29	13 41+0 03P*	.....	.....	.....	.....	13 41+0 04P	13 41+0 04P	..
66	30	.....	3 35+0 12L	3 39+0 09L	.....	.....	.....	.....	..
67	30	6 48+0 02P*	.....	.....	.....	.....	.....	.....	..
68	30	9 11+1 55u	9 01+2 07u	9 09+2 08u	.....	9 19+1 22L	.....	.....	..

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EARTHQUAKE CORRELATION TABLE

January, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M.S.	W.A.		
1	1	10 27+0 0.6P*	.....	.....	.....	.....	.....	.....	..
2	1	18 35+0 09V*	.....	.....	.....	18 34+0 02D	18 34+0 03D	18 34+0 10V	A
3	1	18 47+0 0.4v*	.....	.....	.....	.....	18 45+0 0.5d	.....	B
4	2	15 27+0 01P*	.....	.....	.....	.....	.....	.....	..
5	2	18 05+0 0.3P*	.....	.....	.....	.....	.....	.....	..
6	3	22 09+0 01v*	.....	.....	.....	.....	.....	.....	C
7	4	9 14+0 28u	9 17+0 08u	9 19+0 07P	.....	.....	.....	.....	..
8	4	9 25+0 0.7P*	.....	.....	.....	.....	.....	.....	..
9	4	14 58+0 01v*	.....	.....	.....	.....	.....	.....	D
10	6	9 03+0 03P*	.....	.....	.....	.....	.....	.....	..
11	6	17 30+1 55R	17 30+0 50R	17 30+0 48R	17 31+1 10R	17 31+2 17R	17 31+1 02R	17 30+1 15R	E
12	6	17 47+0 02P*	.....	.....	.....	.....	.....	.....	..
13	6	18 07+0 08P*	18 19+0 32L	18 19+0 53L	.....	.....	.....	.....	..
14	6	18 16+0 03P*	.....	.....	.....	.....	.....	.....	..
15	6	19 33+0 0.7P*	.....	.....	.....	.....	.....	.....	..
16	6	20 48+0 04v*	.....	.....	.....	.....	20 47+0 03	20 48+0 03	F
17	7	20 15+0 0.7v*	.....	.....	.....	.....	.....	.....	G
18	8	8 50+0 03P*	.....	.....	.....	.....	.....	.....	..
19	8	8 56+0 02P*	.....	.....	.....	.....	.....	.....	..
20	8	23 40+0 0.7P*	.....	.....	.....	.....	.....	.....	..
21	9	9 10+0 01P*	.....	.....	.....	.....	.....	.....	..
22	10	1 04+0 07L	0 49+0 07L	0 54+0 07L	.....	.....	.....	.....	..
23	10	6 11+0 27L	5 38+0 56u	5 54+0 52L	.....	6 13+0 35L	.....	.....	..
24	13	18 18+0 07L	.....	.....	.....	.....	.....	.....	..
25	14	2 36+1 04u	2 44+1 11u	2 55+0 38L	.....	2 55+0 15L	.....	.....	H
26	14	19 17+0 01v*	.....	.....	.....	.....	.....	.....	J
27	15	5 21+0 02P*	.....	.....	.....	.....	.....	.....	..
28	16	6 05+0 04v*	.....	.....	.....	.....	6 04+0 03v	6 04+0 04v	K
29	16	11 19+0 58u	11 16+1 54r	11 24+1 08u	11 46+0 19L	11 30+1 15L	11 19+0 03P	11 19+0 03P	L
30	17	2 56+0 31L	2 51+0 09L	.....	.....	.....	.....	.....	..
31	17	7 30+1 39u	7 23+1 46u	7 34+1 11u	8 04+0 29L	7 40+0 48u	.....	.....	M
32	17	16 36+0 0.8v*	.....	.....	.....	.....	.....	.....	N
33	19	2 35+0 02P*	.....	.....	.....	.....	2 35+0 01P	2 35+0 01P	..
34	19	7 57+0 01P*	7 57+0 05L	.....	.....	.....	.....	.....	..

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CORRELATION OF EARTHQUAKES

January, 1948

N O T E S

A :	Ottawa	Δ =	430 km.	H = 18^h33^m8 U.T.
	Seven Falls	Δ =	25 km.	H = 18 33.8 U.T.
	Shawinigan Falls	Δ =	188 km.	H = 18 33.8 U.T.
B :	Ottawa	Δ =	25 km.	H = 18^h44^m8 U.T.
C :	Ottawa	Δ =	150 km.	H = 22^h08^m3 U.T.
D :	Ottawa	Δ =	220 km.	H = 14^h57^m8 U.T.
E :	Ottawa	Δ =	3,650 km.	H = 17^h23^m5 U.T.
	Victoria	Δ =	4,060 km.	H = 17 23.3 U.T.
	Saskatoon	Δ =	3,920 km.	H = 17 23.4 U.T.
	Halifax	Δ =	4,620 km.	H = 17 23.2 U.T.
	Seven Falls	Δ =	4,230 km.	H = 17 23.3 U.T.
	Shawinigan Falls	Δ =	4,140 km.	H = 17 23.3 U.T.
F :	Ottawa	Δ =	490 km.	H = 20^h46^m9 U.T.
	Seven Falls	Δ =	245 km.	H = 20 46.8 U.T.
	Shawinigan Falls	Δ =	330 km.	H = 20 46.8 U.T.
G :	Ottawa	Δ =	150 km.	H = 20^h15^m0 U.T.
H :	Ottawa	Δ =	6,620 km.	H = 2^h26^m0 U.T.
J :	Ottawa	Δ =	150 km.	H = 19^h17^m1 U.T.
K :	Ottawa	Δ =	780 km.	H = 6^h03^m3 U.T.
	Seven Falls	Δ =	250 km.	H = 6 03.2 U.T.
	Shawinigan Falls	Δ =	445 km.	H = 6 03.2 U.T.
L :	Ottawa	Δ =	7,080 km.	H = 11^h08^m8 U.T.
	Victoria	Δ =	4,380 km.	H = (11 08.1) U.T.
M :	Ottawa	Δ =	11,700 km.	H = 7^h12^m U.T.
	Victoria	Δ =	8,250 km.	H = 7 11.5 U.T.
N :	Ottawa	Δ =	150 km.	H = 16^h35^m5 U.T.
P :	Ottawa	Δ =	13,700 km.	H = 9^h44^m0 U.T.
Q :	Ottawa	Δ =	150 km.	H = 19^h01^m5 U.T.
R :	Ottawa	Δ =	13,500 km.	H = 17^h46^m7 U.T.
	Victoria	Δ =	10,900 km.	H = 17 46.7 U.T.
	Saskatoon	Δ =	11,800 km.	H = 17 46.6 U.T.
	Halifax	Δ =	13,500 km.	H = 17 47 U.T.
	Seven Falls	Δ =	13,500 km.	H = 17 46.7 U.T.
	Shawinigan Falls	Δ =	13,350 km.	H = 17 46.7 U.T.
S :	Ottawa	Δ =	13,500 km.	H = 14^h10^m7 U.T.
T :	Victoria	Δ =	8,080 km.	H = (11^h58^m1) U.T.
	Saskatoon	Δ =	13,500 km.	H = 11 58.3 U.T.
	Seven Falls	Δ =	13,300 km.	H = 11 58.6 U.T.
U :	Ottawa	Δ =	159 km.	H = 19^h17^m1 U.T.
V :	Ottawa	Δ =	14,400 km.	H = 3^h47^m3 U.T.
	Saskatoon	Δ =	12,600 km.	H = 3 47.1 U.T.

Dominion Observatory,
OTTAWA, CANADA.
March 16, 1948.

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SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED
	December, 1947	
Strasbourg	November, 1947; Supplement October, 1947	December 2
Bureau Central	August, September, 1947	" 2
Wellington	Year 1945	" 3
Almeria	January, 1947	" 3
Wellington	September, 1947	" 3
De Bilt	Years 1942, 1943, October, 1947	" 5
Ksara	September, 1947	" 8
Saint Louis and Auxiliary Stations	Preliminaries October 3, 5, 6, 7, September 4, 22, 23	" 9
Brisbane	September, 1947	" 9
Almeria	February, March, 1947	" 10
Rome	October, 1947	" 10
Rio de Janeiro	1940 to 1944	" 11
Helsinki	July to September, 1947	" 11
Brisbane	October, 1947	" 13
Zurich	October, 1947	" 16
Santa Clara	November, 1947	" 17
Harvard	January 1 to June 30, 1947	" 17
Richmond	October, 1947	" 17
Strasbourg	October, November, 1947	" 26
Bureau Central	August, 1947; Supplement July, 1947	" 26
Belgrade	October, 1947	" 27
De Bilt	November, 1947	" 27
Firenze	September, October, 1947	" 27
Trieste	September, October, 1947	" 27
Apia	July to September, 1947	" 31
Istanbul	September to November, 1947	" 31
	January, 1948	
Pasadena	January to March, 1947; Preliminaries October 7 to December, 1947	January 2
Almeria	April, 1947	" 2
U.S.C.G.S.	Year, 1945	" 9
Ksara	October, November, 1947	" 12
Kew	November, 1947	" 12
Trieste	December 1 - 19, 1947	" 12
Santa Clara	December, 1947	" 14
Rome	November, 1947	" 14
Chile	Years 1942 - 1946	" 14
De Bilt	1942, 1943	" 16
U.S.C.G.S.	October - December, 1944	" 19
U.C.C.L.E.	October - November, 1947	" 21
Reykjavik	Year, 1943	" 21
Saint Louis and Auxiliary Stations	Preliminaries - July 24, October 3, 10, 14, 1947; Supplement - July, 1947	" 26
Apia	October - December, 1947	" 28
Belgrade	November, December, 1947	" 31

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24 JUN 1948 EDINBURGH

DEPARTMENT OF MINES AND RESOURCES

MINES; FORESTS AND SCIENTIFIC SERVICES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

February, 1948

00000

DOMINION OBSERVATORY

OTTAWA - CANADA

00000

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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 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.

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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.

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM February 1, 1948 to February 6, 1948 No. 13

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
69 Feb. 1	eZ	20 46 43		
	L	21 31		
	F	21 51		
		Victoria		
73 Feb. 3	e	12 03.7		
	L	12 20		
	F	12 37		
		Ottawa		
74 Feb. 3	H	16 28.5	150	
	P_2	16 28 56.5		
	S_2	16 29 13.5		
	e	16 29 21		
	F	16 29.7		
		Saskatoon		
75 Feb. 4	e	2 26 31		
	L	2 30		
	F	3 14		
		Ottawa		
82 Feb. 6	H	20 55.1	265	
	P_3	20 55 47		
	P_2	20 55 49.5		
	S_2	20 56 17		
	e	20 56 40		
	F	20 57		
		Shawinigan Falls		
	H	20 55.1	215	
	P_2	20 55 38.5		
	S_3	20 56 02		
	S_2	20 56 04		
	F	20 56.6		
		Ottawa		
84 Feb. 6	eZ	21 29 21		Felt at Aklavik, N.W.T.
	e	21 32 36		
	L	21 33.7		
	F	21 43		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM February 6, 1948 to February 9, 1948 No. 14

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
84 Feb. 6 (cont'd)	e	21 29 32		
	L	21 34		
	F	21 45		
		Ottawa		
85 Feb. 6	e_Z	23 09 22		
	L	23 28		
	F	23 55		
		Ottawa		
89 Feb. 9	H	12 58.3	8,160	USCGS gives:- φ = 37° N. λ = 26° E.
	P_Z	13 09 47		
	i	13 09 51		
	PP	13 12 32		
	PPP	13 14 16		
	iS	13 19 21		
	SS_E	13 24.3		
	SSS	13 27.4		
	L	13 32		
	F	16 28		
		Victoria		
	H	12 58.2	9,420	
	P	13 10 41		
	PP	13 14.0		
	S	13 21 11		
	SSS	13 30.1		
	L	13 40		
	F	16 26		
		Saskatoon		
	H	12 58.5	9,140	
	P	13 10 51		
	S	13 21 08		
	SS	13 26 42		
	SSS	13 29.8		
	L	13 37		
	F	15 53		

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SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, CANADA

FROM February 9, 1948 to February 11 1948 No. 15

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Halifax		
89 Feb. 9 (cont'd)	H	12 58.5	7,200	
	P	13 09 05		
	S	13 17 53		
	SS	13 22.4		
	SSS	13 24.9		
	L	13 28		
	F	14 12		
		Shawinigan Falls		
	H	12 58.5	7,790	
	P	13 09 36		
	S	13 18 50		
	L	13 29		
	F	13 50		
		Ottawa		
98 Feb. 11	H	15 41.9	4,680	USCGS gives:- φ = 64° N. λ = 147° W.
	P	15 49 47		
	S	15 56 14		
	SS	15 58 45		
	SSS	16 00 12		
	L	16 03.2		
	F	16 48		
		Victoria		
	H	15 41.8	2,250	
	P	15 46 26		
	S	15 50 11		
	L	15 51 30		
	F	17 02		
		Saskatoon		
	H	15 41.9	2,700	
	P	15 47 11		
	S	15 51 33		
	L	15 54 03		
	F	16 51		
		Halifax		
	eN	16 01.1		
	L	16 07		
	F	16 22		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM February 11, 1948 to February 14, 1948 No. 16

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
98 Feb. 11 (cont'd)	H	15 42.2	4,550	
	P	15 49 54		
	S	15 56 14		
	SS	15 59 19		
	SSS	15 59 47		
	L	16 02		
	F	16 50		
		Shawinigan Falls		
	e	15 49 50		
	L	16 03		
	F	16 11		
		Victoria		
100 Feb. 11	e	17 28.9		
	L	17 31		
	F	17 41		
		Ottawa		
106 Feb. 13	e_Z	5 10 44		
	L	5 41		
	F	6 17		
		Victoria		
	e	5 21		
	L	5 42		
	F	6 29		
		Ottawa		
108 Feb. 13	H	21 28.3	150	
	P_2	21 28 43.5		
	S_2	21 29 01		
	S_1	21 29 04.5		
	e	21 29 10		
	F	21 30.5		
		Ottawa		
112 Feb. 14	e_Z	22 09 55		USCGS gives:- φ = 64° N. λ = 147° W.
	L	22 23.5		
	F	22 42		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM February 14, 1948 to February 18, 1948 No. 17

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
112 Feb. 14 (cont'd)	H	22 04.5	1,570	
	P_N	22 07 54		
	S	22 10 40		
	L	22 11.5		
	F	23 01		
		Saskatoon		
	e	22 12.3		
	L	22 14.5		
	F	22 37		
		Seven Falls		
	e	22 18.4		
	i	22 24 51		
	L	22 31		
	F	22 52		
		Shawinigan Falls		
	e	22 10 12		
	L	22 24		
	F	22 31		
		Ottawa		
117 Feb. 15	H	19 52.7	145	
	P_2	19 53 04.5		
	P_1	19 53 08		
	S_2	19 53 21.5		
	S_1	19 53 25		
	e	19 53 31		
	F	19 54.5		
		Ottawa		
121 Feb. 16	H	22 14.5	210	
	P_2	22 15 03		
	S_2	22 15 27		
	e	22 15 39		
	F	22 15.8		
		Ottawa		
124 Feb. 18	H	20 29.9	5,320	USCGS gives:- $\varphi = 82^\circ$ N. $\lambda = 43^\circ$ E.
	P	20 38 33		
	PP	20 40 35		
	S	20 45 36		
	SS	20 48 24		
	L	20 51		
	F	21 50		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM February 18, 1947 to February 20, 1948 No. 18

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
124 Feb. 18 (cont'd)	H	20 29.9	5,350	
	P	20 38 33		
	S	20 45 37		
	SS	20 48.9		
	L	20 53		
	F	21 51		
		Saskatoon		
	H	20 30.0	4,450	
	PP	20 39 48		
	S	20 44 40		
	SSS	20 48.0		
	L	20 51		
	F	21 48		
		Halifax		
	H	20 30.0	5,200	
	P	20 38 32		
	PP	20 40 24		
	S	20 45 28		
	SS	20 48.8		
	L	20 53		
	F	21 21		
		Seven Falls		
	H	20 30.0	5,020	
	P	20 38 18		
	S	20 45 04		
	SS	20 48 18		
	SSS	20 49.2		
	L	20 52		
	F	22 23		
		Seven Falls		
129 Feb. 19	H	15 45.5	35	
	P_1	15 45 35.5		
	S_1	15 45 40		
	F	15 46.6		
		Ottawa		
131 Feb. 20	H	19 53.4	210	
	P_2	19 54 00.5		
	S_2	19 54 24.5		
	e	19 54 37		
	F	19 55		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM February 20, 1948 to February 28, 1948 No. 19

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
132 Feb. 23	i_Z	9 44 31		
	L	10 09		
	F	11 41		
		Saskatoon		
	e	9 51		
	L	10 08		
	F	11 50		
		Ottawa		
135 Feb. 23	H	15 12.1	150	
	P_2	15 12 27.5		
	S_2	15 12 45		
	e	15 12 57		
	F	15 14.2		
		Ottawa		
141 Feb. 24	e_Z	8 22 07		
	L	8 34		
	F	8 43		
		Saskatoon		
	e	8 24.0		
	L	8 27		
	F	8 38		
		Ottawa		
143 Feb. 28	H	1 58.1	4,090	USCGS gives:-
	P	2 05 18		φ = 53°5 N.
	S	2 11 11		λ = 133° W.
	L	2 16.3		
	F	3 31		
		Victoria		
	H	1 58.0	895	
	P	2 00 00		
	iS	2 01 34		
	iL	2 02 12		
	F	3 36		
		Saskatoon		
	H	1 58.3	1,660	
	P	2 01 51		
	S	2 04 45		
	L	2 05.5		
	F	3 31		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM February 28, 1948 to February 29, 1948 No. 20

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Halifax		
143 Feb. 28 (cont'd)	e	2 16.3		
	L_g	2 21		
	F	2 57		
		Seven Falls		
	H	1 58.2	4,300	
	P	2 05 35		
	PP	2 07 03		
	S	2 11 41		
	SS	2 14 11		
	L	2 18.2		
	F	3 52		
		Shawinigan Falls		
	H	1 58.0	4,290	
	P	2 05 27		
	S	2 11 33		
	SS	2 14 42		
	L	2 18		
	F	2 35		
		Ottawa		
144 Feb. 28	H	21 19.2	165	
	P_2	21 19 38		
	S_2	21 19 57		
	i	21 20 02		
	e	21 20 08		
	F	21 21.4		
		Shawinigan Falls		
	H	21 19.2	228	
	P_2	21 19 47.5		
	S_2	21 20 13.5		
	S_1	21 20 20		
	F	21 21		
		Ottawa		
145 Feb. 29	e_Z	4 47 39		
	L	4 59		
	F	5 13		

W. W. Dorsee,

EARTHQUAKE CORRELATION TABLE
February, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
69	1	20 47+1 04u	.....	.....	.....	.....	.....	.....	..
70	2	.....	0 13+0 09L	.....	.....	.....	.....	.....	...
71	2	5 42+0 02P*	.....	.....	.....	.....	.....	5 42+0 01P.	..
72	3	.....	1 08+0 17L	1 14+0 16L	.....	.....	.....	.....	..
73	3	.....	12 04+0 33u	12 29+0 16L	.....	.....	.....	.....	..
74	3	16 29+0 0.8v*	.....	.....	.....	.....	.....	.....	A
75	4	2 37+0 35L	2 24+0 42L	2 27+0 47r	2 44+0 11L	2 39+0 32L	2 39+0 05L	.....	..
76	4	5 05+0 02P*	.....	.....	.....	.....	.....	.....	..
77	4	6 01+0 0.4P*	.....	.....	.....	.....	.....	.....	..
78	4	12 35+0 0.7P*	.....	.....	.....	.....	.....	.....	..
79	4	21 03+0 0.2P*	.....	.....	.....	.....	.....	.....	..
80	6	1 48+0 05P*	.....	.....	.....	.....	.....	.....	..
81	6	6 28+0 0.8P*	.....	.....	.....	.....	.....	.....	..
82	6	20 56+0 01v*	.....	.....	.....	.....	.....	.....	..
83	6	21 22+0 03P*	.....	.....	.....	.....	.....	20 56+0 01v	B
84	6	21 29+0 14r	21 25+0 07L	21 32+0 06L	.....	.....	.....	.....	..
85	6	23 09+0 46u	.....	.....	.....	.....	.....	21 30+0 15r	..
86	7	20 40+0 0.7P*	.....	.....	.....	.....	.....	.....	..
87	8	.....	.....	.....	.....	.....	.....	.....	..
88	9	0 20+0 01P*	.....	.....	.....	.....	.....	19 47+0 01P.	..
89	9	13 10+3 18U	13 11+3 15U	13 11+2 42U	13 09+1 03U	.....	.....	.....	..
90	9	15 13+0 03P*	.....	.....	.....	.....	.....	13 10+0 40U	C
91	9	15 16+0 10P*	.....	.....	.....	.....	.....	15 13+0 03P	..
92	10	0 04+0 0.2P*	.....	.....	.....	.....	.....	15 16+0 04P	..
93	10	0 11+0 02P*	.....	.....	.....	.....	.....	.....	..
94	10	4 03+0 0.4P*	.....	.....	.....	.....	.....	.....	..

International Seismological Centre
From the ISC collection scanned by SISMOS

EARTHQUAKE CORRELATION TABLE
February, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls M. S:	Seven Falls W. A:	Shawinigan	.**
95	10	16 10+0 01P*	.....	.....	.....	.....	.....	.....	..
96	10	18 39+0 01P*	.....	.....	.....	.....	.....	.....	..
97	11	9 32+0 0.8P*	.....	.....	.....	.....	.....	.....	..
98	11	15 50+0 58r	15 46+1 16R	15 47+1 04R	16 01+0 21r	15 56+0 54r	15 50+0 28r	15 50+0 21r	D
99	11	17 24+0 07P*	.....	.....	.....	.....	.....	.....	..
100	11	17 41+0 07L	17 29+0 12r	17 34+0 08L	.....	17 43+0 08L	17 41+0 06L	17 40+0 07L	..
101	11	22 43+0 02P*	.....	.....	.....	.....	.....	.....	..
102	12	0 57+0 03P*	.....	.....	.....	.....	.....	.....	..
103	12	1 02+0 02P*	.....	.....	.....	.....	.....	.....	..
104	12	.....	.....	.....	.....	.....	6 03+0 01P	.....	..
105	12	22 39+0 01P*	.....	.....	.....	.....	.....	.....	..
106	13	5 11+1 06u	5 21+1 08u	5 40+0 37L	.....	5 35+1 04L	.....	.....	..
107	13	17 42+0 01P*	.....	.....	.....	.....	.....	.....	..
108	13	21 29+0 02v*	.....	.....	.....	.....	.....	.....	E
109	14	.....	.....	.....	.....	.....	10 19+0 0.2d	.....	..
110	14	.....	.....	.....	.....	.....	10 26+0 0.4d	.....	..
111	14	11 03+0 05P	.....	.....	.....	.....	11 03+0 02P	11 03+0 03P	..
112	14	22 10+0 32r	22 08+0 53r	22 12+0 25r	22 28+0 06L	22 18+0 33u	22 22+0 18L	22 10+0 21u	F
113	14	.....	.....	22 34+0 15L	.....	.....	.....	.....	..
114	15	0 39+0 02P*	.....	.....	.....	.....	.....	0 39+0 01P	..
115	15	4 08+0 0.6P*	4 07+0 10L	4 15+0 05L	.....	.....	.....	4 08+0 0.5P	..
116	15	18 06+0 02P*	.....	.....	.....	.....	.....	.....	..
117	15	19 53+0 01v*	.....	.....	.....	.....	.....	.....	G
118	16	1 02+0 02P*	.....	.....	.....	.....	.....	.....	..
119	16	7 28+0 0.3P*	.....	.....	.....	.....	.....	.....	..
120	16	15 19+0 0.7P*	.....	.....	.....	.....	.....	.....	..

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EARTHQUAKE CORRELATION TABLE
February, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
121	16	22 15+0 0.7v*	.....	.....	.....	.....	.....	.....	H
122	17	0 11+0 0.5P*	.....	.....	.....	.....	.....	.....	..
123	17	21 01+0 0.1P*	.....	.....	.....	.....	.....	.....	..
124	18	20 39+1 11u	20 39+1 12u	20 40+1 08r	20 39+0 42u	20 38+1 44u	20 38+0 27u	20 38+0 06P	J
125	19	.....	.....	7 30+1 05L	.....	.....	.....	.....	..
126	19	8 32+0 0.5P*	.....	.....	.....	.....	.....	.....	..
127	19	10 10+0 03P*	.....	.....	.....	.....	.....	.....	..
128	19	10 43+0 0.4P*	.....	.....	.....	.....	.....	.....	..
129	19	15 48+0 06v*	.....	.....	.....	.....	.....	.....	..
130	19	22 18+0 01P*	.....	.....	.....	.....	15 46+0 01d	.....	K
131	20	19 54+0 01v*	.....	.....	.....	.....	.....	.....	..
132	23	9 45+1 56u	10 04+0 27L	9 51+1 59u	.....	10 18+1 30L	.....	.....	L
133	23	9 58+0 01P*	11 47+0 10L	.....	.....	.....	.....	.....	..
134	23	14 59+0 01P*	.....	.....	.....	.....	.....	.....	..
135	23	15 12+0 01v*	.....	.....	.....	.....	.....	.....	..
136	23	15 15+0 0.3P*	.....	.....	.....	.....	.....	.....	M
137	23	16 02+0 0.1P*	.....	.....	.....	.....	.....	.....	..
138	23	.....	17 25+0 05L	.....	.....	.....	.....	.....	..
139	24	2 44+0 02P*	.....	.....	.....	.....	.....	.....	..
140	24	2 52+0 03P*	.....	.....	.....	.....	.....	.....	..
141	24	8 22+0 21r	8 22+0 14L	8 24+0 14r	8 39+0 04L	.....	.....	2 50+0 03P	..
142	27	6 41+0 06L	.....	.....	.....	.....	8 23+0 03P	.....	..
143	28	2 05+1 26R	2 00+1 36V	2 02+1 29R	2 16+0 41u	2 06+1 46R	2 06+0 30R	2 05+0 30R	N
144	28	21 20+0 0.8v*	.....	.....	.....	.....	.....	21 20+0 01v	P
145	29	4 48+0 25r	4 44+0 12L	4 47+0 13L	.....	.....	5 01+0 02L	5 00+0 02L	..
146	29	.....	5 10+0 04L	.....	.....	.....	.....	.....	..

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CORRELATION OF EARTHQUAKES

February, 1948

N O T E S

A	:	Ottawa	Δ = 150 km.	H = 16^h28^m5 U.T.
B	:	Ottawa	Δ = 265 km.	H = 20^h55^m1 U.T.
		Shawinigan Falls	Δ = 215 km.	H = 20 55.1 U.T.
C	:	Ottawa	Δ = 8,160 km.	H = 12^h58^m3 U.T.
		Victoria	Δ = 9,420 km.	H = 12 58.2 U.T.
		Saskatoon	Δ = 9,140 km.	H = 12 58.5 U.T.
		Halifax	Δ = 7,200 km.	H = 12 58.5 U.T.
		Shawinigan Falls	Δ = 7,790 km.	H = 12 58.5 U.T.
D	:	Ottawa	Δ = 4,680 km.	H = 15^h41^m9 U.T.
		Victoria	Δ = 2,250 km.	H = 15 41.8 U.T.
		Saskatoon	Δ = 2,700 km.	H = 15 41.9 U.T.
		Seven Falls	Δ = 4,550 km.	H = 15 42.2 U.T.
E	:	Ottawa	Δ = 150 km.	H = 21^h28^m3 U.T.
F	:	Victoria	Δ = 1,570 km.	H = 22^h04^m5 U.T.
G	:	Ottawa	Δ = 145 km.	H = 19^h52^m7 U.T.
H	:	Ottawa	Δ = 210 km.	H = 22^h14^m5 U.T.
J	:	Ottawa	Δ = 5,320 km.	H = 20^h29^m9 U.T.
		Victoria	Δ = 5,350 km.	H = 20 29.9 U.T.
		Saskatoon	Δ = 4,450 km.	H = 20 30.0 U.T.
		Halifax	Δ = 5,200 km.	H = 20 30.0 U.T.
		Seven Falls	Δ = 5,020 km.	H = 20 30.0 U.T.
K	:	Seven Falls	Δ = 35 km.	H = 15^h45^m5 U.T.
L	:	Ottawa	Δ = 210 km.	H = 19^h53^m4 U.T.
M	:	Ottawa	Δ = 150 km.	H = 15^h12^m1 U.T.
N	:	Ottawa	Δ = 4,090 km.	H = 1^h58^m1 U.T.
		Victoria	Δ = 895 km.	H = 1 58.0 U.T.
		Saskatoon	Δ = 1,660 km.	H = 1 58.3 U.T.
		Seven Falls	Δ = 4,300 km.	H = 1 58.2 U.T.
		Shawinigan Falls	Δ = 4,290 km.	H = 1 58.0 U.T.
P	:	Ottawa	Δ = 165 km.	H = 21^h19^m2 U.T.
		Shawinigan Falls	Δ = 228 km.	H = 21 19.2 U.T.

Dominion Observatory,
Ottawa, Canada.
April 27, 1948.

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17 AUG 1948

DEPARTMENT OF MINES AND RESOURCES

MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

March and April
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

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.

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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.

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM March 1, 1948 to March 1, 1948 No. 21

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
147 Mar. 1	H	1 12.3	15,000	USCGS gives:-
	P'	1 31 41		φ = 3° S.
	i_Z	1 31 50		λ = 130°.5 E.
	PP	1 34 15		
	SKP	1 35 11		
	e	1 36 08		
	SKS	1 38 48		
	SKKS	1 41 03		
	i	1 44 26		
	PPS	1 46 18		
	SS	1 52.0		
	SSS	1 57		
	L	2 11		
	F	4 05		
		Victoria		
	H	1 12.3	11,700	
	P	1 26 30		
	PP	1 30 36		
	PPP	1 32 55		
	SKS	1 36 55		
	SKKS	1 37 59		
	PS	1 39 49		
	SS	1 45 32		
	L	2 01		
	LR_1	3 14		
	F	4 40		
		Saskatoon		
	H	1 12.5	10,900	
	PP	1 30 01		
	i	1 35 52		
	SKKS	1 37 01		
	PPS	1 39 35		
	SS	1 44.1		
	SSS	1 45.9		
	L	1 57		
	F	4 20		
		Halifax		
	H	1 12.5	15,600	
	SKP	1 34 45		
	PPP	1 36 59		
	SS	1 52.7		
	SSS	1 57.7		
	L	2 18		
	F	3 36		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM March 1, 1948 to March 2, 1948 No. 22

NO. AND. DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
147 Mar. 1 (cont'd)	H	1 12.6	15,000	
	P'	1 31 55		
	PP	1 34 17		
	SKP	1 35 18		
	PPP	1 37 20		
	SKKS	1 40 53		
	S	1 42 43		
	PPS	1 46.1		
	SS	1 52.1		
	SSS	1 56.9		
	L	2 13		
	F	4 49		
		Shawinigan Falls		
	H	1 12.5	14,450	
	P'	1 31 44		
	PP	1 34.0		
	SKP	1 35 11		
	SKKS	1 40.8		
	PS	1 44.1		
	SSS	1 56.0		
	F	2 42		
		Ottawa		
150 Mar. 1	H	21 51.0	225	
	P_2	21 51 37		
	S_2	21 52 02.5		
	e	21 52 11		
	F	21 52.6		
		Ottawa		
153 Mar. 2	H	19 06.1	150	
	P_2	19 06 27		
	S_2	19 06 44		
	e	19 06 52		
	F	19 07.2		
		Ottawa		
154 Mar. 2	H	21 58.4	210	
	P_2	21 58 59.5		
	S_2	21 59 23.5		
	e	21 59 36		
	F	21 59.7		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM March 2, 1948 to March 4, 1948 No. 23

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
156 Mar. 3	H	9 09.9	13,000	USCGS gives:-
	P'	9 28 34		φ = 18° N.
	PP	9 29 23		λ = 119° E.
	SKS	9 35 28		
	PS	9 39.1		
	SS	9 45.6		
	SSS	9 50.4		
	L	10 02		
	F	11 32		
		Victoria		
	H	9 10.5	9,320	
	P	9 22 57		
	S	9 33 22		
	PS	9 34 12		
	SS	9 39.8		
	L	9 49		
	F	11 55		
		Saskatoon		
	e	9 25 43		
	e	9 32 17		
	e	9 33 12		
	e	9 40		
	L	9 51		
	F	11 46		
		Halifax		
	e	9 39.7		
	e	9 45.7		
	L	10 06		
	F	10 53		
		Seven Falls		
	e	9 37 01		
	e	9 38 56		
	e	9 44 41		
	e	9 48.9		
	L	9 58		
	F	11 49		
		Ottawa		
158 Mar. 4	H	1 53.1	6,240	USCGS gives:-
	P_Z	2 02 40		φ = 10° S.
	S	2 10 34		λ = 75° W.
	L	2 18		
	F	2 42		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM March 4, 1948 to March 9, 1948 No. 24

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
158 Mar. 4 (cont'd)	e	2 13 48		
	L	2 28		
	F	2 57		
		Seven Falls		
	e	2 02 58		
	L	2 18		
	F	2 41		
		Ottawa		
159 Mar. 5	H	19 42.8	150	
	P_2	19 43 12		
	S_2	19 43 29		
	e	19 43 37		
	F	19 43.9		
		Ottawa		
162 Mar. 7	H	16 13.8	155	
	P_2	16 14 12		
	S_2	16 14 30		
	e	16 14 38.5		
	F	16 15		
		Ottawa		
163 Mar. 7	e_Z	19 01 27		USCGS gives:-
	e_E	19 10.6		φ = 54° N.
	L	19 28		λ = 161° E.
	F	19 45		
		Ottawa		
164 Mar. 8	e_Z	16 26 35		USCGS gives:-
	L	17 07		φ = 6° S.
	F	17 31		λ = 157° E.
		Seven Falls		
165 Mar. 9	e	19 26		
	L	19 43		
	F	21 14		
		Victoria		
	H	18 48.8	9,560	
	P	19 01.7		
	S	19 12 16		
	PS	19 13 16		
	PPS	19 13 42		
	SS	19 18 35		
	L	19 30		
	F	20 34		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM March 9, 1948 to March 13, 1948 No. 25

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
165 Mar. 9 (cont'd)	e	19 14		
	e	19 21		
	L	19 32		
	F	20 23		
		Victoria		
167 Mar. 10	e	11 49.3		USCGS gives:- φ = 29° S. λ = 177° E.
	e	11 50.3		
	e	12 02.5		
	L	12 12		
	F	12 38		
		Ottawa		
170 Mar. 11	H	20 51.2	155	
	P_2	20 51 37		
	S_2	20 51 55		
	e	20 52 03		
	F	20 52.5		
		Ottawa		
171 Mar. 12	H	4 28.4	2,940	
	P	4 34 03		
	S	4 38 42		
	L	4 40 33		
	F	4 46		
		Ottawa		
175 Mar. 13	H	20 02.5	14,500	USCGS gives:- φ = 1° N. λ = 126° E.
	P_Z	20 21 41		
	PP	20 23 50		
	SKP	20 24 54		
	e	20 33 19		
	PPS	20 35 30		
	SS	20 41.3		
	L	20 55		
	F	22 36		
		Victoria		
	e	(20 25 24)		No clock correction
	e	(20 27 45)		
	e	(20 34.8)		
	L	(20 50)		
	F	(22 05)		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM March 13, 1948 to March 18, 1948 No. 26

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
175 Mar. 13 (cont'd)	H	20 02.7	12,200	
	PP	20 21 41		
	SKKS	20 28 32		
	PS	20 31 06		
	SS	20 37 00		
	L	20 51		
	F	21 53		
		Seven Falls		
	e	20 35.5		
	L	21 04		
	F	22 16		
		Ottawa		
176 Mar. 14	H	21 56.9	6,780	USCGS gives:-
	P	22 07 03		φ = 17° S.
	S	22 15 28		λ = 75° W.
	SSS	22 22.6		
	L	22 26		
	F	22 57		
		Victoria		
	H	(21 57.5)	8,650	No clock correction
	P	22 09 26		
	S	22 19 22		
	L	22 33		
	F	23 06		
		Victoria		
178 Mar. 16	e	17 21 50		
	L	17 34		
	F	18 16		
		Victoria		
179 Mar. 17	e	20 03 24		USCGS gives:-
	e	20 12.4		φ = 16° N.
	e	20 19.1		λ = 146° E.
	F	20 45		
		Ottawa		
181 Mar. 18	H	16 16.8	150	
	P_2	16 17 12.5		
	S_2	16 17 30		
	e	16 17 38		
	F	16 17.9		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM March 18, 1948 to March 23, 1948 No. 27

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
184 Mar. 21	e_Z	21 53 39		
	e_N	22 03 20		
	L	22 31		
	F	23 00		
		Ottawa		
185 Mar. 22	H	0 06.2	6,550	USCGS gives:-
	P_Z	0 16 06		φ = 14° S.
	S	0 24 18		λ = 75° W.
	L	0 34		
	F	0 45		
		Ottawa		
187 Mar. 22	H	21 34.1	4,180	USCGS gives:-
	P	21 41 22		φ = 11°5 N.
	PPP_N	21 42 48		λ = 86°5 W.
	S	21 47 21		
	SS	21 49.3		
	L	21 53		
	F	22 34		
		Seven Falls		
	e	21 43.4		
	L	21 48		
	F	22 58		
		Ottawa		
188 Mar. 22	H	23 40.8	4,220	
	P_Z	23 48 09		
	PP_N	23 49 33		
	S_N	23 54 10		
	L	23 58		
	F	0 23		
		Ottawa		
190 Mar. 23	H	18 11.6	7,880	USCGS gives:-
	P_Z	18 22 51		φ = 51° N.
	SE	18 32 10		λ = 155° E.
	L	18 50		
	F	19 02		
		Seven Falls		
	H	18 11.7	7,875	
	P	18 22 55		
	S	18 32 13		
	F	18 33		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM March 23, 1948 to March 29, 1948 No. 28

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
190 Mar. 23 (cont'd)	H	18 11.6	7,920	
	P	18 22 52		
	S	18 32 13		
	F	18 35		
		Ottawa		
194 Mar. 24	eZ	3 35 49		
	L	3 47		
	F	4 03		
		Ottawa		
195 Mar. 24	H	5 20 ca	13,000	USCGS gives:-
	P'	5 39 00		φ = 6° S.
	PPP	5 42 07		λ = 104° E.
	SS	5 56		
	SSS	6 00		
	L	6 23		
	F	7 37		
		Victoria		
	e	5 51		
	e	6 10		
	L	6 25		
	F	7 44		
		Saskatoon		
	e	5 42		
	e	5 51		
	L	6 24		
	F	7 39		
		Ottawa		
199 Mar. 26	H	18 34.3	155	
	P_2	18 34 42.5		
	S_2	18 35 00.5		
	e	18 35 08.5		
	F	18 35.3		
		Ottawa		
203 Mar. 29	H	10 22.8	7,900	
	P	10 34 04		
	S	10 43 24		
	L	10 57		
	F	11 18		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM March 29, 1948 to March 31, 1948 No. 29

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
204 Mar. 29	H	11 57.3	9,050	
	P_Z	12 09 35		
	S	12 19.8		
	SSS	12 28.4		
	L	12 42		
	F	13 23		
		Victoria		
	e_N	12 07 58		
	e_E	12 14 39		
	i	12 15 27		
	e	12 20.8		
	L	12 27		
	F	13 05		
		Saskatoon		
	e	12 16 05		
	e	12 24.3		
	L	12 39		
	F	13 13		
		Ottawa		
205 Mar. 29	H	20 38.9		
	P_2	20 39 18.5		
	S_2	20 39 36		
	e	20 39 45		
	F	20 40.3		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

March, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
147	1	1 32+2 33U	1 26+3 14U	1 30+2 50U	1 35+2 01U	1 34+3 15U	1 32+0 05P	1 32+1 10U	A
148	1	14 11+0 01P*	.....	.....	.....	.....	.....	.....	..
149	1	.....	16 53+0 08L	.....	.....	.....	.....	.....	..
150	1	21 52+0 01v*	.....	.....	.....	.....	.....	21 52+0 01v	B
151	2	2 58+0 01P*	.....	.....	.....	.....	.....	.....	..
152	2	8 56+0 01P*	.....	.....	.....	.....	8 55+0 01P	.....	..
153	2	19 06+0 0.7v*	.....	.....	.....	.....	.....	.....	C
154	2	21 59+0 0.7v*	.....	.....	.....	.....	.....	.....	D
155	3	2 35+0 01P*	.....	.....	.....	.....	.....	.....	..
156	3	9 29+2 03u	9 23+2 32u	9 26+2 20u	9 40+1 13u	9 37+2 12u	.....	9 29+0 01P	E
157	3	22 15+0 06P*	.....	.....	.....	.....	.....	.....	..
158	4	2 03+0 39u	2 14+0 43u	2 26+0 21L	.....	2 18+0 23L	2 03+0 05P	2 03+0 03P	F
159	5	19 43+0 0.7v*	.....	.....	.....	.....	.....	.....	G
160	6	5 34+0 02P*	.....	.....	.....	.....	.....	.....	..
161	6	20 24+0 02P*	.....	.....	.....	.....	.....	20 24+0 01P	..
162	7	16 14+0 01v*	.....	.....	.....	.....	.....	.....	J
163	7	19 01+0 44u	19 05+0 51L	19 10+0 32L	.....	19 15+0 55L	.....	19 02+0 02P	..
164	8	16 27+1 05u	16 45+0 36L	16 54+0 21L	.....	17 03+0 35L	16 27+0 02P	.....	..
165	9	.....	19 02+1 32u	.....	.....	19 26+1 48u	.....	.....	K
166	9	.....	20 58+0 27L	.....	.....	.....	.....	.....	..
167	10	12 19+0 32L	11 49+0 49u	.....	.....	12 23+0 31L	.....	.....	..
168	10	13 34+0 13L	.....	.....	.....	.....	.....	.....	..
169	11	3 09+0 01P*	.....	.....	.....	.....	.....	.....	..
170	11	20 52+0 01v*	.....	.....	.....	.....	.....	.....	M
171	12	4 34+0 12r	.....	.....	.....	.....	.....	4 39+0 06r	N
172	12	10 59+0 01P*	.....	.....	.....	.....	.....	.....	..
173	13	5 14+0 02P*	.....	.....	.....	.....	.....	.....	..
174	13	5 22+0 02P*	.....	.....	.....	.....	.....	.....	..
175	13	20 22+2 14U	20 25+1 40U	20 22+1 31u	.....	20 35+1 40u	.....	20 22+0 05P	P
176	14	22 07+0 50u	22 09+0 57u	22 40+0 09L	.....	.....	.....	.....	Q

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EARTHQUAKE CORRELATION TABLE

March, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
177	15	12 14+0 18L	.....	.....	.....	.....	.....	.....	..
178	16	17 57+0 33L	17 22+0 54u	.....	.....	17 05+2 04L	.....	.....	..
179	17	.....	20 03+0 42u	.....	.....	.....	.....	.....	..
180	18	15 59+0 01P*	15 54+0 09L	.....	.....	.....	.....	.....	.. R
181	18	16 17+0 0.7v*	.....	.....	.....	.....	.....	.....	
182	20	17 49+0 0.4P*	.....	.....	.....	.....	.....	.....	..
183	20	23 29+0 02P*	.....	.....	.....	.....	.....	.....	..
184	21	21 54+1 06u	.....	22 43+0 29L	.....	22 01+2 08L	.....	.....	.. S
185	22	0 16+0 29u	.....	.....	.....	.....	.....	.....	
186	22	9 58+0 0.4P*	.....	.....	.....	.....	.....	.....	.. T
187	22	21 41+0 53r	22 00+0 22L	21 57+0 25L	.....	21 43+1 15r	.....	21 42+0 04P	U
188	22	23 48+0 35r	.....	.....	.....	0 00+0 21L	.....	.....	
189	23	5 17+0 01P*	.....	.....	.....	.....	.....	.....	.. V
190	23	18 23+0 39u	.....	.....	.....	.....	18 23+0 10u	18 23+0 12u	
191	23	21 25+0 03P*	.....	.....	.....	.....	.....	.....	..
192	23	21 30+0 02P*	.....	.....	.....	.....	.....	.....	..
193	24	3 31+0 02P*	.....	.....	.....	.....	.....	.....	..
194	24	3 36+0 27u	.....	.....	.....	.....	.....	.....	.. W
195	24	5 39+1 58u	5 51+1 53u	5 42+1 57u	.....	6 01+1 47L	.....	.....	
196	24	8 02+0 0.4P*	.....	.....	.....	.....	.....	.....	..
197	26	3 13+0 01P*	.....	.....	.....	.....	.....	.....	..
198	26	13 43+0 01P*	.....	.....	.....	.....	.....	.....	.. X
199	26	18 35+0 0.6v*	.....	.....	.....	.....	.....	.....	
200	26	21 04+0 01P*	.....	.....	.....	.....	.....	.....	..
201	27	3 50+0 01P*	.....	.....	.....	.....	.....	.....	..
202	29	2 44+0 02P*	.....	.....	.....	.....	.....	.....	.. Y
203	29	10 34+0 44u	11 07+0 21L	11 01+0 20L	.....	.....	10 34+0 02P	.....	Z
204	29	12 10+1 13u	12 08+0 57u	12 16+0 57u	.....	.....	.....	.....	AA
205	29	20 39+0 01v*	.....	.....	.....	.....	.....	.....	

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CORRELATION OF EARTHQUAKES

March, 1948

N O T E S

A :	Ottawa	Δ = 15,000 km.	H = $1^h12^m.3$ U.T.
	Victoria	Δ = 11,700 km.	H = 1 12.3 U.T.
	Saskatoon	Δ = 10,900 km.	H = 1 12.5 U.T.
	Halifax	Δ = 15,600 km.	H = 1 12.5 U.T.
	Seven Falls	Δ = 15,000 km.	H = 1 12.6 U.T.
	Shawinigan Falls	Δ = 14,450 km.	H = 1 12.5 U.T.
B :	Ottawa	Δ = 225 km.	H = $21^h51^m.0$ U.T.
C :	Ottawa	Δ = 150 km.	H = $19^h06^m.1$ U.T.
D :	Ottawa	Δ = 210 km.	H = $21^h58^m.4$ U.T.
E :	Ottawa	Δ = 13,000 km.	H = $9^h09^m.9$ U.T.
	Victoria	Δ = 9,320 km.	H = 9 10.5 U.T.
F :	Ottawa	Δ = 6,240 km.	H = $1^h53^m.1$ U.T.
G :	Ottawa	Δ = 150 km.	H = $19^h42^m.8$ U.T.
J :	Ottawa	Δ = 155 km.	H = $16^h13^m.8$ U.T.
K :	Victoria	Δ = 9,560 km.	H = $18^h48^m.8$ U.T.
M :	Ottawa	Δ = 155 km.	H = $20^h51^m.2$ U.T.
N :	Ottawa	Δ = 2,940 km.	H = $4^h28^m.4$ U.T.
P :	Ottawa	Δ = 14,500 km.	H = $20^h02^m.5$ U.T.
	Saskatoon	Δ = 12,200 km.	H = 20 02.7 U.T.
Q :	Ottawa	Δ = 6,780 km.	H = $21^h56^m.9$ U.T.
	Victoria	Δ = 8,650 km.	H = (21 57.5) U.T.
R :	Ottawa	Δ = 150 km.	H = $16^h16^m.8$ U.T.
S :	Ottawa	Δ = 6,550 km.	H = $0^h06^m.2$ U.T.
T :	Ottawa	Δ = 4,180 km.	H = 21 34.1 U.T.
U :	Ottawa	Δ = 4,220 km.	H = $23^h40^m.8$ U.T.
V :	Ottawa	Δ = 7,880 km.	H = $18^h11^m.6$ U.T.
	Seven Falls	Δ = 7,875 km.	H = 18 11.7 U.T.
	Shawinigan Falls	Δ = 7,920 km.	H = 18 11.6 U.T.
W :	Ottawa	Δ = 13,000 km.	H = 5^h20^m U.T.
X :	Ottawa	Δ = 155 km.	H = $18^h34^m.3$ U.T.
Y :	Ottawa	Δ = 7,900 km.	H = $10^h22^m.8$ U.T.
Z :	Ottawa	Δ = 9,050 km.	H = $11^h57^m.3$ U.T.
AA :	Ottawa	Δ = 150 km.	H = $20^h38^m.9$ U.T.

Dominion Observatory,
Ottawa, Canada.
June 17, 1948.

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SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED
	February, 1948	
Helsinki	October to December, 1947	February 2
Wellington	October, 1947	" 2
Saint Louis and Auxiliary Stations	Preliminaries October 16, 20, November 1, 2, 4, 7, 1947	" 2
Perth	July to September, 1947	" 3
Brisbane	November, 1947	" 3
Pasadena	Locals October to December, 1947	" 4
Trieste	December 20 - 31, 1947	" 7
Strasbourg	December, 1947, January 1-10, 1948	" 7
Bureau Central	September, 1947; Supplement for August, 1947	" 7
Zurich	November, December, 1947	" 9
Zi-Ka-Wei	March to May, 1939	" 9
Kew	December, 1947	" 9
Bucarest	Year, 1947	" 12
Trieste	November, December, 1947, January 1 - 18, 1948	" 13
Wellington	November, 1947	" 16
Rome	December, 1947	" 16
Istanbul	April to December, 1947, February 9, 1948	" 18
Santa Clara	January, 1948	" 18
Ksara	December, 1947	" 18
Zurich	Year, 1946	" 19
Stuttgart	October to December, 1947	" 21
Uppsala	July, 1946 to June, 1947	" 25
Bureau Central	Year, 1947	" 26
Saint Louis and Auxiliary Stations	Preliminaries November, December 14, 1947	" 27
La Paz	January to July, 1947	" 27
UCCLE	October to December, 1947	" 28
	March, 1948	
Strasbourg	January 11 - 31, 1948	March 3
Bureau Central	October, 1947	" 3
Trieste	January 15 - 31, 1948	" 3
Brisbane	December, 1947	" 5
Santa Clara	February, 1948	" 10
UCCLE	October, 1947	" 10
Pasadena	Preliminaries Bull. No. 60, April - June, 1947	" 15
De Bilt	Year, 1944	" 16
Belgrade	Year, 1946	" 18
Saint Louis and Auxiliary Stations	Supplements for August to November, 1947; Preliminaries December 15, 23, November 20, 1947	" 18
Trieste	February, 1948	" 18
Firenze	January, 1948	" 18
Strasbourg	February 1 - 20, 1948	" 18
Zurich	January, 1948	" 19
Copenhagen	Years 1942, 1943	" 19
Istanbul	January, 1948	" 22
Richmond	January, 1948	" 22
Rome	January, 1948	" 22
Cleveland	September, October, 1947	" 22
Brisbane	January, 1948	" 28
Trieste	February 19 - 25, 1948	" 31

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SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED
	April, 1948	
UCCLE	January, 1948	April 1
Trieste	February 12-18, 26, March 4, 1948	" 1
Strasbourg	February 21 to March 10, 1948	" 6
Bureau Central	Supplements for October, November, 1947	" 6
China	March to December, 1947	" 6
Ksara	January, 1948	" 8
Wellington	December, 1947, January, 1948	" 10
Bucarest	January, February, 1948	" 13
Santa Clara	March, 1948	" 13
Cleveland	November, December, 1947	" 13
Strasbourg	July 4 - 8, 1947	" 14
Trieste	March 5 - 10, 1948	" 16
Rome	February, 1948	" 16
Istanbul	Years 1941, 1942	" 16
Brisbane	February, 1948	" 20
Trieste	January, February, 1948	" 21
Richmond	February, 1948	" 21
UCCLE	March, 1948	" 21
Prague	Years 1945 - 1947	" 23
Belgrade	January, February, 1948	" 28
Trieste	March 25 - 31, 1948	" 29
Zurich	February, March, 1948	" 29
Saint Louis and Auxiliary Stations	Preliminaries for December, 1947, January, 1948; Supplement for December, 1947	" 29
De Bilt	March, 1948	" 29

Dominion Observatory,
Ottawa, Canada,
June 17, 1948.

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM April 1, 1948 to April 12, 1948 No. 30

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
206 Apr. 2	H	20 55.5	155	
	P_2	20 55 57		
	S_2	20 56 15		
	S_1	20 56 18		
	e	20 56 23		
	F	20 56.6		
		Ottawa		
209 Apr. 4	H	2 44.5	210	
	P_2	2 45 05.5		
	S_2	2 45 29.5		
	e	2 45 42		
	F	2 45.9		
		Ottawa		
217 Apr. 8	H	19 46.6	150	
	P_2	19 49 01		
	S_2	19 49 18.5		
	e	19 49 25		
	F	19 49.7		
		Ottawa		
220 Apr. 12	H	6 15.4	3,380	USCGS gives:-
	P	6 21 40		φ = 14° N.
	S	6 26 48		λ = 90°5 W.
	SS_N	6 28.1		h = 200 km.
	L	6 30		
	F	6 47		
		Ottawa		
221 Apr. 12	e_Z	9 08 07		
	e_E	9 15.0		
	e	9 16.8		
	e	9 26 30		
	L	9 45		
	F	10 45		
		Victoria		
	e_E	9 10 19		
	e	9 12 17		
	L	9 32		
	F	10 16		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM April 12, 1948 to April 17, 1948 No. 31

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
221 Apr. 12 (cont'd)	e	10 14 35		
	L	10 34		
	F	11 13		
		Ottawa		
223 Apr. 17	H	16 11.4	10,800	USCGS gives:-
	P	16 24 54		φ = 33° N.
	PP	16 28 54		λ = 135°.5 E.
	PPP	16 30 58		
	SKS	16 35 40		
	S	16 36 20		
	PS	16 37 36		
	SS	16 42 55		
	L	16 58		
	F	19 36		
		Victoria		
	H	16 11.7	7,940	
	P	16 22 58		
	S	16 32 20		
	SS_N	16 37 01		
	e	16 40.4		
	L	16 44		
	F	18 32		
		Saskatoon		
	H	16 11.6	8,740	
	P	16 23 38		
	PP	16 26 41		
	iS	16 33 38		
	PS	16 33 54		
	SS	16 38 47		
	SSS	16 42.3		
	L	16 49		
	F	19 27		
		Halifax		
	H	16 11.7	11,400	
	PP	16 29 49		
	SKS	16 36 13		
	SKKS	16 37 01		
	PS	16 38 45		
	SS	16 44.0		
	L	17 02		
	F	18 11		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM April 17, 1948 to April 20, 1948 No. 32

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
223 Apr. 17 (cont'd)	H	16 11.5	10,700	
	P	16 24 56		
	PP	16 29 05		
	SKS	16 35 34		
	S	16 36 20		
	PS	16 37 19		
	PPS	16 37 52		
	SS	16 42.8		
	SSS	16 48.1		
	L	16 57		
	F	19 28		
		Shawinigan Falls		
	e	16 26 19		
	e	16 28 30		
	L	16 51		
	F	17 32		
		Ottawa		
224 Apr. 18	e_Z	12 38 52		USCGS gives:-
	e	12 41.8		φ = 3° S.
	L	12 58		λ = 137° E.
	F	14 57		
		Victoria		
	e	12 44 06		
	e	12 51		
	L	13 00		
	F	13 52		
		Saskatoon		
	e	12 46 21		
	L	13 04		
	F	15 03		
		Seven Falls		
	e	12 48.6		
	e	12 54.1		
	L	12 58		
	F	14 01		
		Ottawa		
227 Apr. 20	H	2 11.4	3,460	USCGS gives:-
	P_Z	2 17 47		φ = 14° N.
	PPP_Z	2 19 10		λ = 92° W.
	S_Z	2 23.0		
	L	2 26		
	F	2 44		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM April 20, 1948 to April 21, 1948 No. 33

No. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
230 Apr. 21	H	20 22.2	2,850	USCGS gives:- φ = 19° N. λ = 69°.5 W. Between the beginning of this quake and 22^h15^m U.T. there are indications of seven aftershocks for none of which could exact arrival times be determined nor phases differentiated.
	P	20 27 42		
	i	20 27 46		
	PP_Z	20 28.3		
	S	20 32 14		
	SS_N	20 33 30		
	i_N	20 34 12		
	L	20 34 48		
	F	0 12		
		Victoria		
	H	20 22.4	5,580	
	P	20 31 20		
	S	20 39 37		
	i_N	20 41 14		
	SS	20 42.2		
	SSS	20 43.6		
	L	20 46		
	F	22 46		
		Saskatoon		
	H	20 22.2	4,660	
	P	20 30 14		
	PPP	20 32 07		
	iS	20 36 40		
	SSS	20 40 10		
	iL	20 41 51		
	F	23 11		
		Halifax		
	H	20 22.3	2,900	
	P_N	20 27 57		
	i	20 28 03		
	S	20 32 33		
	SS	20 34.0		
	L	20 35.1		
	F	22 16		
		Seven Falls		
	H	20 22.2	3,010	
	P	20 27 59		
	PP	20 28 44		
	PPP	20 29 00		
	S	20 32 43		
	SS	20 33 59		
	L	20 35.2		
	F	0 31		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM April 21, 1948 to April 22, 1948 No. 34

No. and Date	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
230 Apr. 21 (cont'd)	H	20 22.2	2,690	
	P	20 27 49		
	i	20 27 54		
	PP	20 28 21		
	PPP	20 28 38		
	S	20 32 24		
	SS	20 33 41		
	L	20 35		
	F	21 55		
		Ottawa		
237 Apr. 22	H	0 28.5	2,880	USCGS gives:- φ = 19° N. λ = 69°5 W.
	P	0 34 01		
	i	0 34 05		
	PP	0 34 34		
	S	0 38 36		
	SS	0 40 02		
	L	0 41		
	F	3 04		
		Victoria		
	e	0 44 56		
	e	0 47 20		
	L	0 54		
	F	2 10		
		Saskatoon		
	H	0 28.6	4,730	
	P	0 36 31		
	PPP	0 38 35		
	S	0 43 01		
	SSS	0 46 33		
	L	0 49		
	F	2 41		
		Halifax		
	H	0 28.6	2,890	
	eP	0 34 13		
	eS	0 38 48		
	SS_E	0 40.2		
	L	0 43		
	F	2 03		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM April 22, 1948 to April 22, 1948 No. 35

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
237 Apr. 22 (cont'd)	H	0 28.5	2,970	
	P	0 34 15		
	S	0 38 56		
	SS	0 40 04		
	L	0 41		
	F	3 10		
		Shawinigan Falls		
	H	0 28.5	2,920	
	P	0 34 06		
	PPP	0 34 55		
	S	0 38 44		
	SS	0 39 51		
	L	0 41 55		
	F	1 01		
		Ottawa		
238 Apr. 22	H	10 43.2	7,220	
	P_Z	10 53 47		
	S	11 02..36		
	SS_N	11 07.3		
	L	11 14.5		
	F	12 40		
		Victoria		
	e	11 06.4		
	L	11 24		
	F	12 00 ca		
		Saskatoon		
	e	11 04 47		
	e	11 13.4		
	L	11 20		
	F	12 31		
		Seven Falls		
	H	10 42.9	7,065	
	P	10 53 20		
	S	11 02 01		
	SS	11 06 30		
	SSS	11 07 49		
	L	11 13		
	F	12 32		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM April 22, 1948 to April 23, 1948 No. 36

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
239 Apr. 22	H	13 09.1	2,865	
	P	13 14 40		
	S	13 19 14		
	L	13 22.5		
	F	14 19		
		Saskatoon		
	e	13 27.2		
	L	13 31		
	F	14 08		
		Seven Falls		
	e	13 15 35		
	e	13 21 17		
	L	13 21 53		
	F	13 35		
		Ottawa		
241 Apr. 23	H	11 50.5	2,850	USCGS gives:- φ = 19° N. λ = 69°5 W.
	P	11 56 00		
	PP	11 56 36		
	S	12 00 32		
	SS	12 01 40		
	L	12 03		
	F	13 46		
		Saskatoon		
	e	12 00.4		
	e	12 04 59		
	L	12 09		
	F	13 14		
		Halifax		
	H	12 50.6	2,900	
	P	11 56 15		
	S	12 00 51		
	e_N	12 01 11		
	L	12 04		
	F	13 03		
		Seven Falls		
	P	11 56 09		
	e	11 01.6		
	L	11 04		
	F	13 32		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM April 23, 1948 to April 30, 1948 No. 37

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
241 Apr. 23 (cont'd)	H	11 50.5	2,920	
	P	11 56 06		
	S	12 00 44		
	SS	12 01 49		
	L	12 04		
	F	12 24		
		Ottawa		
244 Apr. 24	H	21 57.9	235	
	P_2	21 58 34		
	S_2	21 59 01		
	e	21 59 10		
	F	21 59.4		
		Ottawa		
246 Apr. 26	H	9 32.5	2,940	USCGS gives:- φ = 51° N. λ = 34° W.
	P_Z	9 38 09		
	S	9 42.8		
	L	9 46		
	F	10 06		
		Seven Falls		
	H	9 32.2	2,740	
	P	9 37 34		
	S	9 41 58		
	L	9 44		
	F	10 18		
		Ottawa		
247 Apr. 28	H	12 03.3	2,830	USCGS gives:- φ = 11° N. λ = 63° W. h = 100 km. ca.
	P	12 08 47		
	PP	12 09 08		
	S_E	12 13.3		
	L	12 17		
	F	12 39		
		Saskatoon		
	i	12 18 45		
	L	12 26		
	F	12 37		

W. W. Doxsee.

EARTHQUAKE CORRELATION TABLE

April, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	V. A.		
206	2	20 56 +0 0.6v*	.....	.....	.....	.....	.....	.....	A
207	3	8 02+0 02P*	.....	.....	.....	.....	.....	.....	..
208	3	8 04+0 02P*	.....	.....	.....	.....	.....	.....	..
209	4	2 45+0 0.8v*	.....	.....	.....	.....	.....	.....	B
210	4	3 33+0 0.4P*	.....	.....	.....	.....	.....	.....	..
211	4	13 42+0 01P*	.....	.....	.....	.....	.....	.....	..
212	5	16 08+0 02P*	.....	.....	.....	.....	.....	.....	..
213	5	19 36+0 01P*	.....	.....	.....	.....	.....	.....	..
214	6	0 45+0 0.6P*	.....	.....	.....	.....	.....	.....	..
215	6	2 47+0 02P*	.....	.....	.....	.....	.....	.....	..
216	6	2 50+0 0.6P*	.....	.....	.....	.....	.....	.....	..
217	8	19 49+0 0.7v*	.....	.....	.....	.....	.....	.....	C
218	9	3 29+0 03P*	.....	.....	.....	.....	.....	3 29+0 01P	..
219	11	16 45+0 0.4P*	.....	.....	.....	.....	.....	.....	..
220	12	6 22+0 25r	.....	.....	.....	.....	.....	6 21+0 03P	D
221	12	9 08+1 37u	9 10+1 06u	10 15+0 58u	.....	9 45+1 22L	.....	.....	..
222	15	20 39+0 37L	.....	.....	.....	.....	.....	.....	..
223	17	16 25+3 11U	16 23+2 09U	16 24+3 03U	16 30+1 31U	16 25+3 03U	16 25+0 52U	16 26+1 06U	E
224	18	12 39+2 18u	12 44+1 08u	12 46+2 17u	13 23+0 27L	12 49+1 12u	.....	.....	..
225	19	20 30+0 0.4P*	.....	.....	.....	.....	.....	.....	..
226	19	22 45+0 0.3P*	.....	.....	.....	.....	.....	.....	..
227	20	2 18+0 26r	.....	.....	.....	.....	.....	2 18+0 14r	F
228	20	16 05+0 0.1v*	.....	.....	.....	.....	.....	.....	..
229	21	16 17+0 45L	.....	.....	.....	.....	.....	.....	..

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EARTHQUAKE CORRELATION TABLE

April, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
230	21	20 28+3 44R	2 31+2 15U	20 30+2 41R	20 28+1 48R	20 28+4 03R	20 28+1 23R	20 28+1 27R	G
231	21	.....	.....	.....	.....	.....	20 50+0 05P	20 50+0 05P	..
232	21	.....	.....	.....	.....	.....	21 05+0 10P	21 05+0 10P	..
233	21	.....	.....	.....	.....	.....	21 18+0 03P	.....	..
234	21	.....	.....	.....	.....	.....	22 10+0 08P	.....	..
235	21	.....	.....	.....	.....	.....	22 31+0 03P	.....	..
236	21	.....	.....	.....	.....	.....	.....	22 58+0 10P	..
237	22	0 34+2 30R	0 45+1 25u	0 37+2 04r	0 34+1 29R	0 34+2 36R	0 34+0 33R	0 34+0 27R	H
238	22	10 54+1 46u	11 06+0 54u	11 05+1 26u	.....	10 54+1 38u	10 53+0 02P	10 54+0 04P	J
239	22	13 15+1 04r	.....	13 27+0 41r	.....	13 21+0 14r	13 16+0 07P	13 15+0 04P	K
240	22	19 01+0 0.6P*	.....	.....	.....	.....	.....	.....	..
241	23	11 56+1 50r	12 15+0 45L	12 00+1 14r	11 56+1 07r	11 57+1 35r	11 56+0 22r	11 56+0 28r	M
242	23	12 18+0 04P*	.....	.....	.....	.....	.....	.....	..
243	23	20 35+0 28L	.....	.....	.....	.....	.....	.....	..
244	24	21 59+0 0.8v*	.....	.....	.....	.....	.....	.....	N
245	25	.....	.....	.....	.....	.....	.....	21 53+0 02P	..
246	26	9 38+0 28r	.....	9 55+0 12L	.....	9 38+0 40r	9 38+0 04P	.....	P
247	28	12 09+0 30r	.....	12 19+0 18r	.....	.....	.....	12 09+0 08P	Q
248	28	12 15+0 0.5P*	.....	.....	.....	.....	.....	.....	..
249	28	.....	13 51+0 12L	13 58+0 10L	.....	.....	.....	.....	..
250	30	4 18+0 02P*	.....	.....	.....	.....	.....	.....	..
251	30	4 23+0 02P*	.....	.....	.....	.....	.....	.....	..
252	30	18 03+0 0.5P*	.....	.....	.....	.....	.....	.....	..

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CORRELATION OF EARTHQUAKES

April, 1948

N O T E S

A	:	Ottawa	Δ = 155 km.	H = $20^h55^m.5$ U.T.
B	:	Ottawa	Δ = 210 km.	H = $2^h44^m.5$ U.T.
C	:	Ottawa	Δ = 150 km.	H = $19^h48^m.6$ U.T.
D	:	Ottawa	Δ = 3,380 km.	H = $6^h15^m.4$ U.T.
E	:	Ottawa	Δ = 10,800 km.	H = $16^h11^m.4$ U.T.
		Victoria	Δ = 7,940 km.	H = 16 11.7 U.T.
		Saskatoon	Δ = 8,740 km.	H = 16 11.6 U.T.
		Halifax	Δ = 11,400 km.	H = 16 11.7 U.T.
		Seven Falls	Δ = 10,700 km.	H = 16 11.5 U.T.
F	:	Ottawa	Δ = 3,460 km.	H = $2^h11^m.4$ U.T.
G	:	Ottawa	Δ = 2,850 km.	H = $20^h22^m.2$ U.T.
		Victoria	Δ = 5,580 km.	H = 20 22.4 U.T.
		Saskatoon	Δ = 4,660 km.	H = 20 22.2 U.T.
		Halifax	Δ = 2,900 km.	H = 20 22.3 U.T.
		Seven Falls	Δ = 3,010 km.	H = 20 22.2 U.T.
		Shawinigan Falls	Δ = 2,890 km.	H = 20 22.2 U.T.
H	:	Ottawa	Δ = 2,880 km.	H = $0^h28^m.5$ U.T.
		Saskatoon	Δ = 4,730 km.	H = 0 28.6 U.T.
		Halifax	Δ = 2,890 km.	H = 0 28.6 U.T.
		Seven Falls	Δ = 2,970 km.	H = 0 28.5 U.T.
		Shawinigan Falls	Δ = 2,920 km.	H = 0 28.5 U.T.
J	:	Ottawa	Δ = 7,220 km.	H = $10^h43^m.2$ U.T.
		Seven Falls	Δ = 7,065 km.	H = 10 42.9 U.T.
K	:	Ottawa	Δ = 2,865 km.	H = $13^h09^m.1$ U.T.
M	:	Ottawa	Δ = 2,850 km.	H = $11^h50^m.5$ U.T.
		Halifax	Δ = 2,900 km.	H = 11 50.6 U.T.
		Shawinigan Falls	Δ = 2,920 km.	H = 11 50.5 U.T.
N	:	Ottawa	Δ = 235 km.	H = $21^h57^m.9$ U.T.
P	:	Ottawa	Δ = 2,940 km.	H = $9^h32^m.5$ U.T.
		Seven Falls	Δ = 2,740 km.	H = 9 32.2 U.T.
Q	:	Ottawa	Δ = 2,830 km.	H = 12 03.3 U.T.

Dominion Observatory,
Ottawa - Canada,
June 29, 1948.

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DEPARTMENT OF MINES AND RESOURCES

MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

May and June
1948

0000

DOMINION OBSERVATORY

OTTAWA - CANADA

0000

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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.

φ = 48°09' N. λ = 80°03' W. Z component.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

DANE

Operating during summer season.

φ = 48°04' N. λ = 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.

φ = 47°19' N. λ = 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.

φ = 46°40' N. λ = 79°04' W. Z, NS, and EW components.

Time correction from recorded radio time signals

Foundation: Solid granite of Canadian Shield.

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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 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.

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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.

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 1, 1948 TO May 9, 1948 No. 38

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
254 May 2	H	20 50.5	185	
	P_2	20 50 57		
	S_3	20 51 16.5		
	S_2	20 51 18		
	e	20 51 22		
	F	20 51.6		
		Ottawa		
257 May 5	H	19 01.5	155	Felt in Montreal
	P_2	19 01 55.5		
	P_3	19 01 57.8		
	S_2	19 02 13.5		
	e	19 02 21.5		
	F	19 02.5		
		Ottawa		
258 May 7	H	12 02.4	168	
	P_3	12 02 53.5		
	e	12 02 56		
	S_3	12 03 13.4		
	S_1	12 03 18		
	F	12 12		
		Seven Falls		
	H	12 02.4	265	
	P_3	12 03 06.1		
	S_3	12 03 36.3		
	F	12 05		
		Shawinigan Falls		
	H	12 02.4	107	
	P_2	12 02 44.6		
	S_2	12 02 57.2		
	F	12 16		
		Ottawa		
261 May 9	H	2 09 ca.	10,900	USCGS gives:-
	P_Z	2 22 44		φ = 30° N.
	PP	2 26 34		λ = 129° E.
	SKKS	2 33 44		
	PS	2 35 15		
	SS	2 40.3		
	L	2 55		
	F	4 40		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 9, 1948 to May 11, 1948 No. 39

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
261 May 9 (cont'd)	H	2 08.9	8,160	
	P_E	2 20 15		
	S	2 29 49		
	PS_N	2 30 11		
	F	2 45		
		Saskatoon		
	H	2 09.2	9,000	
	P	2 21 28		
	S	2 31 39		
	SS	2 36.7		
	L	2 46		
	F	4 09		
		Seven Falls		
	H	2 09.4	11,100	
	PP	2 27 07		
	SKS	2 33 45		
	SS	2 41 23		
	SSS	2 45		
	L	2 53		
	F	4 55		
		Ottawa		
262 May 9	e_N	9 08.5		
	L	9 14		
	F	10 04		
		Saskatoon		
	e	8 40.7		
	L	9 05		
	F	10 02		
		Ottawa		
263 May 11	H	8 56.0	6,700	Compression USCGS gives:- $\varphi = 17^\circ$ S. $\lambda = 71^\circ$ W.
	P	9 06 05		
	i	9 06 21		
	S	9 14 26		
	e	9 15 36		
	SS	9 18.5		
	L	9 25		
	F	10 16		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 11, 1948 to May 12, 1948 No. 40

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
263 May 11 (cont'd)	H	(8 55.1)	8,800	No clock corrections
	P	(9 07 08)		
	i	(9 07 23)		
	S	(9 17 11)		
	PS	(9 17 42)		
	SS	(9 21 15)		
	L	(9 33)		
	F	(10 00)		
		Saskatoon		
	H	8 55.9	8,250	
	P	9 07 26		
	S	9 17 04		
	SS	9 22.0		
	L	9 30		
	F	10 20		
		Halifax		
	H	8 56.0	6,580	
	P	9 05 59		
	S	9 14 13		
	i	9 16 09		
	SS	9 19.9		
	L	9 25		
	F	9 43		
		Seven Falls		
	H	8 56.1	6,820	
	P	9 06 18		
	S	9 14 46		
	PS	9 15 18		
	SSS	9 20 38		
	L	9 24		
	F	11 00		
		Ottawa		
265 May 12	H	0 57.1	9,880	
	P	1 09 57		
	PPP	1 13.3		
	SKS	1 20.3		
	S	1 20 46		
	PPS	1 22 04		
	SS	1 26.7		
	L	1 38		
	F	4 03		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 12, 1948 to May 14, 1948 No. 41

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
265 May 12 (cont'd)	H	(0 56.6)	6,935	No clock correction
	P	(1 07 00)		
	S	(1 15 34)		
	i	(1 16 45)		
	L	(1 28)		
	F	(2 25)		
		Saskatoon		
	H	0 57.2	7,860	
	P	1 08 26		
	S	1 17 44		
	SS	1 22.2		
	SSS	1 25.7		
	L	1 33		
	F	4 20		
		Halifax		
	e	1 21.3		
	e_E	1 26.9		
	e	1 34.3		
	L	1 42		
	F	2 38		
		Seven Falls		
	H	0 57.1	9,850	
	P	1 09 58		
	S	1 20 46		
	PPS	1 21 58		
	SS	1 26.6		
	e	1 33 50		
	L	1 40		
	F	4 14		
		Seven Falls		
269 May 14	e	13 43 00		
	L	13 56		
	F	15 01		
		Seven Falls		
270 May 14	e	19 02 28		
	L	19 13		
	F	20 33		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 14, 1948 to May 14, 1948 No. 42

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
271 May 14	H	22 31.9	5,700	USCGS gives:-
	P	22 40 57		φ = 54°5 N.
	PP	22 43.0		λ = 161° W.
	iS	22 48 20		
	i	22 50 48		
	SS	22 51 50		
	SSS	22 53 22		
	iL	22 55 36		
	F	2 13		
		Victoria		
	H	(22 30.8)	2,745	No time correction
	P	(22 36 11)		
	PP	(22 36 44)		
	S	(22 40 36)		
	L	(22 42 30)		
	F	(2 10)		
		Saskatoon		
	H	22 31.9	3,420	
	P	22 38 13		
	S	22 43 24		
	SS	22 44 18		
	L	22 46 26		
	F	2 34		
		Halifax		
	H	22 32.1	6,290	
	P	22 41 48		
	S	22 49 45		
	e	22 51 22		
	SS	22 53.6		
	L	22 59		
	F	1 17		
		Seven Falls		
	H	22 32.0	5,790	
	P	22 41 08		
	PP	22 43 16		
	S	22 48 37		
	e	22 50 33		
	SS	22 52 32		
	L	22 55		
	F	1 56		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 14, 1948 to May 17, 1948 No. 43

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
271 May 14 (cont'd)	H	22 31.9	5,750	
	P	22 41 00		
	i	22 41 05		
	PP	22 43 03		
	S	22 48 27		
	SS	22 52 01		
	L	22 57		
	F	0 04		
		Seven Falls		
272 May 15	e	1 58 40		
	L	2 10		
	F	2 45		
		Victoria		
273 May 15	H	(2 41.3)	2,580	No clock correction
	P	(2 46 25)		
	PP	(2 46 59)		
	S	(2 50 37)		
	F	(3 05)		
		Ottawa		
274 May 17	H	17 48.7	5,680	USCGS gives:-
	PZ	17 57 44		φ = 55° N.
	S	18 05 07		λ = 161° W.
	SS	18 08.7		
	SSS	18 10 05		
	L	18 14		
	F	19 30		
		Victoria		
	H	17 48.8	2,500	
	P	17 53 50		
	PP	17 54 22		
	S	17 57 56		
	SS	17 58 45		
	L	18 00		
	F	18 56		
		Saskatoon		
	H	17 48.7	3,400	
	P	17 55 03		
	S	18 00 13		
	L	18 02.6		
	F	18 55		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 17, 1948 to May 23, 1948 No. 44

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Halifax		
274 May 17 (cont'd)	e	18 06 30		
	L	18 16		
	F	18 42		
		Seven Falls		
	H	17 48.8	5,800	
	P	17 57 55		
	S	18 05 25		
	SS	18 08.0		
	L	18 14		
	F	19 46		
		Ottawa		
287 May 22	H	19 21.3 ca	15,000	
	P'	19 40 39		
	SKP	19 44.1		
	e_E	19 59 48		
	SS	20 01		
	SSS	20 07.3		
	L	20 25		
	F	22 05		
		Victoria		
	e	20 04		
	L	20 11		
	F	20 43		
		Ottawa		
291 May 23	H	4 07.9	90	Cornwall?
	P_2	4 08 11.7		
	S_2	4 08 22.2		
	S_3	4 08 25		
	F	4 08.9		
		Ottawa		
292 May 23	H	4 12.2	13,350	USCGS gives:- φ = 18° S. λ = 169° E.
	P	4 31 02		
	SKS_E	4 37 42		
	PS	4 42.1		
	SS	4 49		
	L	5 13		
	F	5 49		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 23, 1948 to May 25, 1948 No. 45

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
292 May 23 (cont'd)	H	(4 13.3)	8,340	No clock correction
	P	(4 25.0)		
	PP	(4 27.7)		
	S	(4 34.7)		
	e_N	(4 36.0)		
	F	(5 17)		
		Ottawa		
298 May 25	H	7 12	11,000	USCGS gives:-
	PZ	7 25 50		φ = 30° N.
	PP	7 29.9		λ = 99°.5 E.
	PPP	7 32 21		
	SKS	7 36 15		
	PS	7 38 55		
	SS	7 44 35		
	SSS	7 49		
	L	7 59		
	F	10 18		
		Victoria		
	H	7 11.3	9,800	
	P	7 24 12		
	PP	7 27 58		
	SKS	7 34 31		
	S	7 34 58		
	PS	7 35 45		
	PPS	7 36 07		
	L	7 52		
	F	9 51		
		Saskatoon		
	H	7 11.3	10,700	
	PP	7 28.9		
	SKS	7 35 42		
	SKKS	7 36 11		
	S_N	7 36 33		
	PS_E	7 38 00		
	SS	7 43 08		
	SSS	7 47.5		
	L	7 57		
	F	10 50		
		Halifax		
	e	7 32		
	e	7 45		
	e	7 51		
	L	7 59		
	F	9 30		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 25, 1948 to May 26, 1948 No. 46

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
298 May 25 (cont'd)	H	7 11.2	11,100	
	PP	7 29 55		
	SKS	7 36.3		
	SKKS	7 37 09		
	S	7 37 33		
	PS	7 38.7		
	PPS	7 42 16		
	e	7 44 26		
	SS	7 48.3		
	L	7 57		
	F	11 07		
		Shawinigan Falls		
	e	7 36 16		
	e	7 48		
	F	8 44		
		Ottawa		
301 May 25	H	15 11.4	4,830	USCGS gives:- φ =43°5 N. λ = 127° W.
	PZ	15 19 25		
	PPP	15 21 36		
	S_E	15 26.0		
	L	15 32		
	F	16 00		
		Saskatoon		
	H	15 11.4	2,340	
	P	15 16 07		
	S	15 19 59		
	L	15 22		
	F	16 00		
		Ottawa		
302 May 26	H	9 17.0	5,280	USCGS gives:- φ = 56° N. λ = 156° W.
	PZ	9 25 32		
	PP	9 27 25		
	S	9 32 32		
	SS	9 35 25		
	L	9 39		
	F	10 48		
		Victoria		
	H	(9 15.9)	2,280	No clock correction
	P	(9 20 34)		
	S	(9 24 22)		
	SS	(9 25 11)		
	L	(9 26)		
	F	(10 27)		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM May 26, 1948 to May 31, 1948 No. 47

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Saskatoon		
302 May 26 (cont'd)	H	9 16.6	3,020	
	P	9 22 25		
	S	9 27 10		
	L	9 30		
	F	11 15		
		Halifax		
	eN	9 33 02		
	L	9 43		
	F	10 22		
		Seven Falls		
	P	9 25 45		
	e	9 27.8		
	L	9 41		
	F	11 09		
		Ottawa		
303 May 26	eZ	14 05 28		
	L	14 17		
	F	14 48		
		Ottawa		
306 May 28	H	5 36.3	6,330	USCGS gives:- $\varphi = 12^\circ$ S. $\lambda = 77^\circ$ W.
	P	5 46 01		
	S	5 54 00		
	SSS	5 59.8		
	L	6 06		
	F	6 15		
		Ottawa		
311 May 31	eZ	3 21 40		
	L	3 34		
	F	3 48		
		Ottawa		
312 May 31	H	21 00.9	150	
	P_2	21 01 17.6		
	S_2	21 01 35		
	S_1	21 01 38.5		
	e	21 01.44		
	F	21 02.1		

W. W. Doxsee.

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EARTHQUAKE CORRELATION TABLE

May, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	V. A.		
253	2	19 09+0 01P*	.....	.....	.....	.....	.....	.....	..
254	2	20 51+0 0.6v*	.....	.....	.....	.....	.....	.....	A
255	3	19 39+0 0.8P*	.....	.....	.....	.....	.....	.....	..
256	3	23 00+0 0.2P*	.....	.....	.....	.....	.....	.....	..
257	5	19 02+0 0.6v*	.....	.....	.....	.....	.....	.....	B
258	7	12 03+0 09v*	.....	.....	.....	.....	12 03+0 02v	12 03+0 14v	C
259	8	0 46+0 03P*	.....	.....	.....	.....	.....	.....	..
260	8	2 59+0 04P*	.....	.....	.....	.....	.....	2 59+0 05P	..
261	9	2 23+2 17u	2 20+0 25u	2 21+1 15u	2 58+0 41L	2 27+2 28u	.....	.....	D
262	9	9 08+0 56u	.....	8 41+1 21u	.....	9 03+1 08L	.....	.....	..
263	11	9 06+1 10u	9 07+0 53u	9 07+1 13u	9 06+0 37u	9 06+1 54u	9 06+0 24u	9 05+0 15P	E
264	11	9 44+0 03P	.....	.....	.....	.....	.....	.....	..
265	12	1 10+2 53U	1 07+1 18U	1 08+3 12U	1 21+1 17U	1 10+3 04U	1 10+0 57U	1 10+0 16P	F
266	12	1 34+9 01P*	.....	.....	.....	.....	.....	.....	..
267	12	1 54+0 02P*	.....	.....	.....	.....	.....	.....	..
268	14	0 10+0 05P*	.....	.....	.....	.....	.....	.....	..
269	14	.....	.....	.....	.....	13 43+1 18u	.....	.....	..
270	14	19 26+0 52L	.....	19 15+0 28L	.....	19 02+1 30u	.....	.....	..
271	14	22 41+3 32U	22 36+3 34R	22 38+3 56R	22 42+2 35U	22 41+3 15U	22 41+1 24U	22 41+1 23U	G
272	15	.....	.....	.....	.....	1 59+0 46u	.....	.....	..
273	15	2 58+0 24L	2 46+0 19r	2 54+0 23L	.....	.....	.....	.....	H
274	17	17 58+1 32u	17 54+1 02r	17 55+1 00r	18 06+0 36u	18 05+1 41u	17 58+0 32u	17 58+0 06P	J
275	17	18 08+0 03P*	.....	.....	.....	.....	.....	.....	..
276	19	10 21+0 06L	.....	.....	.....	.....	.....	.....	..
277	19	19 15+0 0.3P*	.....	.....	.....	.....	.....	.....	..
278	20	8 42+0 0.8P*	.....	.....	.....	.....	.....	.....	..
279	20	15 44+0 0.2P*	.....	.....	.....	.....	.....	.....	..
280	20	15 47+0 0.7P*	.....	.....	.....	.....	.....	.....	..
281	20	19 15+0 0.2P*	.....	.....	.....	.....	.....	.....	..
282	20	21 50+0 0.3P*	.....	.....	.....	.....	.....	.....	..

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International Seismological Centre

May, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
283	21	20 03+0 0.5P*	.....	.....	.....	.....	.....	.....	..
284	22	5 19+0 01P*	.....	.....	.....	.....	.....	.....	..
285	22	5 39+0 0.6P*	.....	.....	.....	.....	.....	.....	..
286	22	19 17+0 0.3P*	.....	.....	.....	.....	.....	.....	..
287	22	19 41+2 24u	20 04+0 39u	.....	20 31+0 19L	20 12+0 20L	.....	.....	K
288	22	19 46+0 04P*	.....	.....	.....	.....	.....	.....	..
289	22	19 55+0 0.7P*	.....	.....	.....	.....	.....	.....	..
290	22	20 20+0 0.3P*	.....	.....	.....	.....	.....	.....	..
291	23	4 08+0 0.7d*	.....	.....	.....	.....	.....	.....	M
292	23	4 31+1 18u	4 25+0 52u	.....	.....	4 34+1 21L	.....	.....	N
293	23	9 59+0 23L	.....	.....	.....	10 01+0 32L	.....	.....	..
294	23	20 22+0 0.5P*	.....	.....	.....	.....	.....	.....	..
295	24	10 35+0 09L	.....	.....	.....	.....	.....	.....	..
296	24	10 48+0 01P*	.....	.....	.....	.....	.....	.....	..
297	24	19 57+0 0.5P*	.....	.....	.....	.....	.....	.....	..
298	25	7 26+2 52U	7 24+2 27U	7 29+3 21U	7 32+1 58U	7 30+3 37U	7 30+1 26U	7 36+1 08U	P
299	25	12 35+0 03P	.....	.....	.....	.....	.....	12 35+0 06P	..
300	25	12 40+0 02P	.....	.....	.....	.....	.....	.....	..
301	25	15 19+0 40r	15 14+0 01P	15 16+0 44r	.....	15 33+0 31L	.....	.....	Q
302	26	9 26+1 22u	9 21+1 06r	9 22+1 52u	9 33+0 49u	9 28+1 41u	9 26+0 04P	9 26+0 04P	R
303	26	14 05+0 43u	.....	.....	.....	.....	.....	.....	..
304	27	.....	6 37+0 06L	.....	.....	.....	.....	.....	..
305	27	7 44+0 01P	.....	.....	.....	.....	.....	.....	..
306	28	5 46+0 29u*	.....	.....	.....	.....	5 46+0 03P	5 46+0 04P	S
307	28	10 49+0 02P	.....	.....	.....	.....	.....	.....	..
308	28	14 58+0 01P*	.....	.....	.....	.....	.....	.....	..
309	29	4 59+0 03P*	.....	.....	.....	.....	.....	.....	..
310	29	5 40+0 0.6P*	.....	.....	.....	.....	.....	.....	..
311	31	3 22+0 26u	3 18+0 17L	3 23+0 12L	.....	.....	.....	.....	..
312	31	21 01+0 01v	.....	.....	.....	.....	.....	.....	T

International Seismological Centre From the ISC collection scanned by SISMOS

CORRELATION OF EARTHQUAKES

May, 1948

N O T E S

A	:	Ottawa	Δ = 185 km.	H = $20^h50^m.5$ U.T.
B	:	Ottawa	Δ = 155 km.	H = $19^h01^m.5$ U.T.
C	:	Ottawa	Δ = 168 km.	H = $12^h02^m.4$ U.T.
		Seven Falls	Δ = 265 km.	H = 12 02.4 U.T.
		Shawinigan Falls	Δ = 107 km.	H = 12 02.4 U.T.
		Felt in Montreal City.		
D	:	Ottawa	Δ = 10,900 km.	H = 2^h09^m U.T.
		Victoria	Δ = 8,160 km.	H = 2 08.9 U.T.
		Saskatoon	Δ = 9,000 Km.	H = 2 09.2 U.T.
		Seven Falls	Δ = 11,100 km.	H = 2 09.4 U.T.
E	:	Ottawa	Δ = 6,700 km.	H = $8^h56^m.0$ U.T.
		Victoria	Δ = 8,800 km.	H = (8 55.1)U.T.
		Saskatoon	Δ = 8,250 km.	H = 8 55.9 U.T.
		Halifax	Δ = 6,580 km.	H = 8 56.0 U.T.
		Seven Falls	Δ = 6,820 km.	H = 8 56.1 U.T.
F	:	Ottawa	Δ = 9,880 km.	H = $0^h57^m.1$ U.T.
		Victoria	Δ = 6,935 km.	H = (0 56.6)U.T.
		Saskatoon	Δ = 7,860 km.	H = 0 57.2 U.T.
		Seven Falls	Δ = 9,850 km.	H = 0 57.1 U.T.
G	:	Ottawa	Δ = 5,700 km.	H = $22^h31^m.9$ U.T.
		Victoria	Δ = 2,745 km.	H =(22 30.8)U.T.
		Saskatoon	Δ = 3,420 km.	H = 22 31.9 U.T.
		Halifax	Δ = 6,290 km.	H = 22 32.1 U.T.
		Seven Falls	Δ = 5,790 km.	H = 22 32.0 U.T.
		Shawinigan Falls	Δ = 5,750 km.	H = 22 31.9 U.T.
H	:	Victoria	Δ = 2,580 km.	H = ($2^h41^m.3$)U.T.
J	:	Ottawa	Δ = 5,680 km.	H = $17^h48^m.7$ U.T.
		Victoria	Δ = 2,500 km.	H = 17 48.8 U.T.
		Saskatoon	Δ = 3,400 km.	H = 17 48.7 U.T.
		Seven Falls	Δ = 5,800 km.	H = 17 48.8 U.T.
K	:	Ottawa	Δ = 15,000 km.	H = $19^h21^m.3$ U.T.
M	:	Ottawa	Δ = 90 km.	H = $4^h07^m.9$ U.T.
N	:	Ottawa	Δ = 13,350 km.	H = $4^h12^m.2$ U.T.
		Victoria	Δ = 8,340 km.	H = (4 13.3)U.T.
P	:	Ottawa	Δ = 11,000 km.	H = 7^h12^m U.T.
		Victoria	Δ = 9,800 km.	H = 7 11.3 U.T.
		Saskatoon	Δ = 10,700 km.	H = 7 11.3 U.T.
		Seven Falls	Δ = 11,100 km.	H = 7 11.2 U.T.
Q	:	Ottawa	Δ = 4,830 km.	H = $15^h11^m.4$ U.T.
		Saskatoon	Δ = 2,340 km.	H = 15 11.4 U.T.
R	:	Ottawa	Δ = 5,280 km.	H = $9^h17^m.0$ U.T.
		Victoria	Δ = 2,280 km.	H = (9 15.9)U.T.
		Saskatoon	Δ = 3,020 km.	H = 9 16.6 U.T.

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CORRELATION OF EARTHQUAKES

May, 1948

N O T E S

S : Ottawa Δ = 6,330 km. H = $5^h36^m.3$ U.T.

T : Ottawa Δ = 150 km. H = $21^h00^m.9$ U.T.

Dominion Observatory,
Ottawa, Canada,
July 26, 1948.

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED
	May, 1948	
St. Louis	July, August, 1943	May 1
Tananarive	Year, 1940	" 3
Istanbul	February, 1948	" 3
Cleveland	February, March, 1948	" 3
Strasbourg	March, 1948; Supplement November, 1947	" 3
Bureau Central	December, 1947	" 3
Toledo	Year, 1948	" 4
Saint Louis and Auxiliary Stations	Preliminaies January, February, 1948	" 5
Rome	March, 1948	" 6
Richmond	October - December, 1936	" 9
Saint Louis and Auxiliary Stations	Preliminaries January, March, 1948	" 12
Tananarive	Year, 1945	" 12
Wellington	February, 1948	" 13
Perth	October - December, 1947	" 13
Almeria	May, June, 1947	" 14
Budapest	January - March, 1948	" 14
Kalocsa	January - March, 1948	" 14
Malaga	August - September, 1947	" 15
Santa Clara	April, 1948	" 15
Belgrade	March, 1948	" 17
Apia	January - March, 1948	" 17
Santiago	March, 1948	" 18
Richmond	March, 1948	" 18
La Plata	July - December, 1946	" 19
Budapest	April, 1948	" 21
Kalocsa	April, 1948	" 21
De Bilt	April, 1948	" 25
Ksara	February - March, 1948	" 25
Pasadena	July - September, 1947; Preliminaries March, April, May, 1948	" 27
Saint Louis and Auxiliary Stations	Preliminaries March, 1948	" 29
Stuttgart	January - March, 1948	" 29

Dominion Observatory,
Ottawa - Canada,
August 31, 1948.

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 1, 1948 to June 11, 1948 No. 48

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
314 June 1	i_Z	19 12 50		
	e_Z	19 15 20		
	L	19 51		
	F	21 07		
		Seven Falls		
	e	19 34.1		
	L	19 48		
	F	21 12		
		Ottawa		
320 June 8	e_Z	4 01 15		
	L	4 23		
	F	4 42		
		Ottawa		
321 June 9	H	3 04.2	147	Felt in Montreal area
	P_3	3 04 35.5		
	P_1	3 04 39		
	i	3 04 41		
	S_3	3 04 53.3		
	S_1	3 04 57.5		
	F	3 07.5		
		Seven Falls		
	H	3 04.3	255	
	P_2	3 05 01		
	S_2	3 05 30		
	F	3 06		
		Shawinigan Falls		
	H	3 04.2	172	
	P_3	3 04 39.4		
	P_1	3 04 43.3		
	S_3	3 05 00		
	S_1	3 05 04		
	F	3 07		
		Ottawa		
323 June 11	H	18 41.2	150	
	P_2	18 41 36.5		
	S_2	18 41 54		
	e	18 42 02		
	F	18 42.3		

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 11, 1948 to June 15, 1948 No. 49

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
327 June 14	H	16 21.8	165	
	P_2	16 22 12.7		
	S_2	16 22 31.5		
	e	16 22 37		
	F	16 22.9		
		Ottawa		
328 June 15	H	11 44.6	10,900	USCGS gives:- $\varphi = 33°5$ N. $\lambda = 136°$ E.
	P_Z	11 58 12		
	e_Z	12 01 18		
	PP_Z	12 01 50		
	SKS	12 08 46		
	SKKS	12 09 26		
	PS	12 10 50		
	L	12 28		
	F	14 33		
		Saskatoon		
	H	11 45.0	8,580	
	P	11 56 51		
	S	12 06 44		
	SS	12 12.0		
	L	12 20		
	F	13 30		
		Victoria		
	H	11 44.9	7,950	
	P	11 56 13		
	S	12 05 35		
	e	12 06 27		
	L	12 17		
	F	13 41		
		Halifax		
	e	12 09.1		
	L	12 36		
	F	13 22		
		Ottawa		
330 June 15	e_Z	15 15 30		
	L	15 40		
	F	15 55		

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 15, 1948 to June 19, 1948 No. 50

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
332 June 18	H	0 53.8	13,700	USCGS gives:- φ = 6° S. λ = 155° E.
	P_Z	1 12 43		
	PP	1 14 21		
	i_Z	1 16 18		
	SKS	1 19 40		
	SKKS	1 21 11		
	PPS	1 25.7		
	e_Z	1 30 31		
	SSS	1 38		
	L	1 53		
	F	3 30		
		Victoria		
	e	1 17 17		
	L	1 31		
	F	2 05		
		Saskatoon		
	e	1 18.5		
	L	1 36		
	F	2 35		
		Seven Falls		
	e	1 19 48		
	e	1 22.0		
	e	1 31.1		
	L	1 46		
	F	3 26		
		Ottawa		
335 June 18	e_Z	10 39 14		
	L	11 02		
	F	12 00		
		Ottawa		
337 June 18	e_Z	18 57 24		
	L	19 28		
	F	20 14		
		Ottawa		
338 June 19	i_Z	16 03 31		Nearby quake
	e	16 03 52		
	F	16 04		

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 19, 1948 to June 21, 1948 No. 51

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
340 June 19	e_Z	23 03 16		
	L	23 12		
	F	23 22		
		Ottawa		
342 June 21	i_Z	12 24 32		USCGS gives:-
	e_Z	12 26 35		φ = 3° N.
	e_Z	12 37.6		λ = 126° E.
	L	13 13		
	F	14 38		
		Victoria		
	e	12 30.6		
	L	12 48		
	F	13 06		
		Saskatoon		
	e	12 24.3		
	e	12 30.6		
	e	12 33.8		
	L	12 53		
	F	13 48		
		Ottawa		
343 June 21	H	13 07.7	1,570	
	P_Z	13 11 04		
	S_Z	13 13 50		
	LM	13 15 36		
	F	13 28		
		Seven Falls		
	H	13 07.8	1,235	
	P	13 10 27		
	S	13 12 42		
	L	13 13 19		
	F	13 25		
		Shawinigan Falls		
	H	13 07.7	1,355	
	P	13 10 39		
	S	13 13 05		
	L	13 13 56		
	F	13 25		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 21, 1948 to June 27, 1948 No. 52

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
346 June 21	H	18 23.0	165	
	P_2	18 23 25.5		
	S_2	18 23 45.5		
	e	18 23 51		
	F	18 24.2		
		Ottawa		
348 June 22	H	20 22.4	150	
	P_2	20 22 49.5		
	S_2	20 23 06.5		
	i	20 23 10		
	e	20 23 17		
	F	20 23.6		
		Ottawa		
350 June 22	e_Z	22 26 26		
	L	23 00		
	F	23 17		
		Ottawa		
354 June 24	H	19 55.5	210	
	P_2	19 56 06		
	S_2	19 56 30		
	e	19 56 40		
	F	19 56.8		
		Ottawa		
357 June 25	H	15 09.6	165	
	P_2	15 10 03		
	S_2	15 10 22		
	e	15 10 26.5		
	F	15 10.9		
		Ottawa		
360 June 27	H	12 48.4	3,170	USCGS gives:-
	iP_Z	12 54 23		φ = 17° N.
	PP	12 55 10		λ = 85° W.
	PPP	12 55 26		
	S	12 59 18		
	SS	13 00 30		
	L	13 03		
	F	14 00		

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 27, 1948 to June 27, 1948 No. 53

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
360 June 27 (cont'd)	H	12 48.4	4,845	
	iP	12 56 28		
	S	13 03 04		
	SSS	13 06 26		
	L	13 09		
	F	14 16		
		Saskatoon		
	H	12 48.5	3,720	
	P	12 55 13		
	PP	12 56 22		
	S	13 00 43		
	L	13 05		
	F	13 50		
		Halifax		
	e	13 00 20		
	L	13 06		
	F	13 26		
		Seven Falls		
	H	2 48.3	3,535	
	P	12 54 49		
	S	13 00 07		
	SS	13 01.8		
	L	13 04		
	F	14 05		
		Shawinigan Falls		
	P	12 54 40		
	L	13 05		
	F	13 14		
		Ottawa		
361 June 27	H	21 39.5	5,330	USCGS gives:- φ = 56° N. λ = 158° W.
	P_Z	21 48 06		
	S	21 55 09		
	SS	21 58 00		
	SSS	21 59.3		
	L	22 03		
	F	23 25		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 27, 1948 to June 28, 1948 No. 54

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
361 June 27 (cont'd)	H	21 39.3	2,320	
	P	21 44 00		
	PP	21 44 15		
	S	21 47 52		
	L	21 49.7		
	F	23 25		
		Saskatoon		
	H	21 39.3	2,500	
	PPP	21 45 12		
	S	21 48 27		
	SS	21 49 24		
	L	21 50.3		
	F	23 00 ca.		
		Halifax		
	e	22 06.0		
	L	22 09		
	F	22 36		
		Seven Falls		
	H	21 39.6	5,400	
	P	21 48 17		
	S	21 55 24		
	e	21 58 06		
	SS	21 59 13		
	L	22 03		
	F	23 27		
		Shawinigan Falls		
	P	21 48 12		
	L	22 06		
	F	22 14		
		Ottawa		
362 June 28	H	7 13.3	10,700	USCGS gives:-
	P	7 26 46		$\varphi = 36^\circ$ N.
	Z	7 30 38		$\lambda = 136^\circ.5$ E.
	PP	7 32 47		
	PPP	7 37 34		
	e	7 38 09		
	S	7 39 20		
	PS	7 44.4		
	SS	8 00		
	L	10 15		
	F			

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 28, 1948 to June 28, 1948 No. 55

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
362 June 28 (cont'd)	H	7 13.4	7,880	
	P	7 24 37		
	i	7 24 41		
	PP	7 27 23		
	S	7 33 56		
	PS	7 34 26		
	SS	7 38 52		
	SSS	7 41.4		
	L	7 47		
	F	10 30		
		Saskatoon		
	H	7 13.2	8,145	
	P	7 24 39		
	PP	7 27 27		
	S	7 34 12		
	PS	7 34 57		
	SS	7 39 24		
	SSS	7 42 08		
	L	7 47		
	F	9 30		
		Halifax		
	H	7 13.4	11,100	
	PP	7 31 09		
	SKS	7 37.7		
	PS	7 40 12		
	SS	7 45.4		
	L	8 00		
	F	9 03		
		Seven Falls		
	H	7 13.4	10,650	
	P	7 26 50		
	PP	7 30 45		
	SKS	7 37 19		
	S	7 38 11		
	SS	7 49.3		
	L	8 00		
	F	10 36		
		Shawinigan Falls		
	P	7 26 51		
	L	8 03		
	F	8 35		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 28, 1948 to June 29, 1948 No. 56

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
364 June 28	e_Z	23 42 41		
	L	0 00		
	F	0 32		
		Victoria		
	i_Z	23 38 36		
	e	23 42 34		
	L	23 44.2		
	F	0 12		
		Ottawa		
365 June 29	H	10 28.4	11,900	USCGS gives:-
	P	10 42 45		φ = 16° S.
	PP	10 47 06		λ = 172° W.
	SKS	10 53 24		
	S_M	10 54 40		
	PS	10 56 25		
	SS	11 02 15		
	L	11 18		
	F	13 14		
		Victoria		
	H	10 28.6	8,555	
	iP	10 40 26		
	PP	10 43 23		
	PPP	10 45 11		
	S	10 50 18		
	PS	10 51 11		
	SS	10 55 48		
	SSS	10 58.7		
	L	11 01		
	F	13 29		
		Saskatoon		
	H	10 28.6	9,780	
	P	10 41 26		
	PP	10 44 56		
	S	10 52 11		
	PPS	10 53 26		
	SS	10 58 26		
	SSS	11 01 36		
	L	11 09		
	F	13 00 ca.		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 29, 1948 to June 29, 1948 No. 57

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
365 June 29 (cont'd)		Halifax		
	H	10 28.5	12,700	
	PP	10 48.1		
	SKS	10 54 02		
	PS	10 57.8		
	eN	10 15		
	L	10 21		
	F	12 05		
		Seven Falls		
	H	10 28.5	12,200	
	P	10 43 02		
	e	10 47 06		
	PP	10 47 33		
	SKS	10 53 39		
	PS	10 56 59		
	SS	11 03.1		
	L	11 20		
	F	13 10		
		Ottawa		
369 June 29	H	16 06.5	8,720	USCGS gives:- φ = 43° N. λ = 47° E.
	P	16 18 29		
	S	16 28 28		
	L	16 43		
	F	18 08		
		Victoria		
	H	16 06.5	10,870	
	iPZ	16 20 09		
	S	16 31 38		
	L	16 55		
	F	17 33		
		Seven Falls		
	H	16 06.5	8,320	
	P	16 18 07		
	S	16 27.8		
	L	16 39		
	F	18 01		
		Ottawa		
371 June 30	H	12 21.6	7,280	USCGS gives:- φ = 38°.5 N. λ = 20°.5 E.
	P	12 32 14		
	S	12 41 06		
	SS	12 45.7		
	SSS	12 48.0		
	L	12 53		
	F	14 33		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM June 29, 1948 to June 30, 1948 No. 58

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
371 June 30 (cont'd)	H	12 21.9	9,960	
	P_Z	12 34 51		
	S_N	12 45 44		
	L	13 06		
	F	13 50		
		Saskatoon		
	H	12 21.5	8,655	
	P	12 33 22		
	PP	12 36 25		
	S	12 43 18		
	SS	12 48 22		
	SSS	12 51 25		
	L	12 59		
	F	14 10		

W. W. Doxsee.

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International Seismological Centre

EARTHQUAKE CORRELATION TABLE

June, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
313	1	15 24+0 0.2P	.....	.....	.....	.....	.....	.....	..
314	1	19 13+1 54u	19 55+0 38L	.....	20 07+0 26L	19 34+1 38u	.....	.....	..
315	2	13 54+0 44L	14 02+0 13L	.....	.....	13 56+0 27L	.....	.....	..
316	4	0 59+0 0.6P*	.....	.....	.....	.....	.....	.....	..
317	6	9 59+0 01P*	.....	.....	.....	.....	.....	.....	..
318	7	16 27+0 0.8P*	.....	.....	.....	.....	.....	.....	..
319	8	3 32+0 0.8P*	.....	.....	.....	.....	.....	.....	..
320	8	4 01+0 41u	.....	.....	.....	4 22+0 19L	.....	.....	..
321	9	3 05+0 03v	.....	.....	.....	.....	3 05+0 01v	3 05+0 02v	A
322	10	22 40+0 0.6P*	.....	.....	.....	.....	.....	.....	..
323	11	18 42+0 0.7v	.....	.....	.....	.....	.....	.....	B
324	14	9 28+0 02P	.....	.....	.....	.....	.....	.....	..
325	14	10 16+0 01P	.....	.....	.....	.....	.....	.....	..
326	14	16 04+0 0.5P*	.....	.....	.....	.....	.....	.....	..
327	14	16 22+0 0.7v*	.....	.....	.....	.....	.....	.....	C
328	15	11 58+2 35u	11 56+1 45u	11 57+1 33u	12 09+1 13u	.....	.....	.....	D
329	15	12 23+0 0.4P*	.....	.....	.....	.....	.....	.....	..
330	15	15 15+0 40u	.....	.....	.....	.....	.....	.....	..
331	17	7 04+0 01P*	.....	.....	.....	.....	.....	.....	..
332	18	1 13+2 17u	1 17+0 48u	1 18+1 17u	1 48+0 29L	1 20+2 06u	.....	.....	E
333	18	6 18+0 02P*	.....	.....	.....	.....	.....	.....	..
334	18	.....	.....	8 21+0 07L	.....	.....	.....	.....	..
335	18	10 39+1 21u	.....	10 53+0 18L	.....	11 01+0 41L	.....	.....	..
336	18	17 40+0 50L	.....	.....	.....	17 48+0 31L	.....	.....	..
337	18	18 57+1 17u	.....	.....	.....	19 26+0 45L	.....	.....	..
338	19	16 03+0 0.5v	.....	.....	.....	.....	.....	.....	..
339	19	.....	.....	.....	.....	17 30+0 10L	.....	.....	..
340	19	23 03+0 19r	.....	.....	.....	.....	.....	.....	..
341	21	4 51+0 01P*	.....	.....	.....	.....	.....	.....	..
342	21	12 25+2 13u	12 31+0 35u	12 24+1 24u	.....	.....	.....	.....	..
343	21	13 11+0 17r	.....	.....	.....	.....	13 10+0 15r	13 11+0 14r	F

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International Seismological Centre

EARTHQUAKE CORRELATION TABLE

June, 1948

No.	Date	Ottawa	Victoria	Saskatoon	Halifax	Seven Falls		Shawinigan	**
						M. S.	W. A.		
344	21	14 04+0 01P	.....	.....	.....	.....	.....	.....	..
345	21	14 17+0 02P	.....	.....	.....	.....	.....	.....	..
346	21	18 23+0 0.8v	.....	.....	.....	.....	.....	.....	G
347	21	20 27+0 0.2P	.....	.....	.....	.....	.....	.....	..
348	22	20 23+0 0.8v	.....	.....	.....	.....	.....	.....	H
349	22	22 00+0 0.6P*	.....	.....	.....	.....	.....	.....	..
350	22	22 26+0 51u	.....	.....	.....	.....	.....	.....	..
351	23	0 49+0 01P*	.....	.....	.....	.....	.....	.....	..
352	23	16 21+0 0.8P*	.....	.....	.....	.....	.....	.....	..
353	24	18 25+0 0.5P	.....	.....	.....	.....	.....	.....	..
354	24	19 56+0 0.7v	.....	.....	.....	.....	.....	.....	J
355	24	20 59+0 0.2P	.....	.....	.....	.....	.....	.....	..
356	25	9 27+0 03P	.....	.....	.....	.....	.....	.....	..
357	25	15 10+0 0.9v	.....	.....	.....	.....	.....	.....	K
358	25	15 30+0 01P	.....	.....	.....	.....	.....	.....	..
359	27	.....	0 54+0 36L	.....	.....	1 00+0 40L	.....	.....	..
360	27	12 54+1 06R	12 56+1 20r	12 55+0 55r	13 00+0 26r	13 00+1 05r	12 55+0 18r	12 55+0 19r	M
361	27	21 48+1 37u	21 44+1 41R	21 45+1 15r	22 06+0 30u	21 55+1 32u	21 48+0 28u	21 48+0 26u	N
362	28	7 27+2 48U	7 25+3 05U	7 25+2 05U	7 31+1 32U	7 31+3 05U	7 27+1 05U	7 27+1 08U	P
363	28	8 44+0 01P	.....	.....	.....	.....	.....	.....	..
364	28	23 43+0 49u	23 39+0 33u	.....	.....	23 53+0 29L	.....	.....	..
365	29	10 43+2 31U	10 40+2 49U	10 41+2 20U	10 48+1 17U	10 43+2 27U	.....	.....	Q
366	29	10 59+0 08P*	.....	.....	.....	.....	.....	.....	..
367	29	11 27+0 0.5P*	.....	.....	.....	.....	.....	.....	..
368	29	15 02+0 02P	15 15+0 07L	.....	.....	.....	.....	.....	..
369	29	16 18+1 50u	16 20+1 13u	.....	.....	16 28+1 33u	16 18+0 04P	.....	R
370	29	22 25+0 0.1P	.....	.....	.....	.....	.....	.....	..
371	30	12 32+2 01u	12 35+1 15u	12 33+1 37u	.....	12 45+1 32L	.....	.....	S
372	30	15 32+0 0.4P*	.....	.....	.....	.....	.....	.....	..
373	30	19 44+0 0.5P	.....	.....	.....	.....	.....	.....	..
374	30	23 17+0 0.8P	.....	.....	.....	.....	.....	.....	..

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CORRELATION OF EARTHQUAKES

June, 1948

N O T E S

A	:	Ottawa	Δ = 147 km.	H = 3^h04^m2 U.T.
		Seven Falls	Δ = 255 km.	H = 3 04.3 U.T.
		Shawinigan Falls	Δ = 172 km.	H = 3 04.2 U.T.
B	:	Ottawa	Δ = 150 km.	H = 18^h41^m2 U.T.
C	:	Ottawa	Δ = 165 km.	H = 16^h21^m8 U.T.
D	:	Ottawa	Δ = 10,900 km.	H = 11^h44^m6 U.T.
		Victoria	Δ = 7,950 km.	H = 11 44.9 U.T.
		Saskatoon	Δ = 8,580 km.	H = 11 45.0 U.T.
E	:	Ottawa	Δ = 13,700 km.	H = 0^h53^m8 U.T.
F	:	Ottawa	Δ = 1,570 km.	H = 13^h07^m7 U.T.
		Seven Falls	Δ = 1,235 km.	H = 13 07.8 U.T.
		Shawinigan Falls	Δ = 1,355 km.	H = 13 07.7 U.T.
G	:	Ottawa	Δ = 165 km.	H = 18^h23^m0 U.T.
H	:	Ottawa	Δ = 150 km.	H = 20^h22^m4 U.T.
J	:	Ottawa	Δ = 210 km.	H = 19^h55^m5 U.T.
K	:	Ottawa	Δ = 165 km.	H = 15^h09^m6 U.T.
M	:	Ottawa	Δ = 3,170 km.	H = 12^h48^m4 U.T.
		Victoria	Δ = 4,845 km.	H = 12 48.4 U.T.
		Saskatoon	Δ = 3,720 km.	H = 12 48.5 U.T.
		Seven Falls	Δ = 3,535 km.	H = 12 48.3 U.T.
N	:	Ottawa	Δ = 5,330 km.	H = 21^h39^m5 U.T.
		Victoria	Δ = 2,320 km.	H = 21 39.3 U.T.
		Saskatoon	Δ = 2,500 km.	H = 21 39.3 U.T.
		Seven Falls	Δ = 5,400 km.	H = 21 39.6 U.T.
P	:	Ottawa	Δ = 10,700 km.	H = 7^h13^m3 U.T.
		Victoria	Δ = 7,880 km.	H = 7 13.4 U.T.
		Saskatoon	Δ = 8,145 km.	H = 7 13.2 U.T.
		Halifax	Δ = 11,100 km.	H = 7 13.4 U.T.
		Seven Falls	Δ = 10,650 km.	H = 7 13.4 U.T.
Q	:	Ottawa	Δ = 11,900 km.	H = 10^h28^m4 U.T.
		Victoria	Δ = 8,555 km.	H = 10 28.6 U.T.
		Saskatoon	Δ = 9,780 km.	H = 10 28.6 U.T.
		Halifax	Δ = 12,700 km.	H = 10 28.5 U.T.
		Seven Falls	Δ = 12,200 km.	H = 10 28.5 U.T.
R	:	Ottawa	Δ = 8,720 km.	H = 16^h06^m5 U.T.
		Victoria	Δ = 10,870 km.	H = 16 06.5 U.T.
		Seven Falls	Δ = 8,320 km.	H = 16 06.5 U.T.
S	:	Ottawa	Δ = 7,280 km.	H = 12^h21^m6 U.T.
		Victoria	Δ = 9,960 km.	H = 12 21.9 U.T.
		Saskatoon	Δ = 8,165 km.	H = 12 21.5 U.T.

Dominion Observatory,
Ottawa, Canada,
Aug. 5, 1948.

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED
	June, 1948	
Belgrade	April, 1948	June 1
Jena	January, 1944 - December, 1946	" 8
Ksara	April, 1948	" 8
Santa Clara	May, 1948	" 8
Bureau Central	January, 1948; Supplement December, 1947	" 8
Strasbourg	April 1 - May 10, 1948	" 8
Wellington	March, 1948	" 8
La Paz	July - October, 1947	" 8
Istanbul	October, November, 1947	" 8
Uccle	April, May, 1948	" 9
De Bilt	Year, 1944	" 14
Malaga	November, 1947	" 14
Upsala	January, 1919 - September, 1920	" 16
Bureau Central	February, 1948	" 17
Strasbourg	May 10 - 20, 1948	" 17
Bogota	January - February, 1947	" 18
Saint Louis and Auxiliary Stations	September, October, 1943; Preliminaries January, February, April, 1948	" 21
Zi-Ka-Wei	Years 1943 - 1947	" 21
Rome	April, 1948	" 22
Brisbane	March, 1948	" 22
Pasadena	January - March, 1948	" 22
Richmond	April, 1948	" 26
Kalocsa	May, 1948	" 26
Budapest	May, 1948	" 26
Helsinki	January - March, 1948	" 28
Uccle	May, 1948	" 30

Dominion Observatory,
Ottawa - Canada,
August 31, 1948.

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DEPARTMENT OF MINES AND RESOURCES

MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

July, 1948

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DOMINION OBSERVATORY

OTTAWA - CANADA

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International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL SERVICE OF CANADA
DOMINION OBSERVATORY, OTTAWA

C. S. Beals, Dominion Astronomer
Ernest A. Hodgson, Chief, Seismological Division
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 200 g.

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.

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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.

Benioff Vertical, short-period, designated B 5705, photographic registration, paper speed of 60 mm. per min., mass 235 lbs., installed June, 1948.

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	Ts	Tg	V	ϵ	DISPLACEMENT FOR 1" ARC TILT
17 (Ottawa)	12.0		300	20:1	50 mm.
23 (Ottawa)	12.0		300	20:1	50 mm.
BS (Ottawa)	1.0	0.1			
BL (Ottawa)	1.0	48			
HN (Halifax)	5.0		125	20:1	
HE (Halifax)	5.0		125	20:1	
SA (Shawinigan)	1.0		2200		
B 5705 (Victoria)	1.0	0.1			
20 (Victoria)	12.0		300	20:1	50 mm.
21 (Victoria)	12.0		300	20:1	50 mm.
SF (Seven Falls)	1.0		2200		
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

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 1, 1948 to July 3, 1948 No. 59

No. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
375 July 1	eZ	1 54 30		
	F	1 57		
		Ottawa		
376 July 1	H	22 26.4	260	
	P_3	22 27 00		
	i	22 27 01.5		
	S_3	22 27 29.5		
	i	22 27 32		
	e	22 27 50.5		
	F	22 28.2		
		Ottawa		
377 July 2	eZ	19 38 06		
	eZ	19 38 11		
	F	19 38.7		
		Ottawa		
378 July 2	e	23 04 03		
	F	23 05.5		
		Victoria		
379 July 3	H	3 36.8	260	
	P_3	3 37 27.5		
	P_2	3 37 30.5		
	P_1	3 37 34.5		
	S_3	3 37 56		
	S_2	3 38 00.2		
	S_1	3 38 04.4		
	F	3 39		
		Ottawa		
380 July 3	eZ	4 23 03		
	eZ	4 23 42		
	F	4 25.5		
		Victoria		
	eZ	4 25 02		
	F	4 28		
		Victoria		
381 July 3	eZ	13 01 55		
	F	13 04		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 3, 1948 to July 5, 1948 No. 60

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
383 July 3	e_Z	15 52 42		
	F	15 53.1		
		Ottawa		
384 July 3	e_Z	20 27 18		
	F	20 27.8		
		Ottawa		
385 July 3	e_Z	21 51 36		
	i_Z	21 52 20		
	F	21 53.1		
		Ottawa		
386 July 4	e_Z	5 24 04		
	F	5 24.3		
		Ottawa		
387 July 4	e_Z	12 28 09		
	i_Z	12 28 25		
	F	12 30		
		Ottawa		
388 July 4	e_Z	16 12 33		
	F	16 12.8		
		Ottawa		
389 July 5	e_Z	13 50 02		
	F	13 50.6		
		Ottawa		
390 July 5	H	13 52.1	12,200	
	P_Z	14 06 36		
	SKS	14 17.3		
	S	14 19.0		
	SS	14 30		
	L	14 44		
	F	16 hrs. ca.		
		Victoria		
	e_N	14 18.1		
	e_N	14 35		
	L	14 46		
	F	15 44		
		Seven Falls		
	L	14 18		
	F	15 59		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 5, 1948 to July 7, 1948 No. 61

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
391 July 6	e_Z	18 26 44		
	F	18 27.1		
		Ottawa		
392 July 6	e_Z	19 08 12		
	F	19 09.5		
		Ottawa		
393 July 7	H	2 19.4	10,800	USCGS gives:-
	P	2 32 56		φ = 33° N.
	PPP	2 39.5		λ = 136° E.
	SKS	2 43.5		
	PS	2 45.5		
	SS	2 50.7		
	e	2 58		
	L	3 03		
	F	4 36		
		Victoria		
	i_Z	2 30 45		
	e_N	2 39 08		
	L	2 48		
	F	4 23		
		Saskatoon		
	e	2 40 30		
	L	2 52		
	F	4 05		
		Seven Falls		
	L	2 44		
	F	4 23		
		Ottawa		
394 July 7	e_Z	4 47.2		
	i_Z	4 47 59		
	F	4 48.4		
		Ottawa		
395 July 7	H	7 38.0	150	Felt in Montreal area.
	P_3	7 38 23		
	i	7 38 24.6		
	P_1	7 38 26.5		
	S_3	7 38 40.2		
	i	7 38 43.2		
	S_1	7 38 44.0		
	F	7 42		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 7, 1948 to July 8, 1948 No. 62

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
395 July 7 (cont'd)	H	7 38.0	180	
	P_3	7 38 29.5		
	S_3	7 38 50.5		
	S_2	7 38 51.4		
	F	7 40.5		
		Victoria		
396 July 7	iZ	14 39 54		
	iZ	14 40 02		
	F	14 41		
		Victoria		
397 July 8	iZ	0 01 35		
	F	0 03		
		Ottawa		
398 July 8	H	12 34.7	4,600	USCGS gives:- $\varphi = 71^\circ$ N. $\lambda = 6^\circ$ W.
	P	12 42 31		
	PP	12 44 09		
	S	12 48 54		
	SS	12 51.8		
	L	12 55		
	F	13 17+		
		Victoria		
	H	12 34.8	5,920	
	P	12 44 04		
	S	12 51 40		
	L	13 00		
	F	13 39		
		Saskatoon		
	H	12 34.8	4,980	
	P	12 43 00		
	S	12 49 43		
	SS	12 53.0		
	L	12 57		
	F	13 33		
		Victoria		
399 July 8	eZ	14 02 08		
	F	14 05		
		Ottawa		
400 July 8	eZ	17 26 28		
	F	17 28		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 8, 1948 to July 9, 1948 No. 63

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
401 July 8	e_Z	21 37 13		
	F	21 37.5		
		Victoria		
402 July 8	i_Z	21 56 04		
	i_Z	21 56 15		
	F	21 59		
		Ottawa		
403 July 8	H	22 04.5	155	
	P_2	22 04 55.5		
	S_2	22 05 13.5		
	e	22 05 17		
	F	22 05.5		
		Victoria		
404 July 8	e_Z	(22 38 09)		No clock correction
	F	(22 39)		
		Victoria		
405 July 9	e_Z	(1 45 54)		No clock correction
	F	(1 47)		
		Victoria		
406 July 9	e_Z	(1 53 42)		No clock correction
	F	(1 56)		
		Ottawa		
407 July 9	e_Z	8 01 11		
	F	8 02		
		Ottawa		
408 July 9	e_Z	11 36 01		
	F	11 37		
		Victoria		
	e_Z	(11 38 23)		No clock correction
	F	(11 41)		
		Victoria		
409 July 9	i_Z	(15 47 34.5)		Local?
	i_Z	(15 47 39)		No clock correction
	F	(15 50)		

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DOMINION OBSERVATORY, OTTAWA

FROM July 9, 1948 to July 14, 1948 No. 64

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
410 July 9	e_Z	18 17 13		
	F^Z	18 17.7		
		Ottawa		
411 July 10	e_Z	14 00 12		
	F^Z	14 00.6		
		Ottawa		
412 July 10	e_Z	16 53 08		
	F^Z	16 53.6		
		Ottawa		
413 July 10	e_Z	20 55 51		
	F^Z	20 56.1		
		Ottawa		
414 July 10	e_Z	21 08 42		
	F^Z	21 08.8		
		Ottawa		
415 July 12	e_Z	17 20 10		
	F^Z	17 22		
		Ottawa		
416 July 12	e_Z	23 22.0		
	L^Z	23 31		
	F	23 45		
		Shawinigan Falls		
417 July 13	H	14 06.0	52	
	P_1	14 06 13		
	S_1	14 06 18.7		
	F	14 06.7		
		Shawinigan Falls		
418 July 13	H	15 20.5	52	
	P_1	15 20 37		
	e	15 20 37.5		
	S_1	15 20 43.2		
	e	15 20 44.8		
	F	15 23		
		Ottawa		
419 July 14	e_Z	22 48 04		USCGS gives:- $\varphi = 4^\circ$ S. $\lambda = 142^\circ$ E.
	e	22 50 08		
	e	22 58 30		
	L	23 26		
	F	1 05		

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SEISMOLOGICAL SERVICE OF CAN...

DOMINION OBSERVATORY, OTTAWA

FROM July 14, 1948 to July 15, 1948 No. 65

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
419 July 14 (cont'd)	i_Z	(22 43 31)		No clock correction
	e	(22 54 48)		
	L	(23 01)		
	F	(1 25)		
		Saskatoon		
	e_{NW}	22 45 26		
	e	22 48 20		
	e	22 55 18		
	L	23 17		
	F	1 05		
		Halifax		
	e	22 51.8		
	e	23 00.0		
	L	23 27		
	F	0 12		
		Seven Falls		
	e	22 49 56		
	e	22 56 16		
	e	22 59 06		
	L	23 25		
	F	1 22		
		Ottawa		
420 July 15	H	11 02.1	4,745	USCGS gives:- φ = 10° N. λ = 104° W.
	P	11 10 03		
	S	11 16 34		
	SS	11 19.8		
	L	11 23		
	F	12 30		
		Victoria		
	H	(11 03.4)	4,580	No clock correction
	P	(11 11 09)		
	S	(11 17 31)		
	SS	(11 21 00)		
	L	(11 26)		
	F	(12 57)		
		Saskatoon		
	H	11 02.3	4,555	
	P	11 09 58		
	PP	11 11 21		
	PPP	11 12 04		
	S	11 16 18		
	SS	11 18 48		
	SSS	11 19 39		
	L	11 22		
	F	12 30		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, O TAWA

FROM July 15, 1948 to July 16, 1948 No. 66

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
420 July 15 (cont'd)	H	11 02.3	5,050	
	P	11 10 37		
	PP	11 12 27		
	S	11 17 25		
	SS	11 21.0		
	L	11 26		
	F	12 34		
		Shawinigan Falls		
421 July 16	e	7 19 20		
	F	7 23		
		Ottawa		
422 July 16	H_1	7 12.5	3,565	Dual quake.
	H_2	7 19.9	3,500	USCGS gives:-
	P	7 19 02		φ = 14°.5 N.
	i	7 19.18		λ = 92° W.
	PPP	7 20 18		h = 100 km. ca.
	S	7 24 22		
	P	7 26 20		
	S	7 31 36		
	SS	7 35.8		
	L	7 39		
	F	8 31		
		Victoria		
	H_1	(7 13.8)	4,650	No clock correction
	H_2	(7 21.0)		
	P	(7 21 37)		
	S_n	(7 28 02)		
	P	(7 28 49)		
	S	(7 35 15)		
	SS	(7 38.8)		
	L	(7 44)		
	F	(8 45)		
		Saskatoon		
	H_1	7 12.8	4,280	
	H_2	7 19.9	4,165	
	P	7 20 12		
	PPP	7 22 08		
	S	7 26 17		
	P	7 27 10		
	PPP	7 28 53		
	S	7 33 08		
	SSS	7 36 20		
	L	7 38		
	F	8 45		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 16, 1948 to July 17, 1948 No. 67

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Halifax		
422 July 16 (cont'd)	H	7 12.4	5,600	
	P	7 21 18		
	e	7 25.6		
	S	7 28.6		
	e	7 32 42		
	e	7 35.6		
	L	7 39		
	F	8 02		
		Seven Falls		
	H_1	7 12.5	3,950	
	H_2	7 19.8		
	P	7 19 29		
	PPP	7 21 00		
	S	7 25 11		
	P	7 26 43		
	PPP	7 28 18		
	S	7 32 26		
	i	7 32 54		
	SS	7 35.9		
	L	7 40		
	F	8 55		
		Shawinigan Falls		
	H	7 19.8	3,755	
	P	7 26 34		
	S	7 32 06		
	F	7 48		
		Ottawa		
423 July 16	e_Z	11 14 39		
	F	11 16		
		Victoria		
424 July 17	i_Z	6 27 59		
	i_Z	6 28 26		
	F	6 29		
		Ottawa		
425 July 17	e_Z	9 37 24		
	F	9 40		
		Victoria		
	e_Z	9 39 06		
	F	9 40		

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DOMINION OBSERVATORY, OTTAWA

FROM July 17, 1948 to July 18, 1948 No. 68

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
426 July 17	H	22 22.1	96	
	P_1	22 22 23.5		
	S_1	22 22 34.5		
	F	22 23.1		
		Ottawa		
427 July 18	e_Z	3 19 37		
	F	3 23		
		Ottawa		
428 July 18	e_Z	7 02 35		
	L_E	7 23		
	F	8 50		
		Saskatoon		
	e	7 03 05		
	e	7 12 31		
	L	7 19		
	F	9 00		
		Halifax		
	L	8 01		
	F	8 11		
		Seven Falls		
	e	7 06 00		
	e	7 22.6		
	L	7 36		
	F	8 53		
		Ottawa		
429 July 18	e_Z	22 48 38		
	L_E	22 57		
	F	0 38		
		Victoria		
	L	22 54		
	F	0 19		
		Saskatoon		
	e	22 48 00		
	e	22 57 03		
	L	23 15		
	F	0 20		
		Seven Falls		
	L	23 00		
	F	1 02		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 18, 1948 to July 20, 1948 No. 69

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
430 July 19	e_Z	20 54 11		
	F^Z	20 54.3		
		Ottawa		
431 July 19	H	22 26.3	3,630	USCGS gives:-
	P_Z	22 32 54		φ = 15° N.
	S_E	22 38 18		λ = 91°.5 W.
	SSS	22 40 52		
	L	22 44		
	F	23 03		
		Victoria		
	e_Z	22 34 29		
	L	22 43		
	F	23 01		
		Saskatoon		
	e	22 36 03		
	e	22 39 58		
	L	22 45		
	F	23 10		
		Seven Falls		
	L	22 39		
	F	23 02		
		Ottawa		
432 July 20	H	0 41.5	13,600	
	$P_{\frac{1}{2}}$	1 00 25		
	PP	1 02.0		
	SKS	1 07.5		
	PS	1 12.0		
	SS	1 19		
	L	1 38		
	F	3 09		
		Victoria		
	L	1 01		
	F	2 18		
		Saskatoon		
	H	0 41.3	11,000	
	PP	0 58 56		
	SKS	1 05 36		
	PPS	1 08 28		
	SS	1 13 32		
	L	1 28		
	F	2 17		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 20, 1948 to July 20, 1948 No. 70

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
432 July 20 (cont'd)	L	1 07		
	F	3 10		
		Victoria		
433 July 20	e_Z	9 01 03		
	F	9 03		
		Ottawa		
434 July 20	H	11 02.5	6,670	USCGS gives:- φ = 17° S. λ = 74°.5 W.
	P	11 12 33		
	S	11 20 52		
	PS	11 21 36		
	i_E	11 22 22		
	SS	11 25.1		
	L	11 33		
	F	13 13		
		Victoria		
	H	11 02.8	8,600	
	P	11 14 42		
	PP	11 17 37		
	S	11 24 36		
	L	11 38		
	F	12 50		
		Saskatoon		
	H	11 02.5	8,045	
	P	11 13 52		
	PPP	11 17 58		
	S	11 23 20		
	PS	11 24 51		
	SS	11 28 03		
	SSS	11 31 03		
	L	11 37		
	F	12 40		
		Halifax		
	H	11 02.6	6,630	
	P	11 12 35		
	PP	11 14 52		
	PPP	11 16.4		
	S	11 20 52		
	PS	11 21 28		
	SS	11 24.9		
	SSS	11 27.4		
	L	11 32		
	F	12 02		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 20, 1948 to July 21, 1948 No. 71

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Seven Falls		
434 July 20 (cont'd)	H	11 02.6	6,850	
	P	11 12 47		
	S	11 21 16		
	L	11 32		
	F	12 21		
		Shawinigan Falls		
	P	11 12 41		
	F	11 23		
		Ottawa		
435 July 20	e_Z	11 41 56		
	F	11 47		
		Ottawa		
436 July 20	e_Z	17 00 50		
	F	17 01.2		
		Victoria		
436 July 20	i_Z	(20 20 02)		No clock correction
	e	20 21 06		
	F	20 23		
		Ottawa		
437 July 20	e_Z	19 21 40		
	F	19 22.1		
		Victoria		
438 July 21	L	12 02		
	F	12 21		
		Saskatoon		
	L	12 01		
	F	12 07		
		Ottawa		
439 July 21	e_Z	23 21 57		
	F	23 22.3		
		Ottawa		
440 July 21	e_Z	23 32 29		
	F	23 32.7		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 21, 1948 to July 22, 1948 No. 72

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
441 July 22	e_Z	5 17 34		
	F	5 18.1		
		Ottawa		
442 July 22	e_Z	6 57 56		
	F	6 59		
		Seven Falls		
443 July 22	L	18 04		
	F	18 15		
		Ottawa		
444 July 22	H	20 05.5	3,950	USCGS gives:- φ = 49°.5 N. λ = 130°.5 W.
	P	20 12 30		
	S	20 18 14		
	L	20 24		
	F	21 04		
		Victoria		
	H	(20 05.8)	485	No clock correction
	P_3	(20 06 55.2)		
	P_2	(20 07 05.8)		
	P_1	(20 07 14.5)		
	S_3	(20 07 46)		
	S_2	(20 07 53.5)		
	S_1	(20 08 05)		
	L	(20 08.5)		
	F	(20 54)		
		Saskatoon		
	H	20 05.5	1720	
	P	20 08 56		
	PPP	20 09 21		
	S	20 11 57		
	L	20 13		
	F	20 45		
		Halifax		
	e	20 27.1		
	L	20 28		
	F	20 45		
		Seven Falls		
	S	20 18 45		
	L	20 25		
	F	21 07		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 22, 1948 to July 23, 1948 No. 73

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
444 July 22 (cont'd)	L	20 25		
	F	20 31		
		Ottawa		
445 July 22	eZ	20 59 46		USCGS gives:- φ = 49°.5 N. λ = 130°.5 W.
	L	21 11		
	F	21 54		
		Victoria		
	H	(20 53.0)		No clock correction
	P_3	(20 54 11)		
	P_2	(20 54 16.5)		
	S_3	(20 55 05.5)		
	S_2	(20 55 17.5)		
	S_1	(20 55 26)		
	F	(21 18)		
		Saskatoon		
	e	20 56 47		
	S	21 00 11		
	SS	21 00 56		
	L	21 02		
	F	21 30		
		Halifax		
	L	21 15		
	F	21 25		
		Seven Falls		
	L	21 13		
	F	22 53		
		Ottawa		
446 July 22	P_2	22 02 56	145	
	S_2	22 03 12.7		
	S_1	22 03 16.3		
	F	22 03.8		
		Ottawa		
447 July 22	H	23 52.8	155	
	P_2	23 53 12		
	P_1	23 53 14.7		
	S_2	23 53 29.8		
	S_1	23 53 32.9		
	e	23 53 37		
	F	23 54		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 23, 1948 to July 24, 1948 No. 74

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
448 July 23	e_Z	12 40 15		
	L	12 51		
	F	13 17		
		Victoria		
	e_Z	(12 34 49)		No clock correction
	F	(12 36)		
		Seven Falls		
	L	12 46		
	F	14 55		
		Ottawa		
449 July 23	e_Z	17 31 02		
	F	17 31.3		
		Ottawa		
450 July 23	e_Z	18 27 32		
	F	18 28		
		Ottawa		
451 July 23	H	18 42.5	155	
	P_2	18 42 57		
	S_2	18 43 15.		
	S_1	18 43 18.3		
	e	18 43 22		
	F	18 43.6		
		Ottawa		
452 July 23	e_Z	20 58 41		
	F	20 59.4		
		Ottawa		
453 July 23	e	21 10 40		
	e_E	21 21.0		
	L	21 36		
	F	22 00		
		Seven Falls		
	L	21 20		
	F	22 10		
		Ottawa		
454 July 23	e_Z	23 34 58		
	F	23 36		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 24, 1948 to July 24, 1948 No. 75

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
455 July 24	e	4 36 15		
	Z	4 37.2		
	F			
		Ottawa		
456 July 24	H	6 03.3	7980	USCGS gives:-
	P	6 14 38		φ = 35° N.
	PP	6 17 21		λ = 24° E.
	PPP	6 18 58		
	S	6 24 02		
	SS	6 29.0		
	SSS	6 32.0		
	L	6 37		
	F	7 53		
		Victoria		
	H	6 03.7	9600	
	P	6 16 21		
	S	6 26 59		
	PS	6 27 55		
	L	6 46		
	F	7 36		
		Saskatoon		
	H	6 03.3	9110	
	P	6 15 36		
	PPP	6 20 44		
	S	6 25 52		
	PS	6 26 48		
	SS	6 31 36		
	SSS	6 34 59		
	L	6 43		
	F	8 45		
		Halifax		
	H	6 03.5	7010	
	P	6 13 56		
	PP	6 16 22		
	S	6 22 34		
	SS	6 27.2		
	L	6 36		
	F	7 01		
		Seven Falls		
	H	6 03.4		
	P	6 14 14		
	S	6 23 14		
	PS	6 24 13		
	SS	6 27.1		
	L	6 34		
	F	7 56		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 24, 1948 to July 26, 1948 No. 76

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Shawinigan Falls		
456 July 24 (cont'd)	P	6 14 24		
	F	6 30		
		Victoria		
457 July 24	e_Z	14 35 14		
	F	14 37		
		Ottawa		
458 July 24	H	16 58.9	155	
	P_1	16 59 20.5		
	S_2	16 59 34.5		
	S_1	16 59 38.5		
	F	16 59.7		
		Ottawa		
459 July 24	e_Z	18 28 01		
	F	18 28.2		
		Ottawa		
460 July 24	e_Z	19 27 14		
	F	19 27.4		
		Ottawa		
461 July 24	e_Z	22 01 21		
	F	22 02.1		
		Victoria		
462 July 25	e_Z	0 23 07		
	F	0 24		
		Seven Falls		
	L	1 11		
	F	1 41		
		Ottawa		
463 July 25	e_Z	5 47 48		
	F	5 49		
		Victoria		
	e_Z	5 45 13		
	F	5 46		
		Ottawa		
464 July 25	e_Z	7 24 29		
	F	7 25.1		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 26, 1948 to July 26, 1948 No. 77

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
465 July 26	e_Z	2 29 22		
	F	2 29.5		
		Ottawa		
466 July 26	i_Z	3 40 53		
	i_Z	3 43 06		
	L	3 54		
	F	4 04		
		Victoria		
	e	3 44 07		
	F	3 45		
		Ottawa		
467 July 26	e_Z	6 18.7		
	L	6 28		
	F	6 41		
		Ottawa		
468 July 26	e_Z	6 33 53		
	F	6 34.1		
		Ottawa		
469 July 26	H	12 55.3	6,640	
	P_Z	13 05 15		
	S_E	13 13 32		
		Victoria		
	e_Z	13 07 47		
	F	13 09		
		Ottawa		
470 July 26	L	17 46		
	F	18 11		
		Seven Falls		
	L	17 52		
	F	18 12		
		Ottawa		
471 July 26	i_Z	19 18 52		
	F	19 19.6		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 26, 1948 to July 28, 1948 No. 78

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
471 July 26	eZ	19 13 42		
	F	19 15		
cont'd		Seven Falls		
472 July 26	L	19 59		
	F	21 02		
		Victoria		
473 July 27	eZ	1 12 14		
	F	1 13		
		Ottawa		
474 July 27	iZ	18 30 52.5		
	F	18 31		
		Ottawa		
475 July 27	iZ	18 31 39		r type
	iZ	18 31 45		
	F	18 32.3		
		Seven Falls		
	e	18 36 42		
	F	18 40		
		Victoria		
476 July 28	H	1 40 42	125	v type - Z component
	P_2	1 41 03		
	P_1	1 41 05		
	S_2	1 41 18		
	S_1	1 41 21		
	e	1 41 23		
	F	1 42.0		
		Victoria		
477 July 28	H	2 06 41	148	v type - Z component
	P_n	2 07 09		
	S_n	2 07 27		
	S_1	2 07 29		
	F	2 08.0		
		Ottawa		
478 July 28	P	8 24 42		r type
	PP	8 26 24		
	L	8 36.2		
	F	9 05		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 28, 1948 to July 28, 1948 No. 79

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
478 July 28 (cont'd)	H	8 13 59	4380	
	iPZ	8 21 30.0		
	S	8 27 41		
	eNS	8 27 55		
	L	8 28.8		
	F	8 46		
		Saskatoon		
	P	8 21 18		
	S	8 26 28		
	SS	8 28 10		
	L	8 30.2		
	F	9 00		
		Halifax		
	L	8 41.5		
	F	8 52		
		Seven Falls		
	e	8 24 49		
	L	8 38.9		
	F	9 07		
		Shawinigan Falls		
	e	8 24 46		
	L	8 39.1		
	F	8 48		
		Ottawa		
479 July 28,	eZ	9 53 48		
	F	9 54.1		
		Victoria		
480 July 28	H	10 09 44	635	v type - Z component
	P_n	10 11 11.5		
	e	10 11 22.4		
	P_2	10 11 28.5		
	S_n	10 12 18.3		
	i	10 12 22		
	F	10 14		
		Victoria		
481 July 28	H	10 20 13	635	v type - Z component
	P_n	10 21 40.0		
	S_n	10 22 47.1		
	i	10 22 54		
	F	10 24		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 28, 1948 to July 29, 1948 No. 80

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
482 July 28	H	14 22 06	4060	USCGS gives:-
	P	14 29 13		φ = 7° N.
	PPP	14 30 44		λ = 82° W.
	S	14 35 12		h = 14 21.8
	L	14 40		
	F	15 06		
		Seven Falls		
	e	14 35.7		u type
	L	14 38		
	F	15 07		
		Ottawa		
483 July 28	H	15 05 51	4140	USCGS gives:-
	P	15 13 04		φ = 7° N.
	PPP	15 14 30		λ = 82° W.
	S	15 19 00		h = 15 05.6
	SS	15 21.3		
	SSS	15 21.7		
	L	15 24		
	F	16 11		
		Seven Falls		
	e	15 19.6		u type
	L	15 22		
	F	16 21		
		Ottawa		
484 July 28	H	19 42 27	165 (?)	Z component
	P_2	19 42 54		
	S_2	19 43 13		
	F	19 44.1		
		Ottawa		
485 July 29	e	0 45 22		
	L	1 15		
	F	1 54		
		Seven Falls		
	L	1 08		l waves
	F	1 55		
		Ottawa		
486 July 29	i_Z	0 49 10		
	F	0 53		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 29, 1948 to July 30, 1948 No. 81

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
487 July 29	H	18 58 14	4010	r type
	P	19 05 18		
	S	19 11 06		
	SSS	19 14.0		
	L	19 17		
	F	19 41		
		Seven Falls		
	L	19 11		
	F	19 49		
		Ottawa		
488 July 29	iZ	20 05 24		
	F	20 06.2		
		Ottawa		
489 July 29	iZ	20 55 32		
	F	20 55.8		
		Ottawa		
490 July 29	iZ	20 57 14		
	F	20 58		
		Ottawa		
491 July 30	eZ	1 02 06		u type
	L	1 48		
	F	2 07		
		Ottawa		
492 July 30	iZ	3 43 03		u type
	e	3 53.5		
	L	4 06		
	F	4 39		
		Victoria		
	iZ	2 54 40		
	F	2 57.0		
		Victoria		
443 July 30	iZ	4 55 49		
	F	4 56		
		Ottawa		
494 July 30	H	13 44 39	95	Z component Cornwall, Ontario (?
	P_1	13 44 57		
	S_1	13 45 08.5		
	i	13 45 14.4		
	F	13 45.5		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 30, 1948 to July 31, 1948 No. 82

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Ottawa		
495 July 30	e_Z	15 45 11		u type
	e	15 50.0		
	L	15 54		
	F	16 14		
		Seven Falls		
	L	15 55		
	F	16 10		
		Ottawa		
496 July 30	H	20 00 50	180	z component
	P_2	20 01 19.4		
	S_2	20 01 40		
	S_1	20 01 43.5		
	e	20 01 53		
	F	20 02.1		
		Ottawa		
497 July 30	i_Z	22 33 36		
	F	22 34.6		
		Ottawa		
498 July 31	e_Z	0 28 08		r type
	L	0 42		
	F	0 58		
		Seven Falls		
	e	0 43.1		
	F	0 54		
		Ottawa		
499 July 31	e_Z	14 46 25		
	F	14 46.6		
		Ottawa		
500 July 31	e_Z	17 08 41		
	F	17 09.5		
		Ottawa		
501 July 31	H	19 04 25	4100	USCGS gives:-
	P	19 11 36		φ = 7° N.
	PPP	19 13 08		λ = 82° W.
	S	19 17 30		h = 19 04.2
	SS	19 20.3		
	L	19 22.5		
	F	20 12		

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

FROM July 31, 1948 to July 31, 1948 No. 83

NO. AND DATE	PHASE	TIME	DISTANCE	REMARKS
		h m s	km.	
		Victoria		
501 July 31 (cont'd)	e	19 14 (17)		u type
	L	19 22		
	F	20 08		
		Seven Falls		
	e	19 18.2		
	L	19 21.0		
	F	20 10		

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DEPARTMENT OF MINES AND RESOURCES

MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

August, 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. 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 200 g.

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.

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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.

Benioff Vertical, short-period, designated B 5705, photographic registration, paper speed of 60 mm. per min., mass 235 lbs., installed June, 1948.

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	Ts	Tg	V	ε	DISPLACEMENT FOR 1" ARC TILT
17 (Ottawa)	12.0		300	20:1	50 mm.
23 (Ottawa)	12.0		300	20:1	50 mm.
BS (Ottawa)	1.0	0.1			
BL (Ottawa)	1.0	48			
HN (Halifax)	5.0		125	20:1	
HE (Halifax)	5.0		125	20:1	
SA (Shawinigan)	1.0		2200		
B 5705 (Victoria)	1.0	0.1			
20 (Victoria)	12.0		300	20:1	50 mm.
21 (Victoria)	12.0		300	20:1	50 mm.
SF (Seven Falls)	1.0		2200		
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

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME
		h m s
	Ottawa	
502 Aug. 1	e_Z	0 46 16
	F	0 46.7
	Ottawa	
503 Aug. 1		4 14 to 4 23
	Victoria	
504 Aug. 1	i_Z	16 44 24
	i_Z	16 44 43
	F	16 45
	Clock correction unknown	
	Ottawa	
505 Aug. 1	e_Z	18 25 46
	F	18 25.9
	Ottawa	
506 Aug. 1	H	18 26 21
	P_Z	18 34 28
	S	18 41 06
	L	18 53
	F	19 07
	Δ	4880 km.
	Saskatoon	
	e_{NW}	18 34 53
	e_{NW}	18 47 07
	e	18 48 06
	L	18 52.7
	F	19 00
	Victoria	
507 Aug. 2	H	10 05 29
	P_2	10 05 39.1
	S_2	10 05 46.6
	F	10 06.7
	Δ	60 km.
	Clock correction unknown	
	Victoria	
508 Aug. 2	e	22 45 50
	F	22 47
	Clock correction unknown	

NO. AND DATE	PHASE	TIME
		h m s
	Ottawa	
509 Aug. 3	e_Z	9 37 20
	L	9 47
	LM	9 50
	F	10 05
	Victoria	
	e_Z	9 39 46
	L	10 04
	F	10 16
	Clock correction unknown	
	Victoria	
510 Aug. 3	H	10 59 33
	P_n	11 00 00.8
	i	11 00 03.4
	S_n	11 00 20.0
	S_1	11 00 23.3
	F	11 02
	Δ	160 km.
	Clock correction unknown	
	Victoria	
511 Aug. 3	e_Z	11 23 32
	F	11 24.5
	Clock correction unknown	
	Ottawa	
512 Aug. 3	e_Z	17 30 29
	F	17 31
	Seven Falls	
		17 41 to 17 49
	Surface waves	
	Ottawa	
513 Aug. 3	H	18 02 48
	P_2	18 03 12
	S_2	18 03 29
	e	18 03 35
	F	18 03.7
	Δ	150 km.
	Ottawa	
514 Aug. 3	e_Z	22 21 17
	F	22 21.4

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. 85

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
515 Aug. 4	e_Z	0 09 24
	F	0 09.6
	Ottawa	
516 Aug. 4		7 19.5 to 7 24
	Surface waves only	
	Ottawa	
517 Aug. 4	H	14 26 21
	P_2	14 26 47.5
	S_2	14 27 05.8
	S_1	14 27 09.0
	e	14 27 14
	F	14 27.4
	Ottawa	
518 Aug. 4	e_Z	17 05 03
	F	17 05.5
	Ottawa	
519 Aug. 4	e_Z	17 20 23
	F	17 20.5
	Ottawa	
520 Aug. 4	e_Z	21 04 53
	F	21 05.1
	Ottawa	
521 Aug. 4	e_Z	21 28 31
	F	21 28.6
	Ottawa	
522 Aug. 4	e_Z	23 35 22
	F	23 36.2
	Victoria	
523 Aug. 5	H	10 36 30
	P_1	10 36 40.7
	S_1	10 36 47.5
	F	10 37.3
	Δ	58 km.
	Time correction unknown	

NO. AND DATE	PHASE	TIME h m s
	Victoria	
524 Aug. 5	H	12 46 48
	P_2	12 47 14.5
	S_2	12 47 25.5
	S_1	12 48 27.3
	F	12 47.6
	Δ	98 km.
	Time correction unknown	
	Victoria	
525 Aug. 5	H	15 44 15
	P_2	15 44 30.4
	S_2	15 44 40.5
	F	15 45
	Δ	89 km.
	Time correction unknown	
	Ottawa	
526 Aug. 5	e_Z	16 08 09
	i_Z	16 08 14
	F	16 08.4
	Ottawa	
527 Aug. 6	e_Z	3 49 44
	i_Z	3 49 56
	F	3 55
	Ottawa	
528 Aug. 6	e_Z	10 03 37
	F	10 07
	Victoria	
	e_Z	10 05 06
	F	10 09
	Ottawa	
529 Aug. 6	H	11 17 09
	P_1	11 17 39
	S_2	11 17 53.8
	S_1	11 17 58.0
	F	11 18.3
	Δ	160 km.
	Victoria	
530 Aug. 7	H	1 12 15
	P_n	1 12 50.0
	i	1 12 51.5
	P_1	1 12 54.5
	S_n	1 13 16.4
	S_1	1 13 21.4
	F	1 15
	Δ	225 km.

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SEISMOLOGICAL SERVICE OF CANAL.

DOMINION OBSERVATORY, OTTAWA

No. 86

NO. AND DATE	PHASE	TIME h m s
	Victoria	
531 Aug. 7	eZ	10 25 24
	F	10 26
	Ottawa	
532 Aug. 7	H	14 40.1
	P	14 53 21
	e	14 54.5
	PP	14 57 07
	S	15 04 28
	SS	15 11.0
	SSS	15 15.7
	L	15 22 22
	M	15 41
	F	17 30
	Δ	10320 km.
	USCGS gives:-	
	φ = 34° N.	
	λ = 142° E.	
	h = 14:40.2	
	Victoria	
	H	14 40.2
	P	14 51 08
	S	15 00 15
	SSS	15 09.0
	L	15 13.8
	F	17 58
	Δ	7620 km.
	Saskatoon	
	H	14 40.5
	P	14 51 59
	PP	14 54 56
	PPP	14 56 38
	S	15 01 30
	PS	15 02 38
	SS	15 06 45
	L	15 16.8
	M	15 23.5
	F	17 30
	Δ	8120 km.
	Ottawa	
533 Aug. 7	H	20 15 23
	P_2	20 15 57
	S_2	20 16 21
	F	20 16.7
	Δ	210 km.
	Ottawa	
534 Aug. 8	e	5 35 59
	e	5 36 04
	F	5 36.5

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
535 Aug. 8	e	12 13 15
	F	12 14.4
	Ottawa	
536 Aug. 8	e	16 37 02
	F	16 37.2
	Victoria	
	e	16 26 07
	F	16 27
	Time correction unknown	
	Ottawa	
537 Aug. 8	H	17 26 56
	P_2	17 27 20.3
	i	17 27 22
	S_2	17 27 37.4
	i	17 27 39.6
	S_1	17 27 41.4
	e	17 27 44
	F	17 28.3
	Δ	150 km.
	Ottawa	
538 Aug. 8	e	18 10 49
	F	18 11.1
	Ottawa	
539 Aug. 9	e	12 42 57
	F	12 43.3
	Ottawa	
540 Aug. 11	H	10 36 25
	P	10 42 41
	PP	10 43 31
	PPP	10 43 50
	S	10 47 49
	SS	10 49 34
	e	10 50 12
	L	10 51 20
	M	10 59
	F	12 30
	Δ	3380 km.
	USCGS gives:-	
	φ = 17°.5 N.	
	λ = 95°.5 W.	
	h = 10 36.2	
	d = 50 km.	
	Mag. 7	

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME
		h m s
	Victoria	
540 Aug. 11 (cont'd)	H	10 36 22
	P	10 43 27
	PP	10 44 11
	e	10 46 00
	S	10 49 16
	L	10 53.5
	M	10 59
	F	12 07
	Δ	4020 km.
	Time correction unknown	
	Saskatoon	
	H	10 36 33
	P	10 43 12
	PP	10 43 53
	PPP	10 44 27
	S	10 48 38
	SS	10 50 47
	L	10 53.0
	F	12 10
	Δ	3655 km.
	Halifax	
	H	10 36 35
	P	10 43 32
	PPP	10 45 08
	S	10 49 14
	SS	10 51.6
	L	10 54
	F	11 24
	Δ	3910 km.
	Seven Falls	
	H	10 36 28
	P	10 43 11
	PP	10 44 32
	S	10 48 41
	L	10 51
	F	12 35
	Δ	3720 km.
	Shawinigan Falls	
	H	10 36 25
	P	10 43 00
	i	10 43 10
	PP	10 44 08
	S	10 48 23
	L	10 52.1
	F	11 10
	Δ	3610 km.

NO. AND DATE	PHASE	TIME
		h m s
	Ottawa	
541 Aug. 12	H	17 19 49
	P_n	17 20 13.0
	P_2	17 20 14.3
	S_n	17 20 30.5
	S_2	17 20 33.4
	e	17 20 38.5
	F	17 21
	Δ	150 km.
	Ottawa	
542 Aug. 12	e	17 46 13
	L	17 47.7
	F	17 52
	Seven Falls	
	e	17 46.0
	F	17 51
	Victoria	
543 Aug. 12	e	22 44 02
	e	22 47.7
	L	23 16
	F	0 19
	Time correction unknown	
	Victoria	
544 Aug. 13	e	9 41 20
	F	9 44
	Time correction unknown	
	Ottawa	
545 Aug. 13	e	11 25 09
	i	11 25 28
	L	11 30.4
	F	11 50
	Victoria	
	e	11 26 13
	F	11 29
	Time correction unknown	
	Shawinigan Falls	
	e	11 25 47
	F	11 32

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 88

NO. AND DATE	PHASE	TIME
		h m s
	Victoria	
546 Aug. 14	H	6 04 18
	P_2	6 04 37
	P_1	6 04 39.5
	e	6 04 42
	S_2	6 04 49.5
	S_1	6 04 51.5
	e	6 04 54.5
	F	6 05.5
	Victoria	
547 Aug. 14	e	12 37 14
	F	12 39
	Victoria	
548 Aug. 14	e	17 06 42
	F	17 08
	Seven Falls	
		17 31 to 18 10
	Surface waves only	
	Ottawa	
549 Aug. 14	e	20 20 36
	F	20 21
	Ottawa	
550 Aug. 14	e	23 58 28
	F	0 00
	Seven Falls	
		0 55 to 1 16
	Surface waves only	
	Seven Falls	
551 Aug. 15		1 27 to 2 56
	Surface waves only	

NO. AND DATE	PHASE	TIME
		h m s
	Victoria	
552 Aug. 15	i	4 08 20
	i	4 08 36.5
	F	4 09
	Victoria	
553 Aug. 15	e	4 15 07
	F	4 16
	Victoria	
554 Aug. 15	e	5 45 10
	F	5 46
	Ottawa	
555 Aug. 15	H	17 57 25
	P_2	17 57 40.8
	S_2	17 57 50.6
	S_1	17 57 51.5
	e	17 57 57
	F	17 58.5
	△	83 km.
	Cornwall, Ont.?	
	Ottawa	
556 Aug. 15	e	22 25 13
	F	22 26
	Victoria	
557 Aug. 16	e	3 31 04
	F	3 32
	Ottawa	
558 Aug. 16	e	5 44 56
	F	5 46
	Victoria	
	e	5 46 37
	F	5 48
	Victoria	
559 Aug. 16	e	10 57 50
	F	11 01

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 89

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
560 Aug. 16	H	19 58 58
	P_n	19 59 28.8
	i	19 59 29.7
	S_n	19 59 52.9
	S_2	19 59 55
	S_1	20 00 03
	F	20 00.5
	Δ	208 km.
	Victoria	
561 Aug. 17	e	5 16 12
	F	5 17
	Ottawa	
562 Aug. 17	e	5 34 20
	e	5 34 34
	L	5 50
	F	6 14
	Victoria	
	H	5 25 10
	P	5 30 33
	i_Z	5 30 36.5
	S	5 34 59
	L	5 38.1
	F	5 56
	Δ	2755 km.
	Saskatoon	
	e_{NE}	5 36 44
	L	5 41.5
	F	6 15
	Halifax	
		5 54 to 6 01
	Surface waves only	
	Seven Falls	
	e	5 50.8
	F	6 18
	Shawinigan Falls	
	e	5 49.7
	F	5 55
	Victoria	
563 Aug. 17	e_Z	17 19 43
	L	17 35
	F	18 16

NO. AND DATE	PHASE	TIME h m s
	Seven Falls	
		17 54 to 18 50
	Surface waves only	
	Victoria	
564 Aug. 17	e	19 10 50
	F	19 11.5
	Ottawa	
565 Aug. 18	e_Z	19 19 00
	L	19 28
	F	19 40
	Ottawa	
566 Aug. 18	H	20 50 51
	P_2	20 51 25.5
	S_2	20 51 49.5
	e	20 52.0
	F	20 52.1
	Δ	210 km.
	Victoria	
567 Aug. 18	H	20 58 35
	P_1	20 58 51.5
	S_1	20 59 03.0
	F	20 59.1
	Δ	100 km.
	Ottawa	
568 Aug. 19	H	1 19 33
	P	1 27 40
	S	1 34 18
	SSS	1 38
	L	1 41
	F	2 05
	Δ	4880 km.
	Seven Falls	
		1 38 to 1 57
	Surface waves only	
	Ottawa	
569 Aug. 19	e	8 01 24
	F	8 02.1

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
570 Aug. 19	H	11 00 13
	P	11 08 04
	S	11 14 30
	SSS	11 18.3
	F	11 30
	Δ	4660 km.
	Victoria	
	e	11 06 49
	F	11 10
	Victoria	
571 Aug. 19	e	11 10 03
	F	11 12
	Ottawa	
572 Aug. 19	H	13 50 54
	iP	13 58 51
	i_Z	13 58 59
	i_Z	13 59 14
	PP	14 00 26
	PPP	14 00 59
	S	14 05 22
	SS	14 06 00
	SSS	14 08 45
	L	14 11.4
	M	14 14.3
	F	14 53
	Δ	4750 km.
USCGS gives:-		
	φ = 62° N.	
	λ = 151° W.	
	h = 13 50.8	
	d = 100 km.	
	Victoria	
	H	13 48 48
	P	13 53 32
	pP	13 53 53
	PP	13 54 14
	S	13 57 24
	sS	13 57 38
	SS	13 58 00
	F	14 49
	Δ	2335 km.
Time correction unknown		

NO. AND DATE	PHASE	TIME h m s
	Saskatoon	
	H	13 51.1
	P_{NE}	13 56 20
	PP	13 56 43
	S	14 00 38
	SS	14 01 16
	i	14 02 00
	L	14 02.6
	F	15 00
	Δ	2645 km.
	Halifax	
	e	14 07.0
	e	14 11.2
	L	14 15
	F	14 24
	Seven Falls	
	H	13 50 54
	P	13 58 58
	PP	14 00 45
	S	14 05 34
	L	14 09.0
	F	14 48
	Δ	4845 km.
	Shawinigan Falls	
	H	13 50 53
	P	13 58 53
	S	14 05 36
	L	14 09.0
	F	14 19
	Δ	4790 km.
	Ottawa	
573 Aug. 19	H	19 59 12
	P	20 06 40
	PPP	20 08 17
	S	20 12 48
	SSS	20 16.0
	L	20 18.3
	F	21 07
	Δ	4340
USCGS gives:-		
	φ = 5° N.	
	λ = 82° W.	
	h = 19 59.0	

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME
		h m s
573 Aug. 19 (cont'd)	Victoria	
	H	19 57 13
	iP	20 06 45
	iS	20 14 36
	L	20 20
	F	21 08
	Δ	6190
	Time correction unknown	
	Seven Falls	
	H	19 59 03
	P	20 06 58
	S	20 13 27
	L	20 16.6
	F	21 07
	Δ	4720
	Shawinigan Falls	
	e	20 06 51
	F	20 09
574 Aug. 19	Ottawa	
	e	22 49 26
	F	22 50
	Ottawa	
575 Aug. 20	e	19 05 06
	F	19 06.1
	Ottawa	
576 Aug. 20	e	22 35 50
	F	22 36.4
	Ottawa	
577 Aug. 21	e	3 29 47
	F	3 30.6
	Ottawa	
578 Aug. 21	e	5 02 39
	F	5 02.9
	Victoria	
579 Aug. 21	e	8 55 32
	F	8 58
	Time correction unknown	
	Ottawa	
580 Aug. 22	e	23 26 53
	F	23 28.2
	Victoria	
	e	23 28 54
	F	23 30
	Ottawa	
581 Aug. 23	e	11 58 53
	F	11 59.4
	Ottawa	
582 Aug. 23	H	13 28 43
	P_2	13 29 09
	S_2	13 29 27
	e	13 29 34
	F	13 29.7
	Δ	155 km.
	Ottawa	
583 Aug. 23	H	21 22 04
	P_2	21 22 26
	S_2	21 22 41.5
	S_1	21 22 44.5
	e	21 22 47
	F	21 22.9
	Δ	135 km.
	Ottawa	
584 Aug. 24	eZ	8 23 40
	eZ	8 26 34
	L	9 08
	F	9 47
	Seven Falls	
		8 55 to 9 44
	Surface waves only	
	Ottawa	
585 Aug. 24	e	20 21 40
	F	20 22.2

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 92

NO. AND DATE	PHASE	TIME
		h m s
	Ottawa	
586 Aug. 24	H	21 08 14
	P_2	21 08 38
	S_2	21 08 55
	S_1	21 08 58
	F	21 09.4
	Δ	150 km.
		Ottawa
587 Aug. 25	H	6 09 27
	P	6 20 38
	PP	6 23 12
	PPP	6 25 02
	S	6 29 55
	i_{EW}	6 30 08
	e_{NS}	6 34 00
	SSS	6 38 04
	L	6 42.3
	M	6 51
	F	9 47
	Δ	7840 km.
	USCGS gives:-	
	φ = 24° S.	
	λ = 63° W.	
	h = 6 09.4	
	Victoria	
	H	6 09 27
	P	6 22 19
	iZ	6 22 22
	SKS	6 32 47
	S	6 33 07
	PS	6 34 21
	L	6 52
	F	8 47
	Δ	9865
	Saskatoon	
	H	6 09 47
	P	6 22 00
	PP	6 25 01
	PPP	6 27 15
	S	6 32 19
	PS	6 33 16
	SS	6 38 04
	i	6 40 04
	L	6 51.2
	F	9 20
	Δ	9200 km.

NO. AND DATE	PHASE	TIME
		h m s
	Halifax	
	H	6 09 39
	P	6 20 31
	PP	6 22.9
	S	6 29 33
	SS	6 34.4
	SSS	6 37
	L	6 42.9
	F	7 40
	Δ	7500 km.
	Seven Falls	
	H	6 09 32
	P	6 20 48
	S	6 30 09
	i	6 30 21
	PS	6 30 40
	e	6 31 23
	SS	6 38.7
	L	6 42.3
	F	10 02
	Δ	7910 km.
	Shawinigan Falls	
	H	6 09 33
	P	6 20 44
	S	6 30 00
	L	6 47
	F	7 10
	Δ	7820 km.
	Ottawa	
588 Aug. 25	H	16 14 21
	P_2	16 14 51.5
	S_2	16 15 12.5
	e	16 15 16
	F	16 15.5
	Δ	185 km.
	Ottawa	
589 Aug. 25	e	20 00 28
	F	20 02
	Victoria	
	e	20 02 11
	F	20 04
	Ottawa	
590 Aug. 26	e	11 46 15
	F	11 46.7

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 93

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
591 Aug. 26	H	14 16 26
	P_2	14 16 53
	i	14 16 54.7
	S_2	14 17 12
	i	14 17 14
	e	14 17 18
	F	14 17.6
	Δ	165 km.
	Ottawa	
592 Aug. 26		15 01 to 15 25
	Surface waves only	
	Seven Falls	
		15 01 to 15 17
	Victoria	
593 Aug. 26	i	20 48 36
	e	20 50 14
	F	20 52
	Victoria	
594 Aug. 26	e	21 05 43
	F	21 07
	Ottawa	
595 Aug. 26	H	21 46 40
	P_2	21 47 22
	P_1	21 47 23.5
	S_2	21 47 51
	i	21 47 53
	S_1	21 47 57.5
	e	21 48 14
	F	21 48.5
	Δ	255 km.
	Victoria	
596 Aug. 27	e	10 56 39
	F	10 58

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
597 Aug. 27	H	16 48 30
	P_Z	16 59 42
	S	17 09 00
	SSS	17 17
	F	17 32
	Δ	7860 km.
	USCGS gives:-	
	φ = 25° S.	
	λ = 68° W.	
	h = 16 48.4	
	Victoria	
	e	17 01 12
	F	17 07
	Seven Falls	
	H	16 48 36
	P	16 59 53
	S	17 09 15
	e	17 11.3
	e	17 18.8
	F	17 49
	Δ	7935 km.
	Shawinigan Falls	
	e	16 59 49
	F	17 01
	Victoria	
598 Aug. 28	H	1 41 55
	P_n	1 42 18.3
	S_n	1 42 35.5
	F	1 43.0
	Δ	145 km.
	Ottawa	
599 Aug. 28	H	2 28 10
	P	2 38 53
	S	2 47 48
	SSS	2 55.0
	L	3 00
	F	4 00
	Δ	7350 km.
	USCGS gives:-	
	φ = 57° N.	
	λ = 161° E.	
	h = 2 27.8	

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Victoria	
599 Aug. 28 (cont'd)	$e_{\sim}$	2 35 54
	i_Z	2 35 56
	L	2 46.0
	F	3 33
	Saskatoon	
	e	2 37.2
	e	2 44.1
	L	2 49.3
	F	3 55
	Halifax	
	L	3 07 to 3 25
	Seven Falls	
	e	2 47 44
	L	2 55
	F	4 14
600 Aug. 28	Seven Falls	
	L	13 21 to 13 51
	Ottawa	
601 Aug. 29	e	18 03
	e_Z	18 05.4
	e_{NS}	18 10.5
	e_Z	18 11.4
	L	18 18
	F	18 57
	USCGS gives:- φ = 15°5 S. λ = 171° W, h = 17 37.8	
	Seven Falls	
	e	18 03.0
	e	18 12 24
	L	18 28
	F	20 15

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
602 Aug. 29	e_Z	18 43 52
	e_Z	18 45 12
	L	18 56
	F	20 07
	USCGS gives:- φ = 16°5 N. λ = 197° W. h = 18 36.4	
	Halifax	
	L	18 30 to 19 10
	Ottawa	
603 Aug. 30	L	1 58 to 2 11
	Ottawa	
604 Aug. 30	e	21 54 05
	F	21 54.7
	Ottawa	
605 Aug. 31	H	20 16 32
	P_2	20 17 06.5
	S_2	20 17 30.5
	e	20 17 40
	F	20 18
	Δ	210 km.

W. S. Johnson

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DEPARTMENT OF MINES AND RESOURCES

MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

September and October

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. 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 200 g.

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.

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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.

Benioff Vertical, short-period, designated B 5705, photographic registration, paper speed of 60 mm. per min., mass 235 lbs., installed June, 1948.

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	Ts	Tg	V	ε	DISPLACEMENT FOR 1" ARC TILT
17 (Ottawa)	12.0		300	20:1	50 mm.
23 (Ottawa)	12.0		300	20:1	50 mm.
BS (Ottawa)	1.0	0.1			
BL (Ottawa)	1.0	48			
HN (Halifax)	5.0		125	20:1	
HE (Halifax)	5.0		125	20:1	
SA (Shawinigan)	1.0		2200		
B 5705 (Victoria)	1.0	0.1			
20 (Victoria)	12.0		300	20:1	50 mm.
21 (Victoria)	12.0		300	20:1	50 mm.
SF (Seven Falls)	1.0		2200		
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

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 95

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
606 Sept. 1	e	0 18 48
	F	0 20.4
	Victoria	
607 Sept. 1	e	3 38 55
	F	3 41
	Ottawa	
608 Sept. 1	H	14 11 20
	P_2	14 11 45
	S_2	14 12 02.5
	S_1	14 12 05.5
	e	14 12 11.5
	F	14 12.3
	Δ	150 km.
	Ottawa	
609 Sept. 1	e_Z	19 24 12
	L	19 34
	F	19 49
	Victoria	
	H	19 15 57
	P_Z	19 22 30
	PP	19 23 01
	S	19 27 52
	L	19 31.0
	F	19 42
	Δ	3600 km.
	Halifax	
	L	19 40
	F	19 44
	Seven Falls	
	L	19 37
	F	19 42
	Ottawa	
610 Sept. 1	H	19 53 18
	eP_Z	20 00 05
	i	20 00 12
	S	20 05 38
	L	20 09
	F	20 50
	Δ	3780 km.

NO. AND DATE	PHASE	TIME h m s
	Victoria	
610 Sept. 1 (cont'd)	H	19 53 18
	P	19 58 49
	S	20 03 21
	L	20 06.2
	F	20 49
	Δ	2845 km.
	Halifax	
	L	20 16
	F	20 21
	Seven Falls	
	e	20 00 44
	L	20 13.0
	F	20 52
	Shawinigan Falls	
	L	20 12
	F	20 18
	Ottawa	
611 Sept. 1	L	20 53
	F	21 05
	Victoria	
	e_Z	20 41 34
	L	20 50.0
	F	21 09
	Seven Falls	
	L	20 55
	F	21 04
	Ottawa	
612 Sept. 1	i	21 59 54
	F	22 00.2
	Ottawa	
613 Sept. 2	H	18 31 41
	P_n	18 33 01
	S_n	18 34 03.5
	F	18 35.3
	Δ	585 km.

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
614 Sept. 2	e	20 24 10
	F	20 24.4
	Ottawa	
615 Sept. 2	eZ	23 53 45
	i	23 55 18
	e	0 01.3
	e	0 05.12
	e	0 12 28
	e	0 15.4
	L	0 30
	F	1 57
	USCGS gives:-	
	φ = 10° N.	
	λ = 125° E.	
	h = 23:34.7	
	Off northern coast of Mindanao, Philippine Ids.	
	Victoria	
	e	23 57.5
	L	23 13
	F	1 20
	Time correction unknown	
	Halifax	
	e	0 12
	L	0 41
	F	1 03
	Ottawa	
616 Sept. 3	i	9 50 07
	F	9 54
	USCGS gives:-	
	φ = 18° S.	
	λ = 72° W.	
	h = 09:39.9	
	d = 100 km.	
	Ottawa	
617 Sept. 3	e	21 33 23
	F	21 35
	Ottawa	
618 Sept. 3	e	23 33 08
	F	23 33.3

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
619 Sept. 4	e	15 28 28
	e	15 31 25
	L	15 50
	F	17 05
	Victoria	
	e	15 55.5
	L	16 12
	F	17 00
	Time correction unknown	
	Seven Falls	
	L	15 48
	F	17 27
	Victoria	
620 Sept. 5	e	10 11 58
	F	10 15
	Time correction unknown	
	Ottawa	
621 Sept. 6	e	0 57 53
	F	0 58.5
	Ottawa	
622 Sept. 6	H	8 10 28
	P	8 21 20
	S	8 30 20
	SS	8 34.7
	L	8 43
	F	11 07
	Δ	7480 km.
	USCGS gives:-	
	φ = 24°.5 S.	
	λ = 68°.5 W.	
	d = 100 km.	
	h = 08:10.2	
	Victoria	
	H	8 10 22
	P	8 22 54
	S	8 33 24
	Δ	9435 km.
	F	10 19
	Seven Falls	
	L	8 31
	F	10 45

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Shawinigan Falls	
622 Sept. 6 (cont'd)	e	8 21 17
	F	8 25
	Victoria	
623 Sept. 6	e	8 54 06
	F	8 57
	Ottawa	
624 Sept. 6	H	16 35 23
	P	16 41 49
	PP	16 42 46
	PPP	16 43 12
	S	16 47 05
	SS	16 49.1
	L	16 51.0
	F	17 15
	Δ	3500 km.
	USCGS gives:-	
	φ = 14° N.	
	λ = 93°5 W.	
	h = 16:35.1	
	Victoria	
	H	16 35 25
	P	16 42 56
	S	16 49 07
	L	16 58
	F	17 10
	Δ	4380 km.
	Shawinigan Falls	
	e	16 42 12
	F	16 57
	Victoria	
625 Sept. 7	e	4 44 44
	F	4 45.5
	Ottawa	
626 Sept. 7	i_Z	8 28 13
	e	8 38.4
	e	8 40.4
	e	8 45.6
	L	8 54
	F	9 23

NO. AND DATE	PHASE	TIME h m s
	Victoria	
626 Sept. 7 (cont'd)	i_Z	8 28 18
	L	8 38.5
	F	9 19
	Seven Falls	
	L	8 38.1
	F	9 17
	Shawinigan Falls	
	e	8 28 05
	F	8 34
	Ottawa	
627 Sept. 7	L	21 55
	F	22 04
	Ottawa	
628 Sept. 7	e	22 32 02
	F	22 32.6
	Victoria	
629 Sept. 8	e	4 30 11
	F	4 32
	Ottawa	
630 Sept. 8	H	15 09 05
	P	15 23 49
	PP	15 28 20
	i	15 29 16
	SKS	15 34 10
	S	15 36 05
	PS	15 37 50
	SS	15 43.9
	SSS	15 47.8
	e	15 55
	L	16 00
	M	16 10
	F	21 21
	Δ	12500 km.
	USCGS gives:-	
	φ = 21° S.	
	λ = 174° W.	
	h = 15:09.2	

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Victoria	
630 Sept. 8 (cont'd)	H	15 09 24
	eP	15 21 37
	i	15 21 39.5
	i_Z	15 22 44
	PP	15 24 47
	S	15 31 48
	e	15 32 06
	PS	15 32 38
	SS	15 36 46
	L	15 47.3
	M	15 49 to 16 04
	F	17 07
	△	9010 km.
	Saskatoon	
	H	15 08 56
	P_{NW}	15 22 33
	i	15 23 06
	i	15 23 27
	PP	15 26 24
	PPP	15 28 39
	SKS_{NW}	15 33 06
	SKKS	15 33 35
	S	15 34 03
	PS	15 35 20
	PPS	15 36 03
	SS	15 40.0
	SSS	14 43.6
	L	15 54.5
	F	21 00
	△	10890 km.
	Halifax	
	H	15 09 12
	P_{EW}	15 24 32
	PP	15 29 22
	i	15 30 16
	SKP	15 31 02
	PPP	15 32 04
	SKS	15 35 00
	SKKS	15 36 20
	S_{EW}	15 37 20
	PS	15 39 14
	SS	15 45.7
	SSS	15 50.1
	L	16 05.3
	F	18 25
	△	13330 km.

NO. AND DATE	PHASE	TIME h m s
	Seven Falls	
630 Sept. 8 (cont'd)	H	15 09 08
	P	15 24 07
	PP	15 28 46
	PPP	15 31 07
	SKS	15 34 48
	SKKS	15 35 50
	S	15 36 40
	PS	15 38 24
	PPS	15 39 20
	SS	15 44 40
	SSS	15 49.0
	L	16 02.5
	F	21 54
	△	12835 km.
	Shawinigan Falls	
	e	15 24 37
	e	15 28 02
	e	15 34 03
	e	15 36 20
	e	15 38 09
	e	15 43 07
	F	17 30
	Victoria	
631 Sept. 8	e	16 15 27
	F	16 18
	Victoria	
632 Sept. 8	e	16 24 48
	F	16 26
	Victoria	
633 Sept. 8	e	16 40 57
	F	16 42
	Ottawa	
634 Sept. 8	e	17 06 16
	F	17 09
	Victoria	
	e	16 59 39
	F	17 04

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 99

NO. AND DATE	PHASE	TIME h m s
	Victoria	
635 Sept. 8	e	17 16 30
	F	17 18
	Victoria	
636 Sept. 8	e	20 12 09
	F	20 14
	Victoria	
637 Sept. 8	e	23 06 09
	F	23 06.5
	Victoria	
638 Sept. 8	i	23 45 53.5
	e	23 46 03.0
	F	23 46.8
	Victoria	
639 Sept. 9	e	5 41 02
	F	5 42
	Victoria	
640 Sept. 9	iZ	6 16 54
	e	6 32.0
	L	6 45
	F	7 36
	Victoria	
641 Sept. 9	e	6 21 37
	F	6 25
	Ottawa	
642 Sept. 9	L	6 53
	F	8 15
	Victoria	
	e	7 02 20
	F	7 04
	Saskatoon	
	L	6 50
	F	8 05

NO. AND DATE	PHASE	TIME h m s
	Seven Falls	
642 Sept. 9 (cont'd)	e	6 30 02
	L	7 10.4
	F	8 50
	Victoria	
643 Sept. 9	e	7 18 21
	F	7 20
	Victoria	
644 Sept. 9	e	12 36 39
	F	12 39
	Victoria	
645 Sept. 9	i	12 39 23
	i	12 40 04
	F	12 44
	Ottawa	
646 Sept. 9	L	15 04
	F	15 38
	Victoria	
	eZ	14 17 07
	L	14 45
	F	15 09
	Seven Falls	
	e	14 34 05
	L	15 02
	F	16 48
	Ottawa	
647 Sept. 9	H	16 10 00
	P_2	16 10 35.5
	S_2	16 11 00
	e	16 11 12
	F	16 11.4
	△	215 km.
	Victoria	
648 Sept. 9	e	16 54 50
	F	16 56

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 100

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
649 Sept. 9	i	20 33 19
	F	20 34
	Ottawa	
650 Sept. 10	H	1 22 04
	P_1	1 22 10
	S_1	1 22 13.8
	F	1 22.7
	Δ	30 km.
	Felt at Kingsmere, Quebec	
	Seven Falls	
651 Sept. 10	L	6 59
	F	7 11
	Ottawa	
652 Sept. 10	i	11 00 20
	F	11 00.7
	Victoria	
653 Sept. 10	e	12 13 38
	F	12 16
	Saskatoon	
	e	12 35 02
	L	12 47
	F	13 09
	Ottawa	
654 Sept. 10	H	13 48 41
	P	14 01 00
	i	14 01 15
	PP	14 04 10
	PPP	14 06.0
	S	14 11 17
	i	14 11 36
	SS	14 17.3
	SSS	14 20 11
	L	14 27
	M	14 43
	F	17 22
	Δ	9140 km.
	USCGS gives:-	
	φ = 44° N.	
	λ = 146°.5 E.	
	d > normal	
	H = 13:48.5	

NO. AND DATE	PHASE	TIME h m s
	Victoria	
654 Sept. 10 (cont'd)	H	13 48 45
	P	13 58 33
	PP	14 00 59
	PPP	14 02 29
	S	14 06 39
	PS_{NS}	14 07 12
	e	14 07 39
	e	14 09 53
	SSS	14 12.4
	L	14 16.8
	F	17 43
	Δ	6445 km.
	Saskatoon	
	H	13 48 36
	P_{NE}	13 59 20
	i	13 59 32
	PP	13 01 42
	PPP	13 02 59
	S	13 08 02
	PS	13 08 22
	i	13 09 32
	SS	13 12 02
	SSS	13 14 22
	L	13 19.0
	F	17 00
	Δ	7390 km.
	Halifax	
	H	13 48 41
	P	14 01 24
	PP	14 04 42
	S	14 12 04
	i	14 12 26
	PS	14 13 04
	SS	14 17.5
	SSS	14 21.5
	L	14 29.2
	F	15 30
	Δ	9665 km.
	Seven Falls	
	H	14 48 44
	P	14 01 02
	PP	14 04 06
	PPP	14 06 08
	S	14 11 18
	PS	14 12 19
	SS	14 17 57
	SSS	14 20 21
	L	14 29 08
	F	18 06
	Δ	9110 km.

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Shawinigan Falls	
654 Sept. 10 (cont'd)	e	14 11 20
	L	14 35
	F	15 03
	Ottawa	
655 Sept. 11	H	8 53 02
	P	9 03 45
	i	9 04 06
	S	9 12 40
	PS	9 13 28
	SS	9 17.2
	SSS	9 20.1
	F	9 37
	△	7350 km.
	Victoria	
	e	9 05 28
	F	9 08
	Victoria	
656 Sept. 11	e	23 42 28
	F	23 44
	Ottawa	
657 Sept. 12	e	3 48.4
	e	3 54 22
	L	4 05
	F	4 49
	Victoria	
	e	3 32 10
	F	3 35
	Victoria	
658 Sept. 12	e	6 35 55
	F	6 38
	Ottawa	
659 Sept. 12	H	13 21 01.8
	P_n	13 21 27.0
	P_2	13 21 28.5
	S_n	13 21 45.7
	S_2	13 21 48
	e	13 21 52
	F	13 22.1
	△	157 km.

NO. AND DATE	PHASE	TIME h m s
	Victoria	
660 Sept. 12	e.	19 55 33
	F	19 57
	Ottawa	
661 Sept. 13	H	21 07 48
	P	21 14 34
	S	21 20 06
	L	21 24.5
	F	22 05
	△	3755 km.
	USCGS gives:-	
	φ = 13° 5 N.	
	λ = 93° W.	
	h = 21:07.6	
	Off coast of Guatemala	
	Victoria	
	e	21 15 52
	L	21 31.8
	F	22 10
	Seven Falls	
	e	21 16 33
	L	21 23.5
	F	22 11
	Victoria	
662 Sept. 13	e	23 51 49
	F	23 53
	Victoria	
663 Sept. 14	e	8 25 19
	F	8 27
	Ottawa	
664 Sept. 16	e	2 46 19
	F	2 47.2
	Victoria	
665 Sept. 16	e	8 21 17
	F	8 23

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NO. AND DATE	PHASE	TIME
		h m s
	Ottawa	
666 Sept. 17	e	19 06 38
	F	19 07.1
	Ottawa	
667 Sept. 18	eZ	8 43 21
	L	8 55
	F	9 11
	USCGS gives:- φ = 8° N. λ = 84° W. h = 8:36.1 Off south-west coast of Costa Rica	
	Victoria	
	e	8 04 10
	F	8 06
	Seven Falls	
	L	8 52
	F	9 16
	Ottawa	
668 Sept. 18	e	13 47 06
	e	13 47 12
	F	13 47.5
	Ottawa	
669 Sept. 18	H	17 52 00
	P_n	17 52 22.5
	S_n	17 52 38.0
	S_1	17 52 41.0
	e	17 52 43
	F	17 52.8
	Δ	136 km.
	Victoria	
670 Sept. 19	e	1 41 41
	F	1 44
	Ottawa	
671 Sept. 19	eZ	6 24 29
	L	6 44
	F	7 24
	USCGS gives:- φ = 52° N. λ = 178° W. h = 6:14.1 Aleutian Islands	

NO. AND DATE	PHASE	TIME
		h m s
	Victoria	
671 Sept. 19 (cont'd)	H	6 14 12
	P	6 20 55
	PP	6 22 06
	PPP	6 22 30
	S	6 26 24
	SS	6 27.7
	L	6 30.9
	F	8 02
	Δ	3700 km.
	Saskatoon	
	H	6 14.5
	P	6 20 55
	PP	6 21 37
	PPP	6 22 07
	S	6 26 09
	SS	6 28.3
	L	6 30.2
	F	7 10
	Δ	3460 km.
	Halifax	
	L	6 50.6
	F	7 06
	Seven Falls	
	e	6 33.2
	L	6 44
	F	7 40
	Victoria	
672 Sept. 19	i	18 40 12
	i	18 40 42
	F	18 41.5
	Ottawa	
673 Sept. 20	e	18 11 28
	F	18 13.5
	Ottawa	
674 Sept. 21	L	8 24
	F	8 26

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
675 Sept. 21	H	10 34 22
	P_n	10 34 44.8
	P_2	10 34 46.2
	e	10 34 49.8
	S_n	10 35 00.4
	iS_2	10 35 02.8
	F	10 35.3
	△	136
	Ottawa	
676 Sept. 21	e	18 05 03
	F	18 06.1
	Ottawa	
677 Sept. 22	e	5 15 24
	F	5 17
	Victoria	
	e	5 11 29
	F	5 13
	Ottawa	
678 Sept. 22	i	7 28 48
	e	7 29 38
	F	7 33
	USCGS gives:- φ = 22° S. λ = 68° W. h = 7:18.0 d = 100 km. Northern Chile	
	Victoria	
	e	7 30 31
	F	7 32
	Ottawa	
679 Sept. 22	eZ	21 35 37
	L	21 45
	F	21 56
	USCGS gives:- φ = 17°.5 N. λ = 82° W. h = 21:29.7 Caribbean Sea	
	Victoria	
	e	21 38 10
	F	21 39.5

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
680 Sept. 23	e	1 05 21
	L	1 39
	F	2 02
	Victoria	
	e	1 03 04
	F	1 05
	Ottawa	
681 Sept. 23	e	15 23 45
	F	15 24.5
	Victoria	
682 Sept. 24	e	1 03 38
	F	1 05
	Ottawa	
683 Sept. 24	e	3 36 42
	F	3 38
	Ottawa	
684 Sept. 24	e	16 29 37
	F	16 31
	Ottawa	
685 Sept. 24	e	18 02 31
	F	18 03
	Ottawa	
686 Sept. 24	e	18 14 18
	F	18 15
	Ottawa	
687 Sept. 24	e	18 44 33
	F	18 45
	Ottawa	
688 Sept. 24	eZ	21 00 46
	L	21 39
	F	22 07

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Victoria	
688 Sept. 24 (cont'd)	e	21 05.7
	L	21 25
	F	22 08
	Saskatoon	
	e	21 00 27
	L	21 31.1
	F	22 05
	Victoria	
689 Sept. 24	H	22 34 04
	iP_Z	22 34 22.0
	S_2	22 34 34.5
	F	22 39
	Δ	100 km.
	Victoria	
690 Sept. 24	e	23 40 59
	F	23 43
	Victoria	
691 Sept. 25	e	0 09 18
	F	0 11
	Victoria	
692 Sept. 25	e	3 25 54
	F	3 27
	Victoria	
693 Sept. 26	e	1 12 05
	F	1 16
	Ottawa	
694 Sept. 28	e	21 55 42
	e	22 03 29
	e	22 05.4
	e	22 11.6
	L	22 25
	F	23 08
	USCGS gives:- $\varphi = 23^\circ$ N. $\lambda = 94^\circ$ E. h = 21:36.6 Burma	

NO. AND DATE	PHASE	TIME h m s
	Victoria	
694 Sept. 28 (cont'd)	e	21 54 59
	i	22 01 12
	i	22 02 10
	L	22 10
	F	23 11
	Halifax	
	L	22 33
	F	22 55
	Seven Falls	
	e	22 04 32
	e	22 09.8
	L	22 18.0
	F	23 26
	Shawinigan Falls	
	L	21 56
	F	22 00
	Ottawa	
695 Sept. 30	L	3 02
	F	3 18
	Seven Falls	
	L	3 02
	F	3 30

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 105

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
696 Oct. 1	i	3 23 17
	F	3 26
	Victoria (Z)	
697 Oct. 1	H	9 44 51
	P_n	9 45 33.6
	i	9 45 36.0
	i	9 45 38.2
	e	9 45 41.5
	S_n	9 46 05.6
	e	9 46 07.5
	i	9 46 12.4
	S_1	9 46 21.5
	F	9 47
	Δ	324 km.
	Felt at Kamloops, B.C.	
	Ottawa	
698 Oct. 1	H	11 33 17
	P	11 39 49
	PP	11 41 22
	S	11 45 10
	L	11 48.0
	F	12 31
	Δ	3580 km.
	Victoria	
	H	11 33 16
	P	11 40 11
	e	11 42 37
	S	11 45 51
	L	11 49.3
	F	12 30
	Δ	3890 km.
	Saskatoon	
	H	11 33 08
	P	11 39 19
	PP	11 40 03
	PPP	11 40 19
	S	11 44 13
	SS	11 45 50
	L	11 48.0
	F	12 42
	Δ	3310 km.
	Seven Falls	
	e	11 46.1
	L	11 53
	F	12 31

NO. AND DATE	PHASE	TIME h m s
	Shawinigan Falls	
698 Oct. 1 (cont'd)	e	11 40 11
	F	11 52
	USCGS gives:-	
	φ = 17° N.	
	λ = 99° W.	
	H = 11:33.1	
	d = 100 km.	
	M = 6 1/2	
	Near coast of Mexico	
	Victoria	
699 Oct. 2	L	15 09
	F	15 28
	Seven Falls	
	L	15 23
	F	16 04
	Seven Falls	
700 Oct. 2	L	16 21
	F	16 33
	Victoria (Z)	
701 Oct. 3	e	17 20 37
	F	17 22
	Victoria	
702 Oct. 4	eZ	6 09 38
	L	6 48
	F	7 09
	Saskatoon	
	L	6 45
	F	7 25
	Seven Falls	
	L	6 44
	F	7 36
	Ottawa (Z)	
703 Oct. 4	e	19 44 22
	F	19 46

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SEISMOLOGICAL SERVICE OF CANA

DOMINION OBSERVATORY, OTTAWA

No. 106

NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
704 Oct. 4	e	23 48 51
	F	23 49.5
	Victoria	
705 Oct. 5	L	12 14
	F	12 22
	Ottawa (Z)	
706 Oct. 5	e	1 03 36
	F	1 05
	USCGS gives:- φ = 38° N. λ = 58° E. H = 20:12.1 Mag. 7 1/2 Near Turkmen, USSR - Iran border.	
	Ottawa	
	H	20 12 22
	P	20 24 57
	PP	20 27 52
	PPP	20 30 06
	SKS	20 34 56
	S	20 35 30
	PS	20 36 34
	SS	20 40.5
	SSS	20 44.9
	SSSS	20 49.5
	L	20 53.6
	F	0 10
	Δ	9500 km.
	Rarefaction north-east.	
	Victoria	
	H	20 12 21
	P	20 25 41
	e	20 27 43
	e	20 28 49
	PP	20 29 15
	PPP	20 31.1
	iSKS	20 36 03
	SKKS	20 36 42
	S	20 36 57
	ePS	20 37 54
	e	20 39.9
	SS	20 43.0
	SSS	20 47.1
	L	20 58
	M	21 17
	F	0 12
	Δ	10,520 km.

NO. AND DATE	PHASE	TIME h m s
	Saskatoon	
707 Oct. 5 (Cont'd)	H	20 12 18
	P	20 25 10
	PP	20 28 40
	PPP	20 30 56
	SKS	20 35 32
	S	20 35 59
	PS	20 36 55
	SS	20 41 55
	SSS	20 45.7
	L	20 55.3
	M	21 02.8
	F	23 50
	Δ	9,860 km.
	Halifax	
	H	20 12 23
	P	20 24 23
	PP	20 37 37
	S	20 34 35
	PS	20 35 21
	SS	20 40.1
	L	20 50.1
	F	22 40
	Δ	9,020 km.
	Seven Falls	
	H	20 12 18
	P	20 24 41
	PP	20 27 49
	S	20 35 02
	PS	20 35 41
	SS	20 38 58
	SSS	20 44.1
	e	20 49.6
	L	20 53.1
	M	21 08
	Amplitude 15 mm. Period 16 sec.	
	F	0 24
	Δ	9,235 km.
	Shawinigan Falls	
	H	20 12 13
	P	20 24 44
	PP	20 27 12
	S	20 35 13
	SS	20 40.7
	L	20 53
	F	22 00
	Δ	9,400 km.

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NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
708 Oct. 7	e	19 32 25
	F	19 33
	Ottawa (Z)	
709 Oct. 8	e	9 18 54
	F	9 22
	Victoria (Z)	
	e	9 15 05
	F	9 18
	Seven Falls	
	L	9 40
	F	9 59
	Victoria	
710 Oct. 8	e	10 53 31
	i	10 53 43
	F	10 54
	Ottawa	
711 Oct. 8	L	19 59
	F	20 22
	Victoria (Z)	
	e	19 15 12
	F	19 17
	Seven Falls	
	L	19 57
	F	20 15
	Ottawa (Z)	
712 Oct. 8	H	20 00 51
	P_n	20 01 12.6
	P_2	20 01 14.5
	S_n	20 01 29.0
	S_2	20 01 33.0
	F	20 01.7
	△	133 km.
	Victoria	
713 Oct. 9	e	5 21 19
	F	5 22
	Victoria (Z)	
714 Oct. 9	e	7 43 06
	F	7 45
	Ottawa (Z)	
715 Oct. 10	e	17 54 26
	F	17 57
	Seven Falls	
	e	17 54 04
	L	18 21
	F	18 35
	Ottawa (Z)	
716 Oct. 10	H	20 18 15
	P_n	20 18 39.6
	P_2	20 18 41.2
	S_n	20 18 57.5
	S_2	20 19 00.9
	e	20 19 05.5
	F	20 19.3
	△	145 km.
	Seven Falls	
717 Oct. 11	L	17 54
	F	18 04
	Victoria (Z)	
718 Oct. 12	e	2 48 57
	F	2 50
	Victoria (Z)	
719 Oct. 12	e	2 53 11
	F	2 54
	Seven Falls	
720 Oct. 12	L	3 39
	F	4 08
	Victoria (Z)	
721 Oct. 12	e	13 50 15
	F	13 52

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 108

NO. AND DATE	PHASE	TIME
		h m s
	Ottawa (Z)	
722 Oct. 13	e	13 00 36
	F	13 01.3
	Ottawa (Z)	
723 Oct. 13	H	18 15 41
	P_n	18 16 07.0
	P_2	18 16 08.8
	S_n	18 16 26.8
	S_2	18 16 28.0
	e	18 16 32
	F	18 16.8
	Δ	154 km.
724 Oct. 14	Ottawa (Z)	
	e	5 23 21
	F	5 24.2
	Ottawa (Z)	
725 Oct. 14	e	22 00 05
	F	22 00.3
	Ottawa (Z)	
726 Oct. 14	e	22 01 19
	F	22 02.3
	Ottawa (Z)	
727 Oct. 14	e	22 02 43
	F	22 03.1
	Victoria	
	i	21 54 15
	e	21 56 37
	F	21 58
	Ottawa (Z)	
728 Oct. 15	H	19 07 56
	P_n	19 08 27.0
	S_n	19 08 50.5
	e	19 09 03
	F	19 09.3
	Δ	203 km.
729 Oct. 15	USCGS	
	φ = 60° S.	
	λ = 20° W.	
	H = 22 43.8	
	Sandwich Islands group	
	Ottawa	
	e	23 03.6
	e	23 13 02
	L	23 19
	F	1 14
	Victoria	
	e	23 03.4
	e	23 07.2
	e	23 23.7
	L	23 44
	F	0 45
	Halifax	
	e	23 12 22
	L	23 18.7
	F	23 57
	Seven Falls	
	e	23 03.7
	e	23 13 12
	L	23 27
	F	1 17
	Ottawa	
730 Oct. 16	L	2 56
	F	3 15
	Victoria	
	e	2 08 58
	F	2 10.5
	Seven Falls	
	L	2 57
	F	3 15
	Victoria (Z)	
731 Oct. 16	e	4 43 44
	F	4 45

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 109

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
732 Oct. 16	e	4 52 08
	F	4 54
	Victoria (Z)	
733 Oct. 16	e	4 55 39
	F	4 56.5
	Ottawa (Z)	
734 Oct. 18	e	9 11 28
	F	9 13
	Victoria (Z)	
	e	9 13 08
	F	9 14.5
	Victoria (Z)	
735 Oct. 19	H	15 01 44
	P_n	15 02 05.0
	P_2	15 02 17.5
	S_n	15 02 18.1
	S_2	15 02 22
	F	15 02.7
	$\Delta\Delta$	120 km.
	Ottawa (Z)	
736 Oct. 19	e	22 27 10
	i	22 27 15.5
	F	22 28
	Victoria (Z)	
737 Oct. 19	e	22 42 34
	F	22 43
	Victoria (Z)	
738 Oct. 20	e	11 08 30
	F	11 10
	Victoria	
739 Oct. 20	e	11 18 22
	F	11 20

NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
740 Oct. 20	H	11 59 10
	P_n	11 59 34.0
	P_1	11 59 35.6
	S_n	11 59 51.6
	S_1	11 59 54.2
	F	12 00.3
	Δ	149 km.
	Ottawa (Z)	
741 Oct. 20	H	19 22 03
	P_2	19 22 47.0
	S_n	19 23 11.4
	e	19 23 23
	F	19 23.5
	Victoria (Z)	
742 Oct. 20	e	20 14 38
	F	20 17
	Victoria (Z)	
743 Oct. 20	e	23 58 40
	F	0 01
	Ottawa	
744 Oct. 21	L	2 50
	F	3 10
	Victoria	
	L	2 33
	F	3 01
	Seven Falls	
	L	2 57
	F	3 18
	USCGS	
745 Oct. 21	φ = 12°5 S.	
	λ = 88° W.	
	H = 4 50.2	
	West coast of Nicaragua	

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NO. AND	PHASE	TIME h m s
	Ottawa	
745 Oct. 21 (cont'd)	H	4 50 26
	P	4 57 00
	i	4 57 18
	S	5 02 22
	SS	5 05.0
	L	5 08
	F	7 28
	Δ	3,600 km.
	Victoria	
	iZ	4 58 38
	e	5 18.5
	e	5 25 47
	L	5 43
	F	8 24
	Saskatoon	
	e	5 07 41
	e	5 28 38
	L	5 48
	F	8 40
	Halifax	
	e	5 24 08
	e	5 36 04
	L	6 06.2
	F	6 58
	Seven Falls	
	e	4 57 23
	e	5 03 07
	L	5 32
	F	7 38
	Shawinigan Falls	
	e	4 57 16
	F	4 59
	Ottawa	
746 Oct. 21	L	9 34
	F	9 54
	Victoria	
	L	9 13
	F	9 41
	Saskatoon	
746 Oct. 21 (cont'd)	L	9 20
	F	9 53
	Seven Falls	
	L	9 41
	F	10 02
	Ottawa (Z)	
747 Oct. 21	H	17 42 15
	P_1	17 42 17.9
	S_1	17 42 19.4
	F	17 42.5
	Δ	10 km.
	Seven Falls	
748 Oct. 22	L	5 40
	F	6 18
	Victoria (Z)	
749 Oct. 22	e	14 10 01
	F	14 13
	Victoria	
750 Oct. 22	e	14 15 48
	F	14 17
	Ottawa (Z)	
751 Oct. 22	H	21 26 54
	P_n	21 27 36.8
	P_2	21 27 39.1
	P_1	21 27 45
	S_n	21 28 09.0
	S_2	21 28 11.0
	e	21 28 32
	F	21 28.6
	Δ	280 km.
	Victoria (Z)	
752 Oct. 23	e	4 32 48
	F	4 35

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NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
753 Oct. 23	e	4 35 06
	F	4 37
	Ottawa	
754 Oct. 23	L	5 46
	F	6 06
	Victoria (Z)	
	e	4 59 48
	F	5 02
	Ottawa (Z)	
755 Oct. 23	H	13 24 23
	P_n	13 24 47.7
	P_2	13 24 49.2
	S_n	13 25 05.6
	S_1	13 25 08.5
	i	13 25 11.4
	e	13 25 14
	F	13 25.4
	Δ	153 km.
	Ottawa (Z)	
756 Oct. 23	e	15 56 47
	i	15 56 53
	F	15 58
	Victoria	
	e	15 54 01
	L	16 09
	F	16 17
	Saskatoon	
	e	15 56 29
	L	16 14
	F	16 21
	Seven Falls	
	L	16 24
	F	16 41
	Ottawa (Z)	
757 Oct. 24	H	13 26 33
	P_n	13 27 04.5
	S_n	13 27 28.6
	e	13 27 40
	F	13 27.8
	Δ	203 km.

NO. AND DATE	PHASE	TIME h m s
	Seven Falls	
758 Oct. 24	L	18 01
	F	18 15
	Victoria (Z)	
759 Oct. 25	e	12 38 04
	F	12 39
	Victoria (Z)	
760 Oct. 26	e	20 04 06
	F	20 05.0
	Victoria (Z)	
761 Oct. 26	i	20 13 51.1
	i	20 13 54.2
	i	20 13 57.4
	F	20 14.0
	Victoria (Z)	
762 Oct. 27	e	0 40 12
	F	0 41
	Victoria (Z)	
763 Oct. 27	i	7 41 21.5
	e	7 41 38.5
	F	7 42.3
	Ottawa (Z)	
764 Oct. 27	H	17 04 01
	P_n	17 04 24.2
	P_2	17 04 25.8
	S_n	17 04 40.6
	S_2	17 04 44.2
	e	17 04 52
	F	17 05.1
	Δ	140 km.
	Ottawa	
765 Oct. 27	e	18 43 37
	L	18 49
	F	19 01
	Victoria (Z)	
	e	18 47 19
	F	18 50

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 112

NO. AND DATE	PHASE	TIME h m s
	Shawinigan Falls	
765 Oct. 27 (cont'd)	e	18 43 41
	F	18 45
	Ottawa (Z)	
766 Oct. 27	e	21 11 11
	F	21 11.6
	Victoria (Z)	
767 Oct. 28	H	0 38 54
	P_n	0 40 27.0
	P_2	0 40 45.7
	S_n	0 41 46.4
	S_2	0 42 21
	e	0 42 34
	F	0 46
	Δ	875 km.
	Saskatoon	
	e	0 47 25
	F	0 49
	Victoria	
768 Oct. 28	H	14 18 13
	P_n	14 19 39.0
	i	14 19 41.4
	e	14 19 43,7
	P_2	14 19 52.5
	P_1	14 20 02.0
	e	14 20 35.8
	S_n	14 20 43.0
	i	14 20 47.5
	S_2	14 21 04
	F	14 25
	Δ	690 km.
	Victoria	
769 Oct. 28	H	14 30 12
	P_n	14 31 37.5
	e	14 31 44.0
	P_2	14 31 51.0
	P_1	14 32 01
	S_n	14 32 41.5
	S_2	14 32 45.2
	F	14 35
	Δ	690 km.
	Trace of No's 768, 769 on horizontals at Victoria.	

NO. AND DATE	PHASE	TIME h m s
	Saskatoon	
768 and 769 Oct. 28	L	14 26.5
	F	14 47
	Seven Falls	
	L	14 39.5
	F	15 02
	USCGS	
770 Oct. 28	φ = 36° N.	
	λ = 141° E.	
	d = greater than normal	
	H = 20 45.4	
	Mag. 7	
	Near coast of Honshu, Japan	
	Ottawa	
	H	20 45 54
	P	20 58 42
	PP	21 02 19
	SKS	21 09 04
	S	21 09 27
	SS	21 15.8
	L	21 32
	F	22 08
	Δ	9,780 km.
	Victoria	
	H	20 45 39
	P	20 56 20.5
	i	20 56 34
	S	21 05 14
	L	21 19
	F	21 53
	Δ	7,320 km.
	Saskatoon	
	H	20 45 47
	P	20 57 07
	PP	20 59 44
	PPP	21 01 27
	S	21 06 32
	PS	21 07 02
	L	21 20
	F	21 55
	Δ	7,990 km.
	Seven Falls	
	e	21 09 31
	L	21 31.0
	F	22 16

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SEISMOLOGICAL SERVICE OF CANAD

DOMINION OBSERVATORY, OTTAWA

No. 113

NO. AND DATE	PHASE	TIME h m s
	USCGS	
771 Oct. 29	φ = 19° S.	
	λ = 71° W.	
	d = 100 km.	
	H = 03 07.4	
	Northern Chile	
	Victoria (Z)	
	e	3 19 37
	F	3 22
	Victoria (Z)	
772 Oct. 29	H	8 15 39
	P_n	8 17 05.5
	S_n	8 18 09.0
	F	8 20
	Δ	690 km.
	USCGS	
773 Oct. 29	φ = 5° N.	
	λ = 101° W.	
	H = 11 07.4	
	Pacific Ocean. 800 miles south of Mexico.	
	Ottawa	
	e	11 15 39
	e	11 22 24
	L	11 33
	F	11 45
	Victoria (Z)	
	e	11 15 55
	F	11 18
	Saskatoon	
	e	11 29 04
	L	11 31
	F	11 45
	Seven Falls	
	L	11 24
	F	11 45
	Victoria (Z)	
774 Oct. 30	e	5 00 36
	F	5 02

NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
775 Oct. 30	H	16 59 43
	P_n	17 00 06.3
	P_2	17 00 07.9
	S_n	17 00 22.9
	S_2	17 00 24.1
	S_1	17 00 26.2
	F	17 00.8
	Δ	141 km.
	Ottawa (Z)	
776 Oct. 30	H	19 40 12
	P_n	19 40 36.2
	P_2	19 40 37.8
	S_n	19 40 53.6
	S_2	19 40 57.0
	e	19 41 02
	F	19 41.2
	Δ	148 km.
	Ottawa (Z)	
777 Oct. 30	H	21 55 00
	P_n	21 55 31.6
	P_2	21 55 32.6
	S_n	21 55 55.6
	S_2	21 55 58.0
	e	21 56 06
	F	21 56.3
	Δ	215 km.
	Ottawa (Z)	
778 Oct. 31	e	16 48 58
	F	16 50

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SEISMOLOGICAL BULLETINS RECEIVED

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

STATIONS	BULLETINS	RECEIVED
	July, 1948	
Istanbul	March, 1948	July 2
Brisbane	April, 1948	" 2
Perth	January - March, 1948	" 2
Istanbul	April, 1948	" 5
Santiago	Year, 1947	" 5
Riverview	Year, 1946	" 5
De Bilt	May, 1948	" 5
Berkeley	April - June, 1941; Year 1947	" 6
Wellington	April, 1948	" 7
Budapest	1932 - 1945	" 7
Richmond	May, 1948	" 12
Pittsburg	January - December, 1946	" 13
Toledo	May, 1948	" 13
Belgrade	May, 1948	" 13
Santa Clara	June, 1948	" 13
Triests	March, April, 1948	" 14
Ksara	May, 1948	" 15
Wellington	March, April, 1948	" 16
Saint Louis and Auxiliary Stations	July - December, 1943; Preliminaries March, April, May, 1948	" 16
Cleveland	April - June, 1948	" 21
Prague	Year, 1947	" 22
Zurich	April , May, 1948	" 22
Apia	April - June, 1948	" 23
Toledo	July, 1947, April, 1948	" 23
Strasbourg	June, 1948	" 26
Bureau Central	March, 1948	" 26
Istanbul	May, 1948	" 26
Rome	May, 1948	" 27
De Bilt	June, 1948	" 30
	August, 1948	
Uccle	June, July, 1948	August 3
Saint Louis and Auxiliary Stations	Preliminaries May, June, 1948	" 3
Bucarest	February - June, 1948	" 3
Batavia	January - March, 1948	" 9
Santa Clara	July, 1948	" 10
Richmond	June, 1948	" 11
Helwan	Year, 1940	" 11
Belgrade	June, 1948	" 16
Rome	June, 1948	" 16
Saint Louis and Auxiliary Stations	Supplements for January, 1948; preliminaries June, 1948	" 16
Cleveland	July, 1948	" 19
Saint Louis and Auxiliary Stations	Supplements for February - April, 1948; Preliminaries June, July, 1948	" 19
Pasadena	April - June, 1948	" 19
Budapest	June, 1948	" 23
Istanbul	June, 1948	" 23
Cartuja	January - March, 1945	" 23
Wellington	May, 1948	" 24
Brisbane	June, 1948	" 25
Stuttgart	April - June, 1948	" 30
Trieste	May, June, 1948	" 30

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SEISMOLOGICAL BULLETINS RECEIVED

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STATION	BULLETINS	RECEIVED
	September, 1948	
Ksara	June, July, 1948	September 1
Helsinki	April - June, 1948	" 1
De Bilt	July, 1948	" 2
Strasbourg	July, 1948	" 2
Bureau Central	April, 1948	" 2
Pasadena	October - December, 1947; Premilinaries May - August, 1948	" 8
Saint Louis and Auxiliary Stations	January, 1944; Preliminaries May - August, 1948	" 8
USCGS	January - March, 1945	" 11
Cleveland	August, 1948	" 14
Belgrade	July, 1948	" 14
La Plata	Year 1941	" 14
Wellington	June, 1948	" 17
Jena	Year 1947	" 24
Istanbul	July, 1948	" 24
La Paz	November, December, 1947	" 30
	October, 1948	
Belgrade	Year 1941	October 4
De Bilt	August, 1948	" 4
Rome	July, 1948	" 4
Santa Clara	August, 1948	" 4
Scoresby-sund	1943, 1944	" 4
Saint Louis and Auxiliary Stations	Preliminaries for August, 1948; February - June, 1944	" 4
Richmond	July, 1948	" 4
Brisbane	July, 1948	" 6
Budapest	1946, 1947	" 8
Saint Louis and Auxiliary Stations	July, 1944; Preliminary August, 1948	" 9
Belgrade	August, 1948	" 12
Strasbourg	August 1 - September 10,1948	" 13
Bureau Central	May, 1948	" 13
Santa Clara	September, 1948	" 13
Saint Louis and Auxiliary Stations	August, 1944; Preliminaries September 8 - 19, 1948	" 14
Toledo	June, August, 1948	" 14
Batavia	April - June, 1948	" 15
Wellington	July, 1948	" 15
Richmond	August, 1948	" 16
Ksara	August, 1948	" 21
Istanbul	August, 1948	" 22
Rome	August, 1948	" 22
Zurich	June- August, 1948	" 25
De Bilt	September, 1948	" 27
Bureau Central	June - August, 1948	" 28
Strasbourg	September 10 - 20, 1948	" 28
Cleveland	September, 1948	" 29
Budapest	July, September, 1948	" 30
Kalocsa	July, September, 1948	" 30

Dominion Observatory,
Ottawa - Canada,
November 12, 1948

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DEPARTMENT OF MINES AND RESOURCES

MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

SEISMOLOGICAL BULLETIN

November and December

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. 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 200 g.

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.

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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.

Benioff Vertical, short-period, designated B 5705, photographic registration, paper speed of 60 mm. per min., mass 235 lbs., installed June, 1948.

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	Ts	Tg	V	ε	DISPLACEMENT FOR 1" ARC TILT
17 (Ottawa)	12.0		300	20:1	50 mm.
23 (Ottawa)	12.0		300	20:1	50 mm.
BS (Ottawa)	1.0	0.1			
BL (Ottawa)	1.0	48			
HN (Halifax)	5.0		125	20:1	
HE (Halifax)	5.0		125	20:1	
SA (Shawinigan)	1.0		2200		
B 5705 (Victoria)	1.0	0.1			
20 (Victoria)	12.0		300	20:1	50 mm.
21 (Victoria)	12.0		300	20:1	50 mm.
SF (Seven Falls)	1.0		2200		
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

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
779 Nov. 1	L	10 15
	F	10 24
	Victoria (Z)	
	e	10 03 04
	F	10 04
	Saskatoon	
	L	10 13
	F	10 18
	Halifax	
	L	10 20
	F	10 23
	Seven Falls	
	L	10 18
	F	10 26
	Ottawa	
780 Nov. 1	e	11 51 25
	L	12 02
	F	12 11
	Victoria (Z)	
	e	11 50 02
	F	11 52
	Saskatoon	
	L	12 02
	F	12 08
	Halifax	
	L	12 07
	F	12 10
	Seven Falls	
	L	12 05
	F	12 14
	USCGS	
781 Nov. 1	φ = 57° N. λ = 161° E. H = 12 05.8 Kamchatka	

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
781 Nov. 1 (Cont'd)	H	12 06 07
	Δ	7335 km.
	P	12 16 48
	S	12 25 42
	e	12 28.2
	SSS	12 33.2
	L	12 41
	F	13 24
	Victoria	
	H	12 06 05
	P	12 13 57
	PPP	12 15 43
	S	12 20 24
	SSS	12 24.0
	L	12 28.0
	F	13 05
	Saskatoon	
	H	12 05 55
	P	12 14 22
	S	12 21 16
	PS	12 21 52
	SS	12 24 34
	SSS	12 25.7
	L	12 29.4
	F	13 24
	Halifax	
	L	12 48
	F	13 05
	Seven Falls	
	H	12 06 02
	P	12 16 51
	S	12 25 51
	e	12 33.5
	L	12 40
	F	13 56
	Shawinigan Falls	
	e	12 16 49
	F	12 19
	Ottawa (Z)	
782 Nov. 1 and 2	e	0 01 47
	F	0 04

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
782 Nov. 1,2	e	23 58 09
	F	23 59
	Seven Falls	
	L	23 46
	F	0 35
	Ottawa (Z)	
783 Nov. 2	e	1 40 47
	F	1 41
	USCGS	
784 Nov. 3	φ = 20°5 S.	
	λ = 169°5 E.	
	H = 05 18.9	
	Loyalty Islands	
	Ottawa	
	e	5 37 43
	L	6 15
	F	6 53
	Victoria (Z)	
	e	5 32 02
	F	5 34
	Halifax	
	L	6 17
	F	6 52
	Seven Falls	
	L	6 20
	F	6 57
	Ottawa (Z)	
785 Nov. 4	e	1 39 28
	i	1 40 28
	F	1 41.5

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
786 Nov. 4	H	4 47 43
	Δ	460 km.
	iP_n	4 48 40.0
	i	4 48 43.1
	i	4 48 48
	i	4 48 52.8
	e	4 49 09
	iS_n	4 49 23.8
	i	4 49 27
	F	4 53
	Ottawa (Z)	
787 Nov. 4	e	13 29 06
	F	13 33
	Victoria (Z)	
	e	13 26 21
	F	13 29
	Shawinigan Falls	
	e	13 29 06
	F	13 31
	Ottawa (Z)	
788 Nov. 4	e	17 20 24
	F	17 23
	Shawinigan Falls	
	e	17 20 32
	F	17 22
	Ottawa	
789 Nov. 4	H	20 23 43
	Δ	150 km.
	P_n	20 24 07.4
	P_2	20 24 09.0
	S_n	20 24 25.5
	S_2	20 24 27.5
	e	20 24 33
	F	20 24.8

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 116

NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
790 Nov. 4	H	23 06 13
	Δ	143 km.
	P_n	23 06 36.8
	P_2	23 06 38.5
	S_n	23 06 53.6
	S_2	23 06 57.2
	e	23 07 06
	F	23 07.3
	Ottawa (Z)	
791 Nov. 5	e	8 51 20
	F	8 52.3
	Victoria (Z)	
792 Nov. 6	e	14 22 03
	F	14 24
	Seven Falls	
793 Nov. 6	L	15 11
	F	15 40
	Victoria (Z)	
794 Nov. 8	e	4 44 49
	F	4 47
	Victoria (Z)	
795 Nov. 8	e	16 48 57
	e	16 49 18
	F	16 54
	Victoria (Z)	
796 Nov. 8	e	18 03 07
	F	18 07
	Victoria (Z)	
797 Nov. 8	e	18 31 45
	F	18 32.0
	Victoria (Z)	
798 Nov. 9	e	5 03 24
	F	5 04

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
799 Nov. 9	e	20 45 11
	L	20 56.2
	F	21 03
	Victoria	
	e	20 43 58
	L	20 51
	F	21 04
	Halifax	
	e	20 54.2
	L	21 01
	F	21 03
	Shawinigan Falls	
	L	20 57
	F	21 00
	Victoria (Z)	
800 Nov. 9	e	20 52 41
	F	20 55
	Victoria (Z)	
801 Nov. 10	e	2 08 34
	i	2 08 37
	F	2 09
	Victoria (Z)	
802 Nov. 10	i	13 09 37
	i	13 09 45
	F	13 13
	Ottawa (Z)	
803 Nov. 11	e	7 16 35
	F	7 19
	Victoria (Z)	
	e	7 16 46
	F	7 19
	Ottawa (Z)	
804 Nov. 11	e	7 51 15
	F	7 51.6

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
804 Nov. 11 (cont'd)	e	7 52 13
	F	7 55
	Victoria (Z)	
805 Nov. 11	e	12 52 51
	F	12 55
	Ottawa	
806 Nov. 11	L	20 48.5
	F	20 53
	Victoria (Z)	
	H	20 28 14
	Δ	960 km.
	P_n	20 30 23.0
	i	20 30 26.0
	i	20 30 29.4
	P_2	20 30 42.0
	P_1	20 31 12.0
	S_n	20 32 03.8
	e	20 32 06.0
	i	20 32 09.5
	i	20 32 14.0
	S_2	20 32 43.0
	S_1	20 33 01.5
	F	20 39
	Saskatoon	
	i_{NW}	20 37 11
	F	20 40.3
	Ottawa (Z)	
807 Nov. 11	H	21 45 18
	Δ	220 km.
	P_n	21 45 50.0
	P_2	21 45 51.0
	S_n	21 46 14.0
	S_2	21 46 15.6
	i	21 46 17
	e	21 46 25
	F	21 46.6
	Victoria (Z)	
808 Nov. 11	e	22 38 50
	i	22 39 10
	i	22 40 33
	F	22 42

NO. AND DATE	PHASE	TIME h m s
	Seven Falls	
809 Nov. 12	L	18 41
	F	18 58
	Victoria (Z)	
810 Nov. 12	e	22 08 38
	F	22 09
	Victoria (Z)	
811 Nov. 13	e	0 43 48.5
	i	0 43 59.0
	i	0 44 02.6
	F	0 45.2
	Victoria (Z)	
812 Nov. 13	e	4 57 45
	F	4 59
	Ottawa	
813 Nov. 13	e_{NS}	7 25.4
	L	7 52
	F	8 41
	Victoria	
	e	7 12 48
	L	7 43
	F	8 21
	Saskatoon	
	e	7 24 48
	L	7 44.5
	F	8 15
	Seven Falls	
	L	7 56
	F	8 55
814 Nov. 13	Near Seven Falls station in Quebec	
	Ottawa (Z)	
	e	16 51 57
	i	16 52 05
	F	16 53.5

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NO. AND DATE	PHASE	TIME h m s
	Seven Falls	
814 Nov. 13 (cont'd)	H	16 49 47
	Δ	63 km.
	P_2	16 50 03.5
	P_n	16 50 06.0
	S_2	16 50 11.0
	e	16 50 13.0
	F	16 52
	Shawinigan Falls	
	e	16 50 29.5
	e	16 50 52
	F	16 52
	Ottawa (Z)	
815 Nov. 13	H	22 00 56
	Δ	203 km.
	P_n	22 01 27.0
	S_n	22 01 50.5
	S_2	22 01 53.4
	e	22 02 04
	F	20 02.2
	Ottawa	
816 Nov. 13	e	23 15.1
	e	23 23
	L	23 41
	F	0 24
	Victoria	
	e	23 02 58
	L	23 30
	F	23 37
	Saskatoon	
	e	23 12 54
	L	23 35
	F	0 31
	Seven Falls	
	L	23 50
	F	0 46

NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
817 Nov. 14	H	17 13 40
	Δ	145 km.
	P_n	17 14 02.5
	P_2	17 14 04.2
	S_n	17 14 20.2
	S_2	17 14 22.0
	e	17 14 23.3
	e	17 14 29
	F	17 14.8
	Ottawa (Z)	
818 Nov. 15	e	10 38 05
	F	10 40
	Ottawa (Z)	
819 Nov. 15	H	23 03 29
	Δ	135 km.
	P_n	23 03 51.8
	P_2	23 03 53.6
	S_n	23 04 08.5
	S_2	23 04 12.4
	e	23 04 22
	F	23 04.5
	Ottawa (Z)	
820 Nov. 16	e	4 33 06
	F	4 33.5
	Ottawa (Z)	
821 Nov. 16	H	19 52 48
	Δ	175 km.
	P_n	19 53 16.0
	S_n	19 53 36.5
	e	19 53 42
	F	19 53.9
	Victoria (Z)	
822 Nov. 17	H	1 12 33
	Δ	535 km.
	P_n	1 13 47.6
	i	1 13 52.4
	P_2	1 13 58.5
	P_1	1 14 04.0
	S_n	1 14 38.6
	i	1 14 41.0
	S_2	1 14 46.0
	S_1	1 14 53
	F	1 16

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 119

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
823 Nov. 18	H	8 54 01
	Δ	55 km.
	P_2	8 54 13.7
	S_2	8 54 20.5
	F	8 56
	Ottawa (Z)	
824 Nov. 18	e	13 06 05
	F	13 07
	Ottawa (Z)	
825 Nov. 18	e	17 28 18
	i	17 28 37
	e	17 28 43
	F	17 28.8
	Ottawa (Z)	
826 Nov. 18	H	21 52 29
	Δ	200 km.
	P_n	21 52 50.2
	S_n	21 53 13.5
	S_2	21 53 16
	e	21 53 24
	F	21 53.6
	USCGS	
827 Nov. 19	φ = 9° N.	
	λ = 84° W.	
	H = 1 04.3	
	d = 100 km.	
	Near coast of western Costa Rica	
	Ottawa	
	H	1 04 25
	Δ	3910 km.
	P	1 11 22
	i	1 11 25
	i	1 11 42
	PP	1 11 50
	PPP	1 12 38
	S	1 17 07
	e	1 17 30
	SS	1 19 28
	SSS	1 20.0
	L	1 22.7
	M	1 24.5
	Ampl. 13 mms. on horizontals with period of 20 sec.	
	F	2 26

NO. AND DATE	PHASE	TIME h m s
	Victoria	
827 Nov. 19 (cont'd)	H	1 04 09
	Δ	5835 km.
	P	1 13 20
	e	1 14.4
	S	1 20 51
	L	1 31
	F	2 17
	Saskatoon	
	H	1 04 37
	Δ	5555 km.
	e	1 14 00
	PP	1 15 30
	S	1 20 45
	SS	1 24 15
	L	1 28 30
	F	2 04
	Halifax	
	H	1 04 33
	Δ	4170 km.
	P	1 11 48
	i	1 13 26
	PPP	1 13 41
	S	1 17 46
	SS	1 19 48
	L	1 27
	F	1 50
	Seven Falls	
	H	1 04 31
	Δ	4150 km.
	P	1 11 46
	PPP	1 13 24
	S	1 17 44
	SS	1 20.4
	L	1 24.0
	F	2 24
	Shawinigan Falls	
	H	1 04 27
	Δ	4090 km.
	P	1 11 36
	PPP	1 13 25
	S	1 17 29
	L	1 24
	F	1 28

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SEISMOLOG' CANADA

DOMINI' OTTAWA

No. 120

NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
828 Nov. 20	e	4 15 15
	F	4 16
	Victoria (Z)	
	e	4 17 29
	F	4 18
	Ottawa	
829 Nov. 20	e	8 28 43
	L	8 41.6
	F	9 05
	Saskatoon	
	L	8 41
	F	8 48
	Seven Falls	
	L	8 43
	F	8 56
	Ottawa (Z)	
830 Nov. 20	e	10 21 56
	F	10 24
	Victoria (Z)	
	e	10 19 18
	F	10 21
	Ottawa (Z)	
831 Nov. 21	e	14 50 14
	F	14 51.2
	Victoria (Z)	
832 Nov. 21	H	15 29 53
	Δ	680 km.
	P_n	15 31 25.5
	e	15 31 31
	e	15 31 39
	e	15 31 48
	S_n	15 32 29
	e	15 32 35
	e	15 32 45
	F	15 33
	Ottawa (Z)	
833 Nov. 21	H	16 54 56
	Δ	140 km.
	P_n	16 55 19.5
	P_2	16 55 21.0
	S_n	16 55 36.5
	S_2	16 55 40.0
	e	16 55 45
	F	16 55.9
	USCGS	
834 Nov. 21	φ = 11° S.	
	λ = 167° E.	
	H = 19 10.6	
	d = 150 km.	
	Ottawa	
	e	19 28 58
	e	19 39 54
	e	19 47 20
	L	20 04
	F	20 48
	Victoria	
	H	19 10 27
	Δ	9300 km.
	P	19 22 57
	pP	19 23 40
	e	19 24 39
	e	19 26.8
	S	19 33 18
	PS	19 34 33
	e	19 40.5
	L	19 55
	F	20 02
	Saskatoon	
	e	19 35.0
	e	19 36.7
	L	19 55.3
	F	20 33
	Seven Falls	
	e	19 41.0
	L	20 00
	F	20 43
	Ottawa (Z)	
835 Nov. 21	e	19 39 21
	F	19 39.6

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 121

NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
836 Nov. 21	H	21 55 36
	Δ	105 km.
	P_n	21 55 54.6
	P_2	21 55 57.0
	S_n	21 56 08.2
	e	21 56 13
	F	21 56.4
	USCGS	
837 Nov. 22	φ = 51° N.	
	λ = 180° E.	
	H = 09 06.8	
	Aleutian Islands	
	Ottawa	
	e	9 17 26
	e	9 26.1
	L	9 36.5
	F	10 41
	Victoria	
	H	9 07 04
	Δ	3850 km.
	P	9 13 57
	S	9 19 35
	SS	9 22 21
	L	9 24
	F	10 16
	Saskatoon	
	e	9 21 31
	e	9 21 44
	e	9 25.0
	L	9 26.5
	F	10 27
	Halifax	
	L	9 42.5
	F	9 57
	Seven Falls	
	L	9 37
	F	10 36
	Victoria (Z)	
838 Nov. 22	e	12 09 29
	F	12 10

NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
839 Nov. 22	H	23 32 44
	Δ	166 km.
	P_n	23 33 15.4
	P_2	23 33 16.4
	e	23 33 17.9
	P_1	23 33 19.2
	S_n	23 33 34.5
	S_2	23 33 34.8
	e	23 33 36.4
	S_1	23 33 38.4
	e	23 33 39
	e	23 33 47
	F	23 35.2
	Ottawa (Z)	
840 Nov. 22,23	e	23 41 36
	F	23 44
	Victoria (Z)	
	L	0 01
	F	0 12
	Saskatoon	
	L	0 57.5
	F	1 06
	Ottawa (Z)	
841 Nov. 23	H	4 33 26
	Δ	169 km.
	P_n	4 33 58.0
	P_1	4 33 59.0
	S_n	4 34 17.5
	S_1	4 34 19.2
	F	4 34.5
	Ottawa (Z)	
842 Nov. 23	H	21 29 53
	Δ	186 km.
	P_n	21 30 27.0
	P_1	21 30 29.0
	S_n	21 30 48.5
	S_2	21 30 49.2
	e	21 30 53
	F	21 31.5
	Shawinigan Falls	
	e	21 31 09
	F	21 32

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 122

NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
843 Nov. 24	e	6 44 45
	F	6 46
	Ottawa (Z)	
844 Nov. 24	H	17 06 23
	Δ	132 km.
	P_n	17 06 45.5
	P_2	17 06 47.0
	S_n	17 07 01.8
	S_2	17 07 05.0
	e	17 07 13
	F	17 07.4
845 Nov. 26	USCGS	
	φ = 5° S.	
	λ = 145° E.	
	H = 5 36.5	
	New Guinea	
	Ottawa	
	H	5 36 29
	Δ	15,200 km.
	P	5 55 38
	i	5 55 55
	PP	5 57 28
	PPS	6 09 12
	SS	6 14 40
	SSS	6 19.3
	L	6 34
	F	8 01
	Victoria	
	H	5 36 32
	Δ	10,610 km.
	P	5 49 56
	i	5 50 17
	PP	5 54 11
	SKS	6 00 23
	S	6 00 55
	PS	6 02 17
	PPS	6 03.1
	L	6 20
	F	6 55

NO. AND DATE	PHASE	TIME h m s
	Saskatoon	
845 Nov. 26 (cont'd)	H	5 36.1
	Δ	12,220 km.
	PP	5 55 05
	i	5 55 22
	SKS	6 01 05
	S	6 02 50
	PS	6 04 13
	PPS	6 05 35
	SS	6 10 36
	SSS	6 14.7
	L	6 25.5
	F	6 57
	Halifax	
	L	6 42
	F	7 02
	Seven Falls	
	e	5 56 01
	e	6 59.0
	e	6 09.4
	L	6 35
	F	8 09
	Victoria	
846 Nov. 26	L	7 48
	F	8 16
	Saskatoon	
	L	7 46
	F	8 04
	Ottawa (Z)	
847 Nov. 26	e	17 03 52
	F	17 04
	Ottawa (Z)	
848 Nov. 26	H	19 04 46
	Δ	150 km.
	P_n	19 05 00.5
	P_2	19 05 02.0
	S_n	19 05 18.5
	S_2	19 05 21.6
	e	19 05 26
	F	19 05.6

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 123

NO. AND DATE	PHASE	TIME h m s
	Ottawa (Z)	
849 Nov. 26	e	20 35 15
	F	20 35.6
	Ottawa (Z)	
850 Nov. 26	e	22 46 02
	F	22 46.8
	Ottawa (Z)	
851 Nov. 27	e	6 23 28
	F	6 25
	Victoria (Z)	
	e	6 25 10
	F	6 26
	Ottawa (Z)	
852 Nov. 27	e	6 43 21
	F	6 44
	Ottawa (Z)	
853 Nov. 27	H	22 20 00
	Δ	500 km.
	P_n	22 21 12
	P_2	22 21 22.0
	S_n	22 21 58.5
	e	22 22 12.6
	S_2	22 22 15.5
	e	22 22 19.5
	S_1	22 22 25.5
	F	22 23.0
	Shawinigan Falls	
	e	22 22 48
	F	22 23
	Ottawa (Z)	
854 Nov. 28	e	4 59 00
	F	5 00
	Ottawa (Z)	
855 Nov. 29	e	20 35 29
	F	20 35.6
	Ottawa (Z)	
856 Nov. 30	e	8 39 47
	F	8 45
	Seven Falls	
	e	8 39 55
	F	8 41
	Shawinigan Falls	
	e	8 39 53
	F	8 41
	Ottawa (Z)	
857 Nov. 30	H	21 05 04
	Δ	155 km.
	P_n	21 05 29.0
	P_2	21 05 30.6
	S_n	21 05 47.8
	S_2	21 05 49.5
	e	21 05 54
	F	21 06.1
	Ottawa (Z)	
858 Nov. 30	H	22 14 20
	Δ	217 km.
	P_n	22 14 53
	P_2	22 14 54.6
	S_n	22 15 18
	S_2	22 15 19
	e	22 15 29
	F	22 14.6

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DOMINION OBSERVATORY, OTTAWA

No. 124

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
859 Dec. 1	H	13 25 18
	Δ	735 km.
	P_n	13 26 56.0
	P_2	13 27 07
	P_1	13 27 21
	S_n	13 28 04.5
	S_2	13 28 08
	F	13 29
	Shawinigan Falls	
860 Dec. 1	e	14 24 29
	F	14 25
	Seven Falls	
861 Dec. 1	L	20 40
	F	21 03
	Victoria (Z)	
862 Dec. 2	e	23 10 26
	F	23 11
	Victoria (Z)	
863 Dec. 2	e	23 17 59
	F	23 19
	USCGS	
864 Dec. 4	φ = 21°5 N.	
	λ = 106° W.	
	M = 7	
	H = 00 22.8	
	Off west coast of Mexico	
	Ottawa	
	H	0 22 46
	Δ	3835 km.
	P	0 29 37 c
	PP	0 30 29
	PPP	0 30 57
	S	0 35 14
	SS	0 37 38
	L	0 39.6
	M	0 44.0
	52 mm. amplitude 10 sec. period	
	F	2 13

NO. AND DATE	PHASE	TIME h m s
	Victoria	
864 Dec. 4 (cont'd)	H	0 22 39
	Δ	3390 km.
	iP	0 28 59.0 r
	i	0 29 06
	i	0 29 14
	PP	0 30 06
	PPP	0 30 24
	S	0 34 05
	SS	0 35.9
	L	0 40.1
	M	0 44
	84 mm. amplitude 8 sec. period	
	F	1 58
	Saskatoon	
	H	0 22 43
	Δ	3420 km.
	P	0 29 03
	PP	0 30 01
	PPP	0 30 21
	e	0 34 01
	S	0 34 14
	e	0 34 39
	e	0 36 18
	L	0 38.7
	F	1 45
	Halifax	
	H	0 22 52
	Δ	4645 km.
	P	0 30 42
	e	0 31 38
	PPP	0 32 50
	S	0 37 07
	SS	0 40.2
	L	0 44.5
	M	0 48
	F	1 40
	Seven Falls	
	H	0 22 37
	Δ	4445 km.
	P	0 30 09
	PP	0 31 34
	S	0 36 10
	SS	0 39.2
	L	0 41.2
	F	2 16

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DOMINION OBSERVATORY, OTTAWA

NO. AND DATE	PHASE	TIME h m s
	Shawinigan Falls	
864 Dec. 4 (cont'd)	H	0 22 45
	Δ	4230 km.
	P	0 29 59
	PP	0 31 31
	S	0 45 50
	SSS	0 39 21
	L	0 40.4
	F	1 17
	Ottawa	
865 Dec. 4	e	2 50 20
	L	3 02
	F	3 15
	Saskatoon	
	L	3 00
	F	3 10
	Seven Falls	
	L	3 04
	F	3 13
	Shawinigan Falls	
	L	3 02
	F	3 07
	Ottawa (Z)	
866 Dec. 4	e	2 56 09
	F	2 57
	Ottawa	
867 Dec. 4	e	3 59 36
	L	4 13
	F	4 19
	Shawinigan Falls	
	L	4 12
	F	4 15
	Ottawa (Z)	
868 Dec. 4	e	4 34 12
	F	4 35
	Ottawa (Z)	
869 Dec. 4	e	7 59 14
	F	8 01
	Ottawa (Z)	
870 Dec. 4	e	16 04 09
	F	16 04.5
	Ottawa	
871 Dec. 4	P	16 40 09.5
	e	16 40 52
	L	17 01
	F	17 24
	Saskatoon	
	L	16 43
	F	17 03
	Seven Falls	
	L	17 01
	F	17 29
	Shawinigan Falls	
	e	16 40 18
	F	16 41
	Ottawa (Z)	
872 Dec. 4	e	20 41 17
	F	20 42
	Ottawa (Z)	
873 Dec. 4	e	20 42 05
	F	20 42.5
	USCGS	
874 Dec. 4	φ = 33°9 N.	
	λ = 116°4 W.	
	H = 23 43 15	
	Southern California	
	Ottawa	
	H	23 43 19
	Δ	3600 km.
	P	23 49 53 r
	S	23 55 15
	SS	23 57.0
	L	24 00.2
	M	24 03
	amplitude 30 mm. period 11 sec.	
	F	1 06

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 126

NO. AND DATE	PHASE	TIME h m s
	Victoria	
874 Dec. 4 (cont'd)	H	23 43 20
	Δ	1830 km.
	P	23 47 03.5r
	PP	23 [illegible] 16
	S	23 49 59
	SS	23 50.3
	L	23 51.1
	M	23 53
	amplitude 76 mm. period 7 sec.	
	F	1 10
	Saskatoon	
	H	23 43 27
	Δ	2155 km.
	P	23 47 53
	PPP	23 48 25
	S	23 51 31
	L	23 53
	F	1 07
	Halifax	
	H	23 43 27
	Δ	4555 km.
	P	23 51 10
	S	23 57 30
	SS	24 00 14
	SSS	24 00 52
	L	24 03.6
	F	23 41
	Seven Falls	
	e	23 49 24
	e	23 56 14
	L	0 02.4
	F	1 20
	Shawinigan Falls	
	e	23 50 27
	L	23 59
	F	0 17
	USCGS	
875 Dec. 5	φ = 53° S. λ = 158° E. H = 6 26.4 South east of New Zealand	

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
875 Dec. 5 (cont'd)	H	6 26.4
	Δ	15,100 km.
	P'	6 45 27.5
	i	6 45 38
	e	6 46 09
	PP	6 48.0
	PPP	6 51.3
	SKS	6 52.6
	SKKS	6 54 58
	PS	6 58.5
	PPS	7 00.2
	SS	7 06
	L	7 27
	F	9 12
	Victoria	
	e	6 48.1
	i	6 49 40
	e	6 53.9
	i	6 58 36
	e	7 04.5
	e	7 08.5
	L	7 22.1
	F	9 11
	Saskatoon	
	i	6 49 02
	i	6 49 17
	e	6 50 28
	e	6 58 18
	e	7 05 53
	e	7 11 01
	e	7 14 31
	e	7 24.5
	L	7 29
	F	9 38
	Halifax	
	e	6 51.6
	e	7 05 10
	L	7 31
	F	8 27
	Seven Falls	
	H	6 26.5
	Δ	15,600 km.
	P'	6 45 52
	PPP	6 52.2
	SKKS	6 56.5
	PPS	7 01.3
	SS	7 08.2
	SSS	7 12.7
	L	7 30
	F	9 49

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NO. AND DATE	PHASE	TIME h m s
	Shawinigan Falls	
875 Dec. 5 (cont'd)	e	6 45 57
	F	6 50
	USCGS	
876 Dec. 6	φ = 16° S. λ = 168° E. H = 12 10.4 New Hebredes Is.	
	Ottawa	
	L	13 12
	F	13 40
	Victoria	
	L	12 54
	F	13 25
	Saskatoon	
	L	13 01
	F	13 31
	Seven Falls	
	L	13 12
	F	13 47
	USCGS	
877 Dec. 7	φ = 18° N. λ = 69°5 W. H = 09 15.3 South coast of the Dominican Republic	
	Ottawa (Z)	
	e	9 21 06
	F	9 24
	Victoria (Z)	
	i	9 24 35 r
	e	9 25 00
	F	9 26
	Ottawa (Z)	
878 Dec. 7	e	9 26 15
	F	9 30
	Seven Falls	
878 Dec. 7 (cont'd)	e	9 27 11
	F	9 30
	Shawinigan Falls	
	e	9 27 11
	F	9 29
	Ottawa (Z)	
879 Dec. 7	e	23 03 51
	F	23 05
	Ottawa (Z)	
880 Dec. 8	e	1 17 26
	F	1 19
	Victoria (Z)	
881 Dec. 8	e	11 54 34
	F	11 56
	Ottawa	
882 Dec. 8	L	17 11
	F	17 23
	Seven Falls	
	L	17 10
	F	17 18
	Ottawa (Z)	
883 Dec. 8	i	22 33 11
	i	22 33 46
	F	22 35
	USCGS	
884 Dec. 10	φ = 57° N. λ = 163° E. H = 09 42.5 Near east coast of Kamchatka	
	Ottawa (Z)	
	e	9 53 12
	F	9 57

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 128

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
884 Dec. 10	e	9 50 23
	F	9 53
	Victoria (Z)	
885 Dec. 10	H	23 32 23
	Δ	85 km.
	P_2	23 32 39.0
	Pn	23 32 40.0
	e	23 32 43
	S_2	23 32 49.7
	e	23 33 02
	F	23 33.2
	Ottawa (Z)	
886 Dec. 11	e	5 15 33
	F	5 16
	Ottawa (Z)	
887 Dec. 12	e	6 54 30
	F	6 55
	USCGS	
888 Dec. 12	φ = 52° N.	
	λ = 178° E.	
	d greater than normal	
	H = 13 17.3	
	Aleutian Islands	
	Ottawa	
	e	13 28 02
	e	13 31 33
	L	13 44
	F	14 20
	Victoria	
	H	13 17 12
	Δ	4250 km.
	P	13 24 35.5
	e	13 25 37
	e	13 27.2
	S	13 30 28
	SSS	13 34.2
	L	13 39.3
	F	14 36

NO. AND DATE	PHASE	TIME h m s
	Saskatoon	
888 Dec. 12	e	13 32 13
	i	13 35 29
	L	13 38.5
	F	14 13
	Halifax	
	L	13 54
	F	14 12
	Shawinigan Falls	
	e	13 28 11
	F	13 30
	Ottawa (Z)	
889 Dec. 13	e	16 03 14
	F	16 03.5
	Victoria (Z)	
890 Dec. 13	H	19 08 07
	Δ	135 km.
	Pn	19 08 30.2
	Sn	19 08 45.0
	S_2	19 08 45.5
	F	19 09
	Victoria (Z)	
891 Dec. 13	H	19 33 02
	Δ	145 km.
	Pn	19 33 26.2
	Sn	19 32 42.2
	e	19 32 45.0
	F	19 34.0
	Victoria (Z)	
892 Dec. 13	H	19 40 57
	Δ	145 km.
	Pn	19 41 22.5
	Sn	19 40 38.0
	F	19 42.0
	Ottawa (Z)	
893 Dec. 14	e	9 38 13
	F	9 42
	Victoria (Z)	
894 Dec. 14	e	16 20 46
	F	16 23

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 129

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
895 Dec. 14	H	18 19 35
	Δ	145 km.
	Pn	18 20 03.0
	Sn	18 20 18.5
	F	18 21
	Victoria (Z)	
896 Dec. 14	H	18 24 29
	Δ	135 km.
	Pn	18 24 51.5
	Sn	18 25 06.5
	e	18 25 08.3
	e	18 25 10.7
	F	18 26
	Victoria (Z)	
897 Dec. 14	H	19 40 10
	Δ	135 km.
	Pn	19 40 31.5
	Sn	19 40 48.1
	e	19 40 50
	F	19 41.5
	Victoria (Z)	
898 Dec. 14	H	21 39 47
	Δ	135 km.
	Pn	21 39 10.0
	e	21 39 13.2
	e	21 39 15
	iSn	21 39 25.2
	e	21 39 31
	e	21 39 33
	F	21 41
	Victoria (Z)	
899 Dec. 14	H	21 43 05
	Δ	135 km.
	Pn	21 43 28.5
	Sn	21 43 44.5
	F	21 44.5
	Victoria (Z)	
900 Dec. 14	H	21 49 32
	Δ	135 km.
	Pn	21 49 55.0
	e	21 49 56
	Sn	21 50 11.5
	F	21 51

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
901 Dec. 14	H	21 56 43
	Δ	135 km.
	Pn	21 56 06.2
	e	21 56 07
	Sn	21 56 23.0
	F	21 57
	Victoria (Z)	
902 Dec. 14	H	22 12 11
	Δ	135 km.
	Pn	22 12 34.5
	Sn	22 12 50.5
	F	22 13.5
	Victoria (Z)	
903 Dec. 14	H	22 16 32
	Δ	135 km.
	Pn	22 16 55.0
	Sn	22 17 11.5
	F	22 18
	Victoria (Z)	
904 Dec. 14	H	23 07 25
	Δ	120 km.
	Pn	23 07 45.5
	Sn	23 07 59.0
	e	23 08 02
	F	23 08.5
	Victoria (Z)	
905 Dec. 15	H	8 08 34
	Δ	168 km.
	Pn	8 09 02.5
	e	8 09 05.6
	Sn	8 09 20.5
	e	8 09 22.9
	e	8 09 25
	F	8 10
	Victoria (Z)	
906 Dec. 15	e	13 55 32
	F	13 56

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 130

NO. AND DATE	PHASE	TIME h m s
	USCGS	
907 Dec. 15	φ = 22° N.	
	λ = 143° E.	
	H = 19 11.4	
	d = 200 km.	
	Bonin Islands region.	
	Ottawa	
	e	19 35 25
	L	19 44
	F	20 21
	Victoria	
	H	19 11.6
	Δ	8000 km.
	P	19 22 54 r
	e	19 24 04
	e	19 24 28
	S	19 32 20
	PS	19 32 58
	e	19 34.0
	SS	13 37.1
	L	19 43.4
	F	20 10
	Saskatoon	
	e	19 31 57
	e	19 33 33
	i	19 33 48
	e	19 35 16
	L	19 43
	F	20 04
	Ottawa (Z)	
908 Dec. 15	e	22 40 24
	F	22 41
	Victoria (Z)	
	e	22 01 52
	F	22 03
	Victoria (Z)	
909 Dec. 16	H	4 30 04
	Δ	155 km.
	P_n	4 30 30.0
	e	4 30 31.0
	S_n	4 30 46.5
	e	4 30 51.5
	e	4 30 54.5
	F	4 31.6
	USCGS	
910 Dec. 16	φ = 20° S.	
	λ = 179° W.	
	H = 07 18.2	
	Fiji Islands	
	Ottawa	
	L	8 05
	F	8 59
	Victoria	
	e	7 30 45
	e	7 41 06
	e	7 46 28
	L	7 52
	F	8 49
	Saskatoon	
	e	7 42 50
	L	8 03.3
	F	8 53
	Seven Falls	
	L	8 20
	F	8 54
	Ottawa (Z)	
911 Dec. 16	H	17 06 09
	Δ	215 km.
	P_n	17 06 41.7
	P_2	17 06 43.2
	S_n	17 07 06.5
	e	17 07 19
	F	17 07.5
	Ottawa (Z)	
912 Dec. 16	H	20 09 28
	Δ	140 km.
	P_n	20 09 51.5
	P_2	20 09 52.2
	S_n	20 10 09.6
	S_2	20 10 13.5
	e	20 10 16
	F	20 10.5
	Ottawa (Z)	
913 Dec. 17	e	11 38 54
	F	11 41

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 131

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
	e	11 41 04
	F	11 42.5
	Ottawa	
914 Dec. 18	L	15 12
	F	15 25
	Seven Falls	
	L	15 19
	F	15 40
	Ottawa (Z)	
915 Dec. 19	e	4 08 40
	F	4 10
	Ottawa (Z)	
916 Dec. 20	e	20 58 32
	F	21 00
	Victoria (Z)	
917 Dec. 20	e	23 20 08
	F	23 21.5
	USCGS	
918 Dec. 21	φ = 19° N.	
	λ = 69°.5 W.	
	H = 20 13.4	
	Near southeast coast of Dominican Republic	
	Ottawa (Z)	
	e	20 19 12
	F	20 24
	Victoria	
	e	20 22 46
	L	20 41
	F	20 53
	Seven Falls	
	e	20 20 12
	F	20 23

NO. AND DATE	PHASE	TIME h m s
	Shawinigan Falls	
918 Dec. 21 (cont'd)	e	20 19 29
	F	20 26
	Ottawa (Z)	
919 Dec. 21	e	20 24 18
	F	20 28
	Seven Falls	
	e	20 24 51
	F	20 28
	Ottawa (Z)	
920 Dec. 21	e	20 42 44
	F	20 46
	Ottawa (Z)	
921 Dec. 22	H	16 51 56
	Δ	140 km.
	Pn	16 52 19.0
	P2	16 52 20.8
	Sn	16 52 36.1
	S2	16 52 38.7
	S1	16 52 43
	F	16 52.9
	USCGS	
922 Dec. 23	φ = 30° S.	
	λ = 177° W.	
	H = 7 12.1	
	Kermadec Islands	
	Victoria (Z)	
	e	7 25 09
	F	7 27
	Seven Falls	
	L	8 16
	F	8 31
	USCGS	
923 Dec. 23	φ = 56° N.	
	λ = 166° E.	
	H = 8 41.3	
	d = 100 km.	
	Off east coast of Kamchatka	

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 132

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
923 Dec. 23	H	8 41 09
	Δ	7500 km.
	P	8 52 01 r
	e	8 52 21
	PP	8 54 21
	S	9 00 52
	e	9 01 10
	SS	9 04 53
	SSS	9 08 21
	L	9 11.5
	F	10 36
	Victoria	
	H	8 41 00
	Δ	4970 km.
	P	8 49 04 r
	e	8 49 06
	e	8 50 12
	PP	8 50 48
	S	8 55 30
	e	8 56 00
	e	8 56 40
	SS	8 58 50
	L	9 02.2
	F	10 28
	Halifax	
	e	9 01 50
	e	9 02 22
	e	9 07 46
	e	9 09 38
	e	9 10 26
	L	9 16
	F	9 53
	Seven Falls	
	e	8 52 08
	e	9 00 58
	e	9 04 36
	e	9 08.4
	L	9 16.4
	F	10 34
	Shawinigan Falls	
	e	8 47 04
	e	8 55 54
	F	9 00

NO. AND DATE	PHASE	TIME h m s
	Victoria (Z)	
924 Dec. 23	H	9 43 06
	Δ	165 km.
	Pn	9 43 32.5
	Sn	9 43 50.0
	F	9 44.2
	Ottawa	
925 Dec. 23	e	15 36 54
	L	15 55
	F	16 02
	Victoria (Z)	
	e	15 33 56
	F	15 35
	Seven Falls	
	L	15 57
	F	16 16
	Ottawa (Z)	
926 Dec. 23	e	15 48 34
	F	15 49
	Ottawa (Z)	
927 Dec. 23	H	17 03 18
	Δ	150 km.
	Pn	17 03 42.0
	P2	17 03 44.0
	Sn	17 04 00.0
	S2	17 04 02.5
	e	17 04 07
	F	17 04.5
	Ottawa (Z)	
928 Dec. 23	e	19 00 05
	F	19 00.2
	Victoria (Z)	
	e	18 57 07
	F	18 59
	Victoria (Z)	
929 Dec. 25	e	2 12 12
	F	2 13

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 133

NO. AND DATE	PHASE	TIME h m s
930 Dec. 26	USCGS	
	φ = 22°.5 S. λ = 69° W. d = 100 km. H = 7 12.5 Northern Chile	
	Ottawa	
	e	7 23 23
	e	7 32.2
	L	7 45
	F	7 59
	Victoria	
	e	7 25 00
	L	7 36
	F	7 41
	Seven Falls	
	e	7 23 34
	e	7 32.6
	L	7 48
	F	7 55
	Shawinigan Falls	
	e	7 23 28
	F	7 26
	Victoria (Z)	
931 Dec. 26	e	11 43 23
	F	11 47
	Victoria (Z)	
932 Dec. 28	e	0 28 05
	F	0 31
	Ottawa (Z)	
933 Dec. 28	e	19 08 35
	F	19 09
	Saskatoon	
934 Dec. 29	L	6 44
	F	7 05
	Seven Falls	
	L	6 51
	F	7 13
935 Dec. 29	USCGS	
	φ = 39°.5 N. λ = 120°.2 W. H = 12 53 29 Northeast California	
	Ottawa	
	P	13 00 04
	e	13 04 30
	e	13 05.4
	L	13 10
	F	13 40
	Victoria	
	P	12 55 41
	L	12 58 55
	F	13 20
	Saskatoon	
	H	12 53 20
	Δ	1835 km.
	P	12 57 11
	S	13 00 22
	SS	13 00 55
	L	13 01.6
	F	13 55
	Halifax	
	L	13 16
	F	13 29
	Seven Falls	
	e	13 06.2
	L	13 12.4
	F	13 48
	Shawinigan Falls	
	L	13 12
	F	13 21
936 Dec. 30	USCGS	
	φ = 51° N. λ = 131° W. H = 23 49.9 Off coast of British Columbia	

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SEISMOLOGICAL SERVICE OF CANADA

DOMINION OBSERVATORY, OTTAWA

No. 134

NO. AND DATE	PHASE	TIME h m s
	Ottawa	
936 Dec. 30 (cont'd)	H	23 49 56
	Δ	4050 km.
	P	23 56 57 r
	PP	23 58 27
	S	0 02 36
	e	0 02 41
	SS	0 04.3
	L	0 08.9
	M	0 10
	78 mm. amplitude 11 sec. period	
	F	1 30
	Victoria	
	H	23 49 51
	Δ	680 km.
	P_n	23 51 14.0 r
	e	23 51 18.1
	e	23 51 21
	e	23 51 29
	e	23 51 38
	e	23 52 00.0
	S_n	23 52 19
	i	23 52 24
	e	23 52 38
	F	1 15
	Saskatoon	
	H	23 50 16
	Δ	1490 km.
	P	23 53 29
	S	23 56 11
	L	23 56.8
	M	23 58.0
	F	1 20
	Halifax	
	e	0 08.0
	e	0 10 32
	L	0 12.8
	F	1 01
	Seven Falls	
	H	23 49 53
	Δ	4245 km.
	P	23 57 17
	S	0 03 16
	SS	0 05.4
	L	0 07.6
	F	1 45

NO. AND DATE	PHASE	TIME h m s
	Shawinigan Falls	
936 Dec. 30	e	23 57 13
	L	0 09.0
	F	0 34
	Victoria (Z)	
937 Dec. 31	H	6 40 27
	Δ	680 km.
	P_n	6 41 52
	S_n	6 42 57
	e	6 42 59
	F	6 44
	Ottawa (Z)	
938 Dec. 31	e	7 15 09
	F	7 17
	Ottawa (Z)	
939 Dec. 31	e	7 38 28
	F	7 40

W. [illegible]

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SEISMOLOGICAL BULLETINS RECEIVED

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

STATION	BULLETINS	RECEIVED
	November, 1948	
Perth	April - June, 1948	November 1
Saint Louis and Auxiliary Stations	Nos. 111, 114; September - December, 1944	" 2
Nanking	January - June, 1948	" 10
La Plata	Year, 1942	" 15
Ksara	September, 1948	" 15
Cleveland	October, 1948	" 15
Brisbane	September, 1948	" 17
Santa Clara	October, 1948	" 18
Wellington	August, 1948	" 19
Uccle	July - October, 1948	" 20
Richmond	September, 1948	" 20
Brisbane	May, August, 1948	" 23
Barcelona	Year, 1946	" 23
Prague	1940 - 1943	" 23
Upsala	July, 1947 to June, 1948	" 23
De Bilt	October, 1948	" 25
Belgrade	Year, 1939	" 25
Budapest	October, 1948	" 26
Kalogsa	October, 1948	" 26
	December, 1948	
Upsala	1940 - 1945	December 2
Paris	June, 1947	" 3
Bureau Central	July, 1948	" 3
Strasbourg	Octoner, 1948	" 3
Saint Louis and Auxiliary Stations	Supplement for September; Preliminaries Oct. 5; Jan, Feb., 1945	" 3
Pittsburg	Year, 1947	" 4
Apia	July - September, 1948	" 4
Lima	Year 1947	" 6
Belgrade	September, 1948	" 11
Santa Clara	November, 1948	" 13
Pasadena	Locals July - September, 1948	" 14
Tananarive	Year 1946	" 14
Rome	September, 1948	" 14
Almeria	September, October, 1947; January - March, 1948	" 16
Toledo	September, 1948	" 16
Almeria	November, December, 1947	" 16
Cleveland	November, 1948	" 18
Ksara	October, 1948	" 18
Bucarest	March - June, 1948	" 18
Zurich	September, October, 1948	" 18
Belgrade	October, 1948	" 28
Bureau Central	October, 1948	" 30
Strasbourg	August, November 1-10, 1948	" 30
Stuttgart	July - September, 1948	" 30
Uccle	October, November, 1948	" 30
Pasadena	Locals July - September, 1948	" 30
Rome	October, 1948	" 30
Trieste	July - September, 1948	" 30

Dominion Observatory,
Ottawa - Canada,
February 2, 1949.