DEPARTMENT OF MINES AND TECHNICAL SURVEYS

DOMINION OBSERVATORIES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

SEISMOLOGICAL BULLETIN

January - June

1954

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DOMINION ASTROPHYSICAL OBSERVATORY

VICTORIA - CANADA

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SEISMOLOGICAL SERVICE OF CANADA
WESTERN DIVISION
DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

C. S. Beals, Dominion Astronomer

John H. Hodgson, Chief, Seismological Division

S T A T I O N S

VICTORIA

φ = 48°31'10" N. λ = 123°24'55" W. h = 197 m.

Time correction from recorded radio time signals

Foundation: rocks

Instruments: Milne-Shaw NS and EW components, each with magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

Benioff vertical, NS and EW, short period components with paper speed of 60 mm. per min., mass 235 lbs.

SASKATOON

University of Saskatchewan

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

Time correction from observed radio time signals

Foundation: Clay and sand

Instruments: Milne-Shaw NE and NW components, each with magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

CONSTANTS

INSTRUMENT	Ts	Tg	V	$\dot{\epsilon}$	DISPLACEMENT FOR 1" ARC TILT
Victoria Benioffs	1.0	0.2			
Victoria EW-MS	12.0		300	20:1	50 mm.
Victoria NS-MS	12.0		300	20:1	50 mm.
Saskatoon NW	10.0		150	20:1	18 mm.
Saskatoon NE	10.0		150	20:1	18 mm.

Effective Dec. 4, 1953.

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

ALBERNI (Vancouver Island)

φ = 49°16'14" N. λ = 124°49'18" W.

Time correction from recorded radio time signals

Foundation: volcanic rock

Instruments: Willmore-Sharpe NS, EW and vertical short period with paper speed of 60 mm. per min. Ts approximately 0.3 sec. and Tg approximately 0.03 sec.

HORSESHOE BAY (Vancouver)

φ = 49°22'39" N. λ = 123°16'33" W.

Time correction from recorded radio time signals

Foundation: Granitic rock

Instruments: Willmore-Sharpe NS, EW, and vertical short period with paper speed of 60 mm. per min. Ts approximately 0.3 sec. and Tg approximately 0.03 sec.

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATIONS: V - Victoria, S - Saskatoon, A - Alberni, HB - Horseshoe Bay

January, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
10	V	P	09 04 18	U.S.C.G.S. 65 1/2°N, 136 1/2°W Yukon, Canada
12	S	P	23 38 17	U.S.C.G.S. 35.0°N, 119.1°W California
		S	23 41 51	
		L	23 44 00	
	V	P	23 37 20	
14	HB	P	05 43 50.2	local
		S	05 43 53.3	
15	A	iP	06 33 48.2	local
		S	06 34 04.5	
	HB	P	06 33 39.5	
15	A	P	23 39 44.5	local
		S	23 40 02.3	
	HB	P	23 39 27.0	
16	HB	P	22 43 00.1	local
		S	22 43 21.2	
16	A	P	22 46 18.4	U.S.C.G.S. 49°N, 129 1/2°W Off coast of Vancouver Island
	S	P	22 49 08	
		e	22 53 24	
20	S	L	04 37	U.S.C.G.S. 8 1/2°N, 103 1/2°W Mexico
20	A	P	08 28 33.1	local
		S	08 28 40.0	
	HB	P	08 28 44.9	
20	A	P	11 57 38.9	local
		S	11 57 51.7	
	HB	P	11 57 29.0	
22	V	P	21 36 02	20°S, 169°E Loyalty Islands h = 100 km.
24	A	P	17 49 43.5	local
		S	17 49 59.9	
	HB	P	17 49 35.4	
		S	17 49 46.1	
26	A	P	23 11 05.0	local
		S	23 11 12.3	
	HB	P	23 11 05	
		S	23 11 11.0	
	V	P	23 11 11	
		S	23 11 31	

January, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
28	V	P	22 22 06	Near Coast of Guerrero, Mexico
29	V	P	23 48 43.5	local
		S	23 48 46.3	

W. G. Milne,
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SEISMOLOGICAL SERVICE OF CANADA

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DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATIONS: V - Victoria A - Alberni
S - Saskatoon HB - Horseshoe Bay

February, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
1	S	P	01 19 19	U.S.C.G.S.
		iS	01 34 37	24 1/2°N, 142 1/2°E
		S	01 34 40	Volcano Islands
		L	01 47	
	V	P	01 18 38	
		S	01 28 15	
		PS	01 28 57	
		L	01 40	
1	V	L_r	04 41.6	U.S.C.G.S. 24°N, 142 1/2°E Volcano Islands
3	A	P	16 17 33.0	local
5	S	e	09 44 06	U.S.C.G.S.
		L	10 02	4 1/2°S, 153°E
	V	P	09 32 45	New Britain
		S	09 43 11	
		L	09 57	
5	S	e	15 30 48	U.S.C.G.S.
		L	15 43	17 1/2°N, 92 1/2°W
	V	P	15 25 29.1	Mexico
		e	15 25 44	
		e	15 25 59	
		L	15 40.4	
7	V	eP	06 28 07	U.S.C.G.S. 15°S, 167 1/2°E New Hebrides
7	A	P	10 40 57.8	local
		S	10 41 11.3	
	HB	P	10 40 51.5	
	V	iP	10 40 43.5	
		S	10 40 49.6	
8	V	P	00 41 27	
8	V	P	14 31 38	U.S.C.G.S. 22 1/2°S, 68°W Northern Chile
8	V	P	18 54 34	
9	V	P	17 45 23	U.S.C.G.S. 53°N, 166 1/2°W Aleutians

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
11	S	P	00 42 58	U.S.C.G.S.
		S	00 53 23	39 1/2°N, 101°E
		L	01 18.7	China
	V	P	00 42 48	
		S	00 53 15	
		SS	00 58.5	
		L	01 10.6	
11	V	P	21 17 08	U.S.C.G.S. 14 1/2°N, 144°E Marianas Islands
19	S	e	00 48.6	U.S.C.G.S.
		e	00 58.5	11 1/2°N, 87 1/2°W Nicaragua
19	S	i	21 42 46	U.S.C.G.S.
		L	21 59.1	12 1/2°N, 87 1/2°W, Nicaragua
20	V	P	02 09 28	
20	V	P	18 52 38	U.S.C.G.S. 7°S, 124 1/2°E Flores Sea
20	V	P	20 03 19	U.S.C.G.S. Windward Islands
20	A	P	23 43 38.0	local
		S	23 43 53.9	
	HB	P	23 43 33.1	
		S	23 43 44.5	
	V	P	23 43 22.5	
		S	23 43 25.2	
21	V	e	01 37 47	Coast of Nicaragua
		e	01 39 16	
21	A	P	23 03 18.9	local
22	V	e	06 22 30	U.S.C.G.S. 34 1/2°N, 141°E Japan
22	V	e	10 37 47	U.S.C.G.S. 34°N, 141°E Japan
22	V	iP	12 22 37	U.S.C.G.S.
		e	12 25 47	66.5°S, 26.5°W Sandwich Islands
22	A	P	18 23 05	local
	V	P	18 23 05.6	
23	A	P	22 36 51.1	local
24	A	P	19 13 49.5	local
24	V	P	19 48 39	U.S.C.G.S. 13°N, 144°E Marianas Islands

February, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
24	V	P	20 56 10	U.S.C.G.S.
		e	20 58 00	27 1/2°N, 140°E
24	A	P	21 30 06.2	local
24	V	P	23 16 18	local
		S	23 17 41	
25	A	P	01 09 35.3	local
28	V	P	01 07 32	U.S.C.G.S. 27°N, 131°E Ryukyu Islands
28	V	P	18 56 05	

W. G. Milne
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SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATIONS: V - Victoria A - Alberni
S - Saskatoon HB - Horseshoe Bay

March, 1954

DATE	STN	PHASE	TIME(G.C.T.) h m s	REMARKS
2	A		19 15 02.2	local
3	S	PPP	06 21 46	U.S.C.G.S.
		eS	06 27 00	5 1/2°S, 142 1/2°E
		L	06 30 56	New Guinea
		SSS	06 37.2	
		L_r	06 47.4	
	V	P	06 16 34	
		PP	06 20 26	
		S	06 27 14	
		PS	06 29 21	
		SS	06 34.9	
		L	06 47	
3	A		17 14 22.7	local
3	S	e	20 55 24	U.S.C.G.S.
		L	20 58.5	61 1/2°N, 146 1/2°W
	V	P	20 48 11	Alaska
4	A	P	18 34 54.6	local
6	V	P	00 41 26	U.S.C.G.S. 24°S, 180° Fiji Islands
7	A	P	23 28 47.1	local
		S	23 28 57.1	
	HB	P	23 28 44.9	
8	A	P	13 09 41.5	local
		S	13 09 50.4	
9	V	P	05 48 14	U.S.C.G.S. 50°N, 157°E Kamchatka
9	V	P	10 51 57	U.S.C.G.S. 19 1/2°S, 178°W Fiji Islands
10	HB	P	00 35 21	local
	V	P	00 35 07	
		S	00 35 19	
11	V	P	10 38 10	U.S.C.G.S. 14 1/2°N, 90 1/2°W Guatemala
11	A	P	19 42 56.6	local
		S	19 43 17.3	
12	HB	S	04 15 48.1	local

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
12	V	P	04 17 19.4	local
		S	04 17 28.1	
12	V	P	11 31 26	Sandwich Islands
12	V	P	11 34 36	U.S.C.G.S.
		pP	11 35 54	17°S, 174°W
				Tonga Islands
12	V	P	14 35 48.4	local
		S	14 36 51.3	
12	HB	P	20 38 43.7	local
	V	P	20 38 45.8	
		S	20 38 59.4	
13	A	P	00 04 57.3	local
	HB	P	00 05 01	
		S	00 05 27	
16	A	P	15 57 04	local
		S	15 57 33.6	U.S.C.G.S.
	V	P	15 56 44	Northwest Washington, Seattle, Tacoma
17	V	P	00 24 43.4	local
				blast?
18	V	P	21 36 04.7	local
		S	21 36 06.3	
19	S	i	10 02 49	U.S.C.G.S.
		L	10 05.3	33.3°N, 116.1°W
	V	P	09 58 21	California
		e	10 03 31	
19	V	P	10 25 09	Same as above - aftershock
20	V	P	14 13 14	U.S.C.G.S.
				47°N, 154°E
				Kuriles
20	V	P	23 31 46	local?
21	V	P	06 17 58	U.S.C.G.S.
				52°N, 158 1/2°E
				Kamchatka
21	V	P	20 51 25	U.S.C.G.S.
				Off coast of Guatemala
21	S	P	23 55 40	U.S.C.G.S.
		PP	23 59 49	24 1/2°N, 95°E
		SKS	00 06 05	Burma
		S	00 07 18	
		PPS	00 09 41	
	V	P	23 55 40	
		PP	23 59 46	
		SKS	00 05 50	
		PKKP	00 11 57	
		SSS	00 14.1	
22	V	P	19 06 15	U.S.C.G.S.
				55 1/2°N, 157°E
				Kamchatka

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
22	V	P	22 46 06	local
22	V	P	22 47 13	local
23	V	P	04 18 41	U.S.C.G.S. 33 1/2°N, 116°W California
23	V	P	05 37 21.4	
24	V	P	01 43 51	U.S.C.G.S. Marianas Islands
25	HB	P	17 40 07.5	local
	V	P	17 40 04.0	
		S	17 40 19.8	
25	HB	P	21 16 56.4	local
	V	P	21 16 40.9	
25	A	P	21 31 13.2	local
		S	21 31 21.7	
	HB	P	21 31 06.8	
	V	P	21 31 15.1	
		S	21 31 26.1	
26	HB	P	04 14 18.5	local
26	V	P	04 45 47	U.S.C.G.S.
		PP	04 46 05	H= 04:35:25 Japan
26	V	P	18 41 05	
27	V	P	00 51 28	
27	V	P	07 03 50	
28	S	L	20 57.8	U.S.C.G.S.
	V	P	20 43 39	52°N, 176°E
		S	20 49 41	Aleutians
		L	20 52.4	
29	V	P	04 14 18	U.S.C.G.S. 19.5°N, 121.5°E Philippine Islands
29	S	P	06 27 09	U.S.C.G.S.
		PP	06 29 1.7	37°N, 3 1/2°W
		S	06 35 24	Spain
		ScS	06 35 49	h = 650 km.
	V	P	06 28 10	
		PP	06 30 23	
		S	06 37 26	
		sS	06 41 17	
29	V	P	15 08 57	U.S.C.G.S. 2 1/2°S, 78 1/2°W Ecuador
30	A	P	05 29 37.5	local
	HB	P	05 29 27.1	
	V	P	05 29 25.3	

March, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
30	V	P	10 56 20	U.S.C.G.S. 46 1/2°N, 153 1/2°E Kuriles
30	V	P	16 47 29	U.S.C.G.S. 52°N, 175 1/2°E Aleutians
30	S	i	18 58 00	U.S.C.G.S. 20°N, 155°W Hawaii
		L	19 06.0	
	V	P	18 49 30	
		S	18 55 13	
		L	18 58 13	
31	S	PP	18 45 16	U.S.C.G.S. 13 1/2°N, 58°E Arabian Sea
		e	18 55 01	
		PPS	18 56 08	
		e	00 19 01.2	
	V	PP	18 44 40	
		S	18 53 05	
		PPPS	18 55 3	
		PSPS	19 02.3	
		LG	19 15.3	

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SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATIONS: V - Victoria A - Alberni
S - Saskatoon HB - Horseshoe Bay

April, 1954.

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
2	V	P	15 11 26	U.S.C.G.S.
		PP	15 11 43	28 1/2°S, 177°W
				Kermadec Islands
3	HB	P	15 54 47	local
4	A	P	12 42 43.6	local
		S	12 42 55.0	
	HB	P	12 42 51.0	
		S	12 43 07.9	
	V	P	12 42 42.8	
		S	12 42 53.4	
4	V	P	13 31 54	U.S.C.G.S.
				16 1/2°S, 175°W
				Tonga Islands
4	V	P	15 55 21	
		e	15 58 46	
4	V	P	23 24 21	U.S.C.G.S.
				42°N, 142 1/2°E
				Japan
5	V	L	17 26.9	
5	V	P	19 26 55	U.S.C.G.S.
		S	19 27 41	48°N, 129°W
				off Vancouver Islands
5	A	P	19 35 45.3	U.S.C.G.S.
	V	P	19 35 53	48°N, 128°W
		S	19 36 28	off Vancouver Island
5	A	P	19 48 29	
	V	P	19 48 37	48°N, 129°W) ?
		S	19 49 23	off Vancouver Island)
6	V	P	20 24 49	New Hebrides Island
9	V	P	00 58 03	local
10	V	P	10 25 11	U.S.C.G.S.
				10 1/2°N, 78°W
				Panama
10	V	P	15 05 59	
11	V	P	02 27 08	
11	V	P	05 52 47	U.S.C.G.S.
				Northern Chile - Argentina
				border.

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
11	V	P	11 06 33	U.S.C.G.S. 37°N, 70 1/2°E Hindu Kush
12	HB	P	23 32 05.2	local
	V	P	23 32 10.6	
		S	23 32 26.0	
13	V	P	07 49 11	U.S.C.G.S. 27 1/2°S, 66°W Argentina
13	V	P	23 31 21	
15	A	P	19 20 24.4	local
		S	19 21 00	
	HB	P	19 20 09.1	
		S	19 20 31	
	V	P_n	19 20 10.2	
		P_2	19 20 12.4	
		S_n	19 20 34.4	
15	A	P	23 30 36.3	local
16	V	P	08 27 08	
16	V	P	10 40 39	U.S.C.G.S. 43°N, 142 1/2°E Japan
17	V	P	12 20 22	U.S.C.G.S. 43°N, 141°E Japan
17	HB	P	20 17 41.7	U.S.C.G.S.
	V	P	20 17 36.3	51 1/2°N, 179°W
		PcP	20 20 06	Aleutians
		S	20 23 24	
		L	20 26.0	
	S	P	20 18 45	
		S	20 25 50	
		L	20 32.0	
17	V	P	20 53 05	
17	V	P	21 05 41	
17	V	P	23 01 59	U.S.C.G.S. 51 1/2°N, 180°
21	V	P	20 34 34	U.S.C.G.S. 13°S, 77°W Peru
21	V	P	23 27 55.1	local
		S	23 28 03.8	
22	V		15 05 13	U.S.C.G.S. 22°N, 142 1/2°E Marianas Islands

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
22	A	P	19 29 06.4	local
		S	19 29 24.4	
	HB	P	19 29 04.9	
	V	P	19 28 49.6	
		S	19 28 53	
23	V	P	19 20 29	
24	V	P	00 14 07.3	local
24	V	P	08 37 32	Alaska
24	V	P	18 43 15	U.S.C.G.S. 43°N, 141 1/2°E Japan
25	S	e	20 37 44	U.S.C.G.S.
		L	20 43.4	36.8°N, 121.8°W
	V	P	20 36 19	California
26	V	P	09 26 59	U.S.C.G.S. 1/2°S, 91 1/2°W Galapagos Islands
26	V	P	20 33 22	U.S.C.G.S.
		i	20 40 16	51°N, 158 1/2°E
		e	20 43 48	Kamchatka
		L	20 48.1	
27	S	P	10 15 19	U.S.C.G.S.
		S	10 22 36	6°N, 82 1/2°W
		e	10 26.7	Panama
	V	P	10 15 57	
		i	10 23 49	
		L	10 34.6	
29	S	P	10 54 37	U.S.C.G.S.
		S	10 59 17	29 1/2°N, 112 1/2°W
		L	11 02.6	Gulf of California
	V	P	10 54 15	
		iS	10 57 37	
		L	11 01.3	
29	S	P	11 39 52	U.S.C.G.S.
		S	11 44 04	29 1/2°N, 112 1/2°W
		L	11 46.0	Gulf of California
	V	P	11 39 22	
		iS	11 43 23	
		L	11 45.1	
30	V	P	00 11 32	U.S.C.G.S. 53°N, 162°E Kamchatka
30	V	P	05 21 45	
30	V	P	09 19 25	

April, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
30	S	P	13 14 40	U.S.C.G.S.
		S	13 24 38	39 1/2°N, 22°E
		SS	13 33.8	Central Greece
		L	13 37.0	
	V	P	13 15 25	
		S	13 25 54	
		L	13 40.6	

W. G. Milne,
Seismologist.

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATIONS: V - Victoria A - Alberni
S - Saskatoon HB - Horseshoe Bay

May, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
3	S	P	15 39 09	U.S.C.G.S.
		S	15 46 36	51 1/2°N, 159 1/2°E
		L	15 55.3	Kamchatka
	V	P	15 38 15	
		S	15 45 07	
		e	15 48 49	
		L_q	15 55.5	
3	V	P	17 22 01	U.S.C.G.S. 12°N, 86°W Nicaragua
4	V	e	18 21 07	U.S.C.G.S. 74°N, 81°W Canadian Arctic
5	V	P	01 42 53.7	local
		S	01 43 11.0	
5	V	L	11 14.7	
5	S	P	13 15 11	U.S.C.G.S.
		S	13 19 46	27 1/2°N, 112 1/2°W
		L	13 22.5	Gulf of California
	V	P	13 14 51	
		S	13 19 02	
		L	13 21.0	
5	V	P	17 22 07	U.S.C.G.S. 50°N, 156 1/2°E Kamchatka
6	V	P	09 11 05	U.S.C.G.S. 50°N, 155 1/2°E Kamchatka
6	A	P	15 15 23.5	local
		S	27.4	
7	V	P	00 34 00	U.S.C.G.S. Central Peru - Brazil Border.
10	A	P	05 11 15.0	local
		S	05 11 29.6	
	HB	P	05 11 19.7	
13	S	P	14 53 36	U.S.C.G.S.
		S	14 59 14	17°N, 95 1/2°W
		L	15 02.2	Mexico
	V	P	14 53 57	
14	V	P	01 01 32	

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
14	A	P	19 06 38.3	local
		S	19 06 52.4	
	HB	P	19 06 36.3	
		S	19 06 52.7	
	V	P	19 06 19.1	
		S	19 06 21.8	
14	V	P	22 50 08.9	U.S.C.G.S.
	S	PP	23 00 10	36°N, 137°E
		PP	23 01 18	Japan
		e	23 01 51	
15	A	P	13 02 52.1	local
			13 03 05.3	felt Seattle
			13 03 21.7	
	HB	P	13 02 45.2	
	V	P	13 02 33	
		S	13 02 43	
15	V	P	17 39 29	local
17	V	P	16 58 44	local
18	V	P	05 22 37	U.S.C.G.S. 10 1/2°S, 75 1/2°W Peru
18	V	P	10 26 31	U.S.C.G.S. 25°N, 125°E Ryukyu Islands
19	A	P	18 39 47.8	local
		S	18 39 55.4	
	HB	P	18 39 55.2	
19	A	P	23 02 39	local
		S	23 02 49	
	HB	P	23 02 46.0	
19	V	P	23 20 21	U.S.C.G.S. 5°S, 151°E New Britain
20	V	P	22 56 21.7	local
21	A	P	14 00 17.9	local
		S	14 00 21.9	
21	V	P	17 04 31.5	local
		S	17 04 46.2	
21	HB	P	17 36 20	local
21	V	P	17 37 00	local
		S	17 37 07	
22	A	P	12 47 33.8	local
		S	12 47 48.4	
	HB	P	12 47 40.2	

May, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
23	V	P	23 56 04.0	U.S.C.G.S. 35°N, 118 3/4°W California
26	V	P	19 06 34	local
26	V	P	22 34 22.6	local
		S	22 34 24.3	
28	V	P	13 35 09.5	local
29	V	P	05 48 50	U.S.C.G.S. 18°S, 178°W Fiji Islands
		e	05 50 54	

W. G. Milne,
Seismologist.

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATIONS: V - Victoria A - Alberni
S - Saskatoon HB - Horseshoe Bay

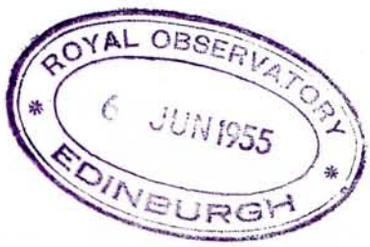
June, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
1	V	P	20 44 18.0	Central Peru
3	V	iP	07 58 48.4	local
		iS	07 58 56.8	
	A	P	07 59 03.8	
		S	07 59 23.9	
	HB	P	07 59 01.0	
		S	07 59 18.3	
4	V	P	07 00 23.4	Galagagos Islands
		S	07 08 17	φ = 1/2°S, λ = 91 1/2°W
		SS	07 12.0	Δ = 57.5°
		L	07 17.9	
	S	P	07 00 10	
		S	07 07.8	
		L	07 18.5	
4	V	e	11 11 21	Java Sea
		L	11 14.3	
4	V	e	16 07 02.0	Central Gulf of California
	S	e	16 11 56	
		L	16 15.8	
4	V	e	20 52.3	Gulf of California
		L	20 55	
5	V	P	00 23 52.5	
6	V	e	18 31.3	
		L	18 36	
6	V	P	22 09 56.0	
7	V	P	10 27 45	New Britain region
		e	10 37 30	φ = 3 1/2°S, λ = 152 1/2°E
		e	10 37 52	
8	V	P	00 17 26.6	Northern Idaho
		S	00 18 36.5	
9	V	P	23 32 47.2	
10	V	P	18 48 11	Fiji Islands
		e	18 51 02	
10	A	P	21 19 34.0	local
		S	21 19 41.1	
10	V	P	22 48 48	Japan

June, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
11	V	P	17 03 20	Aleutians
12	V	P	05 46 42 Comp.	Peru
12	V	P	23 01 35	
15	V	P	13 40 46	Peru
17	V	P	01 47 01	Kodiak Island
		S	01 50 58	
		L	01 52.5	
	S	e	01 48 15	
		e	01 53 00	
		L	01 57.5	
18	V	P	15 10 01.7	local
	HB	P	15 10 13.7	
		S	15 10 35.2	
20	V	P	19 20 49.0	local
		S	19 21 06.3	
	A	P	19 21 07.2	
		S	19 21 39	
	HB	P	19 20 59.1	
			19 21 25.5	
22	A	P	01 43 25.5	local
			01 43 48.9	
22	V	P	06 26 41.6	
22	HB	P	20 09 00.2	local
23	A	P	23 17 25.6	local
		S	23 17 33.2	
24	V	P	08 09 49	Marianas Islands
25	V	P	00 07 34.4	
30	V	P	00 12 40	
30	V	L	16 32.7	

W. G. Milne
Seismologist.



DEPARTMENT OF MINES AND TECHNICAL SURVEYS

DOMINION OBSERVATORIES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

SEISMOLOGICAL BULLETIN

July - December

1954

000

DOMINION ASTROPHYSICAL OBSERVATORY

VICTORIA - CANADA

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SEISMOLOGICAL SERVICE OF CANADA
WESTERN DIVISION
DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

C. S. Beals, Dominion Astronomer

John H. Hodgson, Chief, Seismological Division

S T A T I O N S

VICTORIA

φ = 48°31'10" N. λ = 123°24'55" W. h = 197 m.

Time correction from recorded radio time signals

Foundation: rocks

Instruments: Milne-Shaw NS and EW components, each with magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

Benioff vertical, NS and EW, short period components with paper speed of 60 mm. per min., mass 235 lbs.

SASKATOON

University of Saskatchewan

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

Time correction from observed radio time signals

Foundation: Clay and sand

Instruments: Milne-Shaw NE and NW components, each with magnetic damping, paper speed of 8 mm. per min., mass 1 lb.

CONSTANTS

INSTRUMENT	Ts	Tg	V	$\dot{\epsilon}$	DISPLACEMENT FOR 1" ARC TILT
Victoria Benioffs	1.0	0.2			
Victoria EW-MS	12.0		300	20:1	50 mm.
Victoria NS-MS	12.0		300	20:1	50 mm.
Saskatoon NW	10.0		150	20:1	18 mm.
Saskatoon NE	10.0		150	20:1	18 mm.

Effective Dec. 4, 1953.

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

ALBERNI (Vancouver Island)

φ = 49°16'14" N. λ = 124°49'18" W.

Time correction from recorded radio time signals

Foundation: volcanic rock

Instruments: Willmore-Sharpe NS, EW and vertical short period with paper speed of 60 mm. per min. Ts approximately 0.3 sec. and Tg approximately 0.03 sec.

HORSESHOE BAY (Vancouver)

φ = 49°22'39" N. λ = 123°16'33" W.

Time correction from recorded radio time signals

Foundation: Granitic rock

Instruments: Willmore-Sharpe NS, EW, and vertical short period with paper speed of 60 mm. per min. Ts approximately 0.3 sec. and Tg approximately 0.03 sec.

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATIONS: V - Victoria, S - Saskatoon, A - Alberni, HB - Horseshoe Bay

July, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s		REMARKS
2	V	e	3 09 19		Luzon
		L	3 30.3		φ = 13 1/2°N
	S	e	3 10 50		λ = 123 1/2°E
3	V	i	22 50 16		Java
		i	22 57 30		φ = 6 1/2°S
		e	23 11.4		λ = 106°E
		L	23 28.7		
	S	i	22 52 29		
		e	23 02.5		
4	V	eP	16 36 54		Yellowstone Park
		e	16 37 38		
	S	eP	16 35 09		
		eS	16 36 56		
5	V	P	01 12 57.5		local
		S	01 13 33.7		
	A	P	01 13 00.7		
		S	01 13 38.3		
5	V	e	04 24 02		
5	V	P	14 01 07		Kamchatka
		pP	14 01 21		φ = 50 1/2°N
					λ = 156 1/2°E
6	V	P	08 14 07		Kurile Islands
		S	08 21 30		
		L	08 28.4		
	S	e	08 23 00		
		L	08 38.0		
6	V	iP	11 15 43	d	Fallon, Nevada
		S	11 17 54		φ = 39 1/2° N
		e	11 18 43		λ = 118 1/2°W
	HB	e	11 15 57		
	A	e	11 16 02		
	S	P	11 16 55		
		S	11 19 59		
		L	11 21.4		
6	V	e	22 10 08		Fallon, Nevada
		e	22 13 03		
	S	P	22 11 31		
		S	22 14 19		
		L	22 15.8		
7	V	P	19 13 19		
8	V	L_r	02 19.2		

July, 1954.

DATE	STN	PHASE	TIME (G.C.T.) h m s		REMARKS
8	V	P	19 34 24		
		L_r	19 37.2		
9	V	iP	18 39 09	d	Japan
9	V	P	21 08 32		
11	V	P	04 56 36.1		
		e	04 58 40		
		e	04 59 27		
	HB	P	04 56 39		
	A	P	04 56 19.2		
12	A	P	16 38 43.9		
		S	16 38 57		
13	V	P	00 12 55.8		
13	V	e	08 28.3		New Britain region
		L	08 45.7		
13	A	P	06 01 49.1		
		S	06 02 09.5		
15	V	P	06 15 46		Wallis Island
15	V	P	13 26 32		Queen Charlotte Islands
		e	13 28 56		
15	V	P	21 43 14.1		local
		S	21 43 27.6		
	HB	P	21 43 12.3		
	A	P	21 43 27.9		
		S	21 43 52.1		
16	V	P	19 40 51.4		local
		S	19 41 03.6		
	HB	P	19 40 46.6		
	A	P	19 40 47.6		
18	V	P	06 42 51		Kamchatka
18	V	P	09 18 38		Japan
		e	09 27 31		φ = 35 1/2°N
		L	09 39.9		λ = 140 1/2°E
20	V	P	22 30 59.2		
21	V	P	02 18 03.9		
		S	02 18 26.0		
	HB	P	02 17 49.7		
		S	02 18 00.7		
	A	P	02 17 55.7		
		S	02 18 11.4		
23	V	P	00 23 46		
23	V	P	03 08 42.4		local
		S	03 09 06.4		

DATE	STN	PHASE	TIME (G.T.C.) h m s	REMARKS
23	V	P	09 54 16.0	
23	V	P	21 05 25	New Hebrides
24	V	P	22 39 18	
24	V	P	23 37 37.4	
25	V	P	00 08 30	
27	V	P	22 32 27	local
28	V	P	17 36 45.8	local
28	A	P	19 59 27.4	local
		S	19 59 37.0	
29	V	P	03 35 46.0	Kamchatka
		e	03 43 11	φ = 49 1/2°N
				λ = 158°E
29	A	P	21 05 34.4	local
		S	21 05 41	
29	A	P	22 09 14.4	local
		S	22 09 26.3	
30	V	e	09 09 33	Easter Island
		L	09 26.0	φ = 36 1/2°S
	S	e	09 09 47	λ = 97°W
		L	09 27.6	
30	A	P	13 28 45.5	local
		S	13 28 48.7	
31	V	e	01 12 25.3	
		e	01 12 59	
		e	01 22 46	
		e	01 28.5	
		L	01 36.0	
	S	e	01 23 00	
		L	01 39.6	

W. G. Milne,
Seismologist.

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATIONS: V - Victoria A - Alberni
S - Saskatoon HB - Horseshoe Bay

August, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
1	V	P	17 22 02.8	local
		S	17 22 11.7	
	HB	P	17 22 11.8	
		S	17 22 25.8	
	A	P	17 22 20.6	
		S	17 22 43	
1	V	P	21 45 21	Loyalty Islands
2	V	P	07 23 58.2	local
		S	07 24 01.3	
	HB	P	07 24 11.7	
		S	07 24 23.1	
	A	P	07 24 12.3	
		S	07 24 26.1	
2	V	e	10 23 32	Fallon, Nevada
2	A	P	16 03 40.1	local
3	V	P	03 25 32.7	local?
3	V	P	05 13 13	local
	A	P	05 12 54.3	
		S	05 13 12.0	
5	V	P	01 53 33.9	
5	V	e	08 57 04	Aleutians
		e	09 03 04	
5	V	P	10 27 05.5	
		S	10 27 14.5	
	HB	P	10 27 06.0	
	A	P	10 27 19.6	
		S	10 27 39.9	
5	V	P	00 03 50.5	local blast?
7	V	P	00 07 06.9	local blast?
7	V	P	09 49 42	Bolivia - Chile - Peru border
7	V	P	20 44 31.3	
9	V	P	19 25 11	Kamchatka
		e	19 25 46	φ = 53°N
		e	19 35 06	λ = 161°E
		L	19 39.4	
	S	e	19 25 58	
		e	19 23.3	
		L	19 41	
10	V	P	00 19 22	

DATE	STN	PHASE	TIME (G.C.T.) h m s		REMARKS
10	V	P	23 22 56.5		local blast?
11	V	P	11 21 40		Dominican Republic
		e	11 22 05		φ = 19 1/2°N
		e	11 22 19		λ = 69 1/2°W
11	A	P	18 35 52.4		local
		S	18 36 02.0		
11	V	P	23 08 37.7		local blast?
12	V	eP	23 26 50	c	
14	V	P	01 16 18	c	Kamchatka
18	V	iP	04 54 38.4	c	Tonga Islands
			04 54 54		21 1/2°S, 176°W
			04 55 18		
			04 56 16		
			05 04 46		
	S	e	04 55 31		
		e	05 05 50		
		e	05 06 28		
18	V	P	18 06 41.8		Kamchatka
18	V	P	23 01 15.2		
18	V	P	23 45 22.3		
19	V	P	01 35 53.5		
19	HB	P	05 04 33.2		local
		S	05 04 37.4		
20	V	P	12 16 14.4		local
		S	12 16 20.5		
	HB	P	12 16 20.7		
		S	12 16 30.8		
21	V	P	02 54 06		
23	V	P	15 01 56		Alaska
24	V	P	05 53 55.2		Fallon, Nevada
		i	05 55 44		φ = 39.5°N
	S	iP	05 55 03		λ = 118.5°W
		i	05 57 54		
		L	05 59.5		
25	V	eP	02 19 34		
25	V	P	14 17 30		
25	V	P	14 25 33.7		local
		S	14 25 35.7		
	A	P	14 25 51.0		
		S	14 26 06.4		
26	V	P	13 51 36		

DATE	STN	PHASE	TIME (G.C.T.) h m s		REMARKS
26	V	P	18 53 22		New Britain
26	V	P	19 30 23		
27	V	P	04 56 11		local
	A	P	04 55 50.8		
		S	04 56 01.6		
27	V	P	11 06 33.7		Volcano Islands
		e	11 16 12		
		L	11 30		
28	V	P	10 12 14	c	Japan
29	V	P	03 43 29		Fallon, Nevada
		e	03 46.2		
29	V	P	04 00 30		Fallon, Nevada
30	V	P	(08 08 35)		No time control
31	V	iP	05 58 18.6		local
		iS	05 58 26.6		
31	V	eP	22 22 54		Fallon, Nevada
		e	22 24 51		
		L	22 25.4		
	S	eP	22 24 05		
		S	22 28 28		
		L	22 29.5		

W. G. Milne,
Seismologist.

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATIONS: V - Victoria A - Alberni
S - Saskatoon HB - Horseshoe Bay

September, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s		REMARKS
1	V	P	00 19 35		
1	V	P	05 21 10		Fallon, Nevada
		e	05 23.2		
		L	05 23.9		
	S	e	05 26 49		
		L	05 28.4		
1	V	P	12 34 50		Kurile Islands
1	V	iP	12 42 24.1	d	local
		iS	12 42 31		
	HB	P	12 42 38.7		
	A	P	12 42 45.7		
		S	12 43 01.8		
1	V	iP	22 28 25.0	d	local
		S	22 28 33.2		
2	V	iP	13 50 18.5	d	local
		S	13 50 26.8		
2	V	iP	19 04 00	c	Santa Cruz Islands
3	V	iP	17 58 22.9	d	local
		S	17 58 24.6		
3	V	P	20 39 41.7		local
		S	20 39 51.1		
3	V	P	20 40 52.5		local
		S	20 41 01.7		
3	V	P	23 00 50.5		local
		S	23 00 58.6		
4	V	P	01 16 24.4		local
		S	01 16 27.7		
		e	01 16 34.7		
4	V	P	07 13 34.0		local
		S	07 13 42.0		
4	V	P	07 15 36.4		local
		S	07 15 44.7		
4	V	P	20 15 42.0		local
		S	20 15 45.5		
4	V	P	21 16 50		
4	V	P	21 49 23.3		local
		S	21 49 42.9		
	A	P	21 49 11.1		

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
5	V	P	07 58 18	Fiji Islands
		e	08 08 52	
		L	08 21.0	
5	V	P	16 17 08.2	local
		e	16 17 12.0	
		S	16 17 26.6	
6	V	P	16 59 59.7	Luzon
6	V	P	18 39 28	Kamchatka
		e	18 46 30	
		L	18 54.1	
	S	e	18 47 55	
		L	18 55.5	
7	V	P	00 21 23	Formosa?
7	V	P	00 24 47	Luzon?
7	V	P	00 48 14	Luzon
7	V	P	08 52 28.4	local
		S	08 52 36.5	
9	V	P	01 14 28	Northern Algeria
		e	01 27 30	φ = 36°N
		L	01 44.2	λ = 1 1/2°E
	S	e	01 16 05	
		e	01 20 35	
		e	01 25 27	
		e	01 30.1	
		L	01 38.0	
9	V	P	03 04 48	
9	V	P	09 41 08	
10	V	P	05 55 29	
11	V	P	05 41 55.2	local
		S	05 42 04.7	
11	A	P	08 27 50.2	local
		S	08 27 56.8	
12	V	P	07 54 16.9	Japan
		e	08 03.3	
		L	08 12	
13	V	e	02 22 55	Tonga Islands
		e	02 32 18	
		L	02 34.9	
	S	i	02 33 58	
13	V	e	02 52 10	Tonga Islands
13	V	P	20 53 50.7	local
		S	20 53 58.6	

DATE	STN	PHASE	TIME (G.C.T.) h m s		REMARKS
14	V	P	01 01 21		Luzon
15	V	P	03 37 34.0		local
		S	03 37 51.5		
15	V	P	18 07 35	c	Fiji Islands
		e	18 17 06		
16	V	P	06 53 26.8		local
		S	06 53 35.0		
17	V	e	01 36 25		New Ireland region
		L	01 13.7		
17	V	P	07 46 10		Formosa
17	V	P	11 15 26		Fiji Islands
		e	11 25 34		
		e	11 27 25		
		L	11 37.4		
	S	e	11 16 19		
		e	11 27 16		
		e	11 28 22		
		L	11 33.6		
17	A	P	20 38 14.7		local
		S	20 38 18.5		
17	A	P	21 43 29.6		local
		S	21 43 36.6		
18	V	P	15 43 26		Palau Island
20	A	P	03 23 32.2		local
		S	03 23 42.1		
20	A	P	07 07 06.9		local
		S	07 07 13.2		
20	V	P	08 17 38		Fiji Islands
21	V	P	03 58 46		Sumbawa Island
21	V	P	09 54 03		Marianas Islands
21	V	P	14 44 04		
21	V	P	15 00 07		
21	V	iP	22 17 27.2		All local but there
		P?	22 17 31.6		may be 2 or more
		iS	22 17 33.8		earthquakes.
		S?	22 17 37.8		
		iP	22 18 11.8		
		P?	22 18 15.8		
		iS	22 18 18.2		
		S?	22 18 21.4		
	A	P	22 32 43.6		
		e	22 32 59.7		
		e	22 33 26.9		

September, 1954.

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
23	S	e	22 01 22	Kuriles
		L	22 16	
24	A	P	17 28 45.4	local
24	A	P	20 50 06.9	local
		S	20 50 17.8	
	HB	P	20 50 13.3	
		S	20 50 28.8	
25	V	P	08 18 16.2	local
		S	08 18 27.4	
	A	P	08 17 59.5	
25	V	P	19 31 25	
25	A	P_1	22 02 10.5	local - felt in Alberni
28	V	P	13 05 05	
29	V	P	08 36 24	
29	V	P	21 54 05	
30	V	P	18 05 26.0	
		S	18 05 36.6	

W. G. Milne,
Seismologist.

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATION: V - Victoria A - Alberni
S - Saskatoon HB - Horseshoe Bay

October, 1954.

DATE	STN	PHASE	TIME (G.C.T.) h m s		REMARKS
1	V	P	03 09 12.4		Santa Cruz Islands 9,500 km.
	S	e	03 19 57		
		i	03 22 01		
		L	03 40.6		
1	V	e	04 09 16.3		
		e	04 19 46.3		
		L	04 35.7		
2	A	P	20 30 28.4		
3	V	P	03 00 02.7		Santa Cruz Islands
	S	e	03 13 36		9,500 km.
		e	03 19 06		
		e	03 22.6		
3	V	e	04 00 08.7		
		e	04 10 37.7		
		e	04 16.6		
		L	04 27.0		
3	V	P	08 58 32.4		
3	V	P	11 23 12.3	c	Kenai Peninsula, Alaska
	S	iP	11 24 31		2,200 km.
		iS	11 28 39		
		L	11 31.4		
3	V	i	12 23 13.2		
		i	12 26 45.3		
		L	12 29.4		
4	A	P	20 30 28.4		
5	V	P	04 29 23		Off South Coast of Honshu, Japan.
5	V	P	13 01 07.1		local
		S	13 01 21.3		
5	A	P	14 05 51.7		local
		S	12 06 14.3		
6	A	P	12 37 45.0		
7	A	P	15 14 22.3		local
		S	15 14 41.5		
11	A	P	03.52 52.2		local
		S	03 52 59.2		
13	HB	P	19 32 43.6		local
		S	19 32 59.0		

'quake cont'd.

October, 1954.

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
13	V	iP	19 33 23.8	
		e	19 33 27.5	
		i	19 33 28.1	
	A	P	19 33 44.3	
		S	19 34 01.5	
13	HB	P	21 48 28.9	local
		S	21 48 44.3	
	V	P	21 49 09.7	
		S	21 49 13.7	
	A	P	21 49 30.2	
		S	21 49 48.1	
15	A	P	19 15 07.9	
16	V	P	02 26 03.3	local
		S	02 26 42.1	
	A	P	02 25 46.7	
		S	02 26 04.3	
17	V	P	23 01 30.5	Lower California
	S	e	23 02 48	2,000 km.
		e	23 06 20	
		i	23 09 00	
		L	23.10.5	
19	A	P	22 03 54.7	local
		S	22 04 04.7	
21	V	P	20 14 20.9	
24	A	P	07 51 32.5	local
		S	07 51 40.5	
24	V	P	09 48 20.8	Lower California
	S	e	09 53 15	1,950 km.
		L	09 56.5	
24	V	e	10 52.0	
27	V	P	03 29 39.3	
27	V	P	19 55 30.3	local
		S	19 55 45.2	
28	A	P	23 14 52.3	
31	V	e	23 36 21.2	

W. G. Milne,
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SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATION: V - Victoria A - Alberni
S - Saskatoon HB - Horseshoe Bay

November, 1954

DATE	STN	PHASE	TIME (G.C.T.). h m s		REMARKS
1	HB	P	06 34 08.4		local
		S	06 34 16.8		
	V	P	06 34 02.0	d	
		S	06 34 08.5		
	A	P	06 35 07.2		
		S	06 35 16.2		
1	V	P	21 04 22.1		Off Coast of Guatemala
2	V	P	01 52 00.9		
		S	01 52 13.5		
2	HB	P	07 43 57.9		local
		S	07 44 23.2		
	V	P	07 44 05.5		
		S	07 44 30.8		
	A	P	07 44 41.0		
		S	07 44 58.3		
2	V	e	08 43.9		
		e	08 53.5		
		e	08 59.9		
2	A	P	23 54 30.5		
		S	23 54 40.5		
3	V	eP	03 20 52.8		Andreanof Islands Aleutian Islands
3	V	eP	05 35 27.0		local
		i	05 35 29.7		
		iS	05 35 36.1		
	HB	P	05 35 38.1		
		S	05 35 53.1		
	A	P	05 36 46.9		
		S	05 36 09.5		
4	V	iP	10 54 40.0	d	local
		iS	10 54 48.7		
	HB	P	10 54 57.5		
		S	10 55 16.2		
6	V	iP	01 29 17.3		local
		iS	01 29 19.0		
6	V	eP	10 09 20.1		
6	V	eP	13 20 01.0		Southern Ryukyu Islands
6	HB	P	16 39 43.9		
		S	16 39 51.2		

DATE	STN	PHASE	TIME (G.C.T.)		REMARKS
7	V	P	05 31 36.7	c	Tonga Islands Region
8	V	P	02 51 31.7		local
	HB	P	02 52 44.1		
		S	02 52 54.1		
	A	P	02 52 51.1		
		S	02 53 08.4		
9	V	iP	00 20 52.4	d	local
		eS	00 21 04.1		
	A	P	00 21 14.2		
	HB	P	00 22 09.8		
9	V	iP	23 56 35.3		local
		iS	23 56 37.0		
11	V	eP	22 15 31.2		local
		eS	22 15 50.8		
	A	P	22 15 44.0		
		S	22 16 13.0		
12	V	eP	12 31 01.1	d	Lower California
		e	12 31 00.8		
		e	12 34 31.8		
		L	12 36.3		
	S	P	12 31 42		
		S	12 35 51		
		L	12 38.9		
12	HB	P	21 59 46.4		
	V	eP	21 59 54.6		
		eS	22 00 07.9		
	A	P	22 00 01.1	d	
12	V	eP	23 31 17.4		local
		eS	23 31 21.4		
	A	P	23 31 36.1		
	HB	P	23 31 36.2		
		S	23 31 52.7		
13	V	eP	08 25 42.9		local
		eS	08 25 50.9		
	HB	P	08 26 14.1		
15	V	iP	16 38 16.0		Marianas Islands
18	V	eP	20 55 36.1		Honshu, Japan
19	V	eP	06 06 16.5		Sea of Japan
20	V	eP	10 13 08.5		local
		eS	10 13 14.9		
	HB	P	10 13 10.9		
	A	P	10 13 21.4		
		S	10 13 38.5		
23	V	eP	21 21 26.7		Off Southeast Coast of Kamchatka
24	V	eP	00 46 41.3		Loyalty Islands

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
25	V	iP	11 18 34.9	Cape Mendocino
		S	11 21 50.4	California
	S	iP	11 20 45	
		eS	11 24 15	
		L	11 25.7	
25	V	P	21 11 44.5	
25	V	eP	12 15 11.6	Off Coast of Hokkaido, Japan
25	V	iP	21 45 25.8	Fiji Islands
26	V	eP	20 30 49.1	local
		eS	20 30 53.5	
27	V	eP	21 16 52.3	
29	V	iP	01 47 31.6	Near East Coast of Kamchatka
29	HB	P	14 48 22.2	local
		S	14 48 30.7	
	V	iP	14 48 24.6	
		iS	14 48 36.4	
30	V	iP	02 23 17.7	local
		iS	02 23 31.1	
30	V	iP	03 38 22.3	local
		iS	03 38 27.5	

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SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

STATION: V - Victoria A - Alberni
S - Saskatoon HB - Horseshoe Bay

December, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
1	V	eP	22 54 47.2	local
		S	22 55 02.1	
	HB	P	22 54 51.9	
2	V	eP	08 24 03.8	
		eS	08 24 13.9	
2	V	eP	08 25 08.8	
2	V	eP	09 06 12.1	local
		eS	09 07 15.6	
	HB	P	09 06 24.2	
		S	09 07 35.7	
2	V	P	22 50 54.1	local
		S	22 51 09.2	
	HB	P	22 50 56.4	
		S	22 51 13.5	
3	V	P	02 18 16.5	local
		S	02 19 22.2	
	HB	P	02 18 26.5	
		S	02 19 38.1	
3	V	P	08 47 26.0	local
		S	08 48 31.0	
		L	08 49 45.0	
	A	P	08 47 32.7	
		S	08 48 37.4	
	HB	P	08 47 36.3	
		S	08 48 47.3	
4	V	P	07 13 29.6	New Britain Region
		e	07 23 30.6	
		S	07 24 02	
		PS	07 25 28	
		SS	07 31 06	
4	S	E	18 40 42	Near Trinidad
		i	18 43 37	
		i	18 48 11	
		L	18 58.5	
	V	eP	18 41 36.1	
5	A	P	00 01 24.8	local
		S	00 01 31.0	
5	A	P	01 49 31.8	local
		S	01 49 35.7	
	V	eS	01 50 02.2	
7	A	P	22 08 09.6	local
		S	22 08 20.3	

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
8	V	P	18 39 58.4	local
	A	P	18 40 16.8	
		S	18 40 33.6	
10	S	i	13 14 06	West of Jamaica
		i	13 17 00	
		L	13 22.3	
	V	S	13 15 36.3	
		SS	13 19 25.3	
		L	13 28 13.3	
11	V	eP	10 37 52.7	local
	HB	P	10 38 00.8	
11	V	P	10 58 47.7	local
11	V	P	11 00 53.2	local
	HB	P	11 01 02.2	
11	V	P	11 11 04.5	local
11	V	P	11 42 01.7	local
	HB	P	11 42 09.8	
11	V	P	12 15 02.7	local
	HB	P	12 15 10.9	
11	V	P	12 27 43.5	
	HB	P	12 27 51.0	
11	V	P	12 01 21.3	local
	HB	P	12 02 28.4	
11	V	P	13 06 36.4	local
	HB	P	13 06 30.6	
11	V	P	13 08 10.9	local
	HB	P	13 08 17.1	
11	S	i	13 07 09	North Atlantic Ocean
		i	13 11 48	
		L	13 14.8	
	V	S	13 14 13.2	
		i	13 18 37.2	
		L	13 19 05.2	
11	V	P	16 05 13.8	local
	HB	P	16 06 21.0	
13	V	P	00 31 08.0	local
		S	00 31 12.9	
	HB	P	00 31 18.5	
16	V	P	11 09 38.7	Near Fallon Nevada
		S	11 11 31.5	
		L	11 11 55.3	
	S	P	11 09 39	
		S	11 12 44	
		L	11 14 32	
	HB	eP	11 09 49.8	
		iS	11 12 47.8	
	A		11 09 54.0	

December, 1954

DATE	STN	PHASE	TIME (G.C.T.) h m s	REMARKS
16	V	eP	14 19 18.3	Fallon Aftershock
17	A	P	12 03 01.3	local
			12 03 22.9	
	V	P	12 03 46.7	
	HB	P	12 04 02.9	
		S	12 04 23.5	
19	V	eP	10 36 04.7	Jujuy Province
		e	10 46 10.3	Argentina
	HB	eP	10 36 05.0	
	S	i	10 45 38	
20	V	P	12 36 52.8	local
		S	12 37 11.3	
	HB	P	12 37 06.5	
			12 37 27.7	
20	HB	P	23 00 02.8	(Blast)
21	HB	P	18 00 52.5	local
		S	18 00 59.7	
	A	P	18 01 09.5	
		S	18 01 28.8	
21	V	P	19 58 19.6	Humboldt County
		S	19 58 50	California
		L	20 00 27	
	HB	P	19 58 33.0	
		eS	20 00 52.3	
	A	P	19 58 33.5	
	S	iP	20 00 16	
		S	20 03 35	
		L	20 04.5	
25	V	eP	01 32 30.1	local
		S	01 33 08.9	
	A	P	01 32 17.0	
		S	01 32 49.6	
	HB			S-P = 43.6s
28	V	eP	01 13 49.5	New Britain Region
		S	01 24 05	
		L	01 41.0	
28	S	P	01 46	
30	V	P	09 18 02.0	local
		S	09 18 21.5	
		e	09 20 06.3	
30	V	eP	11 38 21.3	Fox Islands,
		S	11 43 22.3	Aleutian Islands
		e	11 43 44.3	
	S	e	11 45 15	
		L	11 49.6	

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