DEPARTMENT OF MINES AND TECHNICAL SURVEYS

DOMINION OBSERVATORIES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

SEISMOLOGICAL BULLETIN

January to March

1952

000

DOMINION ASTROPHYSICAL OBSERVATORY

VICTORIA / CANADA

00

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

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

January, 1952 No. 1

DATE	STN.	PHASE	h m s	REMARKS
2	V	P_1	22 52 28.4	
		S_1	22 52 33.8	
3	V	P	10 12 29	Off coast of Mexico
		L	10 25.7	
	S	S	10 23.0	
		L	10 24.4	
4	V	P_1	02 14 16.4	
		S_1	02 14 20.9	
	HB	P	02 14 26.4	
		S	02 14 35.3	
	A	P	02 14 29.5	
		S	02 14 45.9	
4	V	P	06 00 45	Loyalty Islands
6	V	P	15 57 09	Haiti
11	V	iP	04 13 59 d	New Guinea
12	V	P	20 17 31	Aleutian Islands
		PcP	20 20 46	
		S	20 22 15	
		SS	20 23.8	
	S	P	20 24 38	
		PP	20 29.0	
13	V	e	04 16 28	Formosa
		e	04 27 12	
	S	S	04 27 40	
18	V	e	11 50 10	Guatemala
19	V	e	07 21 17	Aleutian Islands
21	V	P	03 48 48	Aleutian Islands
		PcP	03 52 03	
		S	03 53 89	
	S	P	03 55 45	
		PP	04 00 11	
		PPS	04 10 45	
22	V	P	11 21 45.5	
		S	11 22 03.9	
	HB	P	11 21 32.6	
		S	11 21 41.8	
	A	P	11 21 33.6	
		S	11 21 44.1	
23	V	P	03 42 04	China

January, 1952 No. 2

DATE	STN.	PHASE	h m s	REMARKS
25	V	P	15 51 00.0	
		P	15 51 04.0	
		S	15 51 06.4	
	HB	P	15 51 10.6	
		S	15 51 20.8	
	A	P	15 51 20.7	
		S	15 51 37.9	
25	V	P	17 43 25.0	
		S	17 43 36.5	
			17 43 43.8	
	HB	P	17 43 25.5	
		S	17 43 40.2	
	A	P	17 43 11.2	
26	V	P	04 57 44	Aleutian Islands
28	V	P	02 01 34.1	
		S	02 01 50.4	
	HB	P	02 01 41.6	
		S	02 02 01.6	
29	V	P	23 47 11.0	
		S	23 48 16.5	
	HB	P	23 47 25	
31	V	P	08 33 14.4	Fiji Islands
31	A	P	19 20 02.7	
		S	19 20 10.1	
31	V	P	22 43 23.8	
		S	22 43 35.7	
	HB	P	22 43 23.7	
		S	22 43 35.8	
	A	P	22 43 33.5	
		P	22 43 39.6	
		S	22 44 01.6	

W. G. Milne
Seismologist-in-charge

SEISMOLOGICAL SERVICE OF CANADA
WESTERN DIVISION
DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

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

February, 1952 No. 3

DATE	STN.	PHASE	h m s	REMARKS
1	V	P	01 23 46.1	
		S	01 23 57.7	
	HB	P	01 24 02.5	
			01 24 12.7	
1	V	P	17 08 05.5	
			17 09 09.8	
2	V	P	10 26 57	Aleutian Islands
2	V	P	12 33 29	Puerto Rico
5	V	P	00 48 20.1	
		S	00 49 26.3	
	HB	e	00 49 42.4	
6	V	P	05 39 52	China
6	V	P	12 04 57.5	
		S	12 05 12.1	
	HB	P	12 05 09.7	
		S	12 05 34	
6	V	P	14 04 23.6	Felt at Mission, B.C.
		S	14 04 35.6	
	HB	P	14 04 19.9	
		S	14 04 29.9	
	A	P	14 04 35.7	
		e	14 04 37.0	
		S	14 04 43.7	
6	V	P	16 46 59	
6	V	P	20 25 42.1	
		S	20 25 45.6	
	HB	P	20 25 56.9	
	A	P	20 26 00.1	
		S	20 26 17.2	
6	V	P	21 49 12.9	
		S	21 49 25.8	
	HB	P	21 49 17.1	
		S	21 49 34.2	
7	A	P	00 35 37.8	
		S	00 35 38.7	
7	V	P	04 36 41.8	
		S	04 36 54.7	
	HB	P	04 36 46.5	
		S	04 37 03.2	

DATE	STN.	PHASE	h m s	REMARKS
7	V	P	22 03 03.3	
		S	22 03 15.3	
	HB	P	22 03 00.1	
		S	22 03 09.7	
	A	P	22 03 16.1	
9	V	P	05 29 08.5	
		S	05 29 19.2	
	HB	P	05 29 09.6	
		S	05 29 21.6	
	A	P	05 29 47.3	
11	V	i	07 18 42	Java Sea
		e	07 19 05	
13	A	P	20 21 03.2	
		S	20 21 07.6	
14	S	P	03 58 19	
		PS	04 07 47	
14	A	P	17 13 54.0	
		S	17 13 56.7	
14	V	P	21 12 25	Columbia
15	V	P	08 39 57.8	
		S	08 40 10.9	
	HB	P	08 39 52.7	
		S	08 40 01.4	
	A	P	08 39 52.1	
		S	08 40 01.3	
16	V	P	21 28 48	
16	V	P	22 31 36	
	A	P	22 31 53.1	
		S	22 32 06.9	
	S	P	17 45.0	
		S	17 52.2	
18	A	P	22 54 01.2	
		S	22 54 10.1	
20	V	P	09 21 50	Peru
20	V	P	19 07 13.4	Felt at Victoria, B.C.
	HB	P	19 07 22.8	
		S	19 07 33.8	
		i	19 07 36.2	
	A	P	19 07 31.4	
21	V	P	07 53 15.1	
			07 53 21.2	
21	V	P	23 35 51.5	Felt at Victoria
		S	23 35 54.2	
	HB	P	23 36 00.9	
	A	P	23 36 09.1	

DATE	STN.	PHASE	h m s	REMARKS
22	V	P	09 39 37.0	Felt at Victoria
	HB	P	09 39 46.7	
		S	09 39 57.1	
	A	P	09 39 54.3	
23	V	P	09 07 05.2	
		S	09 07 19.3	
	HB	P	09 07 16.6	
		S	09 07 40.1	
	A	P	09 07 24.4	
		S	09 07 53.6	
23	V	P	09 17 27.4	
	HB	P	09 17 36.0	
		S	09 17 59.6	
23	V	P	09 28 25.5	
	HB	P	09 28 36.8	
		S	09 29 00.6	
	A	P	09 28 45.1	
		S	09 29 15.7	
23	V	P	09 54 52.3	
	HB	P	09 55 06.5	
		S	09 55 30.4	
	A	P	09 55 14.4	
		S	09 55 43.9	
23	V	P	22 49 31.7	
24	HB	P	05 57 17	
24	V	P	23 07 38	Mariana Islands
25	V	P	01 29 08	Tonga Islands
		S	01 39 07	
		SKS	01 39 21	
		L	01 50.9	
	S	S	01 40.7	
25	V	P	02 07 39	Santa Cruz Islands
25	V	P	02 14 58	
25	V	i	11 42 36	Peru-Bolivia border
		i	11 43 36	
		i	11 52 13	
	HB	P	11 42 42.8	
	A	P	11 42 47.6	
	S	P	11 42.1	
26	V	P	15 47 56	Nicaragua
		e	15 49 23	
26	V	P	22 53 42.9	
		S	22 53 45.8	
27	V	P	06 16 18	

February, 1952 No. 6

DATE	STN.	PHASE	h m s	REMARKS
27	V	P	11 45 50	
27	HB	P	22 54 08.7	
		S	22 54 18.8	
28	V	P	00 38 34	Japan
28	V	P	18 54 39	Kamchatka
28	V	P	21 21 36	
29	V	P	12 40 51.5	
		S	12 40 54.5	
	HB	P	12 40 48.0	
		S	12 41 02.4	

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

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

March, 1952 No. 7

DATE	STN.	PHASE	h m s	REMARKS
1	V	P	15 41 20	Japan
2	V	P	00 12 07.4	
		S	00 12 19.6	
	HB	P	00 12 02.9	
	A	P	00 12 04.0	
		S	00 12 12.6	
2	V	P	00 33 21	
2	V	P	04 56 44.5	
		S	04 56 47.5	
2	V	P	19 01 35	Nicaragua
2	V	P	21 25 04	
3	V	P	07 25 11	Tonga Island
3	A	P	09 58 56.8	
		S	09 59 01.0	
		e	09 59 18.2	
3	A	P	14 39 02.5	
		S	14 39 07.3	
4	V	eP	01 33 10	Japan
		i	01 33 15	
		i	01 33 29	
		S	01 41 50	
		e	01 42 02	
		PS	01 42 42	
	A	P	01 33 10	
	S	P	01 33.9	
		S	01 42.9	
4	V	P	03 22 18	Japan
4	V	P	04 03 46	Japan
4	V	P	04 21 30	Japan
4	V	P	07 22 10	
4	V	P	16 41 09	Japan
4	V	P	19 43 19	Solomon Islands
4	V	P	20 06 29	Japan
	S	P	20 07.2	
		S	20 16.0	
4	V	P	21 27 27	
5	V	P	01 30 30	Japan

March, 1952 No. 8

DATE	STN.	PHASE	h m s	REMARKS
5	V	P	03 59 23	Japan
5	V	P	09 27 18	Japan
5	V	P	15 51 42	Gulf of California
		e	15 57.2	
	S	P	15 52.1	
		S	15 57.2	
7	V	P	07 44 51	Japan
7	V	P	19 54 06	Japan
7	V	P	20 53 52.9	
		S	20 53 59.6	
8	V	P	07 38 56	Guam
9	V	P	17 14 08	Japan
		S	17 22 27	
		ScS	17 23 58	
		e	17 30.0	
	S	P	17 14.8	
		S	17 23.9	
9	V	e	20 03 27	Alaska-Canada border
		i	20 03 29	
		e	20 06 13	
	S	P	20 04.5	
		S	20 07.9	
10	A	P	19 30 12.6	
		S	19 30 18.3	
11	A	P	23 54 26.3	
		S	23 54 34.1	
13	V	e	14 09 19	China Sea
		i	14 10 27	
14	V	P	14 59 42.6	Felt in Victoria
		S	14 59 44	
	HB	P	14 59 51.5	
		S	15 00 01.8	
	A	P	15 00 00.1	
14	V	P	21 05 28	Japan
16	V	P	05 50 24.5	
		S	05 50 27.2	
	HB	P	05 50 37.5	
		S	05 50 47.4	
	A	P	05 50 40.0	
16	V	P	17 21 30.4	
		S	17 21 33.4	
18	V	P	11 09 04 c	Santa Cruz Islands

March, 1952 No. 9

DATE	STN.	PHASE	h m s	REMARKS
19	V	P	11 10 37	Philippine Islands
	S	P	11 11.3	
		SKS	11 21.7	
20	V	P	10 11 42.2	
		S	10 11 46.0	
	A	P	10 11 58.6	
		S	10 12 14.9	
20	V	P	21 36 27.2	
		S	21 36 32.3	
	HB	P	21 36 42.9	
	A	P	21 36 43.9	
21	V	P	04 41 47.1 d	
		S	04 41 49.9	
	HB	P	04 41 57.7	
		S	04 42 07.5	
	A	P	04 42 02.5	
		S	04 42 19.0	
21	V	P	16 23 15	Santa Cruz Islands
22	V	P	02 01 58.7 d	
		S	02 02 15.5	
	HB	P	02 02 08.9	
		S	02 02 32.8	
	A	P	02 02 15.9	
			02 02 46.3	
22	V	P	18 22 09	Aleutian Islands
	S	P	18 23.2	
		S	18 29.4	
25	V	P	04 20 00	Tonga Islands
27	V	P	19 30 12.7	
		S	19 30 27.8	

W. G. Milne
Seismologist-in-charge

5.5.8.

DEPARTMENT OF MINES AND TECHNICAL SURVEYS

DOMINION OBSERVATORIES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

SEISMOLOGICAL BULLETIN

April to June

1952

000

DOMINION ASTROPHYSICAL OBSERVATORY

VICTORIA, CANADA

.00

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°31'14" N. λ = 123°24'56" W. h = 197 m.

Time correction from recorded radio time signals

Foundation: rock

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

Benioff vertical, short period, 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 photographic registration, magnetic damping, paper speed of 8 mm. per min., 1 lb mass.

DETERMINED CONSTANTS

INSTRUMENT	Ts	Tg	V	ε	DISPLACEMENT FOR 1" ARC TILT
Victoria Benioff	1.0	0.1			
Victoria EW	12.0		300	20:1	50 mm.
Victoria NS	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.

NOTE:- Universal Time used throughout

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 1/3 sec., and Tg approximately 1/20 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 EW and vertical short period with Ts approximately 1/3 sec., and Tg approximately 1/20 sec. Sprengnether NS short period with Ts and Tg approximately 1.9 sec. All three components are recorded at 60 mm. paper speed.

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

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

April, 1952 No. 10

DATE	STN	PHASE	h m s	REMARKS
1	V	P	00 39 17.8	Alberta, Montana
		e	00 40 54.6	British Columbia border
		e	00 41 02.1	
	HB	P	00 39 17.6	
		e	00 40 57.5	
	A	P	00 39 27.1	
	S	e	00 39.5	
		i	00 40 45	
2	V	P	18 42 08	Mexico
	S	L	18 54.0	
3	V	P	02 14 23	
	HB	P	02 14 22	
	A	P	02 14 06	
4	V	P	03 01 32	Kamchatka
4	V	P	08 02 18	Formosa
	V	P	20 51 10.5	
		S	20 51 13.2	
	HB	P	20 51 19.4	
		S	20 51 29.2	
	A	P	20 51 28.9	
		S	20 51 45.8	
5	V	P	01 14 05.8	
			01 14 09.8	
5	V	P	08 45 38	Fiji Islands
8	V	P	00 29 40	Brazil
8	V	P	00 31 45	
8	V	P	03 03 27	Kamchatka
8	V	P	03 15 48	Kamchatka
8	V	P	04 56 46	
8	V	P	15 28 39	
	A	P	15 28 21	

April, 1952 No.11

DATE	STN.	PHASE	h m s	REMARKS
9	V	P	16 34 29	Oklahoma
	S	e	16 34.2	
10	V	P	06 09 55	Ryukyu Islands
11	V	P	09 48 48.6	
		S	09 48 51.5	
	HB	P	09 48 56.5	
		S	09 49 11.6	
	A	P	09 48 51.3	
		S	09 49 02.7	
12	V	P	01 46 52	
12	V	P	02 58 11	Aleutian.. Islands
12	V	P	11 04 33.9	
	HB	P	11 04 44.7	
14	V	P	23 50 02	
15	V	P	00 02 06.7	
15	V	P	06 10 13	Hokkaido, Japan
15	V	P	09 27 27 d	Fiji Islands
15	V	P	13 47 53	
15	V	P	19 21 30	Sandwich Islands
16	V	P	03 49 38	Kurile Islands
16	V	P	17 56 18.1	
16	V	P	22 25 41.1 c	
		S	22 25 45.1	
	HB	P	22 25 12.2	
	A	P	22 25 58.8	
16	V	P	23 31 15.6	
		S	23 31 19.1	
	HB	P	23 31 33.2	
	A		23 31 35.0	
16	V	P	23 35 45.6	
		S	23 35 48.9	
	A	P	23 36 04.9	
		S	23 36 23.0	
17	V	P	00 27 45.6	
		S	00 27 55.0	
	HB	P	00 27 37.6	
		S	00 27 56.9	
	A	P	00 28 02.2	
		S	00 28 22.8	
17	V	P	18 57 38.3	

April, 1952 No.12

DATE	STN	PHASE	h m s	REMARKS
17	V	P	19 06 27.5	
	V	P	22 45 03.8	
18	V	P	16 11 52	Mariana Islands
19	V	P	01 30 55.6	
19	V	P	03 25 30	
19	V	P	10 08 56.7	Columbia-Venezuela border
		S	10 17 01	
	S	P	10 08.2	
		e	10 15.9	
19	HB	P	19 05 21.0	
	A	P	19 06 22.2	
		S	19 06 32.2	
19	V	P	19 48 43	
19	V	P	22 14 01.2	
		S	22 14 03.4	
20	V	P	00 07 13.5	
		S	00 07 18.0	
20	V	P	07 19 58	Tonga Islands
21	V	P	02 09 04	
22	V	P	06 33 17 d	
22	V	P	16 56 48.2	Montana
		e	16 59 02.4	
	S	P	16 56 36	
		S	16 58.2	
23	V	P	19 28 20.3	
		S	19 28 56.6	
24	V	P	11 04 36.9	
		e	11 05 45.3	
		e	11 05 48.1	
24	V	P	12 24 17	
25	V	P	23 16 18.1	
	HB	P	23 16 08.2	
	A	P	23 16 27.5	
26	V	P	02 04 43	Kamchatka
27	V	P	05 27 37.1	
		S	05 27 42.8	
	A	P	05 27 32.2	
27	V	P	08 25 27	Kermadec Islands

April, 1952 No. 13

DATE	STN.	PHASE	h m s	REMARKS
27	V	P	15 06 23	Mariana Islands
28	V	P	11 04 40	Hohhaido, Japan
29	V	iP	02 47 39 d	Formosa
		S	02 57 49	
29	V	P	03 26 59 c	Mozambique Channel
30	V	P	02 10 00.8	

SEISMOLOGICAL SERVICE OF CANADA
WESTERN DIVISION
DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

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

May, 1952 No. 14

DATE	STN.	PHASE	h m s	REMARKS
1	V	P	13 09 07.6	
		S	13 09 30.2	
	HB	e	13 09 45	
	A	e	13 09 23.1	
1	V	P	15 12 41	Aleutian Islands
1	V	P	16 21 11	North Atlantic
1	V	P	20 12 40.7	
		S	20 12 43.2	
	HB	P	20 12 56.1	
	A	P	20 13 00.1	
2	V	P	11 24 46	Japan
2	V	P	16 07 33	
3	V	P	00 10 00.6	
		S	00 10 06.1	
	A	P	00 10 05.6	
			00 10 21.4	
4	V	P	13 39 13.8	
4	V	P	14 28 09.6	Tonga Islands
		e	14 38 31	
		e	14 39.1	
5	V	P	04 58 37	Bonin Islands
6	A	P	15 11 31.6	
		S	15 11 38	
6	V	P	17 22 47	California
		e	17 23.1	
	S	L	17 29.9	
7	V	L	16 17.2	
7	A	P	16 15 36.2	
	HB	P	16 15 50.2	
8	V	P	00 09 39	
8	V	P	21 20 35	Molucca Passage
		S	21 28 40	
9	V	P	15 33 53	California-Nevada border
9	V	P	18 00 34 d	Solomon Islands
		SKS	18 11 15	
		S	18 11 52	
		PS	18 13 31	
		eZ	18 18 14	
		eZ	18 26 22	
		L	18 27.7	
	S	e	18 01.5	
		e	18 05.6	

DATE	STN.	PHASE	h m s	REMARKS
9	V	P	18 28 13 d	
10	V	e	02 42.6	
10	V	P	09 32 25	
10	V	P	14 33 06	
10	V	P	17 18 00	
12	V	P	05 42 29.0	
		S	05 42 55.7	
		e	05 42 57.4	
	HB	P	05 42 48.4	
		S	05 43 24.2	
12	V	P	17 47 05.3	
12	V	P	18 06 12.7	
			18 06 14.3	
12	V	P	19 11 47	
13	V	P	03 17 21	
13	V	P	19 40 21	Costa Rica
		S	19 47 45	
	S	P	19 39.9	
		e	19 41.7	
		e	19 42 25	
14	V	e	00 46 59	Japan
	S	e	00 47.9	
		e	00 56.8	
14	V	P	21 19 35	Honduras
	S	e	21 23.6	
		e	21 29.7	
14	V	P	23 28 21	
		e	23 29 52	
15	V	P	09 38 32 d	
15	V	P	11 15 00	Aleutian Islands
15	A	P	18 50 33.3	
		S	18 50 40.2	
15	V	P	18 51 54	
15	V	P	21 19 27	Chile
15	V	P	21 44 06	Aleutian Islands
16	V	P	05 50 08.9 c	Guatemala
		S	05 56 41	
16	V	P	10 59 35	Mexico

MAY, 1952 No.16

DATE	STN.	PHASE	h m s	REMARKS
16	V	P	20 55 22	Panama
		e	21 03 22	
	S	P	20 54 14	
		e	21 02.0	
16	V	P	22 32 12	Tonga Islands
17	V	P	06 09 28	Sea of Okhotsk
17	V	P	06 31 12 c	
17	HB	P	07 36 18.1	
		S	07 36 26	
	A	P	07 36 20.8	
		S	07 36 30.4	
17	V	P	09 58 31	Japan
19	V	P	18 36 16.7	Felt Victoria
	HB	P	18 36 32.3	
		S	18 36 35.8	
	A	P	18 36 37.2	
		S	18 36 51.2	
19	V	eP	18 43 05	Japan
		S	18 50 59	
	S	P	18 43 33	
		S	18 52 20	
20	V	P	11 09 55	
20	V	P	13 44 23	Fiji Islands
20	V	P	14 55 12	
20	A	P	22 03 23.6	
22	V	P	23 20 13 d	Ryukyu Islands
23	V	P	04 32 16 d	Japan
23	V	P	15 31 43	
23	V	P	16 33 43	
23	V	P	20 36 00	Tonga Islands
23	V	P	22 19 58 c	
		e	22 20 02	Hawaii
24	V	P	02 11 40	Chile
24	V	P	16 24 48	Sumatra
28	V	iP	08 09 48	Japan
		S	08 18 38	
	A	P	08 09 42	
	S	P	08 10 29	
		S	08 19 45	

MAY, 1952 No.17

DATE	STN.	PHASE	h m s	REMARKS
30	V	e	01 30 01	Formosa
30	A	P	16 16 06.1	
30	V	P	23 31 12.2	
		S	23 31 33.6	
31	V	P	12 03 53.2	Loyalty Islands
		S	12 04 21.2	

SEISMOLOGICAL SERVICE OF CANADA
WESTERN DIVISION
DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

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

June, 1952 No. 18

DATE	STN.	PHASE	h m s	REMARKS
2	V	P	08 59 38.8	
		S	08 59 43.4	
	HB	P	08 59 46.6	
		S	08 59 56.3	
	A	P	08 59 56.4	
		S	09 00 12.8	
3	V	P	13 31 18.1	Japan
4	V	P	06 31 26	Kashmir - Tibet border
		e	06 33 03	
4	V	P	21 40 39	Colombia
5	V	P	06 06 24	Colombia
5	V	P	18 44 27.3	
		S	18 44 43.6	
	A	P	18 44 26.8	
5	V	P	19 05 55.6	
	A	P	19 05 55.2	
5	V	P	20 26 36.2	
		S	20 26 46.7	
5	V	P	21 14 50.2	
		S	21 15 07.6	
5	V	P	21 36 55.3	
	A	P	21 36 53.7	
5	V	P	23 52 28.7	
		S	23 52 42.5	
	HB	P	23 52 26.8	
6	A	P	15 00 31.9	
6	V	P	18 27 57	
7	V	P	16 51 42	
7	V	P	18 49 35	
7	V	P	19 07 14.9	
		S	19 07 15.3	
10	V	P	10 10 43	Fiji Islands
		e	10 20 58	
	S	e	10 11.5	
		S	10 22 40	
11	V	P	00 44 53	Argentina
	S	e	00 55 16	
11	V	P	14 54 31.1	

June, 1952

DATE	STN.	PHASE	h m s	REMARKS
12	V	P	13 28 59.6	
		S	13 29 11.5	
	HB	P	13 29 13.2	
		S	13 29 32.8	
	A	e	13 29 32	
12	V	P	19 00 31.5	
		S	19 00 45.7	
	HB	P	19 00 33.7	
14	V	P	02 10 04.7 d	Alaska
14	V	P	02 17 48.2	
15	V	P	15 16 52	Yukon
		S	15 20 25	
	S	e	15 20 35	
		L	15 23.2	
16	V	P	03 50 16.5	Fiji Islands
17	V	P	20 36 03.8	
		S	20 36 21.1	
	HB	P	20 36 12.3	
		S	20 36 26.0	
	A	P	20 36 00.2	
18	V	P	01 09 28	
18	A	P	05 11 45.2	
		S	05 11 53.3	
18	A	P	07 25 05.0	
		S	07 25 14.2	
18	V	P	10 58 57.0	
		S	10 59 10.3	
19	V	P	01 47 12	
19	V	P	12 37 28	China
20	V	P	05 59 05 c	Formosa
		S	06 09 43	
	S	L	06 39	
21	V	P	06 37 57	Kurile Islands
22	V	P	03 45 29	Kermadec Islands
22	V	P	04 18 22	Ecuador
22	V	P	10 19 36	Kurile Islands
22	V	P	16 19 44	
			16 19 46	
22	V	P	21 51 15	Kurile Islands
		S	21 58 48	
	S	P	21 52 01	
		i	22 00 12	
		i	22 01 44	
		e	22 04.2	

June, 1952 No.20

DATE	STN.	PHASE	h m s		REMARKS
23	V	P	12 15 55.6		Formosa
23	V	P	17 38 01.0		
		S	17 38 06.0		
	HB	P	17 38 15.5		
23	V	P	23 52 56.5		
		S	23 53 07.8		
	HB	P	23 52 51.3		
	A	P	23 52 53.2		
24	V	P	03 28 36		New Hebrides
24	V	P	13 55 27		
25	V	P	23 20 04.1		
		S	23 20 05.7		
27	V	P	21 38 58.5		
		S	21 39 00.6		
28	V	P	05 09 46	c	Kamchatka
28	V	P	10 56 50	d	
28	V	P	16 20 11		
28	V	P	19 19 52		Molucca Passage
29	V	P	10 06 19		Colombia - Venezuela border
		e	10 06 56		
29	V	P	16 02 33		Japan
29	V	P	16 51 58		Kamchatka

W. G. Milne
Seismologist-in-charge

DEPARTMENT OF MINES AND TECHNICAL SURVEYS

DOMINION OBSERVATORIES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

SEISMOLOGICAL BULLETIN

July - September

1952

000

DOMINION ASTROPHYSICAL OBSERVATORY

VICTORIA / CANADA

00

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°31'14" N. λ = 123°24'56" W. h = 197 m.

Time correction from recorded radio time signals

Foundation: rock

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

Benioff vertical, short period, 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 photographic registration, magnetic damping, paper speed of 8 mm. per min., 1 lb mass.

DETERMINED CONSTANTS

INSTRUMENT	Ts	Tg	V	ε	DISPLACEMENT FOR 1" ARC TILT
Victoria Benioff	1.0	0.1			
Victoria EW	12.0		300	20:1	50 mm.
Victoria NS	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.

NOTE:- Universal Time used throughout

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 1/3 sec., and Tg approximately 1/20 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 EW and vertical short period with Ts approximately 1/3 sec., and Tg approximately 1/20 sec. Sprengnether NS short period with Ts and Tg approximately 1.9 sec. All three components are recorded at 60 mm. paper speed.

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

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

July, 1952

DATE	STN	PHASE	h m s	REMARKS
2	V	P	17 05 31	Kamchatka
3	V	P	01 02 17	Colombia
4	V	P	04 57 35	Fiji Islands
4	V	Pn	22 54 57.6	Felt at Hope, B. C.
		e	22 55 00	
		S	22 55 15	
		e	22 55 19	
	HB	P	22 54 50.4	
		S	22 55 05	
	A	P	22 55 07	
4	HB	P	23 00 35	
		S	23 00 50	
7	V	iP	02 58 35 d	Unimak Island, Aleutians
7	V	iP	14 56 01 d	Mariana Islands
8	V	iP	01 09 29 c	Sea of Japan
8	V	P	15 52 22	Tonga Islands
9	V	iP	18 24 41	Panama
9	V	P	20 46 12	Panama
10	V	iP	06 13 24 d	
10	V	iP	15 56 52 c	Fiji Islands
12	V	Pn	19 16 34 c	
		Sn	19 16 46	
	HB	Pn	19 16 28	
		S	19 16 36	
13	V	iP	12 11 04 c	New Hebrides
		S	12 21 03	
		e	12 23 09	
	S	P	12 11 55	
		e	12 16 06	
		L	12 22.0	
13	V	P	17 52 52	Ceram Sea
15	V	iP	06 14 18 d	Guatemala
		S	06 20 52	
		L	06 29.8	
	S	L	06 15.4	
15	V	Pn	10 08 37	Felt at Powell River, B. C.
		S	10 08 56	
	HB	P	10 08 30	
		S	10 08 42	

DATE	STN	PHASE	h m s	REMARKS
16	V	P	01 36 06	California
16	V	P_1	18 59 04	
		S_1	18 59 12	
17	V	iP	16 21 07 c	Japan
		i	16 21 29	
		S	16 30 19	
18	A	P	11 54 29	
		S	11 54 45	
18	A	P	11 55 21	
		S	11 55 39	
19	V	P_1	11 54 22	felt in Victoria, B. C.
		S_1	11 54 25	
19	V	P_1	11 55 14	
		S_1	11 55 17	
21	V	iP	11 55 32 c	California
		i	11 55 35	
		i	11 55 38	
		iS	11 58 38	
		i	11 58 58	
	HB	P	11 55 45	
	A	P	11 55 48	
	S	P	11 56 42	
		S	12 00 16	
21	V	P	12 08 49	
21	V	P	12 10 33	
21	V	P	12 43 06	
21	V	P	15 17 20	
21	V	P	19 44 43	
22	V	P	08 53 46	
22	V	P	11 46 10	
22	V	P	13 35 04	
23	V	P	00 41 47	California
	S	P	00 42 58	
		S	00 46 25	
		L	00 48.7	
23	V	P	01 07 24	Guatemala
23	V	P	04 42 53	Fiji Islands
23	V	Pn	06 50 11	
		Sn	06 50 19	
23	V	P	07 56 36	

DATE	STN	PHASE	h m s	REMARKS
23	V	P	10 42 02	
		S	10 42 05	
	A	P	10 42 12	
		S	10 42 26	
23	V	P	13 20 24	
	S	P	13 21 35	
		S	13 25 02	
		L	13 27.3	
24	V	P	22 19 29	Japan
25	V	P	19 13 03	
		S	19 16.0	
		L	19 17.5	
	S	e	19 17 37	
		L	19 19.7	
25	V	P	19 46 43	
25	V	P	20 09 24	
26	V	P	14 14 07	
		i	14 14 09	
		S	14 14 18	
	HB	P	14 13 58	
		S	14 14 06	
	A	P	14 14 03.4	
		S	14 14 12.2	
26	V	P	21 03 27	
		S	21 03 38	
	HB	P	21 03 23	
		S	21 03 34	
	A	P	21 03 18	
		S	21 03 23	
27	V	P	08 35 07	Fiji Islands
		S	08 44 46	
	S	e	08 46 33	
		e	08 53.0	
27	V	P	19 52 37 d	
		i	19 52 39	
		S	19 52 51	
		i	19 52 55	
	HB	P	19 52 46	
		S	19 53 08	
	A	P	19 52 56	
27	V	P	20 14 13	
		S	20 14 30	
	HB	P	20 14 21	
		S	20 14 44	
	A	P	20 14 31	
		S	20 15 00	
28	A	P	08 25 04	
		S	08 25 16	
28	V	P	19 01 49	
		S	19 02 03	

DATE	STN	PHASE	h m s	REMARKS
29	V	P	07 07 04	California
		S	07 10 11	
	S	P	07 08 07	
		S	07 11 42	
29	V	P	20 01 01	Aleutians
29	A	P	23 50 31	
		S	23 50 40	
30	V	P	01 23 08	
30	HB	P	07 47 10	
		S	07 47 21	
	A	P	07 47 20	
		S	07 47 33	
30	HB	P	09 41 12	
		S	09 41 27	
30	A	P	23 34 22	
		S	23 34 30	
31	V	P	12 12 28	California
	S	P	12 13 31	
		S	12 17 02	
31	V	P	18 18 02	

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

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

August, 1952

DATE	STN	PHASE	h m s	REMARKS
2	V	P	15 50 00.8	
		S	15 50 21.8	
	HB	P	15 50 08.8	
		S	15 50 33.9	
6	V	P	17 32 17.5	5 mi. South of Seattle
		e	17 32 20.3	
		S	17 32 38.0	
	HB	P	17 32 31.6	
		S	17 32 56.8	
6	A	P	21 43 17.7	
7	V	P	03 48 35.2	felt Victoria
		S	03 48 38.2	
	HB	P	03 48 49.2	
		S	03 49 01.4	
	A	P	03 48 52.0	
		S	03 49 07.3	
7	HB	P	14 35 46.6	
7	V	P	22 03 43	Japan
9	HB	P	03 42 31.5	
		S	03 42 34.7	
9	V	P	07 48 27.3	
	HB	P	07 48 25	
	A	P	07 48 06.3	
9	A	P	13 16 58.6	
		S	13 17 05.0	
10	V	P	00 28 04.7	Aleutians
		S	00 28 08.7	
10	V	P	02 08 05	
10	A	P	14 58 03.8	
		S	14 58 21.4	
11	V	P	22 52 12.5	
		S	22 52 15.4	
11	V	P	22 59 31.3	
		S	22 59 39.2	
11	V	P	23 01 09.1	
		S	23 01 13.0	
12	V	P	07 37 11.7	
		S	07 37 15.4	
14	V	P	22 30 10.6	
			22 30 11.6	

DATE	STN	PHASE	h m s	REMARKS
14	V	P	23 29 40.5 c	Solomon Islands
		S	23 40 08	
		L	23 57	
15	V	P	01 48 36 d	Fiji Islands
15	V	P	20 09 51	Japan
16	V	e	14 15 22 c	
17	V	P	04 44 18	Indian Ocean
17	V	P	10 01 52	
	S	e	10 26 21	
		L	10 43	
17	V	P	14 19 46.8	
		S	14 20 10	
17	V	P	16 15 33	Tibet
		PP	16 19 35	
		SKS	16 26 29	
		PS	16 28 15	
		L	16 36	
18	V	P	06 39 21	
	A	P	06 39 33	
19	HB	P	03 07 09	
		S	03 07 12	
19	V	P	14 13 08 c	Leeward Islands
20	V	P	05 57 01	Mexico
20	V	P	15 26 32.3	Off coast of Oregon
		e	15 26 39.3	
		S	15 27 44	
		e	15 27 49	
	A	P	15 26 38.9	
		e	15 26 44.6	
		S	15 27 51.9	
	S	P	15 28 52	
		S	15 31 57	
		L	15 33.6	
21	V	P	05 00 58.2	
		S	05 01 02	
21	V	P	09 46 20	Oregon Coast
21	A	P	12 54 21.8	
		S	12 54 24.3	
21	V	P	19 09 56	Oregon Coast
		e	19 11 01	
22	V	P	22 44 41	California
	S	P	22 45 48	
		e	22 49 20	
		L	22 51.5	
23	V	P	14 32 02	Panama

DATE	STN	PHASE	h m s	REMARKS
24	V	P	12 57 17	Bonin Islands
24	HB	P	17 24 12.8	
25	V	P	02 16 19	
	HB	P	02 16 21.2	
		S	02 16 57	
	A	P	02 16 01.6	
26	V	P	09 51 50.4	
		S	09 52 04.6	
26	V	P	10 25 48	Japan
26	HB	P	20 05 07.0	
		S	20 05 12.5	
26	V	P	23 12 48.8	
		S	23 12 49.8	
27	V	P	11 33 00	Alaska
27	V	P	17 10 22	Puerto Rico
27	V	P	19 23 31	
27	V	P	20 48 40	
27	V	P	21 24 01.1	
		S	21 24 21.1	
27	V	P	22 04 38	Aleutians
27	V	P	22 22 50	
28	V	i P	10 57 57 c	Alaska
		e	11 02 12	
	S	e	11 04 04	
28	V	P	13 09 34	Easter Islands
28	V	P	15 31 53	Mexico
29	V	P	19 10 09.6	
		S	19 10 13.6	
29	V	P	21 23 58	
30	V	P	19 44 11	
30	V	P	19 47 34.5	
	A	P	19 47 34.2	
		S	19 47 36.0	
30	V	P	21 29 08.0	
		e	21 29 10.7	
		S	21 29 24.7	
	A	P	21 29 08	

DATE	STN	PHASE	h m s	REMARKS
31	V	P	00 52 08	
31	V	P	01 22 44	
31	V	P	10 05 59.2	
		S	10 06 14.2	
	HB	P	10 06 03.5	
		S	10 06 13.0	
	A	P	10 05 48.4	
		e	10 05 52	
		S	10 05 55	
31	V	P	16 19 58	Japan

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, Victoria

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

September, 1952

DATE	STN	PHASE	h m s	REMARKS
1	HB	P	03 14 41.9	
1	V	P	08 03 13.4	
		S	08 03 38	
2	V	P	03 51 20.0	
		S	03 51 37	
2	V	P	07 36 55	
2	V	P	08 11 25	
3	V	P	22 09 28.0	
		S	22 10 06	
6	HB	P	10 41 28.8	
		S	10 41 43.4	
	A	P	10 41 42.5	
		S	10 42 00	
9	A	P	08 17 57.1	
		e	08 18 12.4	
		i	08 18 17.4	
9	S	P	13 03 20	Costa Rica
		S	13 09 40	
		L	13 13.0	
12	V	P	14 37 24	
		S	14 37 42	
13	V	P	22 58 57	
		S	22 59 12	
	HB	P	22 58 59.8	
		S	22 59 15	
	A	P	22 59 14.6	
		S	22 59 40	
14	V	P	06 03 33	Fiji Islands
14	V	P	08 30 59	
14	V	P	09 47 32	China
15	V	P	06 54 53	
17	V	P	01 28 17 c	Fiji Islands
18	V	P	08 52 55.3	
		S	08 53 02.3	
21	V	P	02 42 49 d	Argentina - Bolivia border
		e	02 43 54	
		iS	02 52 48	
	S	P	02 43 36	
		S	02 51 19	

September, 1952.

DATE	STN	PHASE	h m s	Remarks
22	A	P	02 50 44.4	
		S	02 50 53.7	
22	V	P	07 21 52.7	
		S	07 21 59.7	
	HB	P	07 22 01.0	
		S	07 22 13.8	
	A	P	07 22 12.5	
		S	07 22 33.5	
22	V	P	11 43 25	California
	S	L	11 50.2	
24	V	P	22 10 45 d	
27	V	P	19 14 28 c	Kamchatka
30	HB	e	00 54 33.2	
		i	00 54 40	
		e	00 54 55	
	A	P	00 54 36.6	
		e	00 54 43.1	
		e	00 55 00.6	
	V	P	00 54 18 c	
		S	00 54 23	
30	V	P	13 05 18	China
	S	e	13 16 48	
30	A	P	17 34 49.8	

W. G. Milne
Seismologist-in-charge

5.

DEPARTMENT OF MINES AND TECHNICAL SURVEYS

DOMINION OBSERVATORIES BRANCH

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

SEISMOLOGICAL BULLETIN

October, November and December

1952

000

DOMINION ASTROPHYSICAL OBSERVATORY

VICTORIA / CANADA

00

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°31'14" N. λ = 123°24'56" W. h = 197 m.

Time correction from recorded radio time signals

Foundation: rock

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

Benioff vertical, short period, 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 photographic registration, magnetic damping, paper speed of 8 mm. per min., 1 lb mass.

DETERMINED CONSTANTS

INSTRUMENT	Ts	Tg	V	$\mathcal{E}$	DISPLACEMENT FOR 1" ARC TILT
Victoria Benioff	1.0	0.1			
Victoria EW	12.0		300	20:1	50 mm.
Victoria NS	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.

NOTE:- Universal Time used throughout

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 1/3 sec., and Tg approximately 1/20 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 EW and vertical short period with Ts approximately 1/3 sec., and Tg approximately 1/20 sec. Sprengnether NS short period with Ts and Tg approximately 1.9 sec. All three components are recorded at 60 mm. paper speed.

SEISMOLOGICAL SERVICE OF CANADA

WESTERN DIVISION

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA

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

N.B. All locations and distances shown for earthquakes are taken from the United States Coast and Geodetic Survey Epicenter Cards with the exception of local shocks.

October, 1952

DATE	STN	PHASE	h m s	REMARKS
1	V	P	00 13 22	
1	V	P	01 48 01	local
	A	P	01 47 50.2	
1	V	P	01 54 31	local
	A	P	01 54 19.7	
	HB	P	01 54 33.5	
1	V	P	03 53 03	
1	V	P	08 10 39	
1	V	P	09 13 39	
1	V	P	11 41 03	
1	V	P	13 34 10	
3	V	P	07 46 17	M 6 1/2 off coast of Panama
4	V	P	12 18 44.3	local
		S	12 19 13	
	A	P	12 18 32.9	
		S	18 53	
	HB	P	12 18 30.2	
		S	12 18 48.1	
4	V	S	12 48 00	local
	A	P	12 47 15.0	
		S	47 25.0	
5	V	P	11 07 52	near west coast of Greece
5	V	P	22 17 25	China
6	V	P	01 40 30	Alaska
6	V	P	14 18 40	Peru
6	V	P	22 37 59	5050 km Kamchatka
7	V	P	06 46 29	
7	V	P	07 05 22	off Oregon
7	V	P	07 32 16	off Oregon
7	V	P	08 00 41	

DATE	STN	PHASE	h m s	REMARKS
7	V	P	08 25 39	off Oregon
7	V	P	14 20 40.0	local
		S	14 21 21	
9	A	P	09 24 36.0	local
		S	24 42.0	
10	V	P	21 28 34	
10	V	P	21 59 27	Alaska
10	V	P	22 49 27	
10	V	P	22 53 57	Mexico
11	V	P	01 43 28	Bechuanaland, Africa
11	A	P	08 53 45.1	local
		S	52.5	
11	V	P	10 01 12	local
		S	10 01 57	
	HB	P	10 01 12.5	
		S	01 46.3	
12	V	iP	17 06 23.8 d	local
		S	06 42.1	
	A	P	17 06 41.7	
		S	07 10.2	
	HB	P	06 38.3	
		S	07 01.8	
14	V	P	21 51 26.0	local
		S	51 38.0	
	HB	P	21 51 34.8	
		S	51 46.6	
14	V	P	22 21 42	
15	V	P	00 05 21	5750 km Costa Rica
15	V	P	00 21 25	Japan
15	V	P	02 25 09	Chile
15	V	P	02 59 08	
15	V	P	13 39 11	
15	V	P	17 51 18	
15	V	P	18 04 08	Cyprus
15	S	e	22 16 00	
17	V	P	07 45 21	Samoa Islands
17	V	P	09 03 27	
18	V	P	05 35 28	9800 km New Hebrides
	S	L	06 10 00	

DATE	STN	PHASE	h m s	REMARKS
18	V	P	12 08 59	7900 km Atlantic Ocean
	S	L	12 25.0	
18	A	P	14 00 48.5	local
		S	00 55.7	
18	V	P	19 56 52	
18	V	P	20 45 14	Samoa
18	V	P	21 22 36	
19	A	P	12 21 11.6	local
		S	21 28.1	
20	HB	P	03 20 01.7	local
		S	20 16.2	
20	V	P	14 40 10	
20	V	P	16 26 27	Kamchatka
21	V	P	03 20 41	
21	A	P	15 36 36.8	local
		S	36 43.5	
21	V	iP	21 10 37.3 d	local
		S	10 40.3	
	A	P	21 10 54.2	
		S	11 10.4	
	HB	P	21 10 45.7	
		S	10 55.5	
22	V	P	19 50 50	Arizona, New Mexico
25	V	P	14 36 27	California
26	V	P	08 51 48	7800 km Japan
26	V	P	13 30 50	Japan
26	V	P	14 40 34	Japan
26	V	P	15 56 48	7050 km Japan
26	V	P	16 03 39	
26	V	P	18 12 37	7050 km Japan
26	V	P	19 29 53	7050 km Japan
28	V	P	04 38 47	5500 km Haiti
	S	P	04 44 06	
		e	47 06	
		L	53 00	
28	V	P	06 41 34	6950 km Japan
28	V	P	15 55 30.6	local
		S	55 35.1	
	A	P	15 55 47.7	
		S	56 05.2	
	HB	P	15 55 39.5	
		S	55 48.7	

October, 1952.

DATE	STN	PHASE	h m s	REMARKS
28	V	P	16 55 57	Japan
29	V	P	03 41 58.5	local
		S	43 05.0	
29	V	P	04 39 30.9	local
		S	40 35.4	
29	V	P	06 57 56.4	local
		S	59 03.7	
	A	P	06 57 57.4	
		S	59 04.2	
	HB	P	06 58 09.5	
		S	59 21.0	
29	V	P	07 10 10	local
		S	11 17	
29	V	iP	09 35 20.8 d	local
		S	36 28	
	A	P	09 35 21.3	
		S	36 27.0	
	HB	P	09 35 31.3	
		S	36 43.3	
29	V	P	14 58 31	
29	V	iP	19 46 09 d	8750 Apia
29	V	P	20 04 06	local
		S	05 14	
	A	P	20 04 07.0	
		S	05 16.8	
	S		19 57 18	
31	V	P	16 47 53	7100 Japan
31	V	iP	19 12 11.6 c	local
		S	12 15.4	
	A	P	19 12 30.9	
	HB	P	19 12 28.3	
31	V	iP	19 12 54.2 d	local
		S	13 00.9	
	HB	P	19 13 11.0	
31	V	iP	19 14 09.0 c	local
		S	14 12.9	
	A	P	19 14 26.8	
	HB	P	19 14 25.6	
31	V	iP	19 20 50.0 c	local
		S	20 54.0	
	A	P	19 21 07.4	
	HB	P	19 21 05.6	
31	V	iP	19 21 49.5 c	local
		S	21 53.5	
	A	P	19 22 06.5	
	HB	P	19 22 05.0	
31	V	iP	19 22 56.5 c	local
		S	23 00.5	
	A	P	19 23 14.5	
	HB	P	19 23 12.6	
31	V	iP	19 26 18.5 c	local

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Seismologist

November, 1952

DATE	STN	PHASE	h m s	REMARKS
1	V		23 58 08	9600 km Fiji Islands
4	V	eP	17 06 55	5250 km Kamhatka M=8 1/4
		iP	07 07	φ=52 1/2N λ=159E
		i	08 12	
		eS	14 03	
		iS	15 00	
		iL	18 08	
		i	18 44	
		i	19 51	
	A	P	17 06 54.5	
		e	29 22.5	
		e	45 03.8	
		e	47 10.8	
	HB	P	17 07 04	
	S	iP	17 08 04	
		i	09 50	
		iS	15 15	
		L	19 30	
4	V	P	17 45 06	
4	V	P	18 37 25	Kamchatka
	A	P	18 37 16	
4	V	iP	19 49 14 d	Kamchatka
4	V	P	20 57 35	Kamchatka
	A	P	20 57 26	
4	V	P	21 09 26	Kamchatka
4	V	P	21 38 54	
4	V	iP	22 01 36 d	Kamchatka
4	V	iP	22 21 23 d	Kamchatka
4	V	P	22 25 35	
4	V	P	22 27 50	
4	V	P	22 40 45	
4	V	iP	23 37 48 d	Kamchatka
4	V	P	23 50 01	
5	V	P	00 19 29	
5	V	P	00 25 08	
5	V	P	00 52 50	
5	V	P	02 28 51	Kamchatka
5	V	P	03 38 24	Kamchatka
5	V	P	04 19 28	
5	V	P	04 24 15	
5	V	P	06 06 47	Kurile Islands

November, 1952

DATE	STN	PHASE	h m s	REMARKS
5	V	P	07 14 52	
5	V	P	09 07 10	
5	V	P	09 38 37	
5	V	P	11 43 16	Kamchatka
5	V	P	11 55 26	Kamchatka
5	V	P	14 35 00	
5	V	P	14 57 35	
5	V	P	16 49 56	
5	V	P	19 16 46	Kamchatka
5	V	P	19 21 07	
5	V	P	19 43 58	
5	V	P	20 39 19	Kamchatka
5	V	P	21 17 25	
5	V	P	22 03 01	
5	V	P	22 54 45	
	S	L	23 13 30	
6	V	P	01 07 02	
6	V	P	02 32 22	
6	V	P	04 03 08	Kamchatka
6	V	P	05 57 37	
	S	L	06 09	
6	V	P	11 05 47	Kamchatka
6	V	P	14 15 18	
6	V	P	14 30 41	
6	V	P	17 58 30	
6	V	P	19 54 33	Kamchatka
6	V	P	20 00 42	10450 km New Guinea
	S	eP	20 02 56	
		L	20 11	
6	V	P	20 59 36	
6	V	P	21 28 17	
6	V	P	22 39 57	
6	V	P	23 37 42	
7	V	P	00 23 06	

DATE	STN	PHASE	h m s	REMARKS
7	V	P	01 19 27	
7	V	P	02 30 48	
7	V	P	03 14 58	
7	V	P	04 04 04	
7	V	P	05 24 46	
7	V	P	06 00 17	
7	V	P	06 34 33	
7	V	P	06 58 32	
7	V	P	07 35 47	
7	V	P	07 50 54	
7	V	P	11 16 13	
7	V	P	12 17 39	Kamchatka
7	V	P	13 50 14	Kamchatka
7	V	P	14 17 24	Kamchatka
	S	e	14 26 04	
7	V	P	15 49 44	
7	V	P	17 03 07	
7	V	P	18 50 59	
7	V	P	19 30 06	
7	V	P	21 00 21	2600 km California
		S	04 49	
		L	07 25	
	S	P	21 05 06	
		i	05 15	
		L	09.2	
7	V	P	22 14 33	Kurile Islands
	S	e	22 23 16	
		L	39	
7	V	P	23 25 19	10250 km Kermadec Islands
8	V	P	00 49 35	
8	V	P	02 23 32	
8	V	P	04 23 32	
8	V	P	04 38 33	
8	V	P	05 08 28	
8	V	P	15 45 20	
8	S	P	19 55 00	Kurile Islands
		L	20 05.5	
8	V	P	22 34 31	

DATE	STN	PHASE	h m s	REMARKS
8	V	P	23 40 57	
9	V	iP	00 31 20 c	Kurile Islands
9	V	P	01 26 10	Kamchatka
9	V	P	01 45 34	
9	V	P	04 44 04	Kamchatka
9	V	P	05 07 25	
9	V	P	05 14 59	Kamchatka
	S	L	05 31	
9	V	iP	05 41 12 c	Kamchatka
9	V	iP	06 05 51 d	Kamchatka
9	V	P	15 31 39	
9	V	P	16 10 57	
9	V	P	16 56 29	
9	V	P	20 50 58	
10	V	iP	01 03 47 d	Kamchatka
10	V	P	03 36 40	
10	V	P	05 33 30	
10	V	P	06 14 47	
10	V	P	20 35 05	Kamchatka
10	V	P	22 54 30.7	local
		S	50.2	
	A	P	22 54 48.8	
		S	55 22.9	
	HB	P	22 54 40.4	
		S	55 07.6	
13	V	P	08 07 37	5450 km Kamchatka
	S	e	08 16.2	
		S	23.5	
15	V	P	05 07 30	
16	V	P	02 56 49	
16	V	P	04 19 14	
17	V	P	12 12 24	
18	V	P	07 51 19	
18	V	P	08 22 22	Kamchatka
18	V	P	08 51 27	Kamchatka

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DATE	STN	PHASE	h m s	REMARKS
19	V	iP	07 39 26 c	Fiji Islands
19	V	P	12 28 03.2	local
		S	17.7	
	A	P	12 28 00.9	
		S	28 10.5	
	HB	P	12 28 10.4	
		S	17.6 ?	
20	V	iP	15 45 46 d	5150 km Nicaragua
20	V	P	21 31 42.8	local
		S	32 07.8	
	A	P	21 31 45.7	
		S	53.7	
	HB	P	21 31 45.2 ?	
21	S	L	17 44.2	Alaska
21	V	P	19 53 34.7	local
		S	49.3	
	HB	P	19 53 15.7	
		S	35.6	
21	V	P	21 34 29.6	local
		S	33.9	
	A	P	21 34 46.6	
		S	35 05.1	
	HB	P	21 34 44.1	
			35 00.1	
21	V	P	21 35 56.2	local
		S	36 00.3	
	A	P	21 36 13.1	
		S	30.6	
	HB	P	21 36 10.6	
			25,6	
21	V	P	21 36 31.8	local
		S	36.0	
	A	P	21 36 48.6	
		S	37 16.6	
	HB	P	21 36 45.9	
		S	37 01.6	
21	V	P	21 37 20.5	local
		S	24.4	
	A	P	21 37 37.6	
		S	54.0	
	HB	P	21 37 35.1	
		S	50.3	
21	V	P	21 37 35.1	local
		S	40.0	
22	V	P	07 49 43	1450 km California
	S	iP	07 51 02	
		iS	54 45	
		L	56.5	

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DATE	STN	PHASE	h	m	s	REMARKS
23	V	P	00	16	50.7	local
	A	P	00	16	51.1	
	HB	P	00	16	43.7	
		S			49.0 ?	
24	V	iP	00	22	53 d	
24	V	P	02	26	21	
24	V	P	07	57	18	
24	A	P	20	46	36.9	local
		S			49.5	
24	V	iP	21	44	24 d	
24	V	P	22	24	09	
24	V	P	23	17	46.7	local
		S			57.7	
	A	P	23	17	38.4	
		S			43.2	
	HB	P	23	17	24.4 ?	
		S			46.2	
26	V	P	06	30	21.2 ?	local
		S			40.7	
	A	P	06	31	09.1	
		S			25.1	
	HB	P	06	31	03.3	
		S			14.9	
26	V	P	13	33	46	
26	V	P	23	14	45	
27	V	P	07	34	19	10400 km Afghanistan
27	V	P	15	26	14	
28	V	P	01	22	43	6100 Panama
28	V	P	08	14	10	Kamchatka
28	V	P	21	14	16	9800 Solomon Islands
29	V	P	08	31	09	5150 Kamchatka
		PP		33	14	
		S		37	57	
		SS		44.8		
		L		43.3		
	S	P	08	32	31	
		S		39	22	
		e		41	37	
		L		45.8		
29	V	P	23	51	05	2300 Alaska
		S		54	47	
		L		55.7		
	S	P	23	52	29	
		S		56	57	
		L		59.2		

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DATE	STN	PHASE	h m s	REMARKS
3	V	P	00 39 48	
4	V	iP	03 58 37 d	4050 km Aleutians
6	S	i	10 59 22	Solomon Islands
		e	11 08.4	
		i	09 23	
		e	14.1	
		e	16.2	
		L	23.5	
7	V	P	00 57 44	4300 km Aleutians
	S	i	00 58 45	
		e	01 05 30	
		L	01 12.0	
8	V	P	16 41 17.8	local
		S	35.3	
	HB	P	16 41 28.2	
		S	53	
9	A	P	09 20 30.7	local
		i	09 20 36.6	
		i	09 20 39.4	
10	S	P	06 16 19	5800 Jan Mayen Island
		L	19.7	
10	V	P	13 55 19.0	local
		S	21.8	
		S	48.8	
	A	P	13 55 16.2	
	A	S	13 55 39.2	
	HB	P	13 55 07.2	
		S	24.8	
11	V	P	08 07 18	
11	S	e	09 16 02	Kurile Islands
		L	09 24.5	
12	V	P	00 52 31	2350 km Alaska
	S	e	00 58.8	
		L	01 03.1	
12	A	P	17 36 13.1	local
		S	37.1	
12	V	P	20 40 41	
16	V	P	05 43 40.9	local
		S	46.8	
16	V	P	23 32 52	
17	V	P	05 25 56	
17	V	iP	23 17 10 c	10200 km Crete
		S	27 42	
		L	49	
	S	P	23 16 29	
		S	26 42	
		L	45.5	

December, 1952

DATE	STN	PHASE	h	m	s	REMARKS
18	V	P	09	28	47	Kamchatka
18	V	P	10	39	25	
18	V	P	23	23	58	
20	V	P	04	14	17	Kamchatka
21	V	P	01	25	13	Bismarck Sea
22	V	iP	22	33	06 d	5050 km Kamchatka
	S	e	22	41	07	
		L		49		
23	V	P	23	10	31	
24	V	P	08	46	31	10000 km New Britain
24	V	P	15	58	27	Kamchatka
24	V	P	18	52	39	10000 km New Britain
		L	19	21		
	S	e	19	05	27	
		L	19	21		
26	V	P	11	26	48	Fiji Islands
26	V	P	21	35	47.6	local
		S		36	04.1	
	A	? S	21	36	36.2	
	HB	P	21	35	53.9	
		S		36	20.7	
28	S	L	05	12.5		Seward Peninsula

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