

THE PENNSYLVANIA STATE UNIVERSITY
MINERAL INDUSTRIES EXPERIMENT STATION
GEOPHYSICAL LABORATORY

Seismograph Report XVIII

1 July to 31 December 1952

School of Mineral Industries
State College, Penna., U. S. A.

Locality: The station is located in a vault under the central wing of the School of Mineral Industries Building. The instruments are mounted on a concrete pillar separated from the foundations and anchored to bedrock (dolomite). The geographic coordinates are:

$\phi - 40^{\circ} 48' N$ $\lambda - 77^{\circ} 52' W$ $H - 354 m$

The geocentric coordinates are (according to Gutenberg and Richter):

$A - 40^{\circ} 36' N$ $\lambda - 77^{\circ} 52' W$ $H - + 3 km.$

Please address all communications to:

Geophysical Laboratory
Mineral Sciences Bldg.
State College, Pennsylvania.

DEC 15 1961

Ex change

From 1 July to 28 October 1952 three seismographs were in operation. The vertical and north - south components were recorded photographically, the east - west motion was recorded by a pengalvanometer. The recording rate was 1.5 cm. per minute on the photographic recorder, 1.7 cm. per minute on the pen recorder. The free periods of the instruments were:

North - South	16.8 sec.
East - West	17.1 sec.
Vertical	1.86 sec.

No checks of damping and sensitivity of the instruments as adjusted during this period have been made.

F. Schaefer
On 28 October 1952 a new photographic recording drum which runs at a rate of 1.55 cm. per minute was installed to record the north-south and vertical motions. Frequent stoppages for adjustment of the new recorder occurred until 19 November. On December 10 a new galvanometer was installed in the north - south recorder. On 16 December it was shifted to the vertical instrument. During all this period there were frequent stoppages of all instruments. Although the free periods of the seismometers were unchanged, the damping and sensitivity of the recorders underwent frequent adjustment.

OCT 25 1951
The time is controlled by a Stromberg clock, which is compared daily with signals from radio station WWV. The time accuracy of the records is estimated to be about ± 1 second.

Note error in report XVII: During the first six months of 1952 it was the east-west seismometer, not the north-south, which was recorded using the pen-galvanometer.

Date	Phase and component	G.M.C.T.	Remarks
13 July '52		E	Seismic activity starting at 17:56:___
17 July '52		E,Z	Seismic activity recognizable at 16:33:___
21 July '52	iP iPP i i i i i PcP (?) i S e L	E,Z 11:58:56 Z 12:00:02 Z 12:00:43 Z 12:01:09 Z 12:01:26 Z 12:01:32 Z 12:01:44 E 12:04:10 E 12:05:4_	Epicenter: 35.1°N, 118.9°W O = 11:52:11.5 Δ = 3650 km. Tulare Valley, Southern California. Courtesy U.S.C.G.S.
21 July '52	i P i e e PcP (?) e	Z 19:58:40 Z 19:59:00 E 20:00:12 E 20:00:50 E 20:01:16	Epicenter: 35.5°N, 118.5°W O = 17:42:47 Southern California aftershock Courtesy U.S.C.G.S. Δ = 3640 km
23 July '52	i P e S	Z 00:45:01 E 00:50:22	Epicenter: 35.1°N, 118.9°W O = 00:38:33 Δ = 3650 km Tulare Valley, Southern California Courtesy U.S.C.G.S.
23 July '52	i P e S e	Z 13:23:43 E 13:29:07 Z 13:34:29	Epicenter: 35°N, 11°W O = 13:17:02 Southern California aftershock. Courtesy: U.S.C.G.S. Δ = 3650 km
24 July '52	i P e e e e S	Z 22:22:10 Z 22:22:24 Z 22:22:33 Z 22:23:12 E 22:32:35	Epicenter: 42.5°N, 145.5°E O = 22:09:20 Depth about 60km. Δ = 9750 km Off east coast of Hokkaido, Japan Courtesy U.S.C.G.S.
25 July '52	e P e S e	Z 19:16:20 Z 19:21:18 Z 19:27:17	Epicenter: 35°N, 119°W O = 19:09:42 Southern California aftershock Courtesy U.S.C.G.S. Δ = 3600 km.

25 July '52	eP e	Z Z	19:49:49 19:51:10	Epicenter: 35°N, 118.5°W O=19:43:20 Southern California aftershock Courtesy U.S.C.G.S. Δ=3,600 km.
27 July '52	iPP eSKS e e eSP ePS	E,Z E E,Z E Z Z	08:41:48 08:46:58 08:48:00 08:50:34 08:50:40 08:51:42	Epicenter: 20.5°S, 179°W O=08:23:22 Δ=12,400 km Depth about 500 km Fiji Islands Courtesy U.S.C.G.S.
29 July '52	iP e eS eScS(?) e	Z Z E Z E	07:10:21 07:10:24 07:15:30 07:20:52 07:21:22	Epicenter: 35°N, 119°W O=07:03:45 Southern California Courtesy U.S.C.G.S. Δ=3,550 km
31 July '52		E		Seismic activity between 1200 and 1300
15 Aug '52		E		Seismic activity between hours of 0000 and 0200
16 Aug '52		E		Seismic activity between hours of 1400 and 1600
17 Aug '52	eP(?) ePP eS	Z Z E	16:20:10 16:21:04 16:28:34	Epicenter: 30.5°N, 91.5°E O=16:02:05 Δ=12,000 km Eastern Tibet Courtesy U.S.C.G.S.
18 Aug '52	iP e e e es	Z Z Z Z E	13:16:16 13:16:34 13:16:39 13:17:20 13:25:20	Epicenter: Central Chile Argentina border region O=13:04:50 Courtesy U.S.C.G.S. Δ=8,000 km
20 Aug '52	iP ePP e e eS	E,Z Z E,Z E E,Z	15:32:06 15:33:31 15:34:04 15:37:34 15:37:55	Epicenter: 43°N, 127°W O=15:24:59 Δ=4000 km Off Coast of Oregon Courtesy U.S.C.G.S.
22 Aug '52		N,E		Seismic activity recognizable about 2300

9 Sept '52	iP	Z 13:01:12	Epicenter: 9°N, 84.5°W O=12:54:42 Δ=3550 km Near Coast of Costa Rica Courtesy U.S.C.G.S.
11 Sept '52		E	Seismic activity observed between 2300 and 0100
21 Sept '52	iP i iPcP ipP i isP is i i isS	E,Z 02:40:44 Z 02:40:54 Z 02:41:17 Z 02:41:47 Z 02:42:02 Z 02:42:22 E 02:48:54 E 02:48:58 E 02:49:02 E 02:50:43	Epicenter: 22;5°S, 65°W O=02:30:30 Argentina - Boliva border. Courtesy U.S.C.G.S. Δ=7,100 km Depth = 300 km
22 Sept '52		E	Seismic activity recogni- zable at 12:00 -
24 Sept '52	eSS	E 20:49:34	Epicenter: 56.5°N, 157°W O=20:29:30 Depth=about 100 km Δ=5750 km Near South Coast of Alaska Peninsula Courtesy U.S.C.G.S.
30 Sept '52	M	12:52:00	Epicenter: 28 1/2°N, 102°E O=12:52:00 Δ=12,300 km Szechwan Province, China Courtesy U.S.C.G.S.
1 Oct '52		E	Seismic Activity between 1000 and 1200
3 Oct '52	iP i e e eS	Z 07:43:41 Z 07:43:48 Z 07:44:14 Z 07:45:03 E 07:49:22	Epicenter: 6.5°N, 83°W O=07:36:45 Off South Coast of Panama Courtesy U.S.C.G.S. Δ=3,800 km
6 Oct '52		E	Seismic activity recognizable at 00:06:-

10 Oct '52	M	E	16:52:49	Epicenter: Samea Islands region O=15:55:35 Courtesy U.S.C.G.S. $\Delta=11,400$ km
10 Oct '52	M	E	19:46:20	Epicenter: 30.5°N, 69°E O=18:47:37 $\Delta=11,400$ km Central Pakistan Courtesy U.S.C.G.S.
14 Oct '52	.	E		Seismic activity recognizable at 00:30:-
14 Oct '52	eS	Z	22:07:33	Epicenter: 48°N, 70°W
	i	Z	22:08:03	O=22:03:41
	i	Z	22:08:28	Southeastern Quebec, Canada
	i	Z	22:08:45	Courtesy U.S.C.G.S.
	i	Z	22:09:27	$\Delta=1000$ km
	i	Z	22:09:54	
	i	Z	22:10:06	
	i	Z	22:10:50	
14 Oct '52	eP	Z	00:02:43	Epicenter: 8.5°N, 83°W O=23:56:03 $\Delta=3550$ km Near South Coast of Costa Rica Courtesy U.S.C.G.S.
18 Oct '52	e(S?)	E	05:49:00	Epicenter: 16°S, 168°E O=05:22:32 $\Delta=13,150$ km New Hebrides Courtesy U.S.C.G.S.
18 Oct '52	iP	Z	12:05:04	Epicenter: 13°N, 46°W
	i	Z	12:05:24	O=11:57:36
	i	Z	12:06:08	$\Delta=4250$ km
	ePP	Z	12:06:34	Atlantic Ocean
	iS	E	12:11:11	Courtesy U.S.C.G.S.
18 Oct '52	.	E		Seismic activity recognizable at 21:29:12
20 Oct '52	iP	Z	01:09:24	Epicenter: 57°N, 57°W
	eS	E	01:13:24	O=01:04:35 Off Coast of Labrador Courtesy U.S.C.G.S. $\Delta=2400$ km
21 Oct '52	.	E		Surface waves recognizable at 02:29:-

21 Oct '52	M	E	02:50:19	Epicenter: 9.5°N, 84.5°W O=02:30:46 Δ=3500 km Near Coast of Costa Rica Courtesy U.S.C.G.S.
21 Oct '52		E		Surface waves recognizable at 06:53:-
22 Oct '52		E		Seismic activity recognizable at 20:02:-
25 Oct '52		E,Z		Seismic activity recognizable at 14:47:-
26 Oct '52	eSS eSSS e	E	15:00:10 15:04:01 15:40:15	Epicenter: 40°N, 143.5°E O=14:30:04 Off Northeast Coast of Honshu, Japan Courtesy U.S.C.G.S. Δ=10,200 km
26 Oct '52	eS	E	18:26:11	Epicenter: 39°N, 143°E O=18:02:00 Δ=10,200 km Off East Coast of Honshu, Japan Courtesy U.S.C.G.S.
27 Oct '52	e e	E	03:23:03 03:41:23	(Seismic ?)
28 Oct '52	iP eS	E,Z	04:34:57 04:39:00	Epicenter: 18.5°N, 73.5°W O=04:29:51 Haiti Courtesy U.S.C.G.S. Δ=2550 km
28 Oct '52	eS	E	06:55:12	Epicenter: 40°N, 144°E O=06:31:04 Δ=10,050 km Off East Coast Honshu, Japan Courtesy of U.S.C.G.S.
29 Oct '52	eS	E	19:59:43	Epicenter: 17°S, 174°W O=19:34:14 Δ=11,700 km Depth=about 150 km Tonga Islands Courtesy U.S.C.G.S.

-6-
E 17:01:31

31 Oct '52

eS

Epicenter 39°N, 143°E
O=16:37:14
Δ= 10,200 km
Off East Coast Honshu,
Japan
Courtesy U.S.C.G.S.

4 Nov '52

iP
i
i
i
iPP
i
iPPP
i
i
iS
iSS
i
eL

N,E,Z, 17:10:03
E 17:10:10
N 17:10:18
E 17:12:32
E 17:12:57
E 17:13:14
E 17:14:40
E 17:15:46
E 17:17:10
N,E 17:19:30
E 17:24:19
E 17:25:21
E 17:28:52

Epicenter: 52.5N, 159E
O=16:58:20
Δ=8300 km
Near east coast of
Kamchatka.
Courtesy U.S.C.G.S.

4 Nov '52

iP

Z 18:40:30

Near east coast of
Kamchatka
O=18:28:52
Courtesy U.S.C.G.S.
Δ=8,300 km
Pulses obscured by
surface waves of
previous quake.

4 Nov '52

iP
e
i

Z 19:53:24
Z 19:52:37
Z 19:53:02

Near east coast of
Kamchatka
O=19:40:41
Courtesy U.S.C.G.S.
Δ=8,300 km
Pulses obscured by
surface waves of
previous quake.

4 Nov '52

iP
i
i
i
i

Z 21:00:42
Z 21:00:47
Z 21:01:13
Z 21:01:26
Z 21:02:14

Epicenter 50°N, 157°E
O=20:48:53
Near South Coast of
Kamchatka
Δ=8,500 km
Courtesy U.S.C.G.S.

4 Nov '52

iP
i
iS

Z 21:12:34
Z 21:12:46
N 21:22:06

Epicenter: 52:5°N, 159.5°E
O=21:00:53
Kamchatka aftershock
Courtesy U.S.C.G.S.
Δ=8350 km

4 Nov '52 iP Z 22:04:43 Epicenter: 50 N, 158.5°E
 e Z 22:05:01 O=21:52:50
 South Coast of
 Kamchatka
 Courtesy U.S.C.G.S.
 Δ=8,600 km
 EW and NS components
 obscured by surface waves
 of earlier quake.

4 Nov '52 iP Z 22:24:35 Epicenter: 52°N, 161°E
 i Z 22:24:38 O=22:12:54
 i Z 22:24:46 Kamchatka aftershock
 e Z 22:25:06 Courtesy U.S.C.G.S.
 Δ=8,300 km

4 Nov '52 iP Z 23:40:55 Epicenter: 50°N, 158°E
 i Z 23:41:02 O=23:28:58
 Off South Coast of
 Kamchatka.
 Courtesy U.S.C.G.S.
 Δ=8,600 km
 EW and NS components
 obscured by surface
 waves of other quake

5 Nov '52 iP N,Z 02:31:55 Epicenter: 50.5°N, 157°E
 i N,Z 02:32:11 O=02:19:58
 i Z 02:32:21 Near South Coast
 i Z 02:32:32 of Kamchatka
 ePP Z 02:34:54 Courtesy U.S.C.G.S.
 iS N,E 02:41:41 Δ=8,600 km
 e N,E 02:42:13
 ePPS N,E 02:42:45

5 Nov '52 iP Z 03:41:36 Epicenter: 51°N, 159°E
 i Z 03:41:44 O=03:29:44
 i Z 03:42:04 Near Southeast Coast
 eS N,E 03:51:19 of Kamchatka
 e N 03:51:52 Courtesy U.S.C.G.S.
 Δ=8,500 km

5 Nov '52 iP Z 06:09:51 Epicenter: 49°N, 156°E
 i Z 06:10:03 O=05:57:43
 i Z 06:10:33 Kurile Islands
 iS N,E 06:19:45 Courtesy U.S.C.G.S.
 e N 06:20:08 Δ=8,900 km
 i(ScS?) N 06:20:30

5 Nov '52	iP i	Z Z	11:46:24 11:46:36	Epicenter: 51.5°N, 159°E O=11:34:37 Off Southeast Coast of Kamchatko Δ=8,500 km
5 Nov '52	iP	Z	11:58:32	Epicenter: 50°N, 157°E O=11:46:34 Off South Coast of Kamchatka Courtesy U.S.C.G.S. Δ=8,700 km
5 Nov '52	iP i i i iS i	N,Z Z Z Z N,E N	13:18:08 13:18:14 13:18:42 13:19:12 13:27:40 13:28:16	Epicenter: 52°N, 159.5°E O=13:06:24 Kamchatka after shock Courtesy U.S.C.G.S. Δ=8,400 km
5 Nov '52	iP	Z	15:00:41	Epicenter: 50°N, 156.5°E O=14:48:41 Off South Coast of Kamchatka Courtesy U.S.C.G.S. Δ=8700 km
5 Nov '52	iP e eS e	Z Z N,E N,E	19:20:16 19:21:06 19:30:00 19:30:16	Epicenter: 53.5°N, 161.5°E O=19:08:26 Off East coast of Kamchatka Courtesy U.S.C.G.S. Δ=8,600 km
5 Nov '52	eP i	Z Z	20:42:26 20:42:34	Epicenter: 49°N, 159°E O=20:30:22 Off South Coast of Kamchatka. Courtesy U.S.C.G.S. Δ=8,700 km
5 Nov '52		Z		Seismic activity recog- nizable at 22:57: -
6 Nov '52	-	N,E		Seismic activity recog- nizable at 06:20:-
6 Nov '52	iP e eS eL	Z Z N,E N	19:57:48 19:58:13 20:07:22 20:16:56	Epicenter: 51.5°N, 159.5°E O=19:45:57 Off Southeast Coast of Kamchatka Courtesy U.S.C.G.S. Δ=8,500 km

9 Nov '52	iP	Z	01:29:20	Epicenter: 52 1/2°N, 160°E O=01:17:39 Near E. Coast Kamchatka Courtesy U.S.C.G.S. Δ=8,400 km
9 Nov '52	iP	E,Z	05:18:01	Epicenter: 53 1/2°N, 159 1/2°E O=05:06:29 Near East Coast Kamchatka Courtesy U.S.C.G.S. Δ=8,200 km
9 Nov '52	eP	Z	05:44:16	Epicenter: 49 1/2°N, 156 1/2°E O=05:32:15 Off South Coast of Kamchatka Courtesy U.S.C.G.S. Δ=8,800 km
9 Nov '52	iP	Z	06:08:56	Epicenter: 49°N, 157°E O=05:56:54 Off South Coast Kamchatka Courtesy U.S.C.G.S. Δ=8,800 km
9 Nov '52		N,Z		Seismic activity recognizable between 1500 and 1600
9 Nov '52		N,E		Seismic activity recognizable at 21:22:-
10 Nov '52	iP e i eS	N,Z Z Z N,Z	01:06:56 01:07:08 01:07:45 01:16:40	Epicenter: 50°N, 158.5°E O=00:55:00 Off South Coast of Kamchatka. Courtesy U.S.C.G.S. Δ=8,600 km
10 Nov '52		N,Z		Seismic activity recognizable at 06:18:-
10 Nov '52		N,E		Seismic activity recognizable at 10:30:-
10 Nov '52	iP i	N,Z Z	20:38:15 20:38:23	Epicenter: 53.5°N, 160°E O=20:26:40 Near East Coast of Kamchatka. Courtesy U.S.C.G.S. Δ=8,200 km

11 Nov '52		N,E		Seismic activity recognizable between 0100 and 0200.
11 Nov '52		N,E		Seismic activity recognizable between 2000 and 2100
13 Nov '52	iP	Z	08:10:39	$\Delta=8,600$ km
	i	Z	08:10:50	
	i	Z	08:11:25	
	eS	N,E	08:20:23	
	e	E	08:20:50	
	e	N	08:21:28	
13 Nov '52		E		Seismic activity recognizable at 16:01:-
13 Nov '52		E		Seismic activity recognizable at 22:10:-
15 Nov '52	i	Z	05:11:33	(Seismic?)
	i	Z	05:11:55	
	i	Z	05:12:17	
16 Nov '52		E		Seismic activity recognizable between 04:50:- and 05:11:-
16 Nov '52		E		Seismic activity recognizable between 08:48:- and 09:25:-
18 Nov '52	iP	Z	08:25:26	Epicenter: 49.5°N,
	i	Z	08:25:36	156.5°E
	i	Z	08:25:55	Off South Coast
	i	Z	08:26:39	of Kamchatka
				Courtesy U.S.C.G.S.
				$\Delta=8,800$ km
19 Nov '52		N,Z		Seismic activity recognizable between 18:55:- and 19:15:-
20 Nov '52		Z		Seismic activity observed from 04:03:- to 04:19:-
20 Nov '52		Z		Seismic activity observed from 13:50:- to 14:00:-

20 Nov '52

iP
epP
esP
ePP
e
i
ePcP
iS
esS
i
iScP

N,Z 15:43:24
Z 15:43:36
Z 15:43:50
N,Z 15:44:16
Z 15:44:26
N 15:44:34
Z 15:46:28
N 15:48:16
N 15:48:43
N 15:49:24
N 15:49:49

Epicenter: 12.5°N, 88°W
O=15:37:17
Depth=60 km
Off Coast of Nicaragua
Courtesy U.S.C.G.S.
Δ=3,300 km

22 Nov '52

ePP

Z 07:54:44

Epicenter: 35.8°N,
121.1°W
O=07:46:37
Δ=3,850 km
San Luis Obispo County,
California
Courtesy U.S.C.G.S.

26 Nov '52

iP
i
i

Z 13:36:56
Z 13:37:04
Z 13:37:15

Epicenter: 53°N, 160°E
O=13:25:18
Δ=8,300 km
Near East Coast of
Kamchatka.

29 Nov '52

iP
ePP
ePPP
eS

N,Z 08:34:22
N 08:37:14
E 08:39:04
N,E 08:43:51

Epicenter: 53°N, 160°E
O=08:22:34
Near East Coast of
Kamchatka.
Courtesy U.S.C.G.S.
Δ=8,400 km

29 Nov '52

eP
i
i
e
iPP
eS
eScS

Z 23:55:24
Z 23:55:52
Z 23:56:11
Z 23:56:22
Z 23:57:24
N,E 00:02:27
N 00:05:11

Epicenter: 56°N, 155°W
O=23:46:25
Off South Coast of
Alaska Peninsula
Courtesy U.S.C.G.S.
Δ=5,600 km

30 Nov '52

iP
eS

Z 19:40:30
N,E 19:50:00

Epicenter: 52.5°N, 159°E
O=19:28:44
Near East Coast
of Kamchatka.
Courtesy U.S.C.G.S.
Δ=8,400 km

1 Dec '52

E

Weak seismic activity
observed from 00:59:-
to 01:18:-

2 Dec '52		E		Seismic activity observed from 09:17:- to 09:37:-
3 Dec '52		E		Seismic activity observed from 01:03:- to 01:25:-
4 Dec '52	iP isP iPP eS esS	Z Z Z N,E,Z N,E	04:02:22 04:03:02 04:04:45 04:10:56 04:11:39	Epicenter: 52°N, 178°E O=03:51:25 Depth=about 100 km Δ=7,350 km Rat Islands, Aleutian Islands. Courtesy U.S.C.G.S.
4 Dec '52		E		Seismic activity recognizable from 11:31:- to 12:07:-
5 Dec '52		E		Seismic activity recognizable at 07:19:-
6 Dec '52	eP' iPP e e(SKs?) ePS e i iSS	Z Z Z N,E N,E E N N,E	11:00:28 11:02:11 11:04:14 11:07:19 11:11:53 11:14:08 11:14:10 11:18:47	Epicenter: 8°S, 157°E O=10:41:14 Solomon Islands Courtesy U.S.C.G.S. Δ=13,700 km
6 Dec '52		N,E		Seismic activity recognizable at 21:55:-
7 Dec '52	iP iS	Z N,E	01:01:18 01:10:19	Epicenter: 53°N, 172.5°E O=00:50:12 Near Islands, Aleutian Islands Courtesy U.S.C.G.S. Δ=7,600 km
7 Dec '52		E		Seismic activity observed from 17:12:- to 17:33:-
7 Dec '52		E		Seismic activity observed from 21:36:- to 21:53:-
8 Dec '52		E		Seismic activity observed from 16:13:- to 16:30:-

10 Dec '52	iP i i ePP i ePPP (late) eS i	N,Z Z Z Z Z N E N	06:06:32 06:07:03 06:07:08 06:08:17 06:08:26 06:09:11 06:13:02 06:13:32	Epicenter: 71°N, 7°W O=05:58:06 Δ=5,050 km Jan Mayen Island region Courtesy U.S.C.G.S.
10 Dec '52		N,E		Seismic activity observed from 09:00:- to 09:18:-
11 Dec '52	iP i i e iPP e i iS i,e e i	Z N Z Z N Z N N N,E N N	09:10:21 09:10:22 09:10:24 09:11:18 09:13:24 09:13:39 09:17:28 09:20:06 09:20:13 09:22:34 09:25:56	Epicenter: 49°N, 155°E O=08:58:18 Depth = about 60 km Δ=8,700 km Kurile Islands Courtesy U.S.C.G.S.
12 Dec '52		E		Seismic activity recognizable between 01:08:- and 01:48:-
14 Dec '52	i e	Z Z	10:43:59 10:44:55	Epicenter: 19°N, 69°W O=10:38:39 Δ=2,500 km Courtesy U.S.C.G.S. Pulses on other records obscured by microseisms
17 Dec '52	iP e iS i eSS	N,Z Z N,E N N	23:15:49 23:17:15 23:25:27 23:27:11 23:30:18	Epicenter: 34.5°N, 24°E O=23:03:58 Δ=8,400 km Near South Coast of Crete Courtesy U.S.C.G.S.
18 Dec '52	e(P?)	Z	09:32:01	Epicenter: 53.5°N, 162°E O=09:20:28 Off East Coast of Kamchatka Courtesy U.S.C.G.S. (Δ=8,200 km?)

22 Dec '52	iP eS e	Z 23:36:16 E 23:45:38 E 23:46:16	Epicenter: 54°N, 160.5°E O=22:24:42 Δ=8,100 km Near East Coast of Kamchatka Courtesy U.S.C.G.S.
24 Dec '52		E	Seismic activity recognizable at 09:45:-
24 Dec '52	iP i e(PS?)	Z 18:58:41 Z 19:01:20 E 19:10:03	Epicenter: 5.5°S, 151.5°E O=18:39:33 Δ=13,650 km New Britain Courtesy U.S.C.G.S.
24 Dec '52		E	Seismic activity recognizable from 22:40:- to 23:15:-
25 Dec '52		E	Seismic activity recognizable at 03:30:-
25 Dec '52		E	Seismic activity recognizable at 23:20:-
27 Dec '52	iP i eS	Z 01:37:34 E 01:38:35 E 01:47:12	Epicenter: 53°N, 160°E O=01:25:54 Near East Coast of Kamchatka Courtesy U.S.C.G.S. Δ=8,300 km
28 Dec '52	iP iSS	Z 05:04:29 Z 05:15:36	Epicenter: 65.5°N, 167.5°W O=04:55:06 Δ=5,900 km Near West Coast of Seward Peninsula, Alaska Courtesy U.S.C.G.S.
28 Dec '52		E	Seismic activity recognizable from 16:05:- to 16:55:-
29 Dec '52	iP i i eS	Z 02:21:15 Z 02:21:32 Z 02:21:39 E 02:31:14	Epicenter: 49°N, 158°W O=02:09:13 Off South Coast of Kamchatka Courtesy U.S.C.G.S. Δ=8,700 km
30 Dec '52	iP eS e	Z 12:13:25 E 12:18:32 E 12:24:00	Epicenter: 10.5°N, 84°W O=12:07:02 Δ=3,460 km Costa Rica Courtesy U.S.C.G.S.

