Seismological Bulletin 1958

Uppsala: 59° 51.5′ N, 17° 37.6′ E
Kiruna: 67° 50.4′ N, 20° 25.0′ E
Skalstugan: 63° 34.8′ N, 12° 16.8′ E
Göteborg: 57° 41.9′ N, 11° 58.7′ E

By

Markus Båth

Published by the Seismological Institute, Uppsala

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HÅKAN OHLSSONS BOKTRYCKERI
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Uppsala (abbreviated Up in the bulletin)

Location and ground: 59°51.5′N, 17°37.6′E; 14 m above mean sea level; granite.

Instruments: Wiechert 1000 kg pendulum E,N; Benioff variable reluctance E,N,Z (long-period) and E′,N′,Z′ (short-period); Press-Ewing E,N and Sprengnether Z (ultralong-period).

Instrumental constants for 1958:

a) Wiechert

T_0=seismograph free period,
V =static magnification,
ε =damping ratio,
r =max. deviation due to friction.

Instrument	Date 1958	T_0 sec	V	ε	r mm
Wiechert E	Jan 2	10.6	186	4.3	1.0
	July 12	10.8	187	4.7	1.0
Wiechert N	Jan 2	9.5	185	3.8	1.0
	July 12	9.7	185	4.1	1.1

Concerning the method of determination, see Wiechert (1903).

b) Benioff

T_0 =seismometer free period,
T_g =galvanometer free period,
l_0 =recording distance (from galvanometer lense to record),
$2\,\sigma_g l_0$=transference factor, where σ_g=a quantity depending on the electrodynamic properties of the transducer and the galvanometer (Benioff, 1932; Chakrabarty, 1949; Båth, 1959).
V_{max}=maximum dynamic magnification.

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V_{max}=maximum dynamic magnification.

Instrument	Date 1956	T_0 sec	T_g sec	$2\sigma_g l_0$ sec^{-1}	V_{max}
Benioff E	Feb 7	1.0	87	2.509×10^4	2000
» N	Feb 7	1.0	85	3.705×10^4	2940
» Z	Feb 7	1.0	89	1.892×10^4	1520
» E′	July 10	1.0	0.7	2.090×10^6	88310
» N′	July 10	1.0	0.7	2.363×10^6	99840
» Z′	July 17	1.0	0.7	1.316×10^6	55580

Damping is critical both for seismometers and galvanometers. The test-weight method for determination of magnification curves for short-period instruments is not very reliable, and a comparison of parallel records of Benioff Z′ and Grenet-Coulomb Z′ suggests that the last value given above for V_{max} should be reduced to about 40000 (Båth, 1959). Similar reductions apply to E′ and N′.

c) Press-Ewing E,N and Sprengnether Z (ultralong-period). The following constants were determined in January, 1958 (T_o, T_g) and in March, 1962 (V_{max}):

Instrument	T_0 sec	T_g sec	V_{max}
Press-Ewing E	15.0	87	2500
N	15.0	81	2700
Sprengnether Z	15.0	85	2200

The seismometers are overdamped by a factor of 2—3 and the galvanometers are overdamped by a factor of 6.

This installation is on loan from the Lamont Geological Observatory, Columbia University, New York, under IGY arrangements.

In the bulletin only the readings from Benioff E, N, Z, Z′ are reported as a rule. Readings from other records are included occasionally as complements to those mentioned, when this seems necessary.

Kiruna (abbreviated Ki)

Location and ground: 67° 50.4′N, 20° 25.0′E; 390 m above mean sea level; porphyry.

Instruments: Grenet-Coulomb Z′, Galitzin E, N, Z.

Instrumental constants for 1958:

a) Grenet-Coulomb

In addition to the notation already given, we introduce the following:

k_g=transference factor,

L =reduced pendulum length.

Instrument	Date	T_0 sec	T_g sec	k_g sec^{-1}	L cm	l_0 cm	V_{max}
Grenet-Coulomb Z′	Sep 28, 1957	1.4	0.7	13936	12.2	100.6	11150

Damping is critical for seismometer and galvanometer.

Reference is made to Grenet (1946), Galitzin (1914), and Byerly (1942).

b) Galitzin

In addition to the notation above we introduce

μ^2=seismometer damping (Galitzin, 1914).

Instrument	Date	T_0 sec	T_g sec	μ^2	k_g sec^{-1}	L cm	l_0 cm	V_{max}
Galitzin E	Sep 27, 1957	11.8	11.8	+0.11	72.6	16.0	135.6	780
Galitzin N	Sep 28, 1957	12.8	11.9	+0.38	67.2	15.2	136.1	910
Galitzin Z	Sep 27, 1957	9.6	11.6	—0.37	234.2	41.0	135.3	740

Galvanometer damping is critical.

Readings from all Kiruna records are reported in the bulletin.

Skalstugan (abbreviated Sk)

Location and ground: 63° 34.8′N, 12° 16.8′E; 580 m above mean sea level; gneiss.

Instrument: Grenet-Coulomb Z′.

Instrumental constants for 1958:

Instrument	Date	T_0 sec	T_g sec	k_g sec^{-1}	L cm	l_0 cm	V_{max}
Grenet-Coulomb Z′	Nov 21, 1955	1.4	0.8	~16000	~12	~100	~12000

Seismometer and galvanometer damping is critical.

The constants were checked on October 1, 1957.

Göteborg (abbreviated Gb)

Location and ground: 57° 41.9′N, 11° 58.7′E; 66 m above mean sea level; gneiss.

Instrument: Grenet-Coulomb Z′.

The instrument is operated with the same constants as when it was installed at Uppsala (1951—1957).

Instrument	Date	T_o sec	T_g sec	k_g sec^{-1}	L cm	l_0 cm	V_{max}
Grenet-Coulomb Z′	Jan 19, 1952	1.4	0.5	16900	11.8	100	10530

Both seismometer and galvanometer damping is critical (aperiodic).

In connection with an intensive search for a suitable location for a seismograph station in the area of Göteborg (Eng. Gothenburg) in 1956, Professor Nils Ryde, Director of the Physics Department of Chalmers Institute of Technology, offered a space in the basement of his institute. After construction works in the spring of 1958, the station was inaugurated on June 19, 1958. It has been in continuous operation since then.

General remarks

In the presentation of the material we have followed the same principles as introduced in our bulletin for 1956.

All correspondence concerning our stations or records etc should be addressed to the central station: Seismological Institute, Uppsala, Sweden.

For notation of phases, see "Observations séismographiques" for Uppsala or Kiruna 1955. Concerning channel waves, see a review by Båth (1958).

The time used is Greenwich Mean Time (GMT).

C=compression,
D=dilatation.
μ=amplitude in microns, $1\mu=10^{-3}$ mm,
s=period in seconds,
$\triangle$=epicentral distance,
h=depth of hypocenter,
Magn.=magnitude, determined in the old Gutenberg-Richter scale (M) by applying our station corrections (Båth, 1956).
Amplitudes are given only for Uppsala and Kiruna.

In the analysis of the records, use has been made of all available bulletins, especially those from Bureau Central International de Séismologie (BCIS), Strasbourg, and from United States Coast and Geodetic Survey (USCGS), Washington, D.C. The tables and methods of Jeffreys and Bullen (1940), Gutenberg and Richter (1937), Båth (1943 and 1947), Gutenberg (1951) have been used.

In preparing this bulletin the author has in different parts been assisted by Mrs. I. Granath and Mrs. I. Pettersson. Mr. S. Lindell at the Geophysical Observatory at Kiruna was in charge of the daily routine work at the Kiruna seismograph station. Mr. S. Persson and Mr. G. Tidefors were in charge of the daily routine work at Skalstugan and Göteborg respectively. The Swedish Natural Science Research Council has supported the work by giving funds for salaries to my assistants at Uppsala and for the printing of this volume.

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Tables

1958							
Jan	1	Sk	ePKP		00	26	47
»	1	Up	iPKP		10	29	39
					μ	s	
			PKP	z′	0.1	1.0	
			South of Tonga Islands.				
»	1	Up	iP		15	17	10
		Ki	iP		15	16	17
			i		15	16	29
					μ	s	
			P	z′	0.1	1.0	
		Sk	iP		15	16	49
			Aleutian Islands.				
»	2	Up	iP		02	13	28
			i		02	13	37
			iS		02	17	41
					μ	s	
			P	N	0.5	4	
			P	z	0.9	5	
			P	z′	0.3	0.5	
			S	E	0.9	7	
			S	N	1.8	7	
			S	z′	0.2	1.2	
			M	E	1.5	10	
			M	N	4.8	17	
			M	z	6.1	16	
			△ = 2650 km = 24°.				
		Ki	iP		02	14	39
			i		02	14	41
			iS		02	19	46
					μ	s	
			P	z′	0.3	1.0	
			S	N	0.6	9	
			M	E	2.5	13	
			M	N	2.8	16	
			M	z	3.5	17	
			△ = 3500 km = 31½°.				
		Sk	iP		02	14	07
			i		02	14	09
			Off south coast of Greece.				
			Magn. = 5.7 (Up, Ki).				
»	2	Ki	iP		15	52	34 C
					μ	s	
			P	z′	0.1	1.0	
			M	E	0.4	16	
			M	N	0.5	18	
			Iran.				

1958							
Jan	2	Up	iP		21	23	07
					μ	s	
			M	N	0.8	17	
			M	z	0.7	14	
		Ki	iP		21	22	20
					μ	s	
			M	E	0.6	15	
			M	N	0.3	15	
			M	z	0.6	16	
			Kurile Islands (h ~ 60 km).				
»	2	Ki	iP		22	21	48
			Iran.				
»	2	Ki	iP		22	47	23
					μ	s	
			P	z′	0.5	2.0	
		Sk	iP		22	47	01
			Northeast of Trinidad.				
»	3	Up	iP		02	07	19 C
					μ	s	
			P	z′	0.1	0.8	
		Ki	iP		02	06	45
		Sk	iP		02	07	15
			South of Honshu, Japan.				
»	3	Up	iP		06	33	09 D
					μ	s	
			P	z′	0.2	1.5	
		Ki	iP		06	33	29
					μ	s	
			P	z′	0.2	1.5	
		Sk	iP		06	32	57
			North Atlantic Ocean.				
»	3	Up	iP		06	58	39 D
					μ	s	
			P	z′	0.1	1.0	
		Sk	iP		06	58	25
			North Atlantic Ocean.				
»	3	Up	iP		07	10	50
			iS		07	17	45
					μ	s	
			P	E	0.3	5	
			P	z	0.4	5	
			S	E	0.5	7	
			M	E	0.9	14	
			M	N	0.8	17	
			M	z	1.9	18	

1958
Jan 3 Up △=5350 km=48°.
(cont.) Ki iP 07 11 11
eS 07 18 30

		μ	s
P	z	0.4	8
P	z′	0.1	1.5
S	E	0.6	10
M	E	0.9	17
M	N	0.5	16
M	z	0.6	15

△=5650 km=51°.
Sk iP 07 10 40
North Atlantic Ocean.
Magn.=5.6 (Up, Ki).

» 3 Ki iP 08 04 42
Mid-Atlantic Ridge.

» 3 Up iP 18 00 16C
Ki iP 18 00 39
iPP 18 04 30
eSKS 18 11 11
ePS 18 13 07

		μ	s
SKS	E	0.4	10
SKS	N	0.5	10
M	E	1.8	20
M	N	1.0	18
M	z	1.6	18

△=10550 km=95°.
Mascarene Islands region.

» 3 Up iP 19 45 20
Coast of Yugoslavia.

» 3 Up i(P) 22 13 33

		μ	s
M	E	1.2	16
M	N	1.4	16

Ki iP 22 12 22

		μ	s
M	E	1.1	20
M	N	0.8	18
M	z	0.5	11

Sk eP 22 13 04
Lake Baikal region, U.S.S.R.

» 4 Up iP 06 48 23

		μ	s
M	E	1.0	19
M	z	1.3	15

Ki eP 06 48 45
Sk iP 06 48 12
North Atlantic Ocean.

» 4 Ki eP 08 15 00
i 08 16 24
eS 08 25 42

		μ	s
S	E	1.0	10
S	N	0.6	10

1958
Jan 4 Ki M E 1.7 19
(cont.) M N 0.5 16
M z 0.8 14
△=9550 km=86°.
Sk iP 08 14 56
Guerrero, Mexico.

» 4 Up iP 08 37 58
i 08 38 01

		μ	s
P	z′	0.1	0.5

Ki iP 08 37 51 D
Sk iP 08 38 14
India-Tibet border.

» 4 Up iP 12 56 45

» 4 Up iP 23 35 12
Off south coast of Java
(h ~ 200 km).

» 5 Ki eP 08 17 28
ipP 08 19 22
Sk iP 08 17 52
Celebes Sea. h=500 km (Ki).

» 5 Up iP 11 39 34
i 11 40 26
iPP 11 41 27
i(PP) 11 41 35
iS 11 46 44
i 11 47 19
iLg1 11 57 13

		μ	s
P	z′	0.2	0.7
(PP)	E	0.6	3
(PP)	N	0.4	2
S	E	1.6	6
S	N	1.7	6
M	E	24	18
M	N	23	17
M	z	13	17

△=5550 km=50°.
Ki iP 11 38 45 D
iPP 11 40 26
i(PP) 11 40 34
iS 11 45 07
i 11 47 58
i 11 50 59
iLg1 11 53 02
iLg2 11 54 39

		μ	s
P	z′	1.5	1.9
(PP)	E	3.0	6
(PP)	N	1.7	7
(PP)	z	2.0	6
PP	z′	1.6	1.6
S	E	3.9	6
S	N	1.5	6
S	z	2.6	6
M	E	17	13

1958
Jan 5 Ki M N 22 15
(cont.) M z 16 13
△=4850 km=43½°.
Sk iP 11 39 27 D
iPP 11 41 23
About 1000 km ENE of Lake
Baikal. Magn.=6.5 (Up, Ki).

» 5 Up iP 22 49 30
Hindu Kush (h ~ 150 km).

» 6 Up iP 02 02 12
i 02 02 18
ipP 02 02 32

		μ	s
pP	z′	0.2	0.6

Ki iP 02 02 21C
eLg1 02 16 27

		μ	s
P	z′	0.3	0.7
M	N	0.8	14

Sk iP 02 02 38
ePP 02 04 48
Hindu Kush. h=100 km (Up).

» 6 Ki iP 08 23 02

		μ	s
P	z′	0.2	1.5

» 6 Ki iP 09 17 37 D
i 09 17 48

		μ	s
P	z′	0.1	1.0

Unimak Island region.

» 6 Ki iP 10 01 23

		μ	s
P	z′	0.1	1.3

Iran.

» 6 Ki iP 10 05 06 D

		μ	s
P	z′	0.1	1.4

Near south coast of Java.

» 6 Up iP 11 34 37
i 11 34 41

		μ	s
P	z′	0.2	0.8
M	E	4.0	23
M	N	3.8	21

Sk iP 11 34 54
Burma. Magn.=6.0 (Up).

» 7 Up eP 00 16 43
Ki iP 00 17 33

» 7 Up iP 06 12 38
iPP 06 14 02

		μ	s
P	z′	0.2	0.8

1958
Jan 7 Up PP z′ 0.2 1.0
(cont.) M E 2.7 16
M N 4.8 10
M z 3.1 15
Ki iP 06 12 43
iPP 06 14 17
e(Li) 06 25 35
e(Lg1) 06 26 23

		μ	s
P	z′	0.1	1.0
PP	z′	0.2	1.3
M	E	3.0	18
M	N	4.0	10
M	z	2.5	18

Sk iP 06 13 04
iPP 06 14 40
Tadzhik-Kirghiz border.
Magn.=6.1 (Up, Ki).

» 7 Ki i(P) 06 21 12

» 8 Ki iP 09 34 47

» 9 Up iP 03 14 45

» 9 Up i(P) 09 40 23
i 09 40 26
Local?

» 9 Up iP 17 47 19C
eLi 17 59 15
iLg1 18 01 17

		μ	s
P	z′	1.7	1.0
M	E	5.2	16
M	N	2.9	6
M	z	7.7	16

Ki iP 17 47 04C
iL (3.24) 18 02 18

		μ	s
P	z′	1.3	1.0
M	E	2.4	16
M	N	3.2	18

Sk iP 17 47 34C
i(PP) 17 49 06
iLg1 18 02 32
iLg2 18 03 40
Sinkiang Province, China.

» 10 Up iP 00 25 03 D
India-Tibet border.

» 10 Up eP 13 48 20
Ki eP 13 47 22
Aleutian Islands.

» 10 Up iP 23 08 14 D

		μ	s
P	z′	0.3	0.5

Ki iP 23 07 28

1958							
Jan 10	Ki						
(cont.)					μ	s	
		P	z′		0.1	0.8	
	Sk	iP		23	08	03	
	Kurile Islands.						
» 10	Up	iP		23	38	12	D
» 11	Up	iP		04	57	54	
	Ki	iP		04	57	01	
	Kamchatka.						
» 11	Sk	iP		08	09	14	
» 11	Up	iP		08	47	21	
» 11	Up	iPKP		13	38	16	D
		iPKS		13	41	48	
					μ	s	
		PKP	z′		0.1	0.5	
	Ki	iPKP		13	38	05	
		iPKS		13	41	21	
					μ	s	
		PKP	z′		0.3	1.5	
		PKS	z′		0.4	1.5	
	Sk	ePKP		13	38	09	
		ePKS		13	41	41	
	Tonga Islands region.						
» 11	Sk	iP		16	59	04	
» 11	Up	iP		23	31	45	
		ipP		23	32	48	
	Off north coast of Hokkaido, Japan. h = 280 km (Up).						
» 12	Up	iP		15	03	48	
	Ki	eP		15	04	08	
		i		15	04	10	
					μ	s	
		P	z′		0.1	1.0	
	Sk	eP		15	03	38	
	Atlantic Ocean.						
» 13	Up	iP		00	13	07	C
		ipP		00	13	34	
		iS		00	21	49	
		iP′P′		00	41	28	
					μ	s	
		P	z′		0.9	1.0	
		S	E		0.7	3	
		M	N		1.4	25	
	△ = 7450 km = 67°.						
	Ki	iP		00	12	13	
		i(pP)		00	12	45	
					μ	s	
		P	z′		0.8	1.5	
	Sk	iP		00	12	47	C
		ipP		00	13	15	
	Aleutian Islands. h = 100 km (Up, Sk). Magn. = 6.5 (Up, Ki).						

1958							
Jan 13	Up	iP		00	58	01	
					μ	s	
		P	z′		0.1	1.2	
» 13	Up	ePKP		03	13	33	
					μ	s	
		M	E		4.0	23	
		M	N		6.3	23	
		M	z		8.6	24	
	Ki	ePKP		03	13	21	
		ePS		03	24	32	
					μ	s	
		M	E		3.4	22	
		M	N		3.5	23	
		M	z		5.6	24	
	Sk	iPKP		03	13	31	
	Santa Cruz Islands (h ∼ 100 km).						
» 13	Up	iP		13	31	46	
		i		13	32	00	
	Ki	iP		13	31	17	
	Sk	iP		13	31	46	
	Ryukyu Islands.						
» 13	Up	iP		15	14	14	
		i		15	14	29	
» 13	Up	iP		20	25	58	D
		i		20	26	12	
		i(S)		20	35	40	
					μ	s	
		P	z		1.7	2	
		(S)	E		0.5	4	
		M	E		1.2	18	
		M	N		1.9	19	
		M	z		1.6	18	
	Ki	iP		20	25	58	D
					μ	s	
		P	z′		0.8	1.0	
		M	E		3.0	19	
		M	N		1.5	19	
		M	z		3.3	20	
	Sk	iP		20	26	15	
	Andaman Islands.						
» 13	Up	iP		20	36	15	
		iPP		20	37	34	
	Ki	iP		20	36	20	
	Sk	iP		20	36	46	
		iPP		20	38	19	
	Pamir.						
» 13	Ki	iP		21	30	42	
	Karakorum.						
» 14	Up	iP		01	45	06	
	Aleutian Islands (h ∼ 100 km).						
» 14	Up	ePKP		06	14	16	

1958							
Jan 14	Ki	iPKP		06	14	08	
(cont.)	Tonga Islands.						
» 14	Up	iPKP		07	39	32	D
					μ	s	
		PKP	z′		0.6	0.6	
	Ki	iPKP		07	39	09	
	Sk	iPKP		07	39	25	D
	Kermadec Islands (h ∼ 350 km).						
» 14	Up	iP		13	40	08	
		i		13	40	31	
	Ki	eP		13	40	57	
	Eastern Turkey.						
» 14	Up	i(PKP)		14	51	55	D
	Santa Cruz Islands region.						
» 15	Up	iP		04	21	31	D
		iPcP		04	21	59	
					μ	s	
		P	z′		0.1	0.5	
	Ki	iP		04	20	50	
					μ	s	
		P	z′		0.2	0.8	
	Sk	iP		04	21	25	D
	Near coast of Siberia, opposite Japan.						
» 15	Up	iP		13	21	33	
	Ki	iP		13	22	06	
	Sk	eP		13	22	10	
	Caspian Sea.						
» 15	Up	iP		19	28	32	
		iPKP		19	32	26	
		iPP		19	32	45	
		iSKS		19	38	56	
		eSP		19	41	44	
		iPS		19	42	03	
		iPKKP		19	44	19	
		i		19	44	34	
					μ	s	
		P	z′		0.2	1.5	
		PP	E		4.7	15	
		PP	z		6.7	15	
		PP	z′		2.1	2.5	
		SKS	E		21	20	
		PKKP	z′		0.2	1.5	
		M	E		73	26	
		M	N		28	22	
		M	z		93	25	
	△ ∼ 11550 km ∼ 104°.						
	Ki	eP		19	28	47	
		i		19	32	17	
		iPP		19	32	58	
		iSKS		19	39	11	
		i		19	39	47	
		iS		19	40	35	

1958							
Jan 15	Ki	ePS		19	42	14	
(cont.)		ePKKP		19	44	16	
					μ	s	
		PP	z		7.0	17	
		PP	z′		4.8	3.0	
		SKS	E		21	14	
		S	N		6.0	12	
		PKKP	z′		0.3	1.4	
		M	E		47	20	
		M	N		37	23	
		M	z		50	21	
	△ ∼ 11650 km ∼ 105°.						
	Sk	iP		19	28	22	
		e		19	31	28	
		iPKKP		19	44	19	
	△ ∼ 11200 km ∼ 101°.						
	Southern Peru (h ∼ 100 km). Magn. = 7.3 (Up, Ki).						
» 15	Up	iPKP		22	34	59	
		e(PKS)		22	38	17	
					μ	s	
		M	E		6.8	23	
		M	N		6.8	22	
		M	z		12	22	
	Ki	ePKP		22	34	44	
					μ	s	
		PKP	z′		0.2	1.5	
		M	E		4.4	20	
		M	N		4.3	20	
		M	z		7.6	20	
	Sk	iPKP		22	34	55	
	New Hebrides Islands. Magn. = 6.5 (Up, Ki).						
» 16	Up	iP		02	10	58	
					μ	s	
		P	z′		0.1	1.2	
	Ki	iP		02	11	32	
	Northern Iran.						
» 16	Up	iP		04	22	58	D
		e(Lg1)		04	29	57	
		eLg2		04	30	10	
					μ	s	
		P	z′		0.2	1.0	
		M	E		11	14	
		M	N		6.3	12	
		M	z		6.1	12	
	Ki	iP		04	24	13	D
		iLg1		04	33	42	
					μ	s	
		P	z′		0.1	1.0	
		M	E		8.2	13	
		M	N		5.6	16	
		M	z		7.0	17	
	Sk	iP		04	23	45	D
	Near west coast of Turkey. Magn. = 5.6 (Up, Ki).						
» 16	Up	iPKP		11	22	41	
	New Hebrides Islands.						

1958
Jan 17 Up iPKP 07 35 26
i 07 36 40
μ s
PKP z′ 0.1 1.0
Ki iPKP 07 35 21
i 07 35 26
i 07 36 45
μ s
PKP z′ 0.5 1.4
Sk ePKP 07 35 30
i 07 35 41
Antarctic Ocean, about mid-way between Australia and Antarctic continent.

» 17 Ki eSn 09 44 38
iSg 09 45 01

» 18 Up iP 11 04 40
i 11 04 53
Albania.

» 19 Ki iPg 01 52 37
iSg 01 52 54
μ s
Sg z′ 0.4 0.5
(△=140 km=1.3°).

» 19 Up iP 03 57 06
Sk iP 03 57 50
Yugoslavia.

» 19 Up iP 09 22 46
Off northeast coast of Formosa.

» 19 Up iP 14 20 37
i 14 21 09
i 14 23 39
iPP 14 24 19
iS 14 31 38
μ s
P E 4.2 11
P z 13 11
P z′ 0.1 1.0
PP z′ 2.4 2.5
S N 69 23
M E 160 22
M N 86 22
M z 210 22
△=10300 km=92½°.
Ki iP 14 20 34
i 14 20 38
iSKS 14 31 17
iS 14 31 40
ePS 14 32 53
μ s
P z 12 11
P z′ 0.8 1.5
SKS E 39 17
S N 48 17

1958
Jan 19 Ki M E 340 24
(cont.) M N 150 24
M z 360 23
△=10200 km=92°.
Sk iP 14 20 22 D
i 14 20 38
Near coast of Ecuador (h ~ 60 km).
Magn.=7.3 (Up, Ki).

» 19 Up iP 14 56 37
Ki iP 14 56 37
μ s
P z′ 0.6 1.7
Sk iP 14 56 25
Near coast of Ecuador (h ~ 60 km).

» 19 Up iP 15 08 09
In the vicinity of Quetta, Pakistan.

» 19 Up iP 17 02 17 C
i(pP) 17 02 33
μ s
P z′ 0.1 0.5
Ki iP 17 02 18
i(pP) 17 02 35
Near coast of Sumatra.

» 19 Ki iPn 19 45 22 C
iSg 19 45 34
μ s
Pn z′ 0.1 0.5
Sg z′ 0.2 0.5
△=110 km=1.0°.
Sk e(S*) 19 47 47
iSg 19 48 01
△=610 km=5.5°.
Felt at Nilivara and a few other places southeast of Kiruna.
Origin time=19 45 01.

» 20 Up iP 02 28 29
μ s
M E 1.9 18
M N 2.5 20
M z 5.6 18
Burma.

» 20 Up iP 07 25 24
μ s
P z′ 0.2 0.9
Ki iP 07 25 07
μ s
P z′ 0.1 0.9
Sk iP 07 25 30
Luzon, Philippine Islands (h ~ 100 km).

1958
Jan 21 Up i(PKP) 00 46 56

» 21 Up i(PKP) 05 32 03
μ s
(PKP) z′ 0.1 0.7

» 21 Up iP 19 47 19 C
Southern Kurile Islands.

» 22 Up iP 18 40 45 C
μ s
P z′ 0.2 0.6
M E 4.0 19
M N 6.9 25
M z 5.9 19
Ki iP 18 40 22
μ s
M E 3.8 14
M N 1.3 13
M z 4.1 14
Sk iP 18 40 50
Near east coast of Formosa (h ~ 200 km).

» 22 Up iP 21 52 54
Ki iP 21 52 59
Andaman Sea.

» 22 Up iP 23 42 21
μ s
P z′ 0.1 1.0
Ki iP 23 41 26
μ s
P z′ 0.1 1.2
Sk iP 23 42 01
Komandorskie Islands.

» 23 Up iP 02 44 54
i(pP) 02 45 20
μ s
P z′ 0.2 0.5
Ki iP 02 44 08 C
μ s
P z′ 0.4 1.0
Sk iP 02 44 45 D
Kurile Islands (h ~ 150 km).

» 23 Up iP 05 39 25
Ki eP 05 39 22
Sk iP 05 39 45
Southern Tibet.

» 23 Up iSg 10 32 52
Sk eSg 10 32 00
Probably west coast of Norway.

» 23 Up iPn 13 36 51 D
iPg 13 37 17
i 13 37 55
iSn 13 38 09
iSg 13 38 41

1958
Jan 23 Up μ s
(cont.) Pn E 0.8 1
Pn N 0.9 1
Pn z 1.5 1
Pn z′ 0.6 0.5
Pg N 0.7 1
Sn N 2.2 1
Sn z 2.6 1
Sn z′ 2.0 0.5
Sg N 11 2
Sg z 9.2 1
△~760 km~6.8°.
Ki iPn 13 36 36
i 13 37 29
iSn 13 37 41
i! 13 37 58
iS* 13 38 11
iSg 13 38 23
μ s
Pn z′ 1.4 0.5
Sn z′ 2.3 0.5
S* z 3.6 5
Sg E 8.5 4
Sg N 7.6 6
M E 10 13
M N 6.8 15
M z 12 14
△~670 km~6.0°.
Sk iPn 13 35 53 D
△=240 km=2.2°.
Off west coast of Norway.
The agreement between the phases is not quite satisfactory. Depth slightly in excess of normal.

» 23 Up iP 19 10 26

» 24 Up iPKP 00 05 18 C
i 00 05 56
μ s
PKP z′ 0.1 0.5
Ki iPKP 00 04 56
Sk ePKP 00 05 14
Tonga Islands region.

» 24 Up i(P) 00 26 06
i 00 26 26

» 24 Ki iP 04 14 44
Sk iP 04 14 42
Guerrero, Mexico.

» 24 Up iP 04 44 31
i 04 44 37
μ s
P z′ 0.1 0.5
M E 2.2 14
M N 1.6 12
M z 2.7 13
Ki iP 04 43 51

1958
Jan 24 (cont.)

Ki	iPP		04	45	25
	eSS		04	53	12
			μ	s	
	P	z′	0.5	2.0	
	PP	z′	0.2	1.5	
	M	E	3.8	19	
	M	N	1.5	14	
	M	z	5.5	20	

△=4650 km=42°.

Sk	iP	04	44	27C
	i	04	44	32

Northeast of Lake Baikal, U.S.S.R.
Magn.=6.0 (Up, Ki).

» 24

Up	iP	06	04	15C
	ePa	06	08	02
	eS	06	12	29
		μ	s	
	P	N	0.9	5
	P	z	2.7	8
	P	z′	0.3	1.2
	S	N	2.9	11
	M	E	9.4	18
	M	N	11	18
	M	z	8.2	17

△=6800 km=61°.

Ki	iP	06	03	19C
	i(pP)	06	03	28
	iS	06	10	48
		μ	s	
	P	N	1.2	9
	P	z	3.2	9
	P	z′	0.4	1.2
	S	E	1.6	8
	S	N	3.0	8
	M	E	14	19
	M	N	12	17
	M	z	11	18

△=5900 km=53°.

Sk	iP	06	03	56C

Near east coast of Kamchatka.
Magn.=6.4 (Up, Ki).

» 24

Up	iP	06	21	20
		μ	s	
	P	z′	0.1	1.2
Ki	iP	06	20	24
	i	06	20	29
		μ	s	
	P	z′	0.2	1.4

Near east coast of Kamchatka.

» 24

Up	iP	18	14	12C
		μ	s	
	P	z′	0.4	1.3
Ki	iP	18	13	18
	i	18	13	25
	eS	18	21	10
		μ	s	
	P	z′	0.4	1.6
	S	N	0.3	9

1958
Jan 24 (cont.)

Ki	M	E	0.8	14
	M	N	0.5	13
	M	z	0.6	14

△=6250 km=56½°.

Sk	iP	18	13	53C

Komandorskie Islands region.

» 24

Up	iP	23	09	42 D
Ki	iP	23	08	47
Sk	iP	23	09	23

Aleutian Islands.

» 24

Up	iP	23	27	32
	ipP	23	27	57
	iPcS	23	32	11
	eS	23	35	32
		μ	s	
	P	z′	0.1	0.7

△=6650 km=60°.

Ki	iP	23	26	36
	ipP	23	27	00
	eS	23	33	53
	esS	23	34	30
		μ	s	
	P	z′	0.2	1.0
	S	N	0.9	9
	M	N	0.6	18
	M	z	1.3	21

△=5900 km=53°.

Sk	iP	23	27	04
	ipP	23	27	31
	iPcS	23	31	54

Kenai Peninsula, Alaska.
h=100 km (Up, Ki, Sk).
Magn.=6.0 (Up, Ki).

» 25

Up	iPKP	00	11	40
	iSKP	00	14	33
Ki	iPKP	00	11	36
	iSKP	00	14	07
		μ	s	
	SKP	z′	0.1	1.4
Sk	ePKP	00	11	36
	iSKP	00	14	26

Fiji Islands (h ~ 550 km).

» 25

Ki	iP	08	44	51
Sk	iP	08	45	28

» 25

Up	iP	09	12	25
Ki	iP	09	10	52
	iS	09	12	08
	eT	09	15	46
	i	09	16	27
		μ	s	
	P	z′	0.1	0.9

△=720 km=6.5°.

Sk	iP	09	11	29
	eS	09	13	11

△=960 km=8.6°.
Northeast of Jan Mayen,

1958
Jan 25 (cont.)
72°N, 5¾°E. Origin time=09 09 14.

» 25

Ki	eP	21	52	39

Aleutian Islands.

» 26

Up	iP	00	54	54
Ki	iP	00	54	52
		μ	s	
	P	z′	0.1	1.0
Sk	iP	00	55	11
	i	00	55	15

Nicobar Islands region.

» 26

Up	iP	06	53	11C
		μ	s	
	M	N	1.6	18
Ki	iP	06	52	22
		μ	s	
	P	z′	0.2	1.5
	M	E	2.3	19
	M	N	1.0	17
	M	z	1.8	17
Sk	eP	06	52	58

Kurile Islands.

» 26

Up	eP	07	39	19
		μ	s	
	M	E	1.8	22
	M	N	2.0	22
	M	z	2.6	24
Ki	eP	07	38	29
		μ	s	
	M	E	2.2	22
	M	N	0.8	17
	M	z	1.2	17
Sk	iP	07	39	07

Kurile Islands.

» 27

Up	eL	08	45	
		μ	s	
	M	E	1.5	22
	M	N	2.4	22
	M	z	3.9	22
Ki	eL	08	47	
		μ	s	
	M	E	2.2	20
	M	N	1.5	19
	M	z	1.9	18

Samoa Islands.

» 28

Up	i(Sg)	12	36	54
Ki	e	12	30	53
Sk	e(Sg)	12	32	56

Local?

» 28

Up	iP	17	21	59C
		μ	s	
	P	z′	0.2	0.8
	M	N	0.9	14
Ki	iP	17	22	27

1958
Jan 28 (cont.)

Ki			μ	s
	P	z′	0.1	1.0
	M	E	1.5	16
	M	N	0.9	13
	M	z	1.5	14
Sk	iP		17 22	32

Iran.

» 29

Up	iP	00	28	02
		μ	s	
	P	z′	0.1	1.0
Ki	iP	00	27	24

Off east coast of Honshu, Japan.

» 29

Up	iP	17	21	58

West Pakistan.

» 30

Ki	iPKP	01	45	24

South Island, New Zealand.

» 30

Up	ePP	06	33	32
	eSKS	06	38	57
		μ	s	
	PP	z	1.4	8
	SKS	E	0.7	8
	M	E	6.3	20
	M	N	4.5	20
	M	z	5.2	21

△ ~ 13200 km ~ 119°.

Ki	ePP	06	32	50
	eSKS	06	38	52
	eSKKS	06	39	53
	ePS	06	42	25
		μ	s	
	SKS	E	0.9	11
	M	E	5.4	17
	M	N	3.8	19
	M	z	8.1	22

△ ~ 12450 km ~ 112°.
Solomon Islands.
Magn.=6.5 (Up, Ki).

» 30

Up	iP	19	18	46
	i	19	18	59
Ki	iP	19	19	54C
Sk	iP	19	19	25

Dodecanese Islands.

» 31

Ki	iP	06	33	00

Kurile Islands region.

» 31

Up	ePKP	06	52	50
	i	06	52	57
Ki	iPKP	06	52	24
	i	06	52	28
		μ	s	
	PKP	z′	0.1	1.0
Sk	iPKP	06	52	37
	i	06	52	47

New Zealand.

1958							
Jan	31	Up	iP		12	14	20
»	31	Up	iP		23	30	10
					μ	s	
			P	z′	0.1	1.0	
		Ki	iP		23	30	00
					μ	s	
			P	z′	0.1	1.1	
		Sk	iP		23	30	23
		Sikang Province, China.					
Feb	1	Up	iP		00	31	44
		(Alaska).					
»	1	Up	iP		02	52	07
		Ki	iP		02	51	13
		South of Alaska.					
»	1	Up	iP		16	23	25
			eSKS		16	33	55
			eS		16	34	23
					μ	s	
			SKS	E	7.5	17	
			S	N	21	18	
			M	E	15	20	
			M	N	10	19	
			M	Z	20	20	
			△ = 10200 km = 92°.				
		Ki	iP		16	23	29
			iSKS		16	34	01
			iS		16	34	34
					μ	s	
			P	z′	0.5	2.0	
			SKS	E	14	17	
			S	N	18	16	
			M	E	22	19	
			M	N	16	22	
			M	Z	24	20	
			△ = 10350 km = 93°.				
		Sk	iP		16	23	12
		Near coast of Ecuador.					
		Magn. = 6.9 (Up, Ki).					
»	1	Up	iP		18	15	49
					μ	s	
			M	E	5.6	21	
			M	N	3.2	18	
			M	Z	4.7	22	
		Ki	iP		18	15	51
		Sk	eP		18	15	43
		Ecuador.					
»	1	Up	eP		20	58	57
		Ki	iP		20	58	58
					μ	s	
			P	z′	0.6	1.9	
		Sk	iP		20	58	44 C
		Ecuador.					
»	2	Up	iP		08	22	45

1958							
Feb	2	Up				μ	s
(cont.)			P	z′		0.1	0.7
		Ki	iP		08	21	58
						μ	s
			P	z′		0.2	1.2
		Sk	iP		08	22	42
		Kurile Islands.					
»	2	Up	iP		21	04	37
		Ryukyu Islands (h ∼ 200 km).					
»	3	Up	i(Sg)		11	51	13
		Local?					
»	4	Ki	eP		08	13	08
		Sk	iP		08	12	52
		Off south coast of Greenland.					
»	4	Sk	iP		09	57	54
		Northwestern Greece.					
»	4	Up	iP		19	56	19
		Ki	iP		19	55	26
					μ	s	
			P	z′	0.2	1.5	
		Unimak Island.					
»	4	Up	iP		23	49	22
		Ki	eP		23	48	41
		Off east coast of Honshu, Japan.					
»	5	Up	iP		03	21	22 D
		Ki	iP		03	22	06
			i		03	22	41
		Turkmenia, U.S.S.R.					
»	5	Up	iP		08	19	11
					μ	s	
			P	z′	0.8	1.5	
			M	E	3.6	26	
			M	N	1.8	20	
		Ki	iP		08	18	22
					μ	s	
			P	z′	0.3	1.4	
			M	E	2.0	17	
			M	N	1.9	17	
			M	Z	3.5	17	
		Sk	iP		08	18	59
		Kurile Islands.					
»	5	Ki	iP		15	56	32
			i		15	56	43
		Aleutian Islands.					
»	6	Up	iP		01	53	59 D
					μ	s	
			P	z′	0.1	0.9	
		Ki	iP		01	53	35
		Sk	eP		01	54	02

1958							
Feb	6	Near northeast coast of Formosa.					
(cont.)							
»	6	Up	i(P)		05	38	38
		Sk	e(P)		05	37	57
			i		05	38	11
»	6	Up	iPKP		16	19	24
			ipPKP		16	20	29
					μ	s	
			PKP	z′	0.1	0.5	
			pPKP	z′	0.2	1.4	
		Ki	ePKP		16	19	09
		Sk	iPKP		16	19	17
		Kermadec Islands region (h ∼ 250 km).					
»	7	Up	iP		00	44	45
			i		00	44	50
					μ	s	
			P	z′	0.2	1.0	
		Ki	iP		00	44	46 C
			i		00	44	55
					μ	s	
			P	z′	0.2	1.0	
		Sk	iP		00	45	00
			i		00	45	10
		Near northeast coast of Sumatra.					
»	7	Up	iP		00	53	31
		Ki	eP		00	52	35
»	7	Up	iPKP		01	30	17
			i		01	30	23
					μ	s	
			PKP	z′	0.7	0.7	
		Ki	iPKP		01	29	56
					μ	s	
			PKP	z′	0.1	1.0	
		Sk	iPKP		01	30	12
			i(pPKP)		01	31	13
		Kermadec Islands.					
»	7	Up				—	
					μ	s	
			M	E	0.8	20	
			M	N	0.7	20	
			M	Z	1.0	20	
		Ki	iP		04	47	04
					μ	s	
			M	E	0.6	15	
			M	N	0.5	14	
		Komandorskie Islands.					
»	7	Up	iP		07	11	46
					μ	s	
			P	z′	0.1	0.8	
		Ki	iP		07	11	18
					μ	s	
			P	z′	0.1	1.0	

1958							
Feb	7	Sk	iP		07	11	47
(cont.)		Ryukyu Islands.					
»	7	Ki	iP		15	44	50
		Hindu Kush (h ∼ 150 km).					
»	7	Up	iP		16	08	30
		Sk	iP		16	08	26
		Honshu, Japan (h ∼ 80 km).					
»	7	Up	iP		23	33	51 C
			i		23	33	57
			iS		23	42	12
					μ	s	
			P	E	0.8	1	
			P	N	0.2	1	
			P	Z	1.9	1	
			P	z′	1.4	0.8	
			S	E	0.9	5	
			M	E	5.3	20	
			M	N	7.2	20	
			M	Z	5.6	20	
			△ = 6900 km = 62°.				
		Ki	iP		23	33	32
			iPcP		23	34	21
			eS		23	41	37
			e		23	49	51
			eLi		23	51	57
			eLg1		23	54	41
					μ	s	
			P	z′	0.7	1.0	
			S	E	0.7	9	
			M	E	20	13	
			M	N	13	18	
			M	Z	21	13	
			△ = 6550 km = 59°.				
		Sk	iP		23	34	01 C
		Szechwan Province, China.					
		Magn. = 7.0 (Up, Ki).					
»	8	Ki	e(P)		08	33	03
			i		08	33	10
		Probably local.					
»	9	Up	eP		04	27	53
		Ki	iP		04	27	53 D
					μ	s	
			P	z′	0.1	1.0	
		Sk	eP		04	27	47
		South of Panama.					
»	9	Up	iP		09	41	16
			i(pP)		09	41	27
					μ	s	
			P	z′	0.2	0.9	
		Ki	iP		09	41	12
			i(pP)		09	41	22
					μ	s	
			P	z′	0.1	1.0	
		Sk	iP		09	41	34
			i(pP)		09	41	44
		India-East Pakistan border.					

1958							
Feb	9	Up	iP		11	33	25 D
»	9	Ki	iP		21	44	34
			i		21	44	44
		Alaska.					
»	9	Up	iP		22	42	04
			i		22	42	09
					μ	s	
			P	z′	0.2	1.2	
			M	E	1.8	20	
			M	N	2.2	20	
			M	z	1.7	20	
		Ki	iP		22	41	47
			eS		22	52	05
					μ	s	
			P	z′	0.8	2.4	
			S	E	0.4	10	
			M	E	2.1	18	
			M	N	3.2	19	
			M	z	3.3	17	
			△ ~ 9200 km ~ 83°.				
		Sk	iP		22	42	11
		Philippine Islands.					
		Magn. = 6.0 (Up, Ki).					
»	10	Up	iP		14	54	59
					μ	s	
			P	z′	0.1	0.8	
		Ki	iP		14	54	30
					μ	s	
			M	E	0.6	16	
			M	N	0.6	16	
			M	z	1.1	16	
		Sk	iP		14	55	00
		Volcano Islands.					
»	11	Ki	eP		00	59	37
			i		00	59	50
					μ	s	
			M	E	1.8	22	
			M	N	2.0	20	
			M	z	1.9	18	
		Off south coast of Java.					
»	11	Up	iP		11	50	35 D
		Near west coast of Luzon.					
»	11	Sk	iP		14	57	05
»	11	Ki	iP		16	21	26
			i		16	21	39
»	12	Up	iP		18	29	10 D
		Ki	iP		18	29	10
					μ	s	
			P	z′	0.2	1.4	
		Sk	iP		18	29	26
		Nicobar Islands region.					
»	12	Up	iP		23	42	27 C

1958							
Feb	12	Up			μ	s	
(cont.)			P	z′	0.3	0.9	
		Ki	iP		23	41	43 C
					μ	s	
			P	z′	0.2	1.1	
		Sk	iP		23	42	18
		Near east coast of Hokkaido, Japan.					
»	12	Up	iP		23	54	49
			eS		00	03	46
			ePS		00	04	14
					μ	s	
			P	z′	0.2	1.0	
			M	E	4.0	19	
			M	N	6.8	22	
			M	z	9.3	22	
			△ = 7550 km = 68°.				
		Ki	iP		23	53	56
			i		23	54	09
			ePP		23	56	12
			eS		00	02	04
					μ	s	
			P	z′	0.1	1.1	
			S	N	0.6	9	
			M	E	2.9	20	
			M	N	2.3	20	
			M	z	4.8	20	
			△ = 6650 km = 60°.				
		Sk	iP		23	54	27
			i		23	54	44
		Aleutian Islands.					
		Magn. = 5.9 (Up, Ki).					
»	13	Up	iP		00	21	37
			i		00	23	17
					μ	s	
			P	z′	0.1	0.9	
		Ki	iP		00	21	30
			i		00	21	44
		Sk	iP		00	21	53 C
		Northern Assam.					
»	13	Up	iP		04	29	32
			i		04	29	46
					μ	s	
			P	z′	0.1	0.7	
		Ki	eP		04	28	40
		Aleutian Islands.					
»	13	Up	iP		09	42	28
		Ki	iP		09	41	48
		Sea of Japan, near coast of Siberia.					
»	13	Up	iP		10	32	21
		Coast of Erythrea.					
»	13	Up	iP		20	24	31
»	14	Up	iP		03	27	37

1958							
Feb	14	Sk	eP		08	57	44
»	14	Up	iP		09	18	02
		Ki	iP		09	17	45
		Sk	eP		09	18	08
		Luzon, Philippine Islands.					
»	14	Ki	e(P)		16	37	58
			i		16	38	07
»	15	Ki	iP		01	28	06
		Tadzhik, U.S.S.R.					
»	15	Up	iP		01	57	46 C
					μ	s	
			P	z	1.4	4	
			P	z′	0.4	0.6	
			M	E	2.1	16	
			M	N	2.8	21	
			M	z	4.1	23	
		Ki	iP		01	57	00
			i		01	57	13
					μ	s	
			P	z′	0.4	1.0	
			M	E	5.8	18	
			M	N	4.3	20	
			M	z	8.3	20	
		Sk	iP		01	57	36
		Kurile Islands.					
		Magn. = 6.4 (Up, Ki).					
»	15	Ki	iP		02	14	44
»	15	Up	eSg		15	17	43
			i		15	17	52
			△ = 680 km = 6.1°.				
		Ki	iSg		15	15	50
			△ = 300 km = 2.7°.				
		Sk	ePn		15	15	03
			iSg		15	15	40
			△ = 270 km = 2.4°.				
		Swedish Lapland, 65¾°N, 15½°E.					
		Origin time = 15 14 21. Felt.					
»	15	Up	i(P)		15	26	38
»	16	Up	iP		06	15	28 C
					μ	s	
			P	z′	0.4	0.9	
			M	E	7.0	22	
			M	N	6.8	19	
			M	z	13	18	
		Ki	iP		06	14	48 C
					μ	s	
			P	z′	0.2	0.8	
			M	E	9.7	21	
			M	N	7.7	22	
			M	z	8.4	17	
		Sk	iP		06	15	21
			i(PP)		06	18	11

1958							
Feb	16	Near coast of Honshu, Japan.					
(cont.)		Magn. = 6.3 (Up, Ki).					
»	16	Up	iP		16	35	03
					μ	s	
			P	z′	0.1	0.7	
		Sk	iP		16	35	45
		Greece.					
»	16	Up	iP		19	15	58
					μ	s	
			P	z′	0.1	0.9	
		Aleutian Islands.					
»	16	Up			—		
					μ	s	
			M	E	1.4	21	
			M	N	1.2	15	
			M	z	3.1	20	
		Ki	iP		23	05	34
					μ	s	
			M	E	2.7	16	
			M	N	1.4	13	
			M	z	3.2	16	
		Off north coast of Iceland.					
»	17	Up	iP		00	28	36
		Sk	iP		00	29	12
		Ionian Islands.					
»	17	Up	iP		02	36	24
			i(pP)		02	36	35
					μ	s	
			(pP)	z′	0.3	1.2	
		Ki	iP		02	35	31
			i(pP)		02	35	42
					μ	s	
			P	z′	0.1	0.7	
			(pP)	z′	0.1	0.8	
		Sk	eP		02	36	07
		Near east coast of Kamchatka.					
»	17	Up	iP		05	26	04 C
			iPP		05	27	41
			isPP		05	28	41
			iS		05	31	59
			isS		05	33	12
			e		05	34	34
			i		05	34	47
			i		05	34	57
					μ	s	
			P	E	2.1	2	
			P	N	0.6	2	
			P	z	4.4	2	
			P	z′	2.1	0.8	
			S	N	6.3	6	
			M	E	8.0	12	
			M	N	16	9	
			M	z	14	14	
			△ = 4550 km = 41°.				

1958
Feb 17 (cont.) Ki iP 05 26 14C
ipP 05 27 02
isP 05 27 20
iS 05 32 18
isS 05 33 28
i 05 35 03
e 05 35 19
e(SS) 05 35 24

		μ	s
P	E	2.6	8
P	Z	4.3	7
P	Z′	4.9	1.5
S	E	4.6	11
S	N	6.1	7
M	E	13	10
M	N	9.8	12
M	Z	34	20

△=4800 km=43°.
Sk iP 05 26 30
Hindu Kush. h=200 km (Up, Ki).
Magn.=6.7 (Up, Ki).

» 17 Up iP 19 01 38

» 18 Up iPKP 13 41 08
Sk ePKP 13 41 00
Kermadec Islands.

» 18 Up iP 19 04 53
Batan Islands region.

» 18 Up iP 19 20 15

		μ	s
P	Z′	0.1	1.0

Ki iP 19 19 55

		μ	s
P	Z′	0.1	1.0
M	E	1.2	12
M	N	0.3	14
M	Z	1.5	14

Batan Islands region.

» 18 Up iP 20 00 46 D
i(PcP) 20 00 57
eS 20 10 47

		μ	s
P	Z′	0.1	0.8
S	N	1.3	11
M	E	3.6	14
M	N	3.3	17
M	Z	4.1	15

△=8800 km=79°.
Ki iP 20 00 26
i 20 00 34

		μ	s
P	Z′	0.1	1.3
M	E	5.8	12
M	N	3.1	14
M	Z	5.8	13

Batan Islands region.
Magn.=5.9 (Up, Ki).

1958
Feb 18 Up eL 21 05

		μ	s
M	E	2.9	20
M	N	2.2	18
M	Z	3.1	18

Bismarck Sea.

» 19 Ki iP 03 30 20
Tadzhik-Sinkiang border.

» 19 Up iP 03 47 43
Ki iP 03 47 45

		μ	s
P	Z′	0.2	0.8

Sk iP 03 48 06
West Sinkiang, China.

» 19 Up iP 10 40 48

		μ	s
P	Z′	0.1	0.9
M	E	2.1	15
M	N	1.4	16

Ki iP 10 40 49

		μ	s
P	Z′	0.6	1.0
M	E	1.5	15
M	N	0.7	10
M	Z	2.1	17

Sk iP 10 41 10C
iPP 10 42 52
△=4950 km=44½°.
West Sinkiang, China.

» 19 Ki iP 14 33 49
Alaska.

» 19 Up iP 15 49 18
Ki eP 15 49 10

» 19 Up iP 19 38 53C
i(1) 19 41 55
iPP 19 42 51

		μ	s
P	Z′	0.1	0.8
PP	Z′	0.1	1.0
M	E	2.5	19
M	N	5.0	22
M	Z	4.3	24

△=10800 km=97°.
Ki iP 19 38 51C
i 19 39 03

		μ	s
P	Z′	1.0	1.3
M	E	4.2	18
M	N	4.6	20
M	Z	7.0	18

Sk iP 19 39 06C
i 19 39 11
i(1) 19 42 13
Near south coast of Java.
Magn.=6.2 (Up, Ki).

1958
Feb 19 (cont.) The phases i(1) possibly belong to a different earthquake.

» 19 Ki iP 19 58 15
Sk eP 19 58 27
Near south coast of Java.

» 20 Up iP 04 09 45

		μ	s
P	Z′	0.2	1.5
M	E	1.4	18
M	N	0.7	14
M	Z	1.0	15

Ki iP 04 09 24C

		μ	s
P	Z′	0.2	1.5
M	E	1.5	11
M	N	1.0	14
M	Z	1.0	14

Batan Islands region.

» 20 Up iP 04 17 10
Ki eP 04 16 48
Batan Islands region.

» 20 Up iP 04 50 37
i 04 50 45

		μ	s
P	Z′	0.1	0.8
M	E	1.2	15
M	N	0.7	14
M	Z	2.3	15

Ki iP 04 50 16

		μ	s
P	Z′	0.1	1.2
M	E	0.9	13
M	N	0.8	16
M	Z	0.8	14

Sk eP 04 50 40
Batan Islands region.

» 20 Up eP 09 16 47
Ki eP 09 16 33

		μ	s
M	E	0.5	14

Batan Islands region.

» 20 Up i 12 02 26
i(Sg) 12 02 30

		μ	s
(Sg)	Z′	0.1	0.5

Local?

» 20 Up iP 14 44 30

» 20 Up iP 21 04 38
Ki eP 21 04 11

» 21 Up iP 12 04 22

1958
Feb 21 (cont.) Up

		μ	s
P	Z′	0.1	0.8

Ki iP 12 03 44
Sk iP 12 04 16
Near east coast of Honshu, Japan (h ~ 100 km).

» 22 Up iP 11 01 35 D
iS 11 10 43
iScS 11 11 42
eP′P′ 11 29 34

		μ	s
P	N	3.4	3
P	Z	7.8	3
P	Z′	1.7	0.6
S	E	4.3	6
S	N	7.7	7
S	Z	3.6	7
P′P′	Z′	0.2	1.5
M	E	8.6	23
M	N	15	24
M	Z	23	25

△=7800 km=70°.
Ki iP 11 00 43 D
iPP 11 03 02
iS 11 09 03
eP′P′ 11 29 56

		μ	s
P	N	3.9	8
P	Z	8.0	9
P	Z′	1.4	1.2
PP	Z	3.4	7
PP	Z′	1.4	2.5
S	E	3.5	8
S	N	6.7	9
M	E	6.8	17
M	N	4.9	18
M	Z	12	22

△=6900 km=62°.
Sk iP 11 01 14 D
iS 11 10 06
iP′P′ 11 29 46
△=7450 km=67°.
Aleutian Islands.
Magn.=7.2 (Up, Ki).
Slightly deeper than normal.

» 22 Up iP 13 33 00 D
ipP 13 33 10
eP′P′ 14 00 59

		μ	s
P	Z′	0.7	0.8

Ki iP 13 32 07

		μ	s
P	Z′	0.1	1.0

Aleutian Islands.

» 22 Up iP 15 58 47
ipP 15 58 57

1958
Feb 22 Up μ s
(cont.) P z′ 0.1 0.7
Aleutian Islands.

» 22 Up iP 17 16 05
μ s
P z′ 0.1 0.8
Ki iP 17 15 12
μ s
P z′ 0.1 1.2
Sk iP 17 15 44 D
Aleutian Islands.

» 22 Up iP 17 30 48
Ki eP 17 30 24

» 22 Up iP 19 45 22
Ki iP 19 44 29
Aleutian Islands.

» 22 Up iP 20 04 19
Ki eP 20 03 22
Aleutian Islands.

» 22 Up iP 22 08 57

» 23 Up iP 00 47 01
i 00 47 11
i 00 47 19
μ s
P z′ 0.2 0.9
Ki iPcP 00 46 50
Aleutian Islands.

» 23 Up iP 01 33 53
Ki iP 01 33 01 D
μ s
P z′ 0.1 1.3
Sk eP 01 33 32
Aleutian Islands.

» 23 Up iP 07 10 27
Ki eP 07 10 19
i 07 10 55

» 23 Up i 08 29 53
i(PKP) 08 32 32
Ki iPP 08 33 20
μ s
PP z′ 0.2 1.4
Sk iPKP 08 32 09
Argentina (h ~ 600 km).

» 23 Ki e(S) 09 16 58
μ s
M E 2.1 10
M N 2.6 12
M z 4.2 11
Sk iP 09 16 02
Novaya Zemlya. Probably nuclear explosion.

1958
Feb 23 Up iP 09 23 48 D
iS 09 33 10
μ s
P z′ 1.1 0.7
S E 0.6 2
S N 0.6 2
S z′ 0.1 0.8
Ki iP 09 23 15 D
iS 09 32 10
μ s
P z′ 0.8 1.2
S N 1.6 6
M E 0.6 15
M N 0.5 16
M z 0.8 16
Sk iP 09 23 45 D
Bonin Islands region (h ~ 400 km).
Magn. = 6.4 (Up, Ki).

» 23 Up iP 10 18 26
i 10 18 35
μ s
P z′ 0.2 1.3
M E 1.1 15
M N 0.6 16
M z 1.2 14
Ki eP 10 18 07
i 10 18 13
eS 10 27 46
μ s
P z′ 0.1 1.3
S N 0.3 12
M E 1.0 14
M N 0.7 18
M z 0.8 12
△ = 8350 km = 75°.
Sk eP 10 18 42
Batan Islands region.

» 23 Up iP 11 00 16
iPP 11 03 34
iSKS 11 10 28
iS 11 10 32
e 11 11 04
μ s
P z′ 1.0 1.0
PP z′ 0.3 1.5
S N 0.6 6
M E 1.2 22
M N 1.0 19
M z 2.1 24
△ = 9350 km = 84°.
Ki iP 10 59 45
e 11 09 33
iS 11 09 40
μ s
P z 1.4 6
P z′ 0.9 1.0
S E 0.6 5
M E 0.6 18

1958
Feb 23 Ki M N 0.6 16
(cont.) △ = 8800 km = 79°.
Sk iP 11 00 14
iPP 11 03 28
△ = 9300 km = 83½°.
Volcano Islands.
Magn. = 6.5 (Up, Ki).

» 23 Up iP 14 26 47
μ s
P z′ 0.1 0.6
Ki iP 14 26 11
Sk iP 14 26 43
Near south coast of Honshu, Japan.

» 24 Up iP 12 35 52 C
iPP 12 37 48
eS 12 42 55
e 12 46 55
eLg1 12 53 12
eLg2 12 54 18
eRg 12 56 44
μ s
P z 1.4 5
P z′ 0.4 0.8
PP E 0.7 5
PP z 0.9 5
S E 1.0 8
S N 0.6 6
M E 8.5 11
M N 7.4 14
M z 14 12
△ = 5450 km = 49°.
Ki iP 12 35 27 C
eS 12 42 08
μ s
P E 0.8 6
P z 0.8 6
P z′ 1.0 1.0
S E 1.7 12
S N 0.7 9
S z 0.8 8
M E 14 13
M N 6.9 11
M z 13 12
△ = 5050 km = 45½°.
Sk iP 12 36 01 C
Outer Mongolia.
Magn. = 6.3 (Up, Ki).

» 24 Up iSg 14 44 17
Ki eP* 14 41 38
iSg 14 42 28
μ s
Sg z′ 0.1 0.5
△ = 360 km = 3.2°.
Sk iPn 14 41 29 D
iPg 14 41 37
iS* 14 42 08
eSg 14 42 14

1958
Feb 24 Sk △ = 310 km = 2.8°.
(cont.) West coast of Norway, 66¼°N, 13°E.
Origin time = 14 40 41.

» 25 Up iP 02 07 42
μ s
P z′ 0.2 1.0
M E 0.9 18
M N 0.9 20
M z 1.2 18
Ki iP 02 06 49
eS 02 15 11
μ s
P z′ 0.1 1.0
M E 1.7 19
M N 1.7 18
M z 1.6 18
△ ~ 6800 km ~ 61°.
Sk iP 02 07 22 D
Aleutian Islands.

» 25 Ki iP 07 37 25
Sk iP 07 37 55
iPcP 07 38 29
Aleutian Islands.

» 25 Up iPg 09 19 13
iSg 09 19 43
μ s
Sg z′ 0.1 0.5
Ki iSg 09 21 27
Sk iSg 09 20 20
The Baltic Sea, 62¼°N, 20°E.

» 25 Sk eP 09 33 53
i 09 34 24

» 25 Up e(Sg) 12 41 25
Sk e(Sg) 12 41 51
Local.

» 25 Sk e(Sg) 13 02 07
Local?

» 25 Up iPKP 13 05 09
μ s
PKP z′ 0.1 0.6
New Zealand (h ~ 200 km).

» 25 Up iP 15 08 31
Ki iP 15 08 32
μ s
P z′ 0.1 0.8
Sk iP 15 08 46
Northern Sumatra.

» 26 Up iP 00 39 06
i 00 39 15

» 26 Ki e(Sg) 11 05 34

1958
Feb 26 (cont.) Sk e(Sg) 11 05 54
Local.

» 26 Up iP 11 47 30
Ki eP 11 46 55
eS 11 56 22

		μ	s
S	E	0.5	6
S	N	0.3	7
M	E	0.8	17
M	N	0.7	16
M	Z	0.6	18

△~8100 km=73°.
Sk eP 11 47 24
South of Honshu, Japan.

» 26 Up iP 17 01 31
iPcP 17 02 02

		μ	s
M	E	1.5	22
M	N	1.6	22
M	Z	2.7	22

Ki iP 17 00 39

		μ	s
M	E	1.6	22
M	N	0.9	22
M	Z	1.5	22

Sk iP 17 01 16
iPcP 17 01 53
Kurile Islands.

» 26 Up iP 17 30 18

		μ	s
M	E	0.8	20
M	N	0.6	16

Ki iP 17 29 27

		μ	s
P	Z′	0.1	1.2
M	E	1.0	16
M	N	0.7	16
M	Z	1.4	17

Sk eP 17 30 03
i 17 30 19
Off south coast of Hokkaido, Japan.

» 27 Ki eL 04 16

		μ	s
M	E	0.4	14
M	N	0.5	19

Iran.

» 27 Up iP 07 33 38

» 27 Up iP 08 03 51

		μ	s
M	E	2.8	18
M	N	3.2	15
M	Z	4.4	13

Ki eP 08 02 16
eS 08 04 28

1958
Feb 27 (cont.) Ki

		μ	s
M	E	4.6	12
M	N	3.3	12
M	Z	7.3	12

△=1300 km=12°.
Off west coast of Novaya Zemlya, 74.0°N, 51.8°E. Origin time= =07 59 25. Nuclear explosion.

» 27 Ki iP 10 26 53
eS 10 29 07

		μ	s
M	E	1.2	12
M	N	1.3	12
M	Z	2.1	12

△=1300 km=12°.
Off west coast of Novaya Zemlya.
Origin time=10 23 57.
Nuclear explosion.

» 27 Up iP 23 39 51
i 23 39 54
eS 23 49 50

		μ	s
P	Z′	0.2	1.0
S	N	5.7	11
M	E	18	14
M	N	16	20
M	Z	33	14

△~8800 km~79°.
Ki iP 23 39 30
i 23 39 34
i 23 40 01
e 23 44 10
iS 23 49 07

		μ	s
P	Z	1.4	7
P	Z′	0.4	1.5
S	E	3.6	13
S	N	5.1	12
M	E	18	12
M	N	11	14
M	Z	17	14

△=8350 km=75°.
Sk iP 23 39 56
i 23 40 00
i 23 40 10
Batan Islands region.
Magn.=6.6 (Up, Ki).

» 28 Ki eP 08 21 50

» 28 Up eP 10 04 18
eS 10 11 51

		μ	s
M	E	2.1	20
M	N	1.4	19
M	Z	2.6	19

△=5950 km=53½°.
Ki iP 10 04 33

1958
Feb 28 (cont.) Ki i 10 04 40

		μ	s
P	Z′	0.1	1.0
M	E	1.0	14
M	N	0.6	16
M	Z	1.2	18

Sk iP 10 04 03
Mid-Atlantic Ocean.

» 28 Ki iP 16 54 33
Panay, Philippine Islands.

» 28 Ki iP 19 22 39
(Molucca Passage).

Mar 1 Up iP 09 34 32

		μ	s
P	Z′	0.2	1.0
M	E	1.2	22

Ki iP 09 35 07
eSS 09 45 18

		μ	s
P	Z′	0.1	1.0
M	E	1.3	14
M	N	0.8	13
M	Z	1.5	14

Sk iP 09 35 07
Southern Iran.

» 1 Up iP 10 16 15

» 2 Ki e(P) 02 03 37

» 2 Up iP 02 45 47

		μ	s
P	Z′	0.1	1.3

Batan Islands.

» 2 Up iP 07 51 59
Ki iP 07 52 21
Atlantic Ocean.

» 2 Up iP 11 51 26
Indian Ocean.

» 2 Ki eP 18 22 02
Siberia.

» 3 Sk iP 00 57 04 D
Guatemala (h~100 km).

» 3 Ki iPKP 04 25 14
Sk iPKP 04 25 25
New Hebrides Islands.

» 3 Up iP 07 34 37

		μ	s
P	Z′	0.2	1.0
M	E	1.4	14
M	N	2.0	22
M	Z	2.3	15

1958
Mar 3 (cont.) Ki iP 07 34 14 D
i 07 34 23

		μ	s
P	Z′	0.2	1.3
M	E	1.4	14
M	N	0.9	16
M	Z	1.3	14

Sk iP 07 34 40
Near east coast of Formosa.

» 3 Up iP 16 28 41 C
eS 16 37 04
eP′P′ 16 57 44

		μ	s
P	N	0.6	4
P	Z	1.1	4
P	Z′	0.8	1.5
S	E	0.8	5
S	N	0.7	5
P′P′	Z′	0.5	2.3
M	E	2.1	20
M	N	1.9	18
M	Z	2.8	16

△=6950 km=62½°.
Ki iP 16 27 46
eS 16 35 23

		μ	s
P	N	1.0	5
P	Z′	0.8	1.7
S	N	1.1	7
M	E	2.5	14
M	N	1.0	15
M	Z	1.4	15

△=6050 km=54½°.
Sk iP 16 28 22
Komandorskie Islands.
Magn.=6.4 (Up, Ki).

» 3 Up iP 17 03 13

		μ	s
P	Z′	0.1	0.5

Ki eP 17 03 22
Sk iP 17 03 38
ipP 17 04 02
Hindu Kush. h=120 km (Sk).

» 3 Up iP 17 21 19
Ki iP 17 20 24

		μ	s
P	Z′	0.1	1.2

Komandorskie Islands.

» 3 Ki iP 17 25 40
Colombia (h~150 km).

» 3 Up iP 17 43 12

		μ	s
P	Z′	0.1	1.2

Ki iP 17 42 16 C

		μ	s
P	Z′	0.1	1.2

1958							
Mar	3	Ki	M	E	0.8	15	
(cont.)			M	N	0.9	18	
		Komandorskie Islands.					
»	4	Up	iP		01	00	02
»	4	Up	iP		11	37	26
					μ	s	
			P	z′	0.2	1.0	
		Ki	iP		11	38	31
		Sk	iP		11	38	05
		Dodecanese Islands.					
»	4	Up	eP		18	00	31
		Ki	eP		18	00	14
		Sk	eP		18	00	30
		Ryukyu Islands.					
»	5	Up	iPKP		05	56	26
					μ	s	
			PKP	z′	0.1	0.8	
		Ki	iPKP		05	56	08
		Sk	iPKP		05	56	22
		New Zealand (h ∼ 260 km).					
»	5	Up	e(P)		20	04	47
		Ki	iP		20	03	39
		Aleutian Islands.					
»	6	Up	iP		05	46	22
					μ	s	
			P	z′	0.1	0.6	
		Sk	iP		05	47	03
		Near south coast of Greece.					
»	6	Ki	iP		08	20	55
		Northwest of Cyprus.					
»	6	Up	iP		12	09	41
		Ki	eP		12	09	23
		Near north coast of Mindanao, Philippine Islands.					
»	6	Up	iP		15	58	05
		Kurile Islands.					
»	6	Ki	i(P)		21	41	58
			e(Sg)		21	42	20
		Local?					
»	7	Up	i(Sg)		06	43	23
		Sk	e(P)		06	41	56
			i(Sg)		06	42	23
		Local?					
»	7	Up	iP		07	02	55C
		Ki	iP		07	03	05C
			i		07	03	14
					μ	s	
			P	z′	0.6	1.0	
		Sk	iP		07	03	21C

1958							
Mar	7	Sk	iPP		07	05	03
(cont.)		Hindu Kush (h ∼ 200 km).					
»	7	Up	iP		08	34	29
					μ	s	
			P	z′	0.1	1.0	
		Sk	iP		08	34	33
		Near northeast coast of Mindanao, Philippine Islands.					
»	7	Ki	eP		13	09	44
»	7	Up	iPKP		17	49	54
		Tonga Islands.					
»	9	Up	iP		08	18	33
					μ	s	
			P	z′	0.1	0.5	
		Ki	eP		08	17	41
		Aleutian Islands.					
»	9	Up	i(PKP)		10	42	13
			iPKP		10	42	19
					μ	s	
			PKP	z′	0.6	1.2	
			M	E	2.1	18	
			M	N	2.3	20	
			M	z	3.9	22	
		Ki	i(PKP)		10	41	57
			iPKP		10	42	00
			iPKS		10	45	36
					μ	s	
			PKP	z′	0.2	1.5	
			PKS	z′	0.1	1.0	
			M	E	3.7	20	
			M	N	1.9	20	
			M	z	3.8	22	
		Sk	iPKP		10	42	13
		Kermadec Islands region (h ∼ 60 km). (PKP)-amplitude is very small.					
»	9	Ki	iP		11	36	54C
		Halmahera Island region.					
»	10	Up	iP		06	16	03
					μ	s	
			P	z′	0.1	1.0	
		Ki	iP		06	15	20
		Sk	eP		06	15	55
		Near east coast of Hokkaido, Japan.					
»	10	Ki	iP		08	08	08
		Sk	iP		08	08	37
		Aleutian Islands.					
»	10	Up	iP		17	39	19
					μ	s	
			P	z′	0.1	0.7	

1958							
Mar	10	Ki	iP		17	38	49
(cont.)		Sk	iP		17	39	19
		Ryukyu Islands.					
»	11	Up	iP		00	37	43C
			ipP		00	38	00
			iPa		00	43	06
			eS		00	47	25
			isS		00	47	54
			iP′P′		01	05	13
					μ	s	
			P	z′	2.2	0.8	
			S	E	57	14	
			S	N	45	20	
			M	E	140	20	
			M	N	180	23	
			M	z	160	20	
			△ = 8450 km = 76°.				
		Ki	iP		00	37	17C
			ipP		00	37	32
			iPP		00	40	03
			iS		00	46	43
			i(P′P′)		01	05	39
					μ	s	
			P	z′	1.1	1.3	
			pP	E	6.2	9	
			pP	N	1.7	9	
			pP	z	13	9	
			pP	z′	2.8	1.0	
			PP	E	5.0	10	
			PP	z	6.2	8	
			S	E	44	12	
			S	N	16	14	
			M	E	100	18	
			M	N	75	18	
			M	z	93	17	
			△ = 8100 km = 73°.				
		Sk	iP		00	37	45C
			ipP		00	38	04
		Ryukyu Islands. h = 60 km (Up, Ki, Sk). Magn. = 7.4 (Up, Ki).					
»	11	Ki	iP		01	14	16
»	11	Ki	e(P)		08	54	49
			i(Sg)		08	54	56
		Local?					
»	11	Sk	eP		09	00	14
			i		09	00	20
		Guatemala (h ∼ 200 km).					
»	11	Up	iP		09	22	50
					μ	s	
			P	z′	0.1	0.5	
		Ki	iP		09	21	58
		Aleutian Islands.					
»	11	Up	iPKP		14	18	14

1958							
Mar	11	Up			μ	s	
(cont.)			M	E	0.8	20	
			M	N	1.4	20	
			M	z	2.3	22	
		Ki	iPKP		14	17	59
			i		14	18	14
					μ	s	
			PKP	z′	0.1	1.1	
			M	E	1.3	22	
			M	N	1.1	22	
			M	z	1.5	22	
		Sk	iPKP		14	18	10
			i		14	18	20
		New Hebrides Islands.					
»	11	Ki	iP		14	27	59
»	11	Up	iP		19	39	12D
		Mariana Islands region (h ∼ 500 km).					
»	11	Ki	i(P)		22	33	48
»	12	Ki	eP		00	05	38
			eS		00	16	10
					μ	s	
			S	E	0.6	10	
			S	N	0.4	11	
			△ = 9450 km = 85°.				
		Sk	iP		00	05	39
		Guerrero, Mexico.					
»	12	Ki	i(Sg)		09	01	41
		Sk	e(Sg)		09	05	19
»	12	Sk	iP		13	03	33
»	12	Up	iP		14	49	35
		Mariana Islands.					
»	12	Up	iP		15	10	55
					μ	s	
			P	z′	0.1	1.0	
»	12	Up	iP		18	28	18D
					μ	s	
			P	z′	0.2	0.6	
		Ki	iP		18	27	46D
					μ	s	
			P	z′	0.1	0.8	
		Sk	iP		18	28	15D
			iPP		18	31	25
		Bonin Islands region (h ∼ 500 km).					
»	14	Up	iP		00	02	08
			iS		00	12	35
			i		00	13	51
					μ	s	
			P	z′	0.1	1.0	
			△ = 9550 km = 86°.				

1958						
Mar 14	Ki	iP		00	01	51
(cont.)		i		00	01	57
		eS		00	12	11
		iScS		00	12	19
		e		00	13	31
				μ	s	
		P	z′	0.7	2.0	
		S	N	0.6	11	
		M	E	4.1	19	
		M	N	5.7	20	
		M	z	3.5	18	
		△=9250 km=83½°.				
	Sk	eP		00	02	17
		i		00	02	27
	Philippine Islands.					
	Magn.=6.1 (Up, Ki).					
» 14	Up	iP		00	20	10
	Ki	eP		00	20	01
	Sk	iP		00	20	25
	Northern Burma.					
» 14	Up	iP		15	09	49 C
» 14	Sk	eP		17	12	38
» 15	Up	iP		00	35	57 D
				μ	s	
		P	z′	0.1	0.7	
		M	E	8.2	22	
		M	N	11	21	
		M	z	7.8	18	
	Ki	iP		00	35	34
		iPcP		00	35	54
		eS		00	45	13
				μ	s	
		P	z′	0.1	1.0	
		M	E	3.7	20	
		M	N	3.9	22	
		M	z	3.0	19	
	Sk	iP		00	36	03
		iPcP		00	36	16
	Near east coast of Formosa.					
	Magn.=6.0 (Up, Ki).					
» 15	Ki	ePn		04	52	19
		eSn		04	53	15
		iSg		04	53	37
		△=510 km=4.6°.				
	Sk	eSg		04	56	08
	Kola Peninsula, U.S.S.R., 67.9°N, 32.6°E. Origin time=04 51 07.					
	Solution obtained by combination with readings at Sodankylä, Finland.					
» 15	Up	iP		06	31	40
		i		06	31	46
		i(S)		06	35	05
		iS		06	35	18

1958						
Mar 15	Up				μ	s
(cont.)		P	z′		0.1	0.6
		S	E		0.8	6
		S	z′		0.1	1.0
		M	E		3.5	19
		M	N		4.5	13
		M	z		6.9	16
		△~2200 km~20°.				
	Ki	iP		06	32	51
		i		06	32	56
		eS		06	37	41
				μ	s	
		P	z′	0.1	1.2	
		S	E	0.8	9	
		S	N	0.3	7	
		M	E	4.8	20	
		M	N	2.1	16	
		M	z	3.2	16	
		△~3100 km~28°.				
	Sk	iP		06	32	17
		i		06	32	22
		iS		06	36	28
		△=2600 km=23½°.				
	Albania-Greece.					
	Magn.=5.3 (Up, Ki).					
» 15	Ki	iPKP		15	52	58
	Sk	ePKP		15	53	08
	New Hebrides Islands.					
» 15	Up	iP		17	44	58
	Ki	iP		17	44	26
	Off south coast of Honshu, Japan (h~320 km).					
» 15	Sk	ePKP		19	24	54
	New Britain.					
» 16	Ki	iP		02	12	34
	Off south coast of Hokkaido, Japan.					
» 16	Sk	e(P)		06	50	21
» 17	Up	i(P)		00	07	13
	Leyte region, Philippine Islands.					
» 17	Ki	iP		08	32	07
» 17	Up	iP		11	50	30
	Ki	iP		11	50	17
	Sk	iP		11	50	45
» 17	Up	iP		21	19	14
		i		21	19	30
	Ki	iP		21	19	16
		i		21	19	32
	Nicobar Islands region.					
» 18	Up	iP		13	13	09

1958						
Mar 18	Up	iP		14	17	39
» 18	Sk	e(P)		15	32	20
		e(Sg)		15	32	55
	Local?					
» 18	Up	iP		22	31	15
		i		22	31	25
		iS		22	40	22
				μ	s	
		P	z′	0.1	1.0	
		S	N	0.5	5	
		M	N	1.2	25	
		M	z	1.4	26	
		△=7800 km=70°.				
	Ki	iP		22	30	22 D
		i		22	30	32
		i		22	30	46
		iS		22	38	46
				μ	s	
		P	z	0.4	6	
		P	z′	0.4	1.1	
		S	N	0.7	9	
		S	z	0.4	7	
		M	E	0.7	20	
		M	N	0.6	21	
		M	z	0.8	21	
		△=6900 km=62°.				
	Sk	iP		22	30	53
	Aleutian Islands.					
	Magn.=6.2 (Up, Ki).					
	Slightly deeper than normal.					
» 19	Up	eLg1		16	11	18
		iLg2		16	11	35
		i(Lg2)		16	11	44
		i(Rg)		16	12	36
				μ	s	
		M	N	0.4	5	
		M	z	0.5	6	
	Ki	iP		16	08	50
				μ	s	
		P	z′	0.1	1.3	
	Sk	iP		16	07	57
	Austria-Yugoslavia border.					
	No P is recorded at Uppsala (△=14°) due to the shadow zone.					
» 20	Up	iP		01	49	15
		i		01	49	28
		iS		01	58	24
		iP′P′		02	17	13
				μ	s	
		P	N	3.7	7	
		P	z	8.4	7	
		P	z′	1.3	1.0	
		S	E	5.5	9	
		S	N	7.0	9	
		P′P′	z′	0.2	1.0	
		M	E	5.3	20	

1958						
Mar 20	Up	M	N	15	26	
(cont.)		M	z	17	26	
		△=7800 km=70°.				
	Ki	iP		01	48	23
		iPP		01	50	42
		i		01	54	50
		iS		01	56	42
		iP′P′		02	17	39
				μ	s	
		P	N	2.3	7	
		P	z	4.4	8	
		P	z′	2.0	1.0	
		PP	N	1.1	8	
		PP	z	1.9	9	
		S	E	2.6	8	
		S	N	7.8	9	
		S	z	4.7	11	
		P′P′	z′	0.2	1.7	
		M	E	9.0	18	
		M	N	7.0	22	
		M	z	12	22	
		△=6900 km=62°.				
	Sk	iP		01	48	54 D
		iS		01	57	47
		iP′P′		02	17	22
		△=7450 km=67°.				
	Aleutian Islands.					
	Magn.=6.9 (Up, Ki).					
	Slightly deeper than normal.					
» 20	Ki	iP		04	40	14
» 20	Sk	e(P)		06	27	04
	(North Atlantic).					
» 20	Up	iP		08	04	02
	Off southeast coast of Hokkaido, Japan.					
» 20	Ki	iP		13	07	16
	Sk	iP		13	07	34
	Pamir (h~100 km).					
» 20	Sk	eP		14	01	56
		i		14	01	58
» 20	Up	iP		16	44	35
» 21	Sk	eP		06	50	09
» 21	Up	eL		09	06	
				μ	s	
		M	E	1.5	13	
		M	N	1.9	12	
		M	z	2.7	12	
	Ki	eL		09	01	
				μ	s	
		M	E	1.2	16	
		M	N	1.0	15	
		M	z	2.1	17	
	Novaya Zemlya. Nuclear explosion.					

1958						
Mar 21	Up	i(Sg)		09	46	24
	Local?					
» 21	Sk	i(P)		13	03	51 C
	Seismic?					
» 21	Sk	iP		14	27	19
	Mexico-Guatemala border (h ~ 150 km).					
» 21	Up	iP		18	44	15 D
		i		18	44	25
				μ	s	
		P	z′	0.1	0.7	
	Ki	iP		18	44	16
				μ	s	
		P	z′	0.1	1.0	
	Sk	iP		18	44	32
		i		18	44	42
	Andaman Islands.					
» 22	Up	ePKP		06	38	54
	Sk	ePKP		06	38	35
		i		06	38	48
	Kermadec Islands region.					
» 22	Up	iP		07	15	40
	Aleutian Islands.					
» 22	Up	iP		10	21	56 D
		eS		10	30	22
				μ	s	
		P	z′	0.3	0.6	
		M	E	3.1	16	
		M	N	3.7	19	
		M	z	3.0	16	
		△ = 7000 km = 63°.				
	Ki	iP		10	21	51 D
		e(Pa)		10	26	02
		eS		10	30	11
		i		10	30	50
				μ	s	
		P	z′	0.4	1.2	
		S	E	1.1	11	
		M	E	5.5	15	
		M	N	11	24	
		M	z	5.7	15	
		△ = 6900 km = 62°.				
	Sk	iP		10	22	12 D
	Burma-Pakistan border. Magn. = 6.4 (Up, Ki).					
» 22	Up	iP		11	15	27
		i(PP)		11	16	53
		iPP		11	17	04
		eS		11	21	36
		i		11	24	04
		iSS		11	24	35
				μ	s	
		P	z′	0.1	0.8	
		PP	E	0.6	2	

1958						
Mar 22 (cont.)	Up	PP	z	1.1	4	
		(PP)	z′	0.3	1.0	
		M	E	10	16	
		M	N	7.0	10	
		M	z	15	17	
		△ = 4550 km = 41°.				
	Ki	iP		11	15	42
		iPP		11	17	10
		eS		11	22	04
		iSS		11	25	06
		eLg1		11	29	28
		iRg		11	32	40
				μ	s	
		P	z′	0.2	1.3	
		PP	z′	0.6	2.0	
		M	E	11	14	
		M	N	6.7	12	
		M	z	10	15	
		△ = 4700 km = 42½°.				
	Sk	iP		11	15	56
		iPP		11	17	36
	Afghanistan. Magn. = 6.2 (Up, Ki).					
» 23	Up	iP		00	33	18
	Afghanistan.					
» 23	Up	iP		10	26	56
		i		10	27	07
				μ	s	
		P	z′	0.2	0.8	
		M	E	2.1	20	
		M	N	1.6	18	
		M	z	2.5	18	
	Ki	iP		10	26	37
		i		10	26	44
		eS		10	36	19
				μ	s	
		P	z′	0.2	1.1	
		M	E	2.0	14	
		M	N	2.6	20	
		M	z	2.1	13	
		△ = 8500 km = 76½°.				
	Sk	iP		10	27	04
	Near northwest coast of Luzon, Philippine Islands. Magn. = 5.9 (Up, Ki).					
» 23	Up	iP		15	50	49
	Mid-Atlantic Ridge.					
» 23	Ki	eP		16	02	38
	Crete.					
» 23	Ki	iP		19	06	26
	Northern Kurile Islands.					
» 23	Up	iP		20	24	18
	Aleutian Islands.					
» 24	Up	iP		12	07	53
	Ki	iP		12	07	44

1958						
Mar 24 (cont.)	Near north coast of Luzon, Philippine Islands.					
» 24	Up	iP		15	04	59 D
	Ki	iP		15	04	14
	Near east coast of Hokkaido, Japan.					
» 24	Up	iPg		18	11	26
		iSg		18	11	44
		i(Rg)		18	11	53
		△ = 160 km = 1.4°.				
	Explosion at Norrköping, Sweden. Origin time = 18 10 58.					
» 25	Up	iP		09	04	44
		iS		09	08	26
				μ	s	
		P	z′	0.1	0.5	
		△ = 2300 km = 20½°.				
	Ki	iP		09	04	17
		i		09	04	21
		iS		09	07	35
		i		09	08	15
				μ	s	
		P	z′	0.1	0.5	
		△ = 2000 km = 18°.				
	Sk	iP		09	05	00
		eS		09	09	06
		△ = 2550 km = 23°.				
	Pokrovsk, Northern Ural Mountains, U.S.S.R. Explosion of 3100 ton chemical explosives.					
» 25	Up	iP		16	08	59
	Batan Islands region.					
» 25	Up	iP		18	53	53
	Ki	eP		18	53	52
	Sk	eP		18	53	40
	Virgin Islands.					
» 25	Up	i(P)		20	25	39
» 25	Up	iPKP		21	53	54
	Argentina (h ~ 100 km).					
» 25	Up	iP		22	44	50
				μ	s	
		P	z′	0.1	1.0	
	Ki	eP		22	45	13
		eScS		22	55	19
				μ	s	
		M	E	1.3	18	
		M	N	0.8	19	
		M	z	1.3	19	
	Maldive Islands region.					
» 26	Up	iP		00	03	38 C
		i		00	03	42

1958						
Mar 26 (cont.)	Up	i		00	04	06
				μ	s	
		P	z′	0.1	0.5	
	Ki	iP		00	03	38
		i		00	03	42
				μ	s	
		P	z′	0.1	0.8	
	Sk	iP		00	03	52
	Malacca Passage.					
» 26	Up	iP		00	38	41
				μ	s	
		P	z′	0.1	0.7	
	Ki	iP		00	38	23
		ipP		00	38	49
				μ	s	
		P	z′	0.1	1.0	
	Sk	iP		00	38	45
	Samar Island, Philippine Islands. h = 100 km (Ki).					
» 26	Sk	e(P)		08	03	20
	Local?					
» 26	Ki	eL		10	28	
				μ	s	
		M	E	0.5	19	
		M	N	0.4	16	
» 26	Up	iP		13	45	00
» 26	Up	iP		15	15	29
» 26	Ki	iP		15	40	42
» 26	Up	iP		22	59	35
	Southern Aegean Sea.					
» 26	Up	iP		23	44	13
» 27	Up	iP		00	50	36 D
	Ki	iP		00	50	13
				μ	s	
		M	z	0.6	16	
	Sk	eP		00	50	42
	Near east coast of Formosa.					
» 27	Up	eP		06	18	26
	Ki			—		
				μ	s	
		M	E	0.5	20	
		M	N	0.4	19	
		M	z	0.7	20	
	Sk	iP		06	18	10
	Near coast of Chiapas, Mexico (h ~ 150 km).					
» 27	Up	iP		06	45	41
	Ki	iP		06	44	48
				μ	s	
		P	z′	0.1	1.0	

1958							
Mar	27	Sk	iP		06	45	25
(cont.)		Near southeast coast of Kamchatka.					
»	27	Up	i(P)		11	05	49
		Ki	i(P)		11	04	31
»	27	Up	iP		17	23	41
			iS		17	26	20
					μ	s	
			P	z′	0.1	0.5	
			△=1550 km=14°.				
		Sk	iP		17	24	38
			eS		17	28	12
			△=2100 km=19°.				
		Carpathian Mountains.					
»	28	Up	iP		04	16	58C
			ipP		04	17	48
			iPP		04	18	34
			i(PP)		04	18	44
			i		04	19	43
					μ	s	
			P	z′	0.2	0.7	
			pP	z′	0.5	1.0	
		Ki	iP		04	17	(09)
			ipP		04	17	(58)
			iS		04	23	(13)
			eSS		04	26	(27)
			eLg1		04	32	(00)
					μ	s	
			P	z′	0.2	1.0	
			S	E	0.5	6	
			M	E	0.7	10	
			M	z	0.6	9	
		Sk	iP		04	17	24C
			ipP		04	18	15
		Hindu Kush. h=240 km (Up, Ki, Sk).					
		Magn.=5.7 (Up, Ki).					
»	28	Up	iP		12	13	50C
			ipP		12	14	32
			iPP		12	15	25
			isPP		12	16	23
			i(S)		12	19	48
			isS		12	20	54
			e		12	22	24
			eSS		12	22	50
			i		12	23	04
					μ	s	
			P	E	3.8	1	
			P	N	0.9	1	
			P	z	7.7	1	
			P	z′	3.7	1.0	
			PP	E	1.0	1	
			(S)	N	1.1	5	
			△=4450 km=40°.				
		Ki	iP		12	13	46C
			ipP		12	14	27
			isP		12	14	47
			i(pPP)		12	16	04

1958							
Mar	28	Ki	esPP		12	16	19
(cont.)			i(S)		12	19	48
			iSS		12	22	40
			i		12	23	04
					μ	s	
			P	E	2.7	2	
			P	N	1.4	2	
			P	z	3.4	2	
			P	z′	1.4	1.0	
			(S)	E	1.5	8	
			(S)	N	1.3	8	
		Sk	iP		12	14	16C
			ipP		12	14	54
			iPP		12	15	58
			△=4800 km=43°.				
		Hindu Kush. h=200 km (Up, Ki, Sk).					
		Magn.=7.3 (Up, Ki).					
»	28	Sk	eP		15	36	45
»	28	Ki	iP		17	27	35
»	28	Up	iP		18	58	08C
		Honshu, Japan (h ~ 80 km).					
»	28	Up	eP		20	31	20
		Ki	eP		20	30	37
		Sk	eP		20	31	12
		Off south coast of Hokkaido, Japan.					
»	29	Up	iP		03	05	35
					μ	s	
			M	E	0.5	14	
		Sk	iP		03	06	15
		Greece.					
»	29	Sk	iP		04	49	03
		Greece.					
»	29	Up	iP		07	23	25
		Sk	iP		07	24	05
		Greece.					
»	29	Sk	iP		09	40	33
		Greece.					
»	29	Up	iP		10	42	42
			i		10	43	16
		Ki	iP		10	42	19
					μ	s	
			M	E	0.5	14	
			M	N	0.5	15	
			M	z	0.6	15	
		Sk	eP		10	42	48
		China.					
»	30	Ki	eP		01	56	41
		(Arctic Ocean).					
»	30	Up	iP		05	11	20

1958							
Mar	30	Ki	e(Sn)		06	33	58
		(Kola Peninsula, U.S.S.R.).					
»	30	Up	iSg		06	45	50
		Ki	eSn		06	42	30
			iSg		06	42	54
		Sk	iSg		06	45	20
		Kola Peninsula, U.S.S.R.					
»	30	Up	iPKP		14	23	28
			i		14	23	33
		Sk	iPKP		14	23	22
		Kermadec Islands.					
»	31	Up	iP		03	51	56
		Sk	iP		03	52	16
		Nepal.					
»	31	Sk	iP		04	10	12
		Greece.					
»	31	Ki	iP		06	06	37
		Sk	eP		06	06	50
»	31	Up	iP		10	43	30
					μ	s	
			P	z′	0.1	0.8	
		Ki	iP		10	43	18
					μ	s	
			P	z′	0.2	1.0	
		Sk	iP		10	43	11
			i(pP)		10	43	43
		Chiapas, Mexico (h ~ 100 km).					
»	31	Sk	i(P)		11	40	31
		Seismic?					
»	31	Up	iP		15	12	34
			i		15	12	48
		Ki	iP		15	11	41
					μ	s	
			P	z′	0.1	1.0	
		Sk	iP		15	12	11
		Aleutian Islands.					
»	31	Ki	iP		15	57	08
		Alaska.					
»	31	Sk	iP		16	28	10
»	31	Up	iP		16	51	10
					μ	s	
			P	z′	0.1	1.3	
		Ki	iP		16	52	25
		Sk	iP		16	51	47
		Ionian Sea.					
»	31	Up	iPKP		21	50	48
		Sk	iPKP		21	50	43
		Kermadec Islands region.					

1958							
Apr	1	Ki	eP		08	43	52
»	1	Up	iP		14	18	32
			ipP		14	18	49
		Ki	iP		14	17	52
			ipP		14	18	09
		Sk	iP		14	18	25
			ipP		14	18	43
		Northern Honshu, Japan.					
		h=70 km (Up, Ki, Sk).					
»	1	Up	i(P)		15	01	44
»	1	Up	iP		16	55	38
					μ	s	
			P	z′	0.1	1.0	
		Aleutian Islands.					
»	1	Sk	eP		17	27	20
			i		17	27	22
»	2	Ki	eL		00	46	
					μ	s	
			M	E	0.6	15	
			M	N	0.5	17	
			M	z	0.6	14	
		Philippine Islands.					
»	2	Sk	iP		15	28	34
»	2	Up	iP		15	36	24
»	3	Up	iP		02	28	02C
			e		02	31	20
			eS		02	31	32
			e		02	34	16
					μ	s	
			P	N	1.2	5	
			P	z	1.7	5	
			P	z′	0.4	1.0	
			S	N	0.7	5	
			M	E	8.4	13	
			M	N	13	16	
			M	z	15	19	
		△=2050 km=18½°.					
		Ki	eP		02	29	23
			e		02	29	47
			e(S)		02	33	50
			e(S)		02	34	12
			eLi		02	36	12
			eLg2		02	38	19
			eRg		02	39	21
					μ	s	
			P	z′	0.2	1.5	
			(S)	N	1.4	18	
			M	E	10	12	
			M	N	11	13	
			M	z	17	13	
		Sk	iP		02	28	47C
			i		02	28	56
			i		02	36	51
		Albania. Magn.=5.7 (Up, Ki).					

1958
Apr 3 Sk iP 07 07 35

» 3 Up iP 07 24 06C
iPcP 07 27 37
eS 07 28 37

		μ	s
P	z′	0.6	0.8
M	E	3.3	16
M	N	9.4	12
M	z	14	12

△ = 2900 km = 26°.

Ki iP 07 25 12C
eS 07 30 35
eRg 07 39 11

		μ	s
P	z′	1.0	1.0
S	N	0.3	11
M	E	2.3	17
M	N	1.6	12
M	z	1.9	14

△ = 3700 km = 33½°.

Sk iP 07 24 45C
Near Crete. Magn. = 6.4 (Up, Ki).

» 3 Sk iP 08 38 44
Near coast of Ecuador.

» 3 Ki e(P) 11 03 59

» 3 Up iP 14 30 11

		μ	s
P	z′	0.1	0.5

» 4 Sk ePKP 02 14 05
South of Fiji Islands (h ~ 500 km).

» 4 Sk iP 04 09 21
i 04 10 18
Albania.

» 4 Up eL 08 31

		μ	s
M	E	1.3	20
M	N	0.9	20
M	z	1.7	20

Ki eL 08 26

		μ	s
M	E	0.8	17
M	N	0.4	17
M	z	1.4	20

New Britain.

» 4 Ki i 09 24 46
Sk iP 09 23 53
Albania.

» 4 Up iP 10 41 03

» 4 Ki iP 13 53 56

1958
Apr 4 Sk eP 13 54 41
(cont.) Arctic Ocean, west of Spitsbergen.

» 4 Up —

		μ	s
M	E	2.4	20
M	N	1.7	19
M	z	3.9	22

Ki eSKS 16 03 23

		μ	s
M	E	3.2	21
M	N	1.6	21
M	z	3.9	21

New Britain.

» 5 Up iP 05 22 01

		μ	s
P	z′	0.1	1.0

Ki iP 05 21 09
Sk iP 05 21 41
Aleutian Islands.

» 6 Ki iP 01 41 41
Sk iP 01 41 21
Congo.

» 6 Ki iP 16 04 48

» 6 Up iP 17 51 34

» 7 Up iPKP 03 47 41
Ki iPKP 03 47 56

		μ	s
PKP	z′	0.2	1.3

Sandwich Islands.

» 7 Ki iP 04 56 46
Sk iP 04 56 51
i 04 58 41

» 7 Up iP 14 30 24
Ki iP 14 30 52
Mid-Atlantic Ridge.

» 7 Up iP 15 40 10D
iS 15 47 48
eP′P′ 16 10 19
i 16 10 38

		μ	s
P	N	2.5	6
P	z	7.0	8
P	z′	3.9	2.0
S	E	42	12
S	N	9.6	11
M	E	140	21
M	N	85	20
M	z	120	20

△ = 6050 km = 54½°.

Ki iP 15 39 09D
i 15 39 18

1958
Apr 7 Ki iPcP 15 40 37
(cont.) iS 15 45 55

		μ	s
P	N	3.9	8
P	z	7.7	8
P	z′	2.2	1.0
S	E	23	9
S	N	10	10
S	z	11	10
M	E	220	22
M	N	82	19
M	z	130	22

△ = 5150 km = 46½°.

Sk iP 15 39 41
Alaska. Magn. = 7.1 (Up, Ki).

» 7 Ki iP 16 14 39

		μ	s
P	z′	0.1	1.0

Alaska.

» 7 Ki eP 16 28 00

» 7 Ki iP 16 47 03
Sk e(P) 16 47 47
Alaska.

» 7 Up iP 18 16 29C
i 18 16 33
iPcP 18 16 43
ePP 18 19 10
iS 18 25 56

		μ	s
P	z′	0.6	1.0
PcP	z	2.6	3
PP	N	0.6	3
PP	z	1.1	3
S	E	13	19
M	E	45	20
M	N	42	19
M	z	58	20

△ = 8000 km = 72°.

Ki iP 18 15 49C
i 18 15 52
i 18 16 02
iPP 18 18 20
iS 18 24 36

		μ	s
P	z′	1.3	2.0
S	E	13	15
S	N	4.2	12
M	E	150	22
M	N	49	22
M	z	61	17

△ = 7400 km = 66½°.

Sk iP 18 16 23
iPP 18 18 58
Near east coast of Honshu, Japan.
Magn. = 6.9 (Up, Ki).

» 7 Up iP 18 41 41C
i 18 44 43

1958
Apr 7 Up

		μ	s
P	z′	0.2	1.3

(cont.)
Ki iP 18 41 00
i 18 41 11
Sk iP 18 41 34
Near east coast of Honshu, Japan.

» 7 Up iP 18 48 07
iPcP 18 48 25
i 18 49 05

		μ	s
P	z′	0.1	1.0

Ki iP 18 47 26
Near east coast of Honshu, Japan.

» 7 Up iP 18 49 46C

		μ	s
P	z′	0.9	1.7

Ki iP 18 49 06C

		μ	s
P	z′	0.8	2.0

Sk iP 18 49 37
Near east coast of Honshu, Japan.

» 7 Up iP 18 58 41C

		μ	s
P	z′	0.1	1.0

Ki iP 18 58 00
Near east coast of Honshu, Japan.

» 7 Up iP 19 00 25
Ki iP 18 59 30

» 7 Up iP 19 01 10
i 19 01 20

		μ	s
P	z′	0.1	1.0

Ki iP 19 00 30

		μ	s
P	z′	0.3	1.7

Sk iP 19 00 58
Off east coast of Honshu, Japan.

» 7 Up iP 19 22 04C
iPP 19 23 57
iS 19 29 04
iLi 19 36 31
iLg1 19 39 09
iLg2 19 40 38

		μ	s
P	z′	1.9	1.5
PP	E	0.8	3
PP	z	1.1	3
S	E	2.7	7
S	N	2.4	7
M	E	59	12

1958							
Apr 7	Up	M	N		73	13	
(cont.)		M	Z		73	13	
		△ = 5400 km = 48½°.					
	Ki	iP			19	21	39
		iPP			19	23	26
		iS			19	28	19
		iScS			19	31	38
		i			19	31	55
		iLi			19	35	03
		iLg1			19	37	39
				μ		s	
		P	Z′	1.2		1.5	
		PP	Z′	3.2		2.5	
		S	N	4.7		10	
		M	E	93		12	
		M	N	130		20	
		M	Z	90		12	
		△ = 5050 km = 45½°.					
	Sk	iP			19	22	12
	Outer Mongolia. Magn. = 6.7 (Up, Ki). Extremely well developed channel waves.						
» 7	Ki	iP			21	02	35
» 7	Up	iP			23	29	16
		i			23	29	24
	Ki	eP			23	28	28
» 8	Up	iP			00	23	44
		i			00	23	48
				μ		s	
		M	E	1.9		24	
		M	N	0.8		18	
		M	Z	1.7		20	
	Ki	iP			00	22	46
		i			00	22	49
		eS			00	29	35
				μ		s	
		P	Z′	0.3		1.0	
		S	E	0.9		13	
		S	N	0.7		13	
		M	E	2.1		18	
		M	N	1.8		22	
		M	Z	1.9		20	
		△ = 5150 km = 46½°.					
	Sk	iP			00	23	17
		i			00	23	20
	Alaska.						
» 8	Up	iP			01	04	11
				μ		s	
		M	E	0.8		13	
		M	N	1.8		13	
		M	Z	1.3		13	
	Ki	iP			01	03	45
				μ		s	
		M	E	2.3		14	
		M	N	1.0		17	
		M	Z	2.0		14	

1958							
Apr 8	Sk	iP			01	04	19
(cont.)	Outer Mongolia.						
» 8	Up	iP			04	20	59C
» 8	Up	iP			04	47	56
	Ki	iP			04	48	00
		i			04	48	11
	Sk	eP			04	47	40
		i			04	47	52
	Colombia.						
» 8	Up	iP			07	22	08
		iPP			07	25	00
				μ		s	
		P	Z′	0.1		1.0	
	Ki	iP			07	21	27
				μ		s	
		M	E	1.2		21	
		M	N	0.3		15	
	Sk	eP			07	22	01
	Off east coast of Honshu, Japan.						
» 8	Up	iP			10	07	16
		iPP			10	08	53
		i(PP)			10	09	00
		eLg2			10	22	58
				μ		s	
		P	Z′	0.3		1.5	
		PP	Z′	0.2		1.5	
		M	E	2.9		16	
		M	N	5.7		21	
		M	Z	4.7		17	
		△ = 4800 km = 43°.					
	Ki	eP			10	07	29
		iPP			10	09	14
		eRg			10	27	39
				μ		s	
		M	E	1.2		14	
		M	N	1.1		13	
		M	Z	1.3		16	
		△ = 5000 km = 45°.					
	Sk	iP			10	07	42
		iPP			10	09	29
		△ = 5150 km = 46½°.					
	Afghanistan. Magn. = 5.8 (Up).						
» 8	Up	iP			10	12	46
		i			10	12	55
				μ		s	
		P	Z′	0.1		1.1	
	Ki	iP			10	12	05
	Sk	eP			10	12	29
	Off east coast of Honshu, Japan.						
» 8	Up	ePKP			13	40	21
	Tonga Islands (h ~ 250 km).						
» 8	Up	iP			14	15	53
	Aleutian Islands.						

1958							
Apr 8	Up	iP			15	38	03
	Off east coast of Honshu, Japan.						
» 8	Up	iP			17	14	51D
	(Outer Mongolia).						
» 8	Up	iP			20	05	50
				μ		s	
		P	Z′	0.1		1.0	
	Ki	iP			20	05	10
	Off east coast of Honshu, Japan.						
» 9	Up	iP			04	43	54C
		i			04	43	59
		iS			04	49	53
				μ		s	
		P	Z′	0.1		0.5	
		S	Z′	0.1		1.5	
		△ = 4350 km = 39°.					
	Ki	iP			04	44	32C
		i			04	44	35
				μ		s	
		P	Z′	0.2		0.8	
		M	E	1.1		16	
		M	N	1.2		14	
		M	Z	0.6		14	
	Sk	iP			04	44	29
	Near southwest coast of Iran.						
» 9	Up	iP			06	25	40C
		i			06	25	51
		eP′P′			06	54	47
				μ		s	
		P	Z′	0.2		1.0	
		△ = 7000 km = 63°.					
	Ki	iP			06	24	48
		eP′P′			06	55	07
				μ		s	
		P	Z′	0.3		1.3	
		M	E	2.2		24	
		M	N	1.2		18	
		M	Z	1.2		18	
		△ ~ 6100 km ~ 55°.					
	Sk	iP			06	25	11
	Gulf of Alaska.						
» 9	Up	iP			16	18	27
» 9	Up	iP			18	11	45
	Ki	eP			18	11	27
				μ		s	
		P	Z′	0.1		1.4	
	Molucca Passage.						
» 10	Up	iP			01	15	36C
				μ		s	
		P	Z′	0.2		0.9	
	Ki	iP			01	15	07
	Sk	iP			01	15	36C
	Ryukyu Islands.						

1958							
Apr 10	Up	iP			01	55	06C
		ipP			01	55	18
				μ		s	
		P	Z′	0.3		1.5	
	Ki	iP			01	54	13C
		ipP			01	54	26
				μ		s	
		P	Z′	0.2		1.0	
		M	E	0.7		15	
		M	N	0.3		15	
		M	Z	0.8		16	
	Sk	iP			01	54	50
		ipP			01	55	02
	Near east coast of Kamchatka. h = 50 km (Up, Ki, Sk).						
» 10	Up	iPKP			03	56	09
				μ		s	
		PKP	Z′	0.1		0.7	
	Fiji Islands region.						
» 10	Up	iP			09	52	49
» 10	Up	iP			11	03	44
				μ		s	
		M	E	2.7		15	
		M	N	3.5		16	
		M	Z	3.6		15	
	Ki	iP			11	03	05C
		ePP			11	04	34
		eLg1			11	16	45
		eLg2			11	17	34
				μ		s	
		P	Z′	0.1		1.2	
		M	E	1.2		12	
		M	N	1.4		13	
		M	Z	0.9		10	
		△ = 4450 km = 40°.					
	Sk	iP			11	03	41
	Outer Mongolia.						
» 10	Up	iP			12	01	32C
		ipP			12	01	42
		iPP			12	04	12
				μ		s	
		P	Z′	0.3		1.0	
		M	E	1.5		17	
		M	N	1.9		18	
		M	Z	3.3		19	
		△ = 7950 km = 71½°.					
	Ki	iP			12	00	51
		ipP			12	01	02
		iPP			12	03	10
		iS			12	09	37
		eScS			12	10	41
				μ		s	
		P	Z′	0.2		1.0	
		S	E	0.7		15	
		S	N	0.4		15	
		M	E	6.7		22	
		M	N	1.3		16	

1958
Apr 10 (cont.)
Ki M z 2.0 15
△=7350 km=66°.
Sk iP 12 01 24C
ipP 12 01 34
iPP 12 03 47
Off east coast of Honshu, Japan.
h=40 km (Up, Ki, Sk).
Magn.=6.0 (Up, Ki).

» 10 Up iP 13 24 06
μ s
P z′ 0.1 0.5

» 10 Up iPP 13 37 20
μ s
PP z′ 0.1 1.4
Northern Chile (h ~ 150 km).

» 10 Up —
μ s
M E 1.1 20
M N 0.9 20
M z 1.7 20
Ki iP 23 17 14
μ s
M E 2.2 22
M N 1.2 19
M z 2.6 19
Sk eP 23 17 43
Alaska.

» 11 Up iP 01 09 39C
e 01 13 57
iS 01 18 58
μ s
P N 0.4 4
P z 1.0 4
P z′ 0.5 1.0
S E 0.8 5
M E 6.9 20
M N 8.3 19
M z 10.5 20
△=8000 km=72°.
Ki iP 01 08 59
iPcP 01 09 31
eS 01 17 42
eScS 01 18 53
μ s
P z′ 0.3 1.0
S E 2.2 15
S N 0.9 12
M E 20 20
M N 8.9 22
M z 7.9 20
△=7350 km=66°.
Sk iP 01 09 32
Off east coast of Honshu, Japan.
Magn.=6.4 (Up, Ki).

» 11 Sk i(P) 15 09 20
Seismic?

1958
Apr 11 Up iP 16 31 46

» 11 Up iP 17 38 04
iPcP 17 38 31
△=7550 km=68°.
Ki iP 17 37 10
Aleutian Islands.

» 11 Up iP 18 05 48
μ s
P z′ 0.1 1.0
Ki eP 18 04 55
Aleutian Islands.

» 11 Up iP 18 19 50
Ki iP 18 18 56
Aleutian Islands.

» 11 Up iP 23 22 09C
ipP 23 22 27
iS 23 30 51
iScS 23 31 50
iP′P′ 23 50 39
μ s
P E 1.2 3
P N 2.5 3
P z 6.4 3
P z′ 2.0 0.8
M E 4.3 23
M N 5.6 22
M z 7.4 21
△=7450 km=67°.
Ki iP 23 21 21C
e 23 25 12
iS 23 29 24
μ s
P z 3.3 4
P z′ 1.8 1.0
M E 7.6 22
M N 3.5 17
M z 7.2 20
Kurile Islands. h=60 km (Up).
Magn.=7.1 (Up, Ki).

» 11 Up iP 23 37 51
Ki iP 23 37 36
Molucca Passage.

» 12 Up iP 11 59 38
iPP 12 02 50
iS 12 10 00
μ s
S E 1.6 9
S N 4.8 11
M E 4.7 19
M N 7.2 20
M z 7.8 22
△=9450 km=85°.
Ki eP 11 59 14
iS 12 09 10

1958
Apr 12 (cont.)
Ki
μ s
S E 1.5 11
S N 2.3 11
M E 16 17
M N 8.0 16
M z 19 17
△=8900 km=80°.
Gulf of California.
Magn.=6.5 (Up, Ki).

» 12 Up iP 13 37 19C
μ s
P z 0.8 3
M E 3.2 19
M N 5.2 22
M z 4.7 18
Ki iP 13 36 53C
i 13 37 06
i 13 37 20
μ s
P z′ 0.6 1.3
M E 4.6 20
M N 2.4 21
M z 4.3 19
Sk iP 13 37 21C
Ryukyu Islands.
Magn.=6.3 (Up, Ki).

» 12 Ki iP 14 17 09

» 12 Ki iP 15 35 18
Alaska.

» 13 Ki iP 01 57 08
Alaska.

» 13 Up eLg2 04 34 44
μ s
M E 1.1 14
M N 2.3 13
M z 1.2 14
Ki iP 04 17 06
e 04 27 23
μ s
P z′ 0.1 1.1
M E 1.5 18
M N 0.5 14
M z 1.0 12
Sk iP 04 17 39
Outer Mongolia.

» 13 Up iS 09 24 33
μ s
S E 1.4 8
M E 2.8 21
M N 1.8 20
M z 1.7 19
Ki iP 09 15 55
iS 09 22 44
μ s
P z′ 0.4 1.5

1958
Apr 13 (cont.)
Ki S E 3.5 8
M E 3.3 19
M N 1.5 19
M z 2.9 20
△=5200 km=47°.
Sk iP 09 16 26
i 09 16 39
Alaska.

» 13 Up iP 12 39 41C
ePa 12 43 47
iS 12 48 13
μ s
P N 5.7 11
P z 13 11
P z′ 0.9 1.1
S E 6.2 11
S N 5.3 15
S z 2.2 11
M E 29 24
M N 26 18
M z 43 19
△=7050 km=63½°.
Ki iP 12 38 47C
ePa 12 42 06
iS 12 46 35
μ s
P E 0.9 8
P N 1.9 8
P z 3.3 8
P z′ 0.9 1.0
S E 6.4 13
S N 2.3 14
M E 25 16
M N 20 16
M z 41 17
△=6200 km=56°.
Sk iP 12 39 24
Near east coast of Kamchatka.
Magn.=6.7 (Up, Ki).

» 13 Up i(P) 12 48 03

» 13 Up iP 13 10 56
Ki iP 13 10 04
Sk eP 13 10 40
Near east coast of Kamchatka.

» 13 Up iP 14 20 45
(Greece).

» 14 Ki eP 00 44 20

» 14 Up iP 03 00 29C
μ s
M E 1.1 20
M N 0.8 18
M z 1.2 17
Ki iP 02 59 52
μ s
P z′ 0.2 1.0

1958
Apr 14 (cont.) Ki M E 1.0 18
M N 0.9 18
M Z 1.4 18
Kurile Islands.

» 14 Ki iP 03 20 53
Alaska.

» 14 Ki iP 03 58 42
Ryukyu Islands.

» 14 Up iP 16 35 35
μ s
M E 0.8 12
M N 1.1 13
M Z 1.3 15
Ki iP 16 35 11
μ s
M E 1.3 19
M N 0.6 13
M Z 0.6 10
Sk iP 16 35 43
Outer Mongolia.

» 14 Up iP 18 19 14
μ s
P Z′ 0.7 1.7
M E 1.4 21
M N 1.0 16
M Z 1.5 21
Ki iP 18 18 21
μ s
P Z′ 0.2 1.0
M E 1.5 19
M N 0.9 16
M Z 1.3 16
Sk iP 18 18 57
Near east coast of Kamchatka.

» 14 Up iP 21 45 44
iPP 21 49 24
iSKS 21 56 14
iS 21 56 44
μ s
P E 1.9 15
P Z 5.6 15
P Z′ 0.1 0.8
PP E 3.2 20
S E 6.1 21
S N 14 20
M E 19 22
M N 15 24
M Z 30 22
△ = 10350 km = 93°.
Ki iP 21 45 45
iPP 21 49 40
i 21 55 40
iSKS 21 56 18
iS 21 56 47
μ s
P E 2.0 16

1958
Apr 14 (cont.) Ki P Z 4.0 11
P Z′ 0.2 1.0
PP E 3.3 15
SKS E 12 18
S N 15 17
M E 45 24
M N 17 21
M Z 49 24
△ = 10350 km = 93°.
Sk iP 21 45 31
i 21 45 34
Near coast of Ecuador.
Magn. = 6.7 (Up, Ki).

» 14 Up iP 23 01 48
Ki eP 23 01 48
Sk iP 23 01 36
Ecuador.

» 15 Up iP 01 43 58
ePP 01 47 38
eS 01 55 02
μ s
S N 2.6 15
M E 2.5 23
M N 2.2 24
M Z 4.1 23
△ = 10350 km = 93°.
Ki iP 01 44 02
iSKS 01 54 37
eS 01 55 08
μ s
SKS E 1.7 10
S N 3.1 14
M E 6.2 24
M N 3.2 21
M Z 8.1 24
△ = 10400 km = 93½°.
Sk iP 01 43 46
Ecuador. Magn. = 6.3 (Up, Ki).

» 15 Up iP 03 34 18
i 03 34 19
μ s
i Z′ 0.2 0.6
Local. Seismic?

» 15 Up iP 04 05 31
i 04 05 39
i 04 05 45
eS 04 16 17
μ s
P Z′ 0.1 0.7
S N 3.6 20
M E 5.9 22
M N 11 26
M Z 6.2 22
△ = 9850 km = 88½°.
Ki i(P) 04 05 34
i 04 05 42

1958
Apr 15 (cont.) Ki iS 04 16 11
μ s
P Z′ 0.3 1.5
S N 3.4 20
M E 11 20
M N 4.7 21
M Z 11 21
Sk iP 04 05 16
i 04 05 23
Off west coast of Costa Rica.
Magn. = 6.3 (Up, Ki).

» 15 Up iP 04 15 47 D
μ s
P Z′ 0.1 1.0

» 15 Ki iP 09 07 06
i 09 07 20
Local? Seismic?

» 15 Up iP 10 12 15
i 10 12 32
μ s
P Z′ 0.2 1.0
Ki iP 10 11 57
ipP 10 12 26
μ s
P Z′ 0.2 1.3
Sk iP 10 12 20
Near south coast of Luzon,
Philippine Islands (h ~ 100 km).

» 15 Up iP 11 10 55
Ki iP 11 10 02 D
μ s
P Z′ 0.1 1.0
Sk eP 11 10 31
Aleutian Islands.

» 15 Ki e(P) 12 28 33

» 15 Ki iP 15 52 42
Aleutian Islands.

» 15 Up iP 16 03 21

» 15 Ki iP 22 31 40
Central Africa.

» 16 Up iP 06 40 18

» 16 Up iPKP 06 42 05
Sk iPKP 06 41 54
Off north coast of North Island,
New Zealand.

» 16 Up iP 12 48 42
i 12 49 01
μ s
P Z′ 0.1 0.6

1958
Apr 16 (cont.) Ki iP 12 48 25 D
μ s
P Z′ 0.1 0.8
Sk iP 12 48 47
Off northwest coast of Luzon,
Philippine Islands.

» 16 Up iP 21 42 00
Honshu, Japan.

» 17 Up iP 02 57 58 D
μ s
P Z′ 0.1 0.6
Ki iP 02 57 22
Sk eP 02 57 50
South of Honshu, Japan.

» 17 Up eP 03 21 13

» 17 Up iPKP2 04 06 44
μ s
PKP2 Z′ 0.1 0.7
Ki iPKP 04 06 12
Near north coast of North
Island, New Zealand.

» 17 Up —
μ s
M E 1.1 20
M N 1.2 19
M Z 1.4 20
Ki e(PS) 10 33 05
μ s
M E 1.0 18
M N 1.0 19
M Z 2.4 21
New Britain.

» 17 Up iP 11 44 17
i 11 44 26
i 11 44 33
μ s
P Z′ 0.2 1.0
M E 0.7 19
M N 0.7 20
M Z 1.4 20
Ki iP 11 43 37 C
i(pP) 11 43 56
iPcP 11 44 08
eS 11 52 25
μ s
P Z′ 0.1 1.1
M E 1.1 20
M N 0.7 20
M Z 1.9 19
△ = 7400 km = 66½°.
Sk iP 11 44 11
i 11 44 30
Near east coast of Honshu, Japan.
Magn. = 6.0 (Up, Ki).

1958							
Apr	18	Up	iP		03	22	46
		Ki	iP		03	21	56
		Sk	iP		03	22	32
		Kurile Islands.					
»	18	Up	iP		05	22	02
		Ki	eP		05	21	14
		Off east coast of Honshu, Japan.					
»	18	Up	iPKP		07	50	20
		Ki	iPKP		07	50	15
			iSKP		07	52	46
		Sk	ePKP		07	50	12
			i		07	50	24
		Fiji Islands (h ~ 600 km).					
»	18	Up	iP		14	31	15
		Ki	iP		14	30	21
		Sk	iP		14	30	56
		Off east coast of Kamchatka.					
»	18	Sk	iP		17	21	01
		Local? Seismic?					
»	18	Up	iP		18	02	26
		Ki	iP		18	01	36
		Near south coast of Kamchatka.					
»	18	Up	iP		19	18	14
			iPcP		19	18	41
		Ki	iP		19	17	26
		Sk	iP		19	18	02
		Kurile Islands.					
»	18	Ki	eP		20	12	21
			e		20	14	05
			i		20	15	13
»	18	Ki	eP		22	46	29
»	19	Up	iP		00	22	55
		Ki	eP		00	22	20
		Sk	eP		00	22	50
		South of Honshu, Japan.					
»	19	Up	eP		04	16	02
			eS		04	26	31
					μ	s	
			P	z′	0.2	2.0	
			S	N	0.4	6	
			M	E	0.8	16	
			M	N	0.7	15	
			M	z	1.6	18	
			△ = 9450 km = 85°.				
		Ki	iP		04	15	33
			eS		04	25	35
					μ	s	
			P	z′	0.2	1.5	
			S	N	0.2	9	

1958							
Apr	19	Ki	M	E	2.1	15	
(cont.)			M	N	1.3	16	
			M	z	2.7	15	
			△ = 8900 km = 80°.				
		Sk	iP		04	15	35
		Gulf of California.					
		Magn. = 5.7 (Up, Ki).					
»	19	Up	iP		14	27	03
		Ki	iP		14	26	34
					μ	s	
			P	z′	0.1	0.8	
		Sk	iP		14	27	00C
		Volcano-Mariana Islands region (h ~ 200 km).					
»	19	Up	iP		22	52	56D
					μ	s	
			P	z′	0.1	1.0	
		Ki	iP		22	52	02
					μ	s	
			P	z′	0.1	1.0	
		Sk	iP		22	52	38
		Off east coast of Kamchatka.					
»	20	Up	iP		06	22	43
		Ki	iP		06	21	50
		Aleutian Islands.					
»	20	Up	iP		13	08	39
		Ki	iP		13	08	21
		Off north coast of Luzon, Philippine Islands.					
»	20	Up	iPKP		21	33	56C
			i		21	34	20
					μ	s	
			PKP	z′	0.1	0.5	
		Ki	iPKP		21	34	11
					μ	s	
			PKP	z′	0.2	1.3	
		Sk	iPKP		21	34	01
		Sandwich Islands.					
»	21	Up	eP		05	43	40
			i		05	44	00
					μ	s	
			M	E	0.9	18	
			M	z	1.4	16	
		Ki	iP		05	43	26
					μ	s	
			M	E	1.0	14	
			M	N	0.4	15	
			M	z	1.3	14	
		Near east coast of Formosa.					
»	21	Up	iPKP		20	34	16
			iPKS		20	37	41
					μ	s	
			PKP	z′	0.1	1.6	
			PKS	N	0.5	5	

1958							
Apr	21	Up	M	E	2.6	20	
(cont.)			M	N	2.5	21	
			M	z	2.6	21	
		Ki	ePKP		20	33	55
					μ	s	
			M	E	1.7	19	
			M	N	1.6	21	
			M	z	2.5	18	
		Sk	ePKP		20	34	10
		Samoa Islands region.					
»	21	Up	iP		22	50	28
			ipP		22	51	13
			i(sP)		22	51	29
			iSKS		23	00	43
			iS		23	01	13
			i		23	01	56
			isS		23	02	29
					μ	s	
			P	z′	0.4	0.6	
			SKS	E	0.8	6	
			S	N	4.8	18	
			M	E	1.5	19	
			M	N	2.0	20	
			M	z	1.8	21	
			△ = 10350 km = 93°.				
		Ki	iP		22	50	26C
			ipP		22	51	11
			iPP		22	54	10
			iSKS		23	00	41
			eS		23	01	07
			i		23	01	59
			esS		23	02	22
					μ	s	
			P	z	1.5	8	
			P	z′	0.6	1.5	
			PP	z′	0.4	1.4	
			SKS	E	0.8	8	
			S	N	1.8	13	
			sS	E	3.5	9	
			M	E	3.3	20	
			M	N	2.5	22	
			M	z	2.4	21	
			△ = 10200 km = 92°.				
		Sk	iP		22	50	40
			ipP		22	51	25
			i(sP)		22	51	58
			iPP		22	54	36
			△ = 10550 km = 95°.				
		Sumatra. Origin time = 22 37 32. h = 180 km (Up, Ki, Sk). Magn. = 6.7 (Up, Ki).					
»	22	Up	eP		00	11	25
		Ki	iP		00	11	10
			i		00	11	35
					μ	s	
			M	E	1.1	22	
			M	N	2.0	29	
			M	z	1.9	23	

1958							
Apr	22	Sk	e(PP)		00	15	38
(cont.)		Banda Sea.					
»	22	Up	iP		01	26	32
		Ki	iP		01	26	14
		Samar, Philippine Islands.					
»	22	Ki	eP		09	21	34
		Celebes.					
»	22	Up	eP		10	08	05
			eS		10	12	28
					μ	s	
			S	E	0.4	8	
			S	N	0.2	5	
			M	E	1.3	20	
			M	N	1.8	18	
			M	z	1.5	15	
			△ = 2800 km = 25°.				
		Ki	iP		10	09	06
					μ	s	
			M	E	1.8	20	
			M	N	0.9	18	
			M	z	1.1	17	
		Sk	eP		10	08	49
			ePP		10	09	34
			△ = 3200 km = 29°.				
		Southern Turkey.					
»	22	Ki	iP		11	21	57
		Sk	iP		11	22	31
»	23	Up	iP		03	08	48
			ipP		03	09	02
			eS		03	17	49
					μ	s	
			P	z	1.1	6	
			P	z′	0.1	0.5	
			S	E	1.5	13	
			S	N	1.0	13	
			M	E	6.3	20	
			M	N	4.6	18	
			M	z	3.5	17	
			△ = 7650 km = 69°.				
		Ki	iP		03	08	01
			ipP		03	08	16
			eS		03	16	24
					μ	s	
			P	N	0.6	9	
			P	z	1.4	9	
			P	z′	0.3	0.8	
			S	E	2.3	13	
			M	E	12	17	
			M	N	5.5	18	
			M	z	10	20	
			△ = 6900 km = 62°.				
		Sk	iP		03	08	37
			i		03	08	47
		Kurile Islands. h = 60 km (Up, Ki). Magn. = 6.2 (Up, Ki).					

1958							
Apr	23	Ki	eP		03	36	30
»	23	Up	iP		05	03	40
			ipP		05	03	53
		Ki	iP		05	02	53
			ipP		05	03	06
				μ	s		
			P z′	0.2	0.9		
		Sk	eP		05	03	29
			epP		05	03	41
		Kurile Islands.					
		h = 50 km (Up, Ki, Sk).					
»	23	Up	eP		06	04	40
		Ki	eP		06	04	11
		Ryukyu Islands.					
»	23	Ki	iP		13	58	31
		Seismic?					
»	23	Ki	iP		14	37	20 D
				μ	s		
			P z′	0.1	0.8		
»	24	Ki	iP		08	07	00
		Aegean Sea.					
»	24	Ki	eP		09	58	03
		Off north coast of Luzon.					
»	24	Ki	iP		13	05	14
		Central Honshu, Japan.					
»	24	Up	eP		18	22	20
		Pacific Ocean, off south coast of Panama.					
»	24	Ki	iP		21	16	24
»	25	Up	iP		06	32	29 D
		Aleutian Islands.					
»	25	Up	iP		08	46	15
			ipP		08	46	28
		Ki	iP		08	45	21
			ipP		08	45	34
				μ	s		
			P z′	0.1	1.3		
		Aleutian Islands.					
		h = 50 km (Up, Ki).					
»	25	Ki	iP		15	08	50
»	25	Sk	eP		17	51	27
			e		17	51	45
		Crete.					
»	25	Ki	i(Sg)		17	57	45
»	25	Up	iP		18	39	47
		Hindu Kush (h ~ 150 km).					

1958							
Apr	25	Sk	e(P)		18	59	58
		Local?					
»	25	Up	iP		19	14	23
		Ki	iP		19	13	31
			ipP		19	13	43
				μ	s		
			P z′	0.1	1.3		
		Aleutian Islands.					
»	26	Up	iP		01	20	29
			ipP		01	20	43
		Ki	iP		01	19	43
			ipP		01	19	56
				μ	s		
			P z′	0.1	1.0		
		Kurile Islands region.					
		h = 55 km (Up, Ki).					
»	26	Up	iPKP		09	44	52
		Ki	iPKP		09	44	44
		Sk	iPKP		09	44	55
		New Hebrides Islands.					
»	27	Up	iPKP		08	32	15
		Ki	iPKP		08	32	08
		Tonga Islands region (h ~ 100 km).					
»	27	Up	iP		17	28	34 C
				μ	s		
			P z′	0.1	0.8		
		Ki	iP		17	27	51
				μ	s		
			P z′	0.2	1.3		
		Sk	iP		17	28	26 C
		Near east coast of Hokkaido, Japan (h ~ 100 km).					
»	27	Up	iP		19	14	49
				μ	s		
			P z′	0.2	1.2		
			M E	1.4	18		
			M N	2.5	20		
			M z	3.3	21		
		Ki	eP		19	13	54
			ipP		19	14	07
				μ	s		
			P z′	0.2	1.3		
			M E	2.3	17		
			M N	1.8	18		
			M z	3.3	20		
		Sk	iP		19	14	25
			ipP		19	14	41
		Aleutian Islands.					
		h = 60 km (Ki, Sk).					
»	28	Ki	iP		03	44	36
»	28	Up	iP		12	01	35
			iSKS		12	12	05

1958							
Apr	28	Up	iS		12	13	04
(cont.)				μ	s		
			P z	0.5	6		
			P z′	0.1	1.0		
			SKS E	2.3	13		
			S E	0.6	6		
			S N	2.3	13		
			M E	5.9	22		
			M N	2.5	19		
			M z	7.0	22		
			△ ~ 11200 km ~ 101°.				
		Ki	iP		12	01	41
			ePP		12	05	47
			iSKS		12	12	17
			eS		12	13	16
			ePS		12	14	50
				μ	s		
			P z′	0.1	1.0		
			PP z	0.4	7		
			SKS E	1.8	13		
			S N	2.1	13		
			M E	5.9	20		
			M N	3.2	19		
			M z	6.0	20		
			△ ~ 11350 km ~ 102°.				
		Sk	iP		12	01	24
			i		12	01	37
		Peru. Magn. = 6.4 (Up, Ki).					
»	28	Ki	eP		16	21	19
			i		16	21	24
		Local? Seismic?					
»	28	Ki	iP		18	20	57
		Sk	eP		18	20	52
		Caucasus.					
»	28	Ki	i(Sg)		21	04	50
		Sk	e		21	07	50
		Local.					
»	29	Ki	iP		05	15	58
		Sk	iP		05	16	31
		Outer Mongolia.					
»	29	Up	iP		13	45	02
		Ki	iP		13	44	07
		Sk	iP		13	44	32
		Southeastern Alaska.					
»	29	Up	iP		15	21	41
»	29	Up	iP		16	21	54
»	29	Up	e(P)		21	51	58
			i		21	52	19
»	30	Up	iP		08	24	14 C
			ipP		08	24	54
				μ	s		
			P z′	0.2	0.8		

1958							
Apr	30	Ki	iP		08	24	23 C
(cont.)				μ	s		
			P z′	0.2	1.0		
		Sk	iP		08	24	40
		Hindu Kush. h = 200 km (Up).					
»	30	Ki	iP		08	29	30
			i		08	29	35
		Local? Seismic?					
»	30	Up	iP		13	22	04
»	30	Up	iP		13	28	57
»	30	Up	iP		14	04	26
			i		14	04	30
				μ	s		
			P z′	0.3	0.7		
		Ki	iP		14	04	03 C
				μ	s		
			P z′	0.1	1.0		
		Kansu Province, China.					
»	30	Up	iP		14	14	14
			i		14	14	18
			i		14	14	23
				μ	s		
			P z	0.8	3		
			P z′	0.9	1.5		
			M E	4.7	18		
			M N	5.4	20		
			M z	3.1	18		
		Ki	iP		14	15	05
			i		14	15	09
			i		14	15	15
			eS		14	20	42
				μ	s		
			P z′	0.2	1.2		
			S N	0.6	10		
			M E	3.7	20		
			M N	4.0	20		
			M z	3.7	21		
			△ = 4000 km = 36°.				
		Sk	iP		14	14	25
		Off coast of Portugal.					
		Magn. = 5.7 (Up, Ki).					
May	1	Up	iPKP		00	48	00 C
			i		00	48	19
			iSKP		00	51	05
			iPKS		00	51	20
			e		01	00	27
				μ	s		
			PKP z′	0.5	1.2		
			SKP z′	0.1	0.6		
			PKS E	0.8	5		
			PKS N	1.1	4		
			M E	1.3	20		
			M N	2.5	21		
			M z	2.8	20		
		Ki	iPKP		00	47	48 C

1958								
May	1	Ki	i		00	48	15	
(cont.)			ePP		00	49	20	
			iPKKP		00	57	47	
					μ		s	
			PKP	z′	0.7		1.0	
			PP	N	0.4		10	
			PP	Z	0.7		10	
			PKKP	z′	0.4		1.2	
			M	E	2.2		20	
			M	N	1.4		18	
			M	Z	2.2		19	
		Sk	iPKP		00	47	59 C	
			New Hebrides Islands (h ~ 200 km).					
»	1	Up	iP		07	24	20	
		Ki	iP		07	24	01	
			Near west coast of Luzon, Philippine Islands.					
»	1	Up	i(PP)		09	49	32	
			(Celebes).					
»	1	Up	iP		12	45	14	
			i		12	45	19	
					μ		s	
			P	z′	0.2		0.8	
		Ki	iP		12	44	43	
					μ		s	
			P	z′	0.3		1.0	
		Sk	iP		12	45	10	
			Volcano Islands (h ~ 400 km).					
»	1	Up	iP		21	19	54	
			i		21	24	08	
			i		21	27	49	
		Ki	iP		21	21	14	
					μ		s	
			M	E	1.7		15	
			M	N	0.6		16	
		Sk	iP		21	20	38	
			Albania.					
»	2	Up	iP		03	56	20	
		Ki	i(P)		03	56	19	
		Sk	eP		03	56	39	
			(Tibet).					
»	2	Up	i(Sg)		14	29	48	
		Sk	e		14	29	56	
			e(Sg)		14	30	15	
			Local.					
»	2	Up	iP		21	27	56	
					μ		s	
			P	z′	0.1		0.6	
		Ki	iP		21	28	30	
		Sk	eP		21	28	29	
			Southern Iran.					
»	3	Up	iP		06	56	42	

1958								
May	3	Ki	iP		07	19	38	
			Atlantic Ocean.					
»	3	Up	iP		08	12	35	
					μ		s	
			M	E	1.3		20	
			M	N	1.4		17	
			M	Z	1.6		18	
		Ki	iP		08	13	16	
			e(S)		08	23	41	
					μ		s	
			M	E	2.0		21	
			M	N	0.8		19	
			M	Z	1.8		18	
			Atlantic Ocean.					
»	3	Up	iP		20	23	30	
			iS		20	27	45	
					μ		s	
			P	z′	0.2		0.5	
			S	E	0.6		4	
			S	N	0.7		4	
			M	E	2.1		16	
			M	N	4.5		15	
			M	Z	5.9		15	
			△ = 2650 km = 24°.					
		Ki	iP		20	24	42	
					μ		s	
			P	z′	0.3		1.7	
			M	E	2.4		17	
			M	N	2.0		19	
			M	Z	3.0		19	
		Sk	iP		20	24	09	
			Near south coast of Greece.					
»	4	Up	iP		10	55	22	
		Ki	iP		10	54	37	
		Sk	iP		10	55	09	
			Near south coast of Honshu, Japan.					
»	4	Up	i		11	04	25	
		Ki	eP		10	58	05	
			French Alps.					
»	4	Up	iPKP		20	19	33	
			Fiji Islands region (h ~ 550 km).					
»	5	Up	iP		05	27	39	
			e		05	33	18	
					μ		s	
			P	z′	0.1		1.0	
			M	E	3.2		20	
			M	N	4.7		20	
			M	Z	1.7		16	
		Ki	iP		05	28	25 C	
			e		05	36	02	
					μ		s	
			P	z′	0.1		1.0	
			M	E	4.5		18	

1958								
May	5	Ki	M	N	2.5		18	
(cont.)			M	Z	2.2		16	
		Sk	iP		05	28	17	
			i		05	28	27	
			Iran-Iraq border.					
			Magn. = 5.5 (Up, Ki).					
»	5	Up	iP		06	42	51 D	
			ipP		06	43	05	
			iS		06	51	52	
			i		06	52	32	
					μ		s	
			P	N	0.4		2	
			P	Z	0.8		2	
			P	z′	0.7		1.2	
			pP	z′	1.3		1.6	
			M	E	1.0		19	
			M	N	1.0		22	
			△ = 7700 km = 69½°.					
		Ki	iP		06	43	37 D	
			i		06	43	47	
			ipP		06	43	51	
			eSKS		06	53	43	
					μ		s	
			P	Z	0.4		4	
			P	z′	0.8		1.0	
			pP	z′	1.0		1.5	
			M	E	0.9		16	
			M	N	0.6		17	
			M	Z	1.2		17	
		Sk	iP		06	43	16 D	
			ipP		06	43	30	
			Congo. h = 60 km (Up, Ki, Sk).					
			Magn. = 6.4 (Up, Ki).					
			This shock is probably very suitable for a fault-plane determination (extremely clear P phases).					
»	5	Ki	iP		13	42	55	
			iPcP		13	43	38	
		Sk	iP		13	43	25	
			Aleutian Islands (h ~ 60 km).					
»	5	Up	iPg		14	09	10	
			iSn		14	09	40	
			iSg		14	10	02	
					μ		s	
			Sg	z′	0.1		0.5	
			△ = 460 km = 4.1°.					
		Ki	eSg		14	13	17	
			△ = 1110 km = 10.0°.					
		Sk	e(Pg)		14	09	12	
			eSg		14	10	22	
			△ = 520 km = 4.7°.					
			South coast of Norway, 59°N, 10°E. Origin time = 14 07 47.					
»	6	Up	iP		00	03	46	
					μ		s	
			M	N	1.0		22	

1958								
May	6	Ki	eP		00	02	55	
(cont.)			eS		00	10	33	
					μ		s	
			M	E	0.8		21	
			M	N	0.8		23	
			M	Z	1.7		26	
			△ = 6000 km = 54°.					
		Sk	iP		00	03	20 D	
			Near coast of southeastern Alaska.					
»	6	Up	iP		04	21	09	
			eS		04	25	33	
			eLg2		04	29	15	
					μ		s	
			M	E	1.4		12	
			M	N	1.6		18	
			M	Z	1.4		14	
			△ = 2650 km = 24°.					
		Ki	iP		04	21	44	
			e		04	27	20	
			e		04	27	38	
					μ		s	
			M	E	1.5		18	
			M	N	0.6		13	
			M	Z	1.0		12	
		Sk	eP		04	21	56	
			i		04	27	53	
			Caucasus.					
»	6	Up	eP		10	03	46	
		Ki	iP		10	04	21	
		Sk	iP		10	04	18	
»	6	Up			—			
					μ		s	
			M	E	0.8		20	
			M	N	1.0		22	
			M	Z	1.4		20	
		Ki	iP		14	13	01	
			Aleutian Islands.					
»	6	Sk	iP		14	30	17 D	
			North Atlantic Ocean.					
»	6	Sk	i(P)		14	40	06	
			Local? Seismic?					
»	7	Up			—			
					μ		s	
			M	E	1.4		21	
			M	N	0.7		20	
			M	Z	1.7		20	
		Ki	iP		07	36	51	
					μ		s	
			M	E	0.6		14	
			M	N	0.5		19	
			M	Z	0.7		15	
		Sk	iP		07	36	22	
			North Atlantic Ocean.					

1958
May 7 Ki iP 07 51 27
Sk eP 07 50 55
North Atlantic Ocean.

» 7 Up eL 13 51
μ s
M N 1.1 20
Afghanistan-Pakistan border.

» 7 Up e(P) 14 04 24

» 7 Up iP 14 55 33
i 14 55 44
iPP 14 57 10
μ s
P z′ 0.1 0.5
M E 1.1 14
M N 0.7 11
M z 1.3 15
Ki iP 14 55 43
i 14 55 52
iPP 14 57 29
eLg1 15 11 05
μ s
P z′ 0.1 0.8
M E 1.2 11
M N 0.5 12
M z 1.3 12
Sk iP 14 55 59
iPP 14 57 52
Afghanistan-Pakistan border.

» 7 Ki eP 19 00 58

» 7 Up iP 22 07 52
ipP 22 08 04
μ s
P z′ 0.2 0.8
Ki iP 22 07 01
ipP 22 07 13
μ s
P z′ 0.2 0.7
Sk iP 22 07 36 D
ipP 22 07 48
Kamchatka region.
h = 50 km (Up, Ki, Sk).

» 8 Ki iP 02 53 54
μ s
P z′ 0.1 1.4
M E 0.7 18
M N 0.4 15
M z 1.3 23
North Atlantic Ocean.

» 8 Up iSKS 13 05 13
iS 13 06 40
isS 13 08 20
μ s
S N 1.7 13

1958
May 8 (cont.) Up M E 2.9 22
M z 3.1 22
Ki ePKP 12 58 59
iPP 12 59 44
e 13 00 26
eSKS 13 05 26
e! 13 06 28
eS 13 07 10
e! 13 08 53
e(SS) 13 15 07
μ s
PP z 0.7 8
PP z′ 0.2 1.5
SKS E 1.1 9
S N 0.9 12
M E 1.8 20
M N 1.7 20
M z 1.7 22
Sk iPP 12 59 11
Salta Province, Argentina
(h ~ 200 km).
Magn. = 6.3 (Ki).

» 8 Up i(P) 13 10 21
Ki iP 13 09 58
i 13 10 06
Sk eP 13 10 14
(Arctic Ocean).

» 8 Up i(P) 15 24 25
Ki iP 15 23 58
Sk iP 15 24 26

» 8 Up iP 17 51 23

» 8 Ki iSg 22 27 42
e 22 28 57
Sk i(Sg) 22 28 18
i 22 29 59
North Sweden, 65¼°N, 19½°E.
Origin time = 22 26 16.
Solution obtained by combination with Finnish data.

» 8 Ki e 22 32 36
e 22 32 44
e(Sg) 22 33 16
Local.

» 9 Up iP 02 46 03
i 02 46 21
eS 02 50 25
eLg1 02 53 58
μ s
P z′ 0.1 1.0
S E 1.2 9
S N 1.5 8
M E 8.0 19
M N 11 13
M z 16 14

1958
May 9 (cont.) Up △ = 2700 km = 24½°.
Ki iP 02 47 10 D
eS 02 52 23
e 02 53 39
eLg1 02 56 51
iRg 03 00 18
μ s
P z′ 0.1 0.8
S N 1.1 20
M E 4.2 12
M N 2.8 10
M z 3.6 10
△ = 3500 km = 31½°.
Sk iP 02 46 44
Dodecanese Islands.
Magn. = 5.4 (Up, Ki).

» 9 Up iPKP 04 58 47
Ki iPKP 04 58 55
eSKS 05 05 29
i! 05 06 44
eS 05 07 35
i 05 19 35
μ s
PKP z′ 0.1 1.0
SKS E 0.6 8
S N 0.4 9
Sk iPKP 04 58 46
Cordoba-La Rioja Provinces,
Argentina (h ~ 100 km).

» 10 Up iP 23 04 14
μ s
P z′ 0.4 2.0
Ki iP 23 03 15
i 23 03 23
μ s
P z′ 1.6 2.5
M E 6.0 25
M N 1.2 17
M z 2.7 18
Sk iP 23 03 44
Central Alaska.

» 10 Ki iP 23 21 57
Alaska.

» 11 Up iP 05 33 31
iS 05 41 17
μ s
P z′ 0.3 1.5
△ = 6150 km = 55½°.
Ki iP 05 32 32
iS 05 39 30
μ s
P z′ 0.3 1.5
S E 2.0 9
S N 1.4 8
M E 6.5 26
M N 2.3 20
M z 2.8 16

1958
May 11 (cont.) Ki △ = 5350 km = 48°.
Sk iP 05 33 03 D
Central Alaska.
Magn. = 6.0 (Up, Ki).

» 11 Up iP 05 46 35
Ki iP 05 45 34
μ s
P z′ 0.2 1.5
Sk eP 05 46 05
Alaska.

» 11 Ki iP 09 17 21
Alaska.

» 11 Up iP 12 18 58 C
Ki iP 12 18 27
i 12 18 37
μ s
M z 1.4 20
Ryukyu Islands.

» 11 Up iP 14 05 49
i 14 05 56
Sk eP 14 06 00

» 12 Up iP 05 49 17
ipP 05 49 29
μ s
P z′ 0.1 1.0
Ki iP 05 48 25 C
ipP 05 48 36
μ s
P z′ 0.2 1.2
Sk iP 05 49 05
Aleutian Islands.
h = 50 km (Up, Ki).

» 12 Ki iP 06 38 16
Off west coast of Sumatra.

» 12 Sk iP 13 07 53 C
Hindu Kush.

» 12 Up eL 13 43
μ s
M E 0.5 14
M N 0.5 15
Ki eL 13 42
μ s
M E 0.5 14
M N 0.4 15
Outer Mongolia.

» 12 Up iP 14 23 17
Ki iP 14 24 26
Sk iP 14 23 56
Eastern Mediterranean.

» 12 Up iP 17 01 51 D
i 17 02 09

1958							
May 12	Up	iPP		17	04	47	
(cont.)		iSKS		17	11	36	
		ipS		17	11	59	
				μ	s		
		P	z′	0.4	0.7		
		PP	z′	0.1	1.0		
		SKS	E	0.5	3		
		SKS	N	0.3	3		
		M	E	0.8	21		
		M	N	0.6	22		
	Ki	iP		17	01	16	
		ipP		17	01	57	
		e(ScS)		17	10	30	
				μ	s		
		P	z′	0.4	1.0		
		M	E	1.5	23		
		M	N	1.4	22		
		M	z	1.2	20		
	Sk	iP		17	01	47 D	
		iPP		17	04	39	
	South of Honshu, Japan.						
	h = 160 km (Ki).						
	Magn. = 6.2 (Up, Ki).						
» 12	Ki	ePP		18	47	16	
				μ	s		
		PP	z′	0.1	1.0		
	Marshall Islands region.						
	Nuclear explosion.						
» 12	Up	iP		21	25	48	
	Peru (h ~ 150 km).						
» 12	Up	iP		22	26	56	
	Ki	eP		22	26	04	
	Aleutian Islands.						
» 13	Ki	iP		11	26	00	
	Alaska.						
» 13	Up	iP		16	18	11	
	Ki	eSg		16	18	16	
	Near Kola Peninsula.						
» 14	Ki	eL		04	52		
				μ	s		
		M	E	0.7	20		
		M	N	0.4	20		
		M	z	0.7	20		
	New Ireland.						
» 14	Up	i(P)		07	51	38	
» 14	Sk	eP		10	21	49	
» 14	Up	iP		12	47	15	
		i		12	47	23	
				μ	s		
		P	z′	0.1	1.0		
	Ki	iP		12	47	15	
		i		12	47	22	

1958							
May 14	Ki				μ	s	
(cont.)		P	z′		0.4	2.0	
	Sk	i(P)		12	47	42	
	Andaman Islands region.						
» 14	Sk	eP		16	45	45	
» 15	Up	iPKP		00	09	50	
	South of Fiji Islands.						
» 15	Up	iP		04	35	53	
		iPcP		04	36	19	
				μ	s		
		P	z′	0.1	0.5		
	△ = 7550 km = 68°.						
	Ki	iP		04	35	01	
		iPcP		04	35	45	
				μ	s		
		M	E	0.4	18		
		M	N	0.3	18		
		M	z	0.9	19		
	△ = 6800 km = 61°.						
	Sk	iP		04	35	31	
		iPcP		04	36	04	
	△ = 7200 km = 65°.						
	Aleutian Islands.						
» 15	Up	i(PKP)		05	00	15	
		i		05	00	23	
	Ki	iPKP		05	00	08	
	Tonga Islands region.						
» 15	Up	iP		06	47	23	
» 15	Up	e(SS)		14	55	20	
		e		14	58	27	
				μ	s		
		M	E	0.9	22		
		M	N	0.4	11		
	Ki			—			
				μ	s		
		M	E	0.3	15		
		M	N	0.3	12		
		M	z	0.3	12		
	Sk	eP		14	51	42	
		i		14	51	50	
	Greece.						
» 15	Up	iP		15	34	41 D	
	Sk	iP		15	35	25	
» 15	Up			—			
				μ	s		
		M	N	1.2	26		
	Ki	eP		18	58	29	
		i		18	58	36	
		e		19	08	51	
				μ	s		
		M	E	0.8	19		
		M	N	0.6	17		
		M	z	1.2	20		

1958							
May 16	Up	iP		02	15	10	
	Ki	iP		02	14	16	
		iPcP		02	15	02	
	△ = 6650 km = 60°.						
	Sk	eP		02	14	47	
	Aleutian Islands.						
» 16	Up	iP		09	24	21	
		eS		09	28	47	
				μ	s		
		M	E	1.0	16		
		M	N	1.8	20		
		M	z	1.4	16		
	△ = 2700 km = 24½°.						
	Ki	iP		09	25	06	
		e		09	30	19	
		eLg1		09	34	38	
				μ	s		
		M	E	1.5	12		
		M	N	1.0	13		
		M	z	1.0	11		
	Sk	eP		09	24	37	
	Caucasus.						
» 16	Up	iP		13	59	00	
		i		13	59	07	
» 16	Ki	iP		16	30	52	
» 16	Up	iP		18	25	22	
		i		18	25	32	
				μ	s		
		M	E	0.5	12		
		M	N	0.4	10		
		M	z	0.6	12		
	Ki	iP		18	25	11	
		i		18	25	20	
	Sk	iP		18	25	38	
	Sinkiang Province, China.						
» 16	Ki	iP		18	41	15	
	(Turkey).						
» 16	Ki	e(P)		21	32	08	
» 17	Up	iP		05	31	30	
				μ	s		
		M	E	1.2	18		
		M	N	0.3	16		
	Ki	iP		05	32	40	
		i		05	32	43	
				μ	s		
		P	z′	0.1	1.1		
	Sk	eP		05	32	00	
	Libya.						
» 17	Up	eL		07	48		
				μ	s		
		M	E	2.2	19		
		M	N	1.8	20		
		M	z	3.5	20		

1958							
May 17	Ki	eL		07	47		
(cont.)				μ	s		
		M	E	2.0	19		
		M	N	1.0	19		
		M	z	2.6	19		
	New Britain region.						
» 17	Up	iP		08	36	52	
	Ki	iP		08	36	52	
				μ	s		
		P	z′	0.1	1.0		
	Sk	iP		08	37	05 D	
	Near south coast of Sumatra.						
» 17	Up	iP		15	49	25	
				μ	s		
		P	z′	0.1	0.8		
		M	E	1.1	20		
		M	N	0.8	22		
	Ki	iP		15	48	31	
		eS		15	56	42	
				μ	s		
		S	N	0.2	8		
		M	E	0.6	16		
		M	N	0.8	21		
		M	z	0.8	18		
	△ = 6700 km = 60½°.						
	Sk	eP		15	49	05	
	Aleutian Islands.						
» 17	Ki	eP		16	53	54	
		e		17	03	23	
				μ	s		
		M	E	0.5	20		
		M	N	0.6	20		
		M	z	0.7	20		
	Andaman Islands region.						
» 17	Sk	iP		21	03	37	
	Greece.						
» 18	Up	ePKP		02	52	07	
		ePP		02	54	05	
		iPKS		02	55	18	
				μ	s		
		PP	z	1.9	16		
		PKS	E	0.9	9		
		PKS	N	1.1	9		
		M	E	5.6	22		
		M	N	8.0	22		
		M	z	10	22		
	△ ~ 14200 km ~ 128°.						
	Ki	iPKP		02	51	47	
		ePP		02	53	23	
				μ	s		
		PP	N	0.5	16		
		PP	z	1.3	16		
		M	E	3.7	18		
		M	N	2.6	22		
		M	z	5.3	18		

1958						
May 18	Ki	△ ~ 13450 km ~ 121°.				
(cont.)	Sk	iPKP		02	51	58
		New Hebrides Islands.				
		Magn. = 6.3 (Up, Ki).				
» 18	Up	ePP		12	42	28
		ePKS		12	43	43
				μ	s	
		M	E	2.9	22	
		M	N	2.8	21	
		M	Z	4.8	21	
	Ki	ePKP		12	40	15
		ePP		12	41	49
				μ	s	
		PP	Z	1.2	13	
		M	E	1.7	19	
		M	N	1.7	20	
		M	Z	4.5	20	
	Sk	iPKP		12	40	27
		New Hebrides Islands.				
		Magn. = 6.2 (Up, Ki).				
» 18	Up	iP		14	28	26
» 19	Up	eL		01	07	
				μ	s	
		M	E	1.1	20	
		M	N	1.0	18	
		M	Z	1.2	22	
	Ki	eL		01	06	
				μ	s	
		M	E	0.9	18	
		M	N	0.5	18	
		M	Z	1.2	20	
		New Hebrides Islands.				
» 19	Up	iP		02	27	02
	Ki	iP		02	26	36
		i		02	26	40
				μ	s	
		P	z′	0.1	1.0	
		M	E	0.4	10	
		M	Z	0.7	12	
	Sk	iP		02	27	09 D
		Outer Mongolia.				
» 19	Up	iP		03	07	32
	Sk	iP		03	08	01
» 19	Ki	i(P)		16	26	52
		i		16	27	38
		i(Sg)		16	27	54
		Local.				
» 19	Sk	eP		18	23	19
		Ionian Islands.				
» 19	Up	e(Pn)		23	17	10
		iPg		23	17	29
		iSn		23	18	17
		i		23	18	25

1958						
May 19	Up	i		23	18	29
(cont.)		iS*		23	18	39
		iSg		23	18	44
				μ	s	
		Sg	N	0.4	1	
		Sg	z′	0.2	0.5	
		△ = 660 km = 5.9°.				
	Ki	iSn		23	19	10
		iSg		23	20	13
		△ ~ 920 km ~ 8.3°.				
	Sk	ePg		23	16	32
		i		23	16	38
		iSn		23	16	57
		i		23	17	08
		iSg		23	17	10
		△ = 320 km = 2.9°.				
		West coast of Norway, in the vicinity of Ålesund, 62.4°N, 6.7°E.				
		Origin time = 23 15 35.				
» 20	Up	i(P)		00	17	23
» 20	Up	iPKP		06	03	20
				μ	s	
		PKP	z′	0.1	0.6	
	Ki	iSKP		06	05	54
		South of Fiji Islands (h ~ 550 km).				
» 20	Up	iP		19	24	49
	Ki	iP		19	24	38
» 20	Up	iP		19	33	39
		i		19	33	49
» 21	Ki	iP		04	56	56
		Near south coast of Formosa (h ~ 100 km).				
» 21	Up	iP		10	17	50
				μ	s	
		P	z′	0.1	0.8	
	Ki			—		
				μ	s	
		M	E	0.8	14	
	Sk	iP		10	18	38
		Turkey.				
» 21	Up	iSg		16	20	36
	Sk	e		16	21	55
		iSg		16	22	23
		Gulf of Finland, 60°N, 26°E.				
		Origin time = 16 18 21.				
» 22	Up	iP		06	05	08
» 22	Up	iSg		06	40	15
	Sk	eSg		06	41	57
		Gulf of Finland, 60°N, 26°E.				
		Origin time = 06 37 58.				

1958						
May 22	Up	iP		11	44	02
		i		11	44	14
				μ	s	
		P	z′	0.2	0.9	
	Ki	iP		11	43	08
	Sk	eP		11	43	41
		Aleutian Islands.				
» 22	Up	eL		15	59	
				μ	s	
		M	E	3.2	20	
		M	N	1.8	20	
		M	Z	4.0	19	
	Ki	eL		15	57	
				μ	s	
		M	E	1.2	18	
		M	N	1.6	17	
		M	Z	3.6	20	
		New Britain region.				
» 22	Up	iP		22	20	57
		i		22	21	16
	Ki	iP		22	20	04
	Sk	eP		22	20	38
		Aleutian Islands.				
» 23	Ki	e(P)		04	10	29
		Alaska.				
» 23	Up	iP		20	56	46
		i		20	57	09
	Ki	eP		20	57	26
		Caucasus.				
» 23	Up	iP		23	52	07
		i		23	52	18
	Ki	iP		23	51	39
		Mariana Islands region.				
» 24	Ki	iP		02	00	22
» 24	Ki	iPKP		07	49	44
		Southwest of Tasmania.				
» 24	Up	iP		10	53	03
	Ki	iP		10	52	35 D
» 24	Ki	e(P)		11	02	12
		i		11	02	18
				μ	s	
		i	z′	0.3	1.0	
		Seismic?				
» 24	Ki	iP		16	47	29
		New Guinea.				
» 24	Up	iP		20	17	37 D
	Ki	iP		20	17	30
	Sk	iP		20	17	50
		(Assam).				

1958						
May 24	Ki	eP		22	25	43
		Gulf of Aden.				
» 24	Ki	iP		22	35	25
		Gulf of Aden.				
» 24	Up	iP		23	16	29
	Ki	iP		23	15	51
				μ	s	
		M	E	0.3	19	
		M	N	0.5	18	
		M	Z	0.8	18	
		Off Cape Mendocino, California.				
» 25	Up	iP		00	02	42C
				μ	s	
		M	E	1.5	23	
		M	N	2.2	24	
		M	Z	1.7	24	
	Ki	iP		00	03	33
		ePa		00	07	03
		eS		00	11	39
				μ	s	
		P	z′	0.1	1.5	
		M	E	1.3	18	
		M	N	0.9	15	
		M	Z	1.6	16	
		△ = 6500 km = 58 ½°.				
	Sk	iP		00	03	15
		Gulf of Aden.				
» 25	Up	iP		00	46	28 D
		i		00	47	38
				μ	s	
		P	z′	0.2	0.7	
		M	E	1.3	20	
		M	N	1.5	17	
		M	Z	2.3	17	
	Ki	iP		00	45	35
				μ	s	
		M	E	1.5	19	
		M	N	1.0	17	
		M	Z	1.8	18	
	Sk	iP		00	46	08
		Aleutian Islands.				
» 25	Up	iP		01	36	48
		i		01	37	04
» 25	Up	iP		03	02	56
				μ	s	
		M	N	0.6	18	
	Ki	iP		03	03	41
		ePa		03	07	10
		eS		03	11	45
				μ	s	
		P	z′	0.1	1.2	
		M	E	0.6	14	
		M	N	0.5	14	
		M	Z	0.7	15	

1958							
May 25 (cont.)	Ki	△ ~ 6500 km ~ 58½°.					
	Sk	iP			03	03	29
		Gulf of Aden.					
» 25	Up	iP			08	14	46
» 25	Up	iP			10	17	18
» 25	Up	iP			15	05	34
		eP′P′			15	33	45
					μ	s	
		P	z′		0.4	0.8	
		M	E		1.1	20	
		M	N		1.4	18	
		M	z		1.8	17	
		△ = 7650 km = 69°.					
	Ki	iP			15	04	41
		iPcP			15	05	27
					μ	s	
		P	z′		0.1	1.0	
		PcP	z′		0.1	1.1	
		M	E		0.9	18	
		M	N		1.0	17	
		M	z		1.4	17	
	Sk	iP			15	05	15
		i			15	05	29
		iPcP			15	05	47
		Aleutian Islands.					
» 25	Up	iP			17	52	21
					μ	s	
		P	z′		0.6	1.5	
		M	E		1.1	20	
		M	N		0.7	20	
		M	z		0.8	16	
	Ki	iP			17	51	50
		e			18	19	14
					μ	s	
		P	z′		0.2	1.6	
		M	E		0.7	17	
		M	N		0.6	15	
		M	z		0.8	16	
	Sk	iP			17	52	21
		Near west coast of Kyushu, Japan.					
» 25	Up	iP			21	25	04
		eSKS			21	35	36
		eS			21	36	16
		ePS			21	37	41
					μ	s	
		SKS	E		0.6	4	
		S	N		3.6	20	
		M	E		6.5	24	
		M	N		3.2	22	
		M	z		6.2	22	
	Ki	iP			21	25	08
		i			21	25	19
		ePP			21	29	01
		iSKS			21	35	43
		eS			21	36	24
1958							
May 25 (cont.)	Ki	ePKKP			21	42	06
					μ	s	
		P	z		0.8	14	
		P	z′		0.2	1.5	
		SKS	E		1.0	7	
		S	N		2.0	20	
		M	E		3.1	19	
		M	N		1.6	20	
		M	z		4.1	22	
	Sk	iP			21	24	53
		ePKKP			21	42	04
		i			21	42	15
		Ecuador-Peru border region (h ~ 100 km). Magn. = 6.3 (Up, Ki).					
» 26	Up	iP			09	03	06
	Ki	iP			09	03	09
	Sk	iP			09	02	55
		Ecuador-Peru border.					
» 26	Up	iP			11	07	25C
		ipP			11	07	58
		eS			11	16	11
		isS			11	17	06
		iP′P′			11	35	44
		i			11	36	19
					μ	s	
		P	z′		0.1	0.5	
		△ ~ 7550 km ~ 68°.					
	Ki	iP			11	06	32
		ipP			11	07	06
		eS			11	14	28
		esS			11	15	22
		iP′P′			11	36	09
					μ	s	
		P	z′		0.2	0.9	
		pP	z′		0.4	1.2	
		S	E		0.4	9	
		S	N		0.3	9	
		M	E		0.5	17	
		M	N		0.5	18	
		M	z		0.3	16	
		△ ~ 6650 km ~ 60°.					
	Sk	iP			11	07	03
		ipP			11	07	36
		iP′P′			11	35	56
		Aleutian Islands. h = 140 km (Up, Ki, Sk). Magn. = 5.8 (Up, Ki).					
» 26	Up	iP			11	56	37
» 26	Ki	iP			14	31	32
		Arctic Ocean.					
» 26	Ki	iPKP			16	36	14
		Fiji Islands (h ~ 600 km).					
» 27	Up	iP			04	46	42
1958							
May 27	Up	iP			18	32	43C
		ipP			18	33	11
		iS			18	36	45
		i			18	37	08
		i			18	39	44
		iScS			18	43	27
					μ	s	
		P	z′		0.8	0.5	
		pP	z′		0.6	0.5	
		S	E		0.9	7	
		S	N		1.2	4	
		S	z′		0.2	0.9	
		M	E		1.2	13	
		△ ~ 2650 km ~ 24°.					
	Ki	iP			18	33	50
		iS			18	38	42
		i(ScP)			18	40	06
		i			18	41	35
					μ	s	
		P	z′		0.4	0.8	
		S	E		0.4	8	
		M	E		0.5	11	
		△ ~ 3450 km ~ 31°.					
	Sk	iP			18	33	23C
		iS			18	37	55
		Dodecanese Islands. h = 140 km (Up).					
» 28	Up	eL			00	25	
					μ	s	
		M	E		1.4	26	
		M	N		0.9	21	
		M	z		1.3	25	
		North coast of New Guinea.					
» 28	Up	iP			00	29	04
		i			00	29	29
	Ki	iP			00	29	03
	Sk	iP			00	29	20C
		Nicobar Islands region.					
» 29	Ki	iP			02	42	50
		e(S)			02	44	04
		eT			02	48	43
					μ	s	
		M	E		0.6	16	
		M	N		0.3	12	
		M	z		0.6	16	
		△ ~ 700 km ~ 6.3°.					
	Sk	eP			02	43	13
		iS			02	44	53
		△ ~ 970 km ~ 8.7°.					
		East of Jan Mayen, near 72°N, 7°E.					
» 29	Up	iP			03	23	30
		iPP			03	25	05
					μ	s	
		P	z′		0.1	0.6	
		△ = 4550 km = 41°.					
	Ki	iP			03	23	36
1958							
May 29 (cont.)	Ki	i			03	23	41
					μ	s	
		P	z′		0.1	1.0	
	Sk	iP			03	23	55C
		iPP			03	25	37
		△ = 4900 km = 44°.					
		Tadzhik, U.S.S.R.					
» 29	Up	iP			05	32	59D
					μ	s	
		P	z′		0.3	0.5	
	Ki	iP			05	32	27D
		iPP			05	35	19
					μ	s	
		P	z′		0.4	0.9	
		PP	z′		0.1	1.1	
	Sk	iP			05	32	55D
		iPP			05	36	03
		Bonin Islands region (h ~ 450 km).					
» 29	Ki	iP			07	11	54
	Sk	iP			07	11	50
		Oaxaca, Mexico.					
» 29	Sk	iP			08	48	12
		Greece.					
» 30	Up	iP			01	17	41
					μ	s	
		P	z′		0.1	0.7	
	Ki	iP			01	17	50C
					μ	s	
		P	z′		0.1	1.0	
	Sk	iP			01	18	07
		iPP			01	19	47
		Hindu Kush.					
» 30	Ki	iP			03	21	53C
		Yugoslavia.					
» 30	Up	iP			05	21	36
	Ki	iP			05	22	20
		i			05	22	23
					μ	s	
		P	z′		0.1	1.0	
		M	E		0.7	15	
		M	N		0.5	15	
		Caucasus.					
» 30	Up	eP			13	40	41
		i			13	40	49
		i			13	40	59
		iS			13	45	09
		△ ~ 2850 km ~ 25½°.					
	Ki	eP			13	41	49
					μ	s	
		M	E		0.9	20	
		M	N		0.5	18	
	Sk	eP			13	41	20
		Near south coast of Crete.					

1958							
May	30	Up	eP		15	12	52
»	30	Up	iP		16	23	17C
			ipP		16	23	42
			e		16	32	22
			eS		16	32	44
					μ	s	
			P	z′	0.1	1.0	
			S	N	0.2	5	
			M	E	0.7	25	
			M	N	0.8	22	
			△ ~ 8450 km ~ 76°.				
		Ki	iP		16	22	53C
			ipP		16	23	17
			esP		16	23	27
			eS		16	32	02
					μ	s	
			P	z′	0.2	1.0	
			S	E	0.3	9	
			S	N	0.3	9	
			M	E	0.5	16	
			M	N	0.3	10	
		Sk	iP		16	23	21
			ipP		16	23	45
			isP		16	24	12
			Near north coast of Formosa.				
			h = 100 km (Up, Ki, Sk).				
			Magn. = 5.8 (Up, Ki).				
»	30	Up	iP		18	15	49C
			i		18	15	54
			iS		18	24	50
			e(ScS)		18	25	41
			iScS		18	25	51
			eP′P′		18	44	12
					μ	s	
			P	z	0.7	2	
			P	z′	0.4	0.7	
			S	E	1.0	13	
			S	N	1.1	11	
			M	E	3.4	23	
			M	N	4.8	18	
			M	z	3.1	18	
			△ = 7550 km = 68°.				
		Ki	iP		18	14	55
			i		18	15	01
			e(Pa)		18	19	01
			iS		18	23	12
			iP′P′		18	44	36
					μ	s	
			P	N	0.5	10	
			P	z	0.9	10	
			P	z′	1.1	1.0	
			S	E	1.0	12	
			S	N	0.6	10	
			M	E	4.8	18	
			M	N	2.9	19	
			M	z	2.8	19	
			△ = 6650 km = 60°.				
		Sk	iP		18	15	26
			i		18	15	31

1958							
May	30	Sk	eP′P′		18	44	20
(cont.)			Aleutian Islands.				
			Magn. = 6.0 (Up, Ki).				
»	30	Up	eP		19	20	07
		Ki	iP		19	19	15
					μ	s	
			P	z′	0.1	1.0	
		Sk	iP		19	19	45
			Aleutian Islands.				
»	30	Up	iP		19	40	34
		Ki	iP		19	39	41
		Sk	iP		19	40	11
			Aleutian Islands.				
»	30	Up	i(PKP)		21	39	12
		Ki	ePKP		21	39	04
		Sk	iPKP		21	39	14
			Fiji Islands region.				
»	30	Up	iP		23	19	19
			Southern Kurile Islands.				
»	31	Up	iP		02	56	17
		Ki	iP		02	55	23C
					μ	s	
			P	z′	0.1	1.0	
		Sk	iP		02	55	54
			Aleutian Islands.				
»	31	Up	iP		03	55	30
			i		03	55	37
			eS		03	59	55
					μ	s	
			P	z′	0.1	1.0	
			S	E	0.2	4	
			S	N	0.3	5	
			M	E	3.2	20	
			M	N	3.9	20	
			M	z	2.3	15	
			△ ~ 2800 km ~ 25°.				
		Ki	iP		03	56	13
					μ	s	
			P	z′	0.1	1.0	
			M	E	3.0	14	
			M	N	2.1	15	
		Sk	eP		03	56	29
			Caucasus. Magn. = 5.2 (Up, Ki).				
»	31	Up	iP		09	36	42
			i		09	36	49
					μ	s	
			M	E	1.1	20	
			M	N	1.8	20	
			M	z	0.8	15	
		Ki	iP		09	37	24
					μ	s	
			M	E	1.0	14	
			M	N	0.7	14	
		Sk	e(P)		09	37	46
			Caucasus.				

1958							
May	31	Up	iP		10	34	44
		Ki	iP		10	35	18
					μ	s	
			M	E	0.3	15	
			M	N	0.3	15	
»	31	Up	iPKP		14	32	55 D
		Ki	ePKP		14	32	36
		Sk	iPKP		14	32	49
			South of Kermadec Islands.				
»	31	Up	iPKP		19	51	42
			i(PKP)		19	51	50
			ePP		19	53	57
			i(PP)		19	54	04
			iPKS		19	55	09
			iScSP		20	04	09
					μ	s	
			PKP	z′	1.3	2.0	
			PP	E	1.8	14	
			PP	N	2.2	14	
			PP	z	5.7	14	
			PKS	E	2.6	5	
			PKS	N	3.7	5	
			PKS	z′	0.4	1.7	
			M	E	31	22	
			M	N	30	22	
			M	z	36	22	
			△ ~ 14450 km ~ 130°.				
		Ki	iPKP		19	51	30
			i(PKP)		19	51	38
			ePP		19	53	08
			i		19	53	23
			iScSP		20	03	11
			i		20	04	44
					μ	s	
			PKP	z′	0.9	1.5	
			PP	E	0.7	8	
			PP	N	1.4	8	
			M	E	26	19	
			M	N	24	22	
			△ ~ 13650 km ~ 123°.				
		Sk	iPKP		19	51	40
			i(PKP)		19	51	51
			ePKKS		20	04	42
			△ ~ 14450 km ~ 130°.				
			New Hebrides Islands.				
			Magn. = 7.1 (Up, Ki).				
June	1	Up	iP		03	58	23
»	1	Up	iP		04	10	38
					μ	s	
			P	z′	0.1	0.5	
		Ki	iP		04	09	45
					μ	s	
			P	z′	0.1	1.0	
			M	E	0.6	25	
			M	N	0.2	15	
		Sk	iP		04	10	21
			Near east coast of Kamchatka.				

1958							
June	1	Up	iP		18	31	20
					μ	s	
			P	z′	0.1	0.9	
			M	N	0.6	22	
			M	z	0.4	22	
		Ki	iP		18	30	25
			i		18	30	31
					μ	s	
			P	z′	0.2	1.3	
		Sk	iP		18	30	50C
			Alaska.				
»	1	Up	iP		23	08	33
		Ki	iP		23	07	47
			(Okhotsk Sea).				
»	2	Ki	iP		06	17	28
		Sk	eP		06	17	22
			Iran.				
»	2	Up	iP		07	50	25
		Ki	iP		07	50	27
»	2	Up	iP		12	33	46
»	3	Up	iP		02	00	39
			i		02	02	04
					μ	s	
			P	z′	0.1	0.9	
		Ki	iP		01	59	46
			Aleutian Islands.				
»	3	Up				—	
					μ	s	
			M	E	0.8	16	
			M	N	0.5	15	
			M	z	1.4	16	
		Ki				—	
					μ	s	
			M	E	0.3	12	
			M	N	0.5	18	
		Sk	iP		08	58	10
			West Pakistan.				
»	3	Up	ePKP		19	51	04
			iPP		19	53	20
			iPKS		19	54	28
			e		20	03	22
					μ	s	
			PKP	z	0.8	9	
			PP	z	1.1	9	
			PKS	E	1.2	6	
			PKS	N	1.9	6	
			PKS	z	1.0	6	
			PKS	z′	0.1	1.2	
			M	E	3.2	24	
			M	N	4.8	23	
			M	z	3.5	22	
			△ ~ 14450 km ~ 130°.				
		Ki	iPKP		19	50	51
			iPP		19	52	30

1958							
June 3	Ki						
(cont.)					μ	s	
		PKP		z′	0.1	1.5	
		PP		E	0.3	8	
		PP		N	0.6	8	
		M		E	2.8	21	
		M		N	2.5	21	
		△ ~ 13650 km ~ 123°.					
	Sk	iPKP			19	51	02
		iPKS			19	54	27
		△ ~ 14450 km ~ 130°.					
		New Hebrides Islands.					
		Magn. = 6.4 (Up, Ki).					
» 4	Up	iP			14	40	49 C
		eS			14	49	37
		iScS			14	50	46
					μ	s	
		P		z	1.0	5	
		P		z′	0.1	0.8	
		S		E	1.0	15	
		S		N	1.3	15	
		M		E	5.3	17	
		M		N	6.1	18	
		M		z	5.9	17	
		△ = 7500 km = 67½°.					
	Ki	iP			14	39	56
		eS			14	48	07
		e			14	48	24
					μ	s	
		P		N	0.9	16	
		P		z′	0.1	0.8	
		S		E	1.1	13	
		M		E	6.0	16	
		M		N	5.8	18	
		△ = 6650 km = 60°.					
	Sk	iP			14	40	26
		iPcP			14	41	04
		Aleutian Islands.					
		Magn. = 5.9 (Up, Ki).					
» 5	Up	iP			13	34	46
		i			13	34	52
		i(S)			13	38	46
					μ	s	
		P		z′	0.3	0.7	
		M		E	3.4	25	
		M		N	1.1	14	
		M		z	1.4	14	
	Ki	iP			13	35	59
		eLg1			13	46	08
					μ	s	
		M		E	0.9	13	
		M		N	0.6	13	
	Sk	iP			13	35	24
		Off west coast of Greece (h ~ 100 km).					
» 5	Up	i(P)			14	12	16
		i			14	12	22
		Seismic?					

1958							
June 6	Up	iPKP			00	27	37
	Ki	e(PKP)			00	27	38
		i			00	27	45
	Sk	iPKP			00	27	55
		New Britain region.					
» 6	Up	iP			03	38	14
» 6	Up	iP			09	24	16
		i			09	24	24
		i			09	24	34
		ePP			09	27	47
		eSKS			09	34	40
		eS			09	35	00
					μ	s	
		P		z	0.6	5	
		P		z′	0.2	0.9	
		PP		z′	0.2	1.5	
		S		N	7.2	20	
		M		E	13	21	
		M		N	11	24	
		M		z	15	21	
		△ = 9900 km = 89°.					
	Ki	iP			09	24	13
		i			09	24	36
		ePP			09	27	47
		iSKS			09	34	36
		e			09	34	47
		iS			09	34	56
					μ	s	
		P		z′	0.4	1.7	
		PP		E	0.6	8	
		PP		z′	0.4	2.0	
		SKS		E	1.0	8	
		S		N	7.1	20	
		M		E	12	16	
		M		N	7.2	17	
		△ = 9900 km = 89°.					
	Sk	iP			09	23	57
		i			09	24	02
		Off coast of Costa Rica.					
		Magn. = 6.5 (Up, Ki).					
» 6	Up	iP			19	28	37
		ePP			19	32	13
		eSKS			19	39	11
		eS			19	39	32
					μ	s	
		S		N	1.7	14	
		M		E	2.6	22	
		M		N	2.1	23	
		M		z	3.7	23	
		△ = 10100 km = 91°.					
	Ki	e(P)			19	28	41
		eSKS			19	39	05
		iS			19	39	28
					μ	s	
		SKS		E	1.0	13	
		S		N	1.0	10	
		M		E	3.0	23	
		M		N	2.9	23	

1958							
June 6	Ki	M		z	2.6	23	
(cont.)	Sk	iP			19	28	20
		South of Costa Rica.					
		Magn. = 6.0 (Up, Ki).					
» 6	Up					—	
					μ	s	
		M		E	0.5	20	
		M		N	0.7	25	
		M		z	1.2	23	
	Ki	eSKS			23	07	30
		eS			23	07	38
					μ	s	
		S		N	0.3	11	
		M		E	0.7	18	
		M		N	0.6	18	
		M		z	0.8	16	
	Sk	i(P)			22	56	58
		Off coast of Costa Rica.					
» 7	Sk	iP			06	51	11
		Southern Aegean Sea.					
» 7	Ki	iP			09	25	55
		Near southwest coast of Sumatra.					
» 7	Up	iPKP			13	15	00
					μ	s	
		PKP		z′	0.1	1.5	
	Ki	iPKP			13	14	53
					μ	s	
		PKP		z′	0.1	1.0	
		M		E	0.5	20	
		M		N	0.4	20	
	Sk	iPKP			13	14	59
		South of Tasmania.					
» 7	Ki	iP			19	43	23
	Sk	iP			19	43	44
» 8	Up	eP			00	49	47
		eS			00	58	35
		eP′P′			01	18	06
					μ	s	
		P		z′	0.1	0.5	
		S		N	0.5	15	
		M		E	2.4	25	
		M		N	1.4	19	
		M		z	1.2	18	
		△ = 7450 km = 67°.					
	Ki	iP			00	48	56
		ePa			00	52	39
		eS			00	57	02
		iP′P′			01	18	31
					μ	s	
		S		E	0.3	9	
		S		N	0.3	9	
		M		E	1.5	18	
		M		N	1.5	18	
		M		z	1.8	18	

1958							
June 8	Ki	△ = 6650 km = 60°.					
(cont.)	Sk	iP			00	49	25
		Aleutian Islands.					
		Magn. = 5.6 (Up, Ki).					
» 8	Up	iP			00	58	20 C
					μ	s	
		P		z′	0.1	0.7	
	Ki	iP			00	58	21
		i(S)			01	08	04
					μ	s	
		(S)		E	0.7	10	
	Sk	iP			00	58	39
		i			00	58	50
		Nicobar Islands region.					
» 8	Up	iP			16	44	27
» 8	Up	iP			21	20	12
		eS			21	28	50
					μ	s	
		S		N	0.3	8	
		M		E	1.3	20	
		M		N	0.8	18	
		M		z	1.7	20	
		△ ~ 7300 km ~ 65½°.					
	Ki	eP			21	20	41
		eS			21	29	58
					μ	s	
		M		E	0.7	16	
		M		N	0.4	15	
		M		z	0.6	18	
		△ ~ 7900 km ~ 71°.					
	Sk	iP			21	20	09
		Atlantic Ocean.					
» 9	Up	iP			16	10	05
					μ	s	
		P		z′	0.1	0.8	
		M		N	0.5	19	
	Ki	iP			16	09	12
					μ	s	
		P		z′	0.1	1.0	
		M		E	0.4	15	
		M		N	0.3	16	
		M		z	0.5	17	
	Sk	iP			16	09	41 D
		iPcP			16	10	18
		Aleutian Islands.					
» 9	Up	i(P)			18	50	54
	Ki	eP			18	52	02
	Sk	iP			18	51	36
		Rumania.					
» 10	Up					—	
					μ	s	
		M		N	0.4	16	
		M		z	0.6	17	
	Ki	iP			00	20	35

1958 June 10 (cont.)	Ki				μ 0.5	s 16	
		M	E		0.4	17	
		M	N		0.4	17	
		M	Z				
	Sk	eP			00	21	00
	Aleutian Islands.						
» 10	Ki	iP			00	36	17
	Aleutian Islands.						
» 10	Up	iPKP			04	19	50
					μ	s	
		M	N		1.2	25	
		M	Z		1.3	24	
	Ki	ePKP			04	19	30
		i			04	19	49
					μ	s	
		M	E		0.7	20	
		M	N		0.6	20	
		M	Z		0.7	20	
	Sk	iPKP			04	19	45
		iPKS			04	23	37
	Kermadec Islands.						
» 10	Up	iS			05	14	23
					μ	s	
		S	N		0.3	2	
	Ki	iP			05	04	29 D
		eS			05	13	24
					μ	s	
		P	Z′		0.1	1.0	
		S	N		0.5	6	
	Sk	iP			05	04	57 D
	Bonin Islands region (h ~ 500 km).						
» 10	Up	iP			07	11	14
					μ	s	
		M	E		1.1	20	
		M	N		1.3	18	
		M	Z		1.4	20	
	Ki	iP			07	11	53
		iPP			07	13	28
		eS			07	18	16
					μ	s	
		P	Z′		0.1	0.8	
		S	E		0.3	11	
		M	E		1.4	17	
		M	N		0.9	16	
		M	Z		1.1	19	
		△ = 4650 km = 42°.					
	Sk	iP			07	11	51
	Western Iran.						
	Magn. = 5.4 (Up, Ki).						
» 10	Up	iP			08	33	09
					μ	s	
		M	N		0.7	19	
		M	Z		1.4	20	
	Ki	eP			08	34	47
		eLg1			08	43	28

1958 June 10 (cont.)	Ki				μ 0.5	s 16	
		M	N		1.0	18	
		M	Z				
	Sk	iP			08	33	53
	Near coast of Albania.						
» 10	Ki	eP			20	17	29
	Western Iran.						
» 11	Ki	e(P)			01	48	50
» 11	Ki	eP			02	37	28
	Sk	iP			02	38	04
» 11	Ki	ePKP			04	02	41
	Sk	iPKP			04	02	56
		i			04	03	14
	Kermadec Islands.						
» 12	Ki	eP			01	31	08
» 12	Ki	iP			02	53	44
» 12	Up	eP			12	07	05
					μ	s	
		M	E		0.5	19	
		M	N		0.7	19	
		M	Z		1.0	20	
	Ki	eP			12	07	06
		e(S)			12	17	38
					μ	s	
		(S)	N		0.2	8	
		M	E		1.0	16	
		M	N		0.8	21	
	Off south coast of Costa Rica.						
» 12	Sk	iP			16	39	56
	Ionian Islands.						
» 12	Up	iP			21	03	55 C
		ePa			21	08	26
		eS			21	12	46
		e			21	14	01
		iP′P′			21	32	21
					μ	s	
		P	N		2.9	20	
		P	Z		7.0	20	
		P	Z′		0.6	0.7	
		S	E		3.3	17	
		S	N		4.0	22	
		M	E		8.8	17	
		M	N		12	19	
		M	Z		14	19	
		△ = 7500 km = 67½°.					
	Ki	iP			21	03	02
		iS			21	11	17
		eP′P′			21	32	36
		e			21	32	48
					μ	s	
		P	N		2.6	19	

1958 June 12 (cont.)	Ki	P	Z′		1.2	1.0	
		S	E		3.2	16	
		M	E		9.4	16	
		M	N		9.7	18	
		△ = 6650 km = 60°.					
	Sk	iP			21	03	34
		i			21	03	37
		iPcP			21	04	10
		eP′P′			21	32	30
		△ = 7100 km = 64°.					
	Aleutian Islands.						
	Magn. = 6.4 (Up, Ki).						
» 12	Up	iP			21	44	23 C
		iPcP			21	44	47
					μ	s	
		P	Z′		0.1	0.5	
	Ki	iP			21	43	29
					μ	s	
		P	Z′		0.2	1.0	
	Sk	iP			21	43	59
	Aleutian Islands.						
» 12	Ki	iP			22	28	10
	Aleutian Islands.						
» 13	Ki	iP			10	23	24
	Japan Sea, northwest of Hokkaido.						
» 13	Up				—		
					μ	s	
		M	E		0.5	20	
		M	N		0.8	21	
		M	Z		1.4	26	
	Ki	ePKP			11	18	14
					μ	s	
		M	E		0.9	22	
		M	N		0.5	18	
		M	Z		0.6	22	
	Sk	iPKP			11	18	18
	South of Australia.						
» 13	Up	iP			15	14	19 D
» 13	Up	iP			18	58	02
» 14	Ki	eP			08	00	21
		i			08	00	32
		iT			08	05	43
					μ	s	
		P	Z′		0.1	1.0	
		M	E		0.2	14	
		M	N		0.2	8	
		M	Z		0.2	9	
	Sk	eP			08	01	03
		eS			08	02	55
		eT			08	08	37
	Northeast of Jan Mayen.						
» 14	Up	iPP			18	47	01

1958 June 14 (cont.)	Ki	iPP			18	46	14
	Sk	ePP			18	46	49
	(Marshall Islands, 01m 15s after a nuclear explosion).						
» 14	Ki	eP			20	58	55
	Iran.						
» 15	Up	iP			02	00	49 D
	Ki	iP			02	00	03
	Sk	iP			02	00	39
	Kurile Islands.						
» 15	Up	iPKP			02	59	26
		iSKP			03	02	20
	Ki	ePKP			02	59	21
		iSKP			03	01	55
	Sk	ePKP			02	59	22
		iSKP			03	02	12
	Fiji Islands (h ~ 550 km).						
» 15	Ki	eL			12	28	
					μ	s	
		M	E		0.4	17	
		M	N		0.3	16	
		M	Z		0.9	22	
	Near east coast of New Guinea.						
» 15	Up	iPKP			15	12	47
		iSKP			15	15	41
		e			15	18	35
		i!			15	21	43
					μ	s	
		SKP	N		0.5	6	
		SKP	Z		1.2	6	
		SKP	Z′		0.5	1.7	
		M	E		1.3	20	
		M	N		0.8	19	
		△ ~ 15100 km ~ 136°.					
	Ki	e(PKP)			15	12	34
		iPKP			15	12	44
		iSKP			15	15	15
		i!			15	20	56
		eSKSP			15	24	06
		e			15	26	48
					μ	s	
		PKP	Z′		0.1	1.2	
		SKP	N		0.6	6	
		SKP	Z		2.4	7	
		SKP	Z′		1.8	2.1	
		M	E		0.5	16	
		M	Z		0.7	17	
		△ ~ 14350 km ~ 129°.					
	Sk	i(PKP)			15	12	42
		iPKP			15	12	53
		ipPKP			15	15	04
		iSKP			15	15	33
		△ ~ 1500 0km ~ 135°.					
	Fiji Islands region (h ~ 600 km).						
	The phases (PKP), occurring at Ki						

1958 June 15 (cont.)		and Sk 10—11 sec earlier than PKP proper, are of very small amplitude.					
»	15	Up	e(P)		15	25	04
		Ki	e(P)		15	25	48
		Sk	e(P)		15	25	18
		These phases belong possibly to the preceding shock.					
»	15	Ki	iP		16	17	09
		Aleutian Islands.					
»	15	Up	eL		18	16	
					μ	s	
			M	E	0.8	20	
			M	N	1.1	23	
			M	Z	1.0	19	
		Ki	eL		18	14	
					μ	s	
			M	E	0.9	20	
			M	N	0.5	18	
			M	Z	1.2	20	
		Near north coast of New Guinea.					
»	15	Up	iP		18	36	15
					μ	s	
			P	Z′	0.1	1.5	
		Sk	eP		18	37	41
»	16	Up	eSKP		01	32	25
		Ki	iPKP		01	29	00
		Sk	iPKP		01	29	11
		New Hebrides Islands (h ~ 100 km).					
»	16	Up	iP		02	05	58
		Ki	iP		02	07	05
		Sk	iP		02	06	36
		Near south coast of Crete.					
»	16	Ki	iPKP		07	32	37
		Sk	ePKP		07	32	57
		New Hebrides Islands.					
»	16	Up				—	
					μ	s	
			M	E	1.1	20	
			M	N	0.9	21	
			M	Z	1.4	20	
		Ki	ePKP		08	32	10
					μ	s	
			M	E	1.1	22	
			M	N	0.9	22	
			M	Z	1.2	20	
		Fiji Islands region.					
»	16	Ki	iP		09	21	46
		Sk	iP		09	22	03

1958 June 16		Ki	eP		10	00	21
»	16	Up	iPKP		19	10	59
			iSKP		19	13	46
		Ki	iSKP		19	13	23
					μ	s	
			SKP	Z′	0.1	1.5	
		Sk	iSKP		19	13	39
		Fiji Islands region. Probably deep.					
»	17	Up	iP		00	37	58
		Ki	iP		00	37	16
		Sk	iP		00	37	50
		Off west coast of Hokkaido, Japan.					
»	17	Up	iP		15	19	47
			i		15	20	08
					μ	s	
			P	Z′	0.1	1.0	
		Sk	iP		15	19	45
		Bonin Islands region.					
»	17	Up	iP		17	01	35C
			i		17	02	23
			iPP		17	02	33
					μ	s	
			P	Z′	0.1	0.7	
		Ki				—	
					μ	s	
			M	E	0.3	10	
			M	Z	0.5	11	
		Sk	iP		17	02	11
			i		17	03	44
		Iran.					
»	17	Up	iP		19	19	12C
			ipP		19	19	34
			iPP		19	22	27
			iS		19	29	27
					μ	s	
			P	Z′	0.3	0.7	
			PP	Z′	0.2	1.2	
			M	E	1.2	19	
			M	N	1.9	21	
			M	Z	2.1	24	
			△ ~ 9350 km ~ 84°.				
		Ki	iP		19	18	41
			eS		19	28	35
					μ	s	
			S	E	0.3	8	
			M	E	1.8	20	
			M	Z	2.1	20	
			△ = 8650 km = 78°.				
		Sk	iP		19	19	09C
			iPP		19	22	21
		Volcano Islands. h = 90 km (Up). Magn. = 6.6 (Up).					
»	17	Up	iP		20	40	55
		Seismic?					

1958 June 18		Up	iP		01	19	01
			i		01	19	06
			iS		01	22	14
			i(S)		01	22	24
					μ	s	
			P	N	0.5	3	
			P	Z′	0.3	1.2	
			S	E	2.0	10	
			S	N	1.7	10	
			(S)	Z′	1.1	2.6	
			M	E	6.2	15	
			M	N	2.0	15	
			M	Z	2.0	17	
			△ = 1900 km = 17°.				
		Ki	eP		01	18	15
			iS		01	20	57
					μ	s	
			P	E	0.8	8	
			S	E	3.0	14	
			M	E	6.0	16	
			△ ~ 1500 km ~ 13½°.				
		Sk	iP		01	18	05
		Off north coast of Iceland. Magn. = 5.5 (Up). At Uppsala the S wave appears to consist of a long-period wave, starting with the time given for S, with a superimposed short-period wave, starting about 10 sec later, (S). The long-period wave is possibly a surface wave (see Båth and Vogel, Geofisica pura e applicata, Vol. 39, pp. 35—54, 1958).					
»	18	Up	eP		02	27	26
			i		02	27	33
			eS		02	30	35
					μ	s	
			S	E	0.6	10	
			S	N	0.4	10	
			M	E	1.6	15	
			M	N	0.5	15	
			M	Z	1.3	24	
			△ = 1900 km = 17°.				
		Ki	eP		02	26	42
			eS		02	29	24
					μ	s	
			P	E	0.3	9	
			M	E	2.0	17	
			△ ~ 1500 km ~ 13½°.				
		Sk	iP		02	26	34
		Iceland.					
»	18	Sk	eP		02	57	39
		Iceland.					
»	18	Up	iP		04	38	04C
			iS		04	41	11
			i(S)		04	41	23
					μ	s	
			S	E	0.5	7	

1958 June 18 (cont.)			S	N	0.2	3	
			M	E	1.9	15	
			M	N	0.8	15	
			M	Z	1.5	17	
			△ = 1900 km = 17°.				
		Sk	iP		04	37	06
		Iceland.					
»	18	Sk	eP		06	53	15
			i		06	53	21
		Off south coast of Mexico.					
»	18	Ki	e(P)		11	38	36
			i		11	38	53
			i(Sg)		11	39	04
		Local.					
»	18	Ki	eP		13	51	43
»	18	Up	iSg		14	09	19
			△ = 710 km = 6.4°.				
		Ki	iPg		14	06	54
			iSg		14	07	39
			△ = 380 km = 3.4°.				
		Sk	iPg		14	06	37
			iSg		14	07	10
			△ = 280 km = 2.5°.				
		West coast of Norway, 66°N, 13°E. Origin time = 14 05 47.					
»	18	Ki	iP		19	47	35
		Off north coast of Iceland.					
»	19	Ki	iP		04	13	30
		Sk	iP		04	13	23
		Mexico-Guatemala border (h ~ 100 km).					
»	19	Up	iP		05	28	46
			ePa		05	33	05
			eS		05	37	16
					μ	s	
			P	Z	0.6	7	
			P	Z′	0.1	0.8	
			S	N	0.9	11	
			M	E	10	21	
			M	N	21	23	
			M	Z	24	23	
			△ = 7300 km = 65½°.				
		Ki	eP		05	27	53
			i		05	27	55
			i		05	29	18
			ePa		05	31	33
			eS		05	35	48
					μ	s	
			P	Z	0.8	9	
			S	E	1.2	16	
			M	E	7.4	23	

1958
June 19 (cont.) Ki M z 12 23
△ = 6450 km = 58°.
Sk iP 05 28 32
i 05 29 51
Kurile Islands.
Magn. = 5.9 (Up, Ki).

» 19 Sk iPKP 13 53 44
i 13 53 53
South of Tasmania.

» 19 Up iPKP 18 22 06
Sk iPKP 18 22 11
i 18 22 18
South of Tasmania.

» 20 Sk eP 06 20 50

» 20 Up iPKP 17 50 51
Ki iPKP 17 50 44
Gb iPKP 17 51 (01)
Fiji Islands (h ~ 600 km).

» 20 Up iP 19 28 42

		μ	s
P	z′	0.1	1.0

Ki iP 19 28 11
Sk iP 19 28 43
Gb iP 19 29 (04)
East China Sea.

» 21 Up iP 08 34 51
Aleutian Islands.

» 21 Up iP 12 30 08

		μ	s
P	z′	0.1	0.7

Ki iP 12 29 15
Aleutian Islands.

» 21 Up iP 23 50 02
Ki iP 23 49 09
Near southeast coast of Kamchatka.

» 22 Up iP 04 29 15

» 22 Up iP 05 08 43C

		μ	s
P	z′	0.2	0.9

Ki iP 05 07 59

		μ	s
P	z′	0.1	1.0

Sk iP 05 08 33
Southern Kurile Islands.

» 22 Up iP 05 40 08
Ki iP 05 39 31
Sk e(P) 05 40 03
Sea of Japan (h ~ 350 km).

1958
June 22 Ki e(S) 12 59 28
Sk eP 12 57 07
iS 12 58 02
Local.

» 22 Up iP 22 12 34 D
i 22 12 43

» 23 Up iP 05 18 39
iPcP 05 20 10
eS 05 25 44
e 05 29 11
i 05 31 05

		μ	s
P	z′	0.3	1.5
S	E	0.3	4
M	E	6.3	20
M	N	13	20
M	z	10	17

△ = 5300 km = 47½°.
Ki iP 05 18 07
iPP 05 19 54
eS 05 24 36
e 05 27 54

		μ	s
P	z′	0.1	1.0
PP	E	0.5	6
S	E	0.4	9
S	N	0.3	9
M	E	3.0	12
M	N	4.4	13

△ = 4900 km = 44°.
Sk iP 05 18 43
Gb eP 05 19 04
Outer Mongolia.
Magn. = 5.7 (Up, Ki).
Remarkable short-period motion, especially on the long-period Benioff records at Uppsala, superimposed on the fundamental-mode surface waves and lasting approx. 10 min.

» 23 Ki iPKP 19 35 43
iSKP 19 37 58
Sk iSKP 19 38 27
Fiji Islands (h ~ 650 km).

» 24 Up iP 00 22 42
Ki iP 00 22 36
Sk iP 00 22 52
Near south coast of Java (h ~ 200 km).

» 24 Up iP 04 03 58
Ki iP 04 04 35
Southern Iran.

» 24 Up iP 04 56 10C
i 04 56 13

1958
June 24 (cont.) Up iPP 04 57 43
iS 05 02 28
e 05 05 17
i 05 05 51
iLg1 05 10 14
eRg 05 13 27

		μ	s
P	z′	0.2	0.9
PP	E	0.4	6
PP	z	0.5	6
S	N	0.2	5
M	E	3.6	8
M	N	1.4	4
M	z	4.7	8

△ = 4650 km = 42°.
Ki iP 04 56 05C
ePP 04 57 46
eSS 05 05 27
i 05 06 48
i 05 07 32
eLi 05 08 33
iLg1 05 09 48
i(Lg1) 05 10 24
iRg 05 12 55

		μ	s
P	z′	0.3	0.7
PP	E	0.6	8
M	E	11	13
M	N	4.2	9
M	z	9.6	12

Sk iP 04 56 30C
iPP 04 58 15
iLg1 05 11 25
Gb iP 04 56 30
iPP 04 58 15
Western Sinkiang Province, China.
Magn. = 5.9 (Up, Ki).
Extremely clear channel waves.

» 24 Up iP 06 11 15

		μ	s
M	E	3.1	18
M	N	1.6	15
M	z	1.4	14

Ki iP 06 12 41

		μ	s
M	E	0.9	10
M	N	0.6	12
M	z	0.8	10

Sk iP 06 11 53C
Gb eP 06 10 44
Italy.

» 24 Up —

		μ	s
M	E	2.1	20
M	N	1.1	20
M	z	2.8	20

Ki —

1958
June 24 (cont.) Ki

		μ	s
M	E	1.0	19
M	N	0.7	16
M	z	1.0	18

Sk iPKP 06 55 31
Off coast of Chile.

» 24 Up iP 10 42 36
Ki iP 10 41 53C
Volcano Islands.

» 25 Up iP 01 20 36C
e 01 21 31
iPP 01 21 43
i 01 26 53

		μ	s
M	N	0.7	20

Ki iP 01 21 10C
i 01 22 17
e 01 28 31

		μ	s
P	z′	0.1	0.8
M	E	0.8	19
M	N	0.9	20
M	z	0.5	16

Sk iP 01 21 11
i(PP) 01 22 23
Gb iP 01 20 50C
e 01 21 50
iPP 01 22 01
Northern Iran.

» 25 Up iP 02 00 42
Ki iP 02 00 11
Sk iP 02 00 40
Gb iP 02 01 01
Off coast of Kyushu, Japan.

» 25 Up eL 03 27

		μ	s
M	N	0.6	21
M	z	0.7	21

Fiji Islands region.

» 25 Up iP 07 25 40
i 07 25 51
Ki iP 07 27 00
Sk iP 07 26 29
i 07 26 33
i 07 26 53
Gb iP 07 25 37
Rumania.

» 25 Up iPKP 09 47 14
Ki iPKP 09 47 04
i(SKP) 09 49 40
Sk ePKP 09 47 06
Gb iPKP 09 47 26 D
Fiji Islands (h ~ 600 km).

» 25 Up ePP 09 55 47
iPKKP 10 06 15

1958						
June 25	Up					
(cont.)				μ	s	
		PP	z	1.2	7	
		PKKP	z	3.4	8	
		M	E	51	23	
		M	N	28	19	
		M	z	66	19	
		△ ~ 12200 km ~ 110°.				
	Ki	ePP		09	55	05
		i(PP)		09	55	11
		e		10	02	45
				μ	s	
		PP	E	0.6	7	
		PP	N	0.4	7	
		PP	z	0.8	7	
		M	E	53	23	
		M	N	32	21	
		M	z	48	24	
		△ ~ 11650 km ~ 105°.				
	Sk	iPP		09	55	32
	Gb	iPKP		09	55	24
		iPP		09	56	20
	Near north coast of New Guinea.					
	Magn. = 6.9 (Up, Ki).					
» 25	Up	iPKP		13	02	38
	Ki	ePKP		13	02	28
	Sk	iPKP		13	02	37
	Gb	iPKP		13	02	45
	New Britain.					
» 25	Ki	iPKP		21	15	46
		e		21	16	21
	Southeast Indian Ocean.					
» 25	Up	iPKP		23	19	56
	Ki	iPKP		23	20	05
	Sk	iPKP		23	19	55
	Gb	iPKP		23	19	51
	Southern Chile.					
» 25	Up	iP		23	33	44 C
		iPcP		23	34	17
		ipP		23	35	16
				μ	s	
		P	z′	0.1	1.0	
	Ki	iP		23	32	53
		ipP		23	34	23
				μ	s	
		P	z′	0.1	1.5	
	Sk	iP		23	33	29
	Gb	iP		23	34	05
		epP		23	35	34
	Sea of Okhotsk.					
	h = 360 km (Up, Ki, Gb).					
» 25	Up	iP		23	58	09
		i(pP)		23	58	30
	Ki	eP		23	57	17
		i(pP)		23	57	37
	Aleutian Islands.					

1958						
June 26	Ki	iP		03	56	57
» 26	Up	iP		04	48	33 D
		ipP		04	49	05
		i!		04	51	20
		iS		04	56	48
		isS		04	57	44
		i!		04	58	09
		i!		04	59	08
				μ	s	
		P	N	0.6	5	
		P	z	1.1	4	
		P	z′	0.4	1.0	
		pP	z′	0.5	1.3	
		S	E	2.6	10	
		S	N	1.1	7	
		S	z	1.2	7	
		M	E	0.8	16	
		M	N	0.8	19	
		M	z	1.2	17	
		△ = 7000 km = 63°.				
	Ki	iP		04	47	40 D
		i		04	47	52
		ipP		04	48	12
		e		04	50	55
		iS		04	55	07
		isS		04	56	03
		i!		04	57	15
		i!		04	58	13
				μ	s	
		P	N	0.5	6	
		P	z	0.7	6	
		P	z′	0.2	1.2	
		S	E	1.7	10	
		S	N	0.8	12	
		M	E	1.3	18	
		M	N	0.9	16	
		M	z	0.6	14	
		△ = 6100 km = 55°.				
	Sk	iP		04	48	17 D
		ipP		04	48	49
		isP		04	49	03
		iS		04	56	28
	Gb	iP		04	48	53 D
		ipP		04	49	24
		iS		04	57	26
		i(sS)		04	58	34
	Kamchatka.					
	h = 135 km (Up, Ki, Sk, Gb).					
	Magn. = 6.0 (Up, Ki).					
» 26	Up	iP		07	51	21 D
		i		07	51	31
				μ	s	
		P	z′	0.2	0.7	
		M	E	1.0	15	
		M	N	0.3	17	
		M	z	1.4	16	
	Ki	iP		07	50	55 D
				μ	s	
		P	z′	0.1	1.1	

1958						
June 26	Ki	M	E	0.8	15	
(cont.)		M	N	0.6	13	
		M	z	0.6	15	
	Sk	iP		07	51	22
	Gb	iP		07	51	39 D
	Ryukyu Islands.					
» 26	Up	iP		13	21	05
	Ki	iP		13	21	28
	Sk	iP		13	21	28
» 26	Up	iP		16	03	50
	Ki	iP		16	03	07
	Sk	iP		16	03	42
	Near east coast of Hokkaido, Japan.					
» 26	Up	iP		20	08	28
	Ki	iP		20	07	35
	Sk	iP		20	08	04
	Gb	iP		20	08	43
	Aleutian Islands.					
» 26	Up	iP		23	41	35
		iS		23	51	29
				μ	s	
		S	E	1.2	9	
		S	N	0.3	7	
		M	E	1.9	21	
		M	N	1.6	20	
		M	z	1.1	16	
		△ = 8700 km = 78½°.				
	Ki	iP		23	41	01
		i		23	41	11
		eS		23	50	18
				μ	s	
		S	E	1.2	10	
		S	N	0.6	8	
		M	E	2.2	20	
		M	N	2.1	20	
		M	z	1.9	18	
		△ = 8000 km = 72°.				
	Sk	iP		23	41	32
	Gb	iP		23	42	10
	South of Honshu, Japan.					
	Magn. = 6.0 (Up, Ki).					
» 27	Up	iP		05	57	10
		ipP		05	57	27
				μ	s	
		M	E	1.6	24	
		M	N	0.6	23	
		M	z	1.9	22	
	Ki	iP		05	57	00
		ipP		05	57	19
		i		06	00	36
		iS		06	07	17
				μ	s	
		P	z′	0.1	1.4	
		S	E	0.7	12	
		S	N	0.3	9	

1958						
June 26	Ki	M	E	1.5	23	
(cont.)		M	N	1.0	23	
		M	z	1.2	22	
		△ = 9350 km = 84°.				
	Sk	iP		05	56	51
		i		05	57	22
	Near coast of El Salvador.					
	h = 70 km (Up, Ki).					
	Magn. = 5.8 (Ki).					
» 27	Ki	eP		13	28	28
		i		13	28	32
	Seismic?					
» 28	Ki	iP		02	32	59
	Sk	iP		02	33	33
	Kurile Islands.					
» 28	Ki	iP		05	30	55
	Gb	iP		05	31	16 C
	(North Atlantic Ocean).					
» 28	Up	iPKP		08	51	49
				μ	s	
		PKP	z	0.4	4	
	Sk	iPKP		08	51	47
	Gb	iPKP2		08	52	12
	Kermadec Islands region.					
» 28	Ki	iPKP		11	54	44
		i		11	54	56
	Sk	iPKP		11	54	55
	New Hebrides Islands.					
» 28	Up	eL		15	03	
				μ	s	
		M	N	1.3	16	
		M	z	1.1	16	
» 28	Ki	iP		17	15	16
				μ	s	
		M	E	0.2	15	
		M	N	0.3	15	
		M	z	0.3	14	
	Sk	iP		17	15	04
	Gulf of Aden.					
» 28	Up	iP		19	43	59
	Ki	iP		19	43	27
	Sk	iP		19	43	52
	Marshall Islands. Nuclear explosion.					
» 29	Ki	iP		03	46	23
	Sk	iP		03	46	17
» 29	Ki	eS		03	51	16
		e		03	56	59
				μ	s	
		S	N	0.3	11	
		M	E	0.5	20	

1958 June 29 (cont.)	Ki	M	N	0.3	16	
		M	Z	0.7	20	
	Southern Peru (h ~ 150 km).					
» 29	Up	iP		07	58	05C
	East of Rhodes Island.					
» 29	Up	i		09	36	26
		ePKS		09	37	23
	Sk	iPKP		09	33	56
	Tonga Islands.					
» 29	Up	iP		23	28	31
	Ki	iP		23	28	14
	Molucca Passage.					
» 30	Up	iP		08	47	51C
		iS		08	51	59
		i		08	52	21
		e		08	52	34
		eSS		08	52	48
		i		08	53	40
		iPcS		08	54	57
		iScS		08	58	42
				μ	s	
		P	N	1.5	1	
		P	Z	2.2	1	
		P	Z′	3.4	1.0	
		S	N	2.8	10	
		M	E	3.5	19	
		M	N	1.7	10	
		M	Z	4.1	21	
	△ = 2650 km = 24°.					
	Ki	iP		08	48	58C
		eS		08	53	54
		e		08	54	40
		i		08	55	16
		eLi		08	57	35
				μ	s	
		P	Z′	3.2	0.7	
		S	E	0.5	7	
		S	N	0.6	10	
		S	Z	0.4	5	
		M	E	2.4	10	
		M	N	0.8	10	
		M	Z	1.2	9	
	△ = 3450 km = 31°.					
	Sk	iP		08	48	31
	Gb	iP		08	47	50C
		i		08	48	03
		iPcS		08	55	00
		iLg2		08	55	46
	Dodecanese Islands.					
	No reliable magnitude can be determined; as mean values for Up and Ki, we find from P: 7.0, from S: 5.5, from surface waves: 5.1. ScS is exceptionally clear at Uppsala and PcS at Göteborg.					

1958 June 30	Up	iP		11	31	13
	Ki	iP		11	31	10
	Sk	iP		11	31	29
		i		11	31	34
» 30	Ki	iP		14	07	57 D
	Gb	iP		14	08	52 D
	Baffin Bay.					
» 30	Up	iP		18	38	20C
		iPP		18	41	17
		iS		18	48	11
				μ	s	
		P	E	0.3	5	
		P	N	0.2	5	
		P	Z	0.9	5	
		P	Z′	0.1	0.7	
		PP	Z′	0.1	1.2	
		S	E	3.6	10	
		S	N	1.4	8	
		M	E	7.0	21	
		M	N	6.0	21	
		M	Z	4.7	18	
	△ = 8650 km = 78°.					
	Ki	iP		18	37	45C
		i		18	42	00
		iS		18	47	07
		iScS		18	47	48
				μ	s	
		P	E	0.3	8	
		P	N	0.3	9	
		P	Z	1.1	8	
		P	Z′	0.2	1.1	
		S	E	4.3	11	
		S	N	2.5	9	
		M	E	8.5	16	
		M	N	7.1	17	
		M	Z	4.5	23	
	△ = 8050 km = 72½°.					
	Sk	iP		18	38	16
		i		18	38	50
		iPP		18	41	10
	Gb	iP		18	38	43C
		i		18	39	18
	South of Honshu, Japan.					
	Magn. = 6.3 (Up, Ki).					
» 30	Up	iP		21	03	00
	Ki	iP		21	02	24
July 1	Up	iP		01	02	14
	Ki	iP		01	01	26
	Sk	iP		01	02	01
	Gb	iP		01	02	36
» 1	Up	iP		06	04	08C
		iPcP		06	04	34
		eS		06	13	02
		eP′P′		06	32	25
				μ	s	
		P	Z′	0.1	1.0	

1958 July 1 (cont.)	Up	S	N	0.3	8	
		M	E	1.8	22	
		M	N	2.3	20	
		M	Z	3.1	22	
	△ = 7550 km = 68°.					
	Ki	iP		06	03	16
		i		06	03	34
		ePP		06	05	32
		iPcS		06	08	02
		eS		06	11	26
				μ	s	
		P	N	0.3	8	
		P	Z	0.5	9	
		P	Z′	0.1	1.1	
		PP	N	0.3	8	
		PP	Z	0.4	8	
		S	N	0.5	10	
		M	E	2.0	20	
		M	N	2.3	20	
		M	Z	2.9	20	
	△ = 6650 km = 60°.					
	Sk	iP		06	03	49
		iPcS		06	08	23
		e(P′P′)		06	32	23
	Gb	eP		06	04	25
	Aleutian Islands.					
	Magn. = 5.7 (Up, Ki).					
» 1	Up	iP		06	57	44
	Ki	iP		06	56	51
	Sk	iP		06	57	20
	Gb	eP		06	57	57
	Unimak Island region.					
» 1	Up	iP		07	55	40
	Sk	iP		07	56	22
	Greece.					
» 1	Ki	eL		11	59	
				μ	s	
		M	E	0.4	17	
		M	N	0.2	17	
		M	Z	0.3	16	
	South of Honshu, Japan.					
» 1	Ki	iP		12	21	27C
» 2	Up	iPg		00	06	17
		iSg		00	07	03
	△ = 390 km = 3.5°.					
	Ki	eS*		00	09	20
		eSg		00	09	40
	△ ~ 920 km ~ 8.3°.					
	Sk	i		00	07	55
		i		00	08	27
		iSg		00	08	55
	△ = 770 km = 6.9°.					
	South coast of Finland, 60°N, 24½°E. Origin time = 00 05 07.					

1958 July 2	Up	iP		00	55	05
		iPcP		00	55	40
				μ	s	
		P	Z′	0.2	1.3	
	Ki	iP		00	54	12
	Sk	iP		00	54	49C
	Gb	iP		00	55	26C
	Near east coast of Kamchatka.					
» 2	Up	iP		01	26	33
» 2	Up	iP		04	34	41
	Ki	iP		04	33	52 D
	Okhotsk Sea (h ~ 150 km).					
» 2	Up	iPKP		05	06	41
	Ki	ePKP		05	06	32
		iSKP		05	09	22
				μ	s	
		SKP	Z′	0.2	1.8	
	Sk	ePKP		05	06	40
		iSKP		05	09	40
	Fiji Islands (h ~ 350 km).					
» 2	Ki	iPKP		11	34	41
	Sk	iPKP		11	34	52
	New Hebrides Islands region (h ~ 200 km).					
» 2	Ki	iP		21	07	57
» 2	Up	iP		22	21	02
	Ki	eP		22	21	41
	Sk	eP		22	21	39
	Iran.					
» 3	Up	eP		05	57	56
		i		05	58	05
		i		05	58	11
		iSKS		06	08	17
		iS		06	08	32
				μ	s	
		P	Z′	0.2	1.5	
		S	E	2.7	17	
		S	N	1.2	14	
		M	E	1.0	19	
		M	N	0.9	20	
		M	Z	1.2	17	
	△ = 9700 km = 87½°.					
	Ki	eP		05	58	11
		i		05	58	30
		e		06	02	27
		iS		06	09	11
				μ	s	
		S	E	0.5	9	
		S	N	0.4	8	
		M	E	4.5	25	
		M	N	2.5	22	
		M	Z	2.4	20	
	△ = 10100 km = 91°.					
	Sk	eP		05	58	21

1958							
July	3	Gb	eP		05	58	05
(cont.)			i		05	58	12
		Mascarene Islands region.					
		Magn. = 6.2 (Up, Ki).					
»	3	Up	iPKP		06	46	42 D
			i!		06	46	46
			ipPKP		06	48	23
			isPKP		06	49	04
			iPP		06	50	13
			i		06	56	21
					μ		s
			PKP	N	0.3		2
			PKP	Z	1.2		2
			PKP	Z′	1.7		0.8
			PP	N	0.3		5
			PP	Z	0.7		4
			△ ~ 16200 km ~ 146°.				
		Ki	iPKP		06	46	23
			iSKP		06	49	27
			iPKS		06	50	05
			i		06	52	28
					μ		s
			PKP	Z	0.6		5
			PKP	Z′	0.2		1.0
			SKP	Z	0.8		7
			△ ~ 15350 km ~ 138°.				
		Sk	iPKP		06	46	36 D
			i!		06	46	40
		Gb	iPKP		06	46	49
			i!		06	46	55
			i!		06	47	03
			ipPKP		06	48	36
		Kermadec Islands region					
		(h ~ 400 km).					
»	3	Ki	iP		07	52	18
		Halmahera Island region.					
»	3	Up	eL		11	25	
					μ		s
			M	E	1.2		19
			M	N	0.5		19
			M	Z	1.2		18
		Ki	eL		11	24	
					μ		s
			M	E	1.0		21
			M	N	0.8		21
			M	Z	1.0		20
		South Pacific Ocean.					
»	3	Up	iP		12	58	00 D
			iPcP		12	58	29
			ipP		12	59	27
					μ		s
			P	Z′	0.2		0.5
		Ki	iP		12	57	14 D
			epP		12	58	43
					μ		s
			P	Z′	0.1		1.0
		Sk	iP		12	57	49

1958							
July	3	Sk	iPcP		12	58	22
(cont.)		Gb	iP		12	58	22
		Sea of Okhotsk.					
		h = 350 km (Up, Ki).					
»	3	Up	iP		19	13	25
		Ki	eP		19	13	17
		Sk	iP		19	13	08
		Gb	iP		19	13	14
		Off coast of El Salvador					
		(h ~ 100 km).					
»	4	Ki	iP		01	04	30
		Sk	iP		01	03	59
		Gb	iP		01	03	38
		Atlantic Ocean.					
»	4	Ki	iP		01	09	27
»	4	Up	iP		02	35	37
		Gb	iP		02	35	37
		Mascarene Islands region.					
»	4	Ki	eP		03	21	30
		Sk	eP		03	20	44
»	4	Up	iP		07	56	29
		Ki	iP		07	57	04
		Gb	eP		07	56	23
»	4	Gb	iP		08	49	28
»	4	Up	iP		18	47	19
			iPP		18	50	51
			e(SKS)		18	58	05
					μ		s
			M	E	3.6		21
			M	N	1.9		26
			M	Z	4.1		21
		Ki	iP		18	47	04
			iPP		18	50	41
			iS		18	57	53
					μ		s
			S	E	0.9		9
			S	N	0.4		7
			S	Z	0.3		10
			M	E	2.4		18
			M	N	1.3		20
			M	Z	3.5		24
			△ = 10000 km = 90°.				
		Sk	eP		18	47	27
			iPP		18	51	10
		Gb	iP		18	47	35
		Near south coast of Mindanao.					
		Magn. = 6.0 (Up, Ki).					
»	4	Up	iP		21	02	37
»	5	Up	iP		01	30	04 D
			ipP		01	30	36
		Ki	iP		01	30	04

1958							
July	5	Ki	ipP		01	30	36
(cont.)		Sk	iP		01	30	19
			ipP		01	30	50
		Gb	eP		01	30	19
			ipP		01	30	52
		Sumatra.					
		h = 130 km (Up, Ki, Sk, Gb).					
»	5	Up	eP		02	10	59
			i		02	11	05
			iS		02	15	07
			iLg1		02	18	15
					μ		s
			P	Z′	0.1		0.7
			M	E	0.4		8
			M	N	0.8		17
			M	Z	0.5		9
		Ki	iP		02	11	46
			i		02	18	31
			iLg1		02	20	39
					μ		s
			M	E	0.4		10
			M	N	0.5		13
			M	Z	0.8		12
		Sk	iP		02	12	03
			iS		02	17	04
		Gb	iP		02	11	15
		Caucasus.					
»	5	Ki	iSKP		14	13	50
		Sk	iSKP		14	14	05
		South of Fiji Islands					
		(h ~ 600 km).					
»	5	Up	iP		23	33	40
			eS		23	43	32
					μ		s
			M	N	0.3		16
		Ki	iP		23	33	06
			eS		23	42	27
					μ		s
			S	E	0.3		9
			S	N	0.2		9
			M	E	0.7		18
			M	N	0.4		16
			M	Z	0.5		17
		About 250 km off coast of Honshu,					
		Japan.					
»	6	Up	iP		04	51	44 D
					μ		s
			M	N	0.3		19
		Ki	iP		04	50	50
					μ		s
			P	Z′	0.1		1.3
			M	E	0.2		16
			M	N	0.2		15
		Sk	iP		04	51	19
		Gb	iP		04	52	01
		Alaska.					

1958							
July	6	Ki	iP		16	11	44
					μ		s
			M	E	0.5		23
			M	Z	0.3		15
		Sk	eP		16	12	19
			i		16	12	29
		Central Alaska.					
»	6	Up			—		
					μ		s
			M	E	1.0		19
			M	N	0.6		18
			M	Z	1.2		18
		Ki	iP		20	01	08
					μ		s
			M	E	0.3		19
			M	N	0.3		14
			M	Z	0.5		14
		South of Formosa.					
»	6	Ki	iP		23	45	56
		South of Honshu, Japan.					
»	7	Up	iP		05	27	13
			i		05	27	24
			iS		05	36	20
					μ		s
			P	Z′	0.2		0.7
			△ = 7700 km = 69½°.				
		Ki	iP		05	26	20
			iS		05	34	44
					μ		s
			P	Z′	0.2		1.0
			M	E	0.3		19
			M	N	0.5		21
			△ = 6850 km = 61½°.				
		Sk	iP		05	26	53
		Gb	iP		05	27	31
		Aleutian Islands.					
»	7	Up	iP		13	49	08 D
			i		13	49	17
					μ		s
			P	Z′	0.2		0.5
		Ki	iP		13	48	15
		Sk	iP		13	48	48
		Gb	iP		13	49	22
		Aleutian Islands.					
»	7	Up	iP		14	36	16 C
					μ		s
			P	Z′	0.1		0.7
		Ki	iP		14	35	59
		Sk	iP		14	36	22
		Near south coast of Luzon,					
		Philippine Islands.					
»	7	Up	iP		18	02	33
»	8	Up	iP		03	48	58
		Ki	iP		03	48	52

1958
July 8 (cont.) Sk iP 03 49 13
Gb eP 03 49 30

» 8 Up ePn 05 04 49
i 05 05 15
iSn 05 06 36
iLi 05 07 07
i(Li) 05 07 15
iLg1 05 07 48
iRg 05 08 28
△=1100 km=10°.
Ki iPn 05 06 35
iLg1 05 11 48
μ s
Pn z′ 0.3 1.5
Sk iPn 05 05 27
i 05 08 24
i(Lg1) 05 09 18
Gb iPn 05 04 08
iPg 05 04 42
i 05 04 47
i 05 06 25
Thüringerwald, Germany.
Rock burst.

» 8 Ki eL 07 17
μ s
M E 0.5 19
M N 0.4 19
M z 0.6 19
Tonga Islands.

» 8 Up i(P) 10 44 04

» 8 Up iP 15 53 47C

» 8 Up iP 17 21 36
Ki iP 17 21 01
South of Honshu, Japan.

» 8 Up e 23 22 03
μ s
M E 1.3 20
M N 1.0 18
M z 1.7 19
Ki —
μ s
M E 1.1 20
M N 0.8 18
M z 1.9 20
Indian Ocean.

» 9 Up iPKP 14 12 43
iSKP 14 15 34
Ki ePKP 14 12 37
iSKP 14 15 10
Sk iSKP 14 15 27
Fiji Islands (h ~ 600 km).

» 9 Ki eP 15 30 48
μ s
M E 0.6 16

1958
July 9 (cont.) Ki M N 0.6 20
M z 1.0 20
Sk iP 15 30 41
Guatemala (h ~ 100 km).

» 10 Up iP 06 26 03
i 06 26 06
i 06 26 19
iS 06 34 12
μ s
P N 5.6 5
P z 9.6 5
P z′ 2.5 1.5
S E 50 24
S N 200 22
S z 50 18
M E 570 21
M N 640 21
M z 880 22
△=6700 km=60½°.
Ki iP 06 25 10
i 06 25 13
iPcP 06 26 16
i 06 27 33
i 06 30 38
iS 06 32 37
μ s
P E 3.3 7
P N 6.9 10
P z 22 12
P z′ 3.5 2.5
S E 32 17
S N 160 22
S z 54 17
M E 400 20
M N 220 17
M z 530 19
△=5900 km=53°.
Sk iP 06 25 33
Gb iP 06 26 13
eP′P′ 06 55 32
Southeastern Alaska.
Magn.=7.8 (according to S and surface waves at Up and Ki; P at Up and Ki give only 7.2 as a mean).

» 10 Ki iP 07 18 16

» 10 Ki iP 07 54 01
μ s
P z′ 0.2 1.5
Southeastern Alaska.

» 10 Up iP 08 08 12
Ki iP 08 07 18
μ s
P z′ 0.4 1.4
Sk iP 08 07 42
Southeastern Alaska.

1958
July 10 Up iP 08 26 18

» 10 Ki iP 09 05 16
μ s
P z′ 0.2 1.5
Southeastern Alaska.

» 10 Ki iP 10 25 38
μ s
P z′ 0.1 1.5
Southeastern Alaska.

» 10 Ki iP 12 35 46
μ s
P z′ 0.2 1.3
Southeastern Alaska.

» 10 Up —
μ s
M E 1.2 18
M N 1.8 20
M z 2.0 19
Ki iP 15 11 15
μ s
M E 1.2 19
M N 1.0 20
M z 1.6 21
Southeastern Alaska.

» 10 Up iPg 15 24 49
iSn 15 25 24
i 15 25 31
i(S*) 15 25 43
iSg 15 25 50
μ s
Sg z′ 0.2 0.6
△=520 km=4.7°.
Ki iSg 15 29 02
△=1170 km=10.5°.
Sk eS* 15 26 01
iSg 15 26 18
△=610 km=5.5°.
Gb iPg 15 23 51
iSg 15 24 08
△=190 km=1.7°.
South coast of Norway, 58.5°N, 9.0°E. Origin time=15 23 15.

» 11 Up i 05 26 55
iSg 05 27 26
△=710 km=6.4°.
Ki eSn 05 27 16
iSg 05 27 59
△=820 km=7.4°.
Sk eSn 05 27 43
iS* 05 28 16
iSg 05 28 39
△=960 km=8.6°.
Near border between U.S.S.R. and Finland, 61¾°N, 30½°E. Origin time=05 23 55.

1958
July 11 Up iP 07 54 13
i 07 54 25
μ s
P z′ 0.1 0.8
Ki iP 07 53 18
Sk eP 07 53 54
Aleutian Islands.

» 11 Up i! 19 29 03
iPP 19 29 23
iPS 19 38 29
μ s
PP z′ 0.2 1.5
M E 1.4 18
M N 0.9 20
M z 4.1 23
Ki eS 19 37 11
ePS 19 39 00
iPKKP 19 40 15
e(SS) 19 45 09
μ s
M E 3.9 23
M N 1.9 23
M z 5.8 23
Northern Chile.
Magn.=6.2 (Up, Ki).

» 11 Up iP 20 00 25
Ki eP 19 59 36
Sk iP 19 59 56
Southeastern Alaska.

» 12 Up —
μ s
M E 1.7 21
M N 0.9 20
M z 2.7 22
Ki eSS 01 22 29
e 01 33 19
μ s
M E 1.2 19
M N 1.7 24
M z 5.4 25
Pacific Ocean, west of Galapagos Islands.

» 13 Up iP 08 20 16
μ s
M N 0.6 23
Ki iP 08 19 25
μ s
P z′ 0.1 1.5
M E 0.5 20
M N 0.6 27
M z 0.7 20
Sk iP 08 19 46
i 08 19 51
Gb iP 08 20 29
Southeastern Alaska.

» 13 Up iP 15 38 25 D
ipP 15 38 41

1958							
July 13	Up						
(cont.)					μ	s	
		P	z′		0.1	0.5	
	Ki	iP			15	38	19
					μ	s	
		P	z′		0.1	0.8	
	Sk	iP			15	38	41
		ipP			15	38	56
	Gb	iP			15	38	46 D
	India-Burma border.						
» 13	Up	iP			20	52	05
	Ki	i(P)			20	53	21
	Sk	iP			20	52	44
	Italy.						
» 13	Up	iP			23	15	00
	Ki	iP			23	14	01
		eS			23	21	55
					μ	s	
		M	E		0.6	18	
		M	N		0.5	22	
		M	z		0.9	22	
	△ = 6150 km = 55½°.						
	Sk	eP			23	14	41
	Komandorskie Islands.						
» 14	Up	e(P)			03	04	07
		i			03	04	19
	Ki	iP			03	03	19
	Sk	iP			03	03	47
	Southeastern Alaska.						
» 14	Up	iP			05	38	03
	Ki	iP			05	37	30
	Near coast of California.						
» 14	Up	iPn			12	22	28
		iSg			12	23	08
	△ = 280 km = 2.5°.						
	Ki	iSg			12	25	58
	△ = 860 km = 7.7°.						
	Sk	eSn			12	24	31
		iSg			12	25	06
	△ = 680 km = 6.1°.						
	Southwest Finland, 60°N, 22½°E.						
	Origin time = 12 21 45.						
» 14	Ki	iP			16	04	49 D
» 15	Up	i(P)			03	09	22
		iSg			03	09	46
	Local.						
» 15	Ki	iP			06	08	41
	Southeastern Alaska.						
» 15	Up	iP			08	04	39
		iS			08	09	00
					μ	s	
		S	N		0.8	9	

1958							
July 15	Up	M	E		1.8	22	
(cont.)		M	N		1.3	12	
		M	z		1.7	14	
	△ = 2700 km = 24½°.						
	Ki	iP			08	05	48
		i(PP)			08	06	58
					μ	s	
		M	E		2.2	18	
		M	N		1.0	12	
		M	z		1.3	12	
	Sk	iP			08	05	18
	Near west coast of Crete.						
» 15	Ki	e(P)			19	59	32
» 15	Up	iP			21	49	21
	Ki	iP			21	49	24
	Sk	iP			21	49	44
» 16	Up	iP			01	58	24
		iPcP			01	58	49
	Ki	eP			01	57	30
		iPcP			01	58	16
	Aleutian Islands.						
» 16	Up	iP			04	03	44
					μ	s	
		M	N		0.4	21	
	Ki	eP			04	02	51
					μ	s	
		M	E		0.4	18	
		M	N		0.3	18	
		M	z		0.6	18	
	Aleutian Islands.						
» 16	Up	eSS			13	34	10
					μ	s	
		M	E		1.0	19	
		M	N		0.8	18	
		M	z		1.3	19	
	Ki	i(SS)			13	33	58
					μ	s	
		M	E		0.7	18	
		M	N		0.4	17	
		M	z		1.0	18	
	South Pacific Ocean.						
» 16	Ki	e(P)			14	47	46
	Probably local.						
» 16	Up				—		
					μ	s	
		M	E		1.1	21	
		M	N		0.9	21	
		M	z		1.8	21	
	Ki				—		
					μ	s	
		M	E		0.7	18	
		M	N		0.5	18	
		M	z		0.8	18	
	Sk	ePKP			17	13	28
	Santa Cruz Islands.						

1958							
July 16	Up	eL			19	45	
					μ	s	
		M	E		0.9	22	
		M	N		0.8	22	
		M	z		0.9	18	
	Ki	eL			19	43	
					μ	s	
		M	E		0.7	19	
		M	N		0.4	19	
		M	z		0.6	18	
	Santa Cruz Islands.						
» 16	Up	iP			19	43	23
» 16	Sk	iP			20	34	51
	Northern Greece.						
» 16	Up	iP			22	09	45
	Congo-Rhodesia.						
» 17	Sk	i(Sg)			05	29	45
	Gb	i(P)			05	27	12 D
		i			05	27	44
		i(Sg)			05	27	49
	Local.						
» 17	Up	iP			05	41	35 C
		i			05	41	41
		iS			05	45	10
		iLg2			05	47	47
		i(Rg)			05	48	31
		iPcS			05	49	36
					μ	s	
		P	N		0.4	4	
		P	z		0.5	5	
		P	z′		0.1	1.0	
		S	E		1.8	10	
		S	N		1.1	8	
		S	z		2.2	8	
		M	E		6.9	9	
		M	N		9.6	11	
		M	z		13	9	
	△ = 2150 km = 19½°.						
	Ki	iP			05	42	55
		iS			05	47	31
		i			05	47	46
		eLg2			05	51	53
		eRg			05	53	50
					μ	s	
		P	z′		0.3	1.5	
		S	N		1.0	10	
		M	E		10.0	12	
		M	N		9.1	9	
		M	z		12	9	
	△ = 3000 km = 27°.						
	Sk	iP			05	42	21
		i			05	42	37
		i			05	50	48
	Gb	iP			05	41	25
	Northern Greece.						
	Magn. = 5.4 (Up, Ki).						

1958							
July 17	Up	iP			13	59	03
	Ki	eP			13	58	06
	Sk	iP			13	58	29
		i			13	58	33
	Southeastern Alaska.						
» 17	Up	iP			19	13	17
					μ	s	
		P	z′		0.1	1.0	
		M	E		0.9	18	
		M	N		1.4	20	
		M	z		2.1	20	
	Ki	iP			19	12	26
		iPcP			19	13	09
					μ	s	
		M	E		1.6	17	
		M	N		0.9	18	
		M	z		2.1	18	
	△ = 6800 km = 61°.						
	Sk	eP			19	12	59
		iPcP			19	13	28
	△ = 7400 km = 66½°.						
	Aleutian Islands.						
	Magn. = 5.5 (Up, Ki).						
» 17	Up	iP			19	40	41 C
		iPcP			19	41	05
	Ki	iP			19	39	48
	Sk	iPcP			19	40	51
	Aleutian Islands.						
» 17	Up	iP			20	39	43
	Ki	eP			20	38	50
	Aleutian Islands.						
» 17	Up	iP			21	10	26
					μ	s	
		P	z′		0.3	1.0	
		M	E		1.2	18	
		M	N		1.9	21	
		M	z		3.1	22	
	Ki	iP			21	09	33
		iPcP			21	10	17
		eS			21	17	51
					μ	s	
		P	z′		0.1	1.2	
		S	E		0.5	14	
		M	E		1.6	17	
		M	N		1.7	18	
		M	z		3.9	18	
	△ = 6800 km = 61°.						
	Sk	iP			21	10	04
	Aleutian Islands.						
	Magn. = 5.8 (Up, Ki).						
» 17	Up	iP			21	21	21
	Aleutian Islands.						
» 18	Up	eP			00	50	22
		i(PcP)			00	50	47

1958							
July 18	Up						
(cont.)					μ	s	
		P	z′		0.2	1.0	
		M	E		3.2	24	
		M	N		2.4	22	
		M	z		3.1	18	
		△ = 7600 km = 68½°.					
	Ki	iP			00	49	30
		i			00	49	58
		i!			00	50	43
					μ	s	
		P	N		0.4	14	
		P	z		0.6	14	
		M	E		2.7	18	
		M	N		1.6	18	
		M	z		2.8	17	
	Sk	iP			00	50	03
		i			00	50	54
	Aleutian Islands.						
	Magn. = 5.8 (Up, Ki).						
» 18	Sk	eP			01	19	28
» 18	Ki	iP			02	00	50
	Sk	eP			02	00	36
	Ecuador-Peru border (h ~ 100 km).						
» 18	Ki	ePg			13	34	43
		eSg			13	35	18
		△ = 310 km = 2.8°.					
	Sk	eSn			13	35	35
		iSg			13	35	56
		△ = 430 km = 3.9°.					
» 18	Up	i(P)			16	26	55
	Gb	i(P)			16	26	27
» 18	Sk	iP			17	13	38
	Southeastern Alaska.						
» 18	Up	iP			18	52	37C
					μ	s	
		P	z′		0.1	0.8	
	Ki	iP			18	52	12
	Sk	iP			18	52	39
» 18	Up	iP			21	49	52D
					μ	s	
		P	z′		0.2	0.8	
		M	E		0.7	25	
	Ki	iP			21	49	26D
		eS			21	58	36
					μ	s	
		P	z′		0.2	1.0	
		M	E		0.5	17	
		M	N		0.4	16	
		M	z		0.4	15	
		△ = 7900 km = 71°.					
	Sk	iP			21	49	54
	Gb	iP			21	50	13
	Ryukyu Islands region.						

1958							
July 18	Ki	e(P)			22	31	06
	Gb	i(P)			22	32	16
» 19	Up	iPP			06	49	04
		iS			06	56	25
		iPS			06	58	26
					μ	s	
		PP	z		0.4	4	
		△ ~ 12000 km ~ 108°.					
	Ki	iP			06	44	10
		iPP			06	48	31
		eSKS			06	54	35
		eS			06	55	43
		i!			06	55	53
		ePS			06	57	38
					μ	s	
		P	z′		0.1	1.0	
		PP	z′		0.2	1.7	
		SKS	E		0.8	7	
		SKS	N		0.4	7	
		S	N		0.4	8	
		M	E		0.7	18	
		M	N		0.8	19	
		M	z		1.7	19	
		△ ~ 11550 km ~ 104°.					
	Sk	iP			06	44	32
		ePKP			06	48	31
		iPP			06	49	07
		△ ~ 12100 km ~ 109°.					
	New Guinea (h ~ 150 km).						
	Magn. = 6.6 (Up, Ki).						
» 19	Up	iP			15	08	37C
		i			15	09	08
					μ	s	
		M	E		1.1	20	
		M	N		1.7	19	
		M	z		1.6	18	
	Ki	iP			15	07	55
					μ	s	
		M	E		2.2	17	
		M	N		1.3	19	
		M	z		1.8	17	
	Sk	iP			15	08	29
	Gb	iP			15	09	02
	Near south coast of Hokkaido, Japan.						
» 19	Up	iP			17	34	24
					μ	s	
		P	z′		0.1	0.8	
	Ki	iP			17	33	32C
		iPcP			17	34	17
	Sk	iPcP			17	34	35
	Gb	iP			17	34	43
	Aleutian Islands.						
» 19	Up	iP			17	51	22
	Ki	iP			17	51	08
	Sk	iP			17	51	28
	Celebes Sea.						

1958							
July 19	Up	iP			18	30	42
		e			18	34	12
		iPP			18	34	59
		eSKS			18	41	19
		i			18	44	05
					μ	s	
		SKS	E		0.9	10	
		M	E		14	21	
		M	N		14	22	
		M	z		20	21	
		△ ~ 11350 km ~ 102°.					
	Ki	iP			18	30	27
		i			18	33	35
		eSKS			18	41	07
					μ	s	
		P	z′		0.1	1.5	
		SKS	E		1.5	9	
		SKS	N		0.4	8	
		M	E		23	21	
		M	N		11	18	
		M	z		23	21	
		△ ~ 10900 km ~ 98°.					
	Sk	eP			18	30	53
		iPP			18	35	00
	Gb	i(PP)			18	35	34
	Spice Islands. Magn. = 6.8 (Up, Ki; according to surface waves).						
» 19	Ki	iPKP			19	07	55
	Fiji Islands.						
» 19	Ki	iP			19	49	30
	(Aleutian Islands).						
» 19	Ki	eL			23	06	
					μ	s	
		M	E		1.0	21	
		M	N		0.6	20	
		M	z		1.1	21	
	Spice Islands.						
» 20	Sk	eP			00	29	08
	Rumania.						
» 20	Up	iP			01	34	04
» 20	Up	iP			01	59	26
» 20	Ki	eL			12	42	
					μ	s	
		M	E		0.5	20	
		M	z		0.9	22	
	Central Chile.						
» 20	Up	iP			19	31	24
		i			19	35	03
	Ki				—		
					μ	s	
		M	E		0.6	14	
		M	N		0.4	14	

1958							
July 20	Sk	iP			19	31	42
(cont.)		iS			19	35	29
		△ ~ 2200 km ~ 20°.					
	Gb	iP			19	31	17
	Western France.						
» 20	Up	iP			20	26	07
» 20	Up	iP			21	01	18
	Ki	e(P)			21	00	54
	Sk	iP			21	01	31
» 21	Up	iP			07	36	03C
		eS			07	44	57
		e!			07	46	11
					μ	s	
		P	z		0.7	4	
		P	z′		0.1	0.6	
		S	N		0.9	20	
		M	E		5.0	21	
		M	N		4.4	22	
		M	z		7.4	21	
		△ = 7550 km = 68°.					
	Ki	iP			07	35	16
		eS			07	43	32
		i!			07	45	22
					μ	s	
		P	N		0.3	9	
		P	z′		0.1	1.2	
		S	E		0.4	10	
		S	N		0.5	11	
		M	E		7.6	19	
		M	N		3.7	20	
		△ = 6850 km = 61½°.					
	Sk	iP			07	35	51
	Gb	iP			07	36	26
		iPcP			07	36	48
	Kurile Islands.						
	Magn. = 5.9 (Up, Ki).						
» 21	Gb	iP			07	55	25
» 21	Up	e(Sg)			11	52	47
	Gb	e(P)			11	51	27
		i(Sg)			11	52	18
	Local?						
» 21	Ki	iP			12	04	12
	Aleutian Islands.						
» 21	Gb	i(Sg)			12	07	30
	Local?						
» 21	Up	iP			14	48	21C
		eS			14	57	16
		iScS			14	58	14
		eP′P′			15	16	32
					μ	s	
		P	N		0.5	4	
		P	z		0.8	3	
		P	z′		0.4	0.6	

1958						
July 21	Up	S	E	0.9	6	
(cont.)		S	N	1.5	14	
		M	E	5.0	19	
		M	N	3.9	20	
		M	Z	5.8	22	
		△=7550 km=68°.				
	Ki	iP		14	47	27
		iPcP		14	48	12
		iS		14	55	34
		eP′P′		15	16	59
				μ	s	
		P	z′	0.1	0.6	
		PcP	z′	0.3	1.2	
		S	E	0.9	9	
		S	N	1.0	12	
		M	E	4.5	18	
		M	N	3.8	19	
		△=6650 km=60°.				
	Sk	iP		14	47	59C
		iPcP		14	48	32
		iP′P′		15	16	39
		△=7200 km=65°.				
	Gb	iP		14	48	38C
		iPcP		14	48	58
		△=7900 km=71°.				
		Aleutian Islands.				
		Magn.=6.1 (Up, Ki).				
» 21	Gb	eP		15	51	31
		iSg		15	52	25
		Local. It has not been possible to combine this record with the following, and therefore it probably represents a different shock.				
» 21	Ki	iPn		15	53	53
		iS*		15	54	51
		iSg		15	55	04
		△=490 km=4.4°.				
	Sk	iPn		15	53	27
		iPg		15	53	39
		iSg		15	54	22
		△=340 km=3.1°.				
		Off the central part of the Norwegian coast, 66½°N, 9½°E.				
		Origin time=15 52 39.				
» 21	Up	iPKS		18	55	31
	Ki	iPKP		18	51	53
	Sk	iPKP		18	52	04
	Gb	iPKS		18	55	44
		New Hebrides Islands.				
» 21	Up	iPg		20	51	54
		iSg		20	52	24
				μ	s	
		Pg	z′	0.1	0.5	
		Sg	z′	0.2	0.5	
		△=230 km=2.1°.				

1958						
July 21	Sk	iLg1		20	53	30
(cont.)		△=470 km=4.2°.				
		Baltic, 61.6°N, 20.2°E.				
		Origin time=20 51 14.				
		Underwater explosion.				
		On July 21—22 there is a series of seven shocks in the same locality, which has been determined from the following, more complete records.				
» 22	Up	iPg		03	55	14
		iSg		03	55	43
				μ	s	
		Pg	z′	0.1	0.5	
		Sg	z′	0.2	0.5	
		△=230 km=2.1°.				
	Ki	ePn		03	56	14
		eSn		03	57	18
		△=690 km=6.2°.				
	Sk	ePn		03	55	41
		iP*		03	55	50
		eSn		03	56	31
		iLg1		03	56	48
		△=470 km=4.2°.				
		Baltic, 61.6°N, 20.2°E.				
		Origin time=03 54 34.				
		Underwater explosion.				
» 22	Ki	iP		05	18	52
	Sk	iPcP		05	19	56
		Aleutian Islands.				
» 22	Sk	i(P*)		06	53	03
		i(Lg1)		06	54	02
		Origin time=06 51 49, if the same Baltic location, 61.6°N, 20.2°E, is assumed as for the other shocks in this series. Underwater explosion.				
» 22	Up	iPg		08	53	10
		iSg		08	53	39
				μ	s	
		Pg	z′	0.1	0.5	
		Sg	z′	0.2	0.5	
		△=230 km=2.1°.				
	Ki	eSn		08	55	10
		eSg		08	55	45
		△=690 km=6.2°.				
	Sk	ePn		08	53	37
		iP*		08	53	45
		iLg1		08	54	43
		△=470 km=4.2°.				
		Baltic, 61.6°N, 20.2°E.				
		Origin time=08 52 30.				
		Underwater explosion.				
» 22	Gb	i(P)		09	11	01
		Seismic?				

1958						
July 22	Gb	i(P)		10	39	35
		Blast?				
» 22	Up	iPg		12	57	20
		iSg		12	57	49
		iT		12	59	14
				μ	s	
		Pg	z′	0.2	0.5	
		Sg	z′	0.4	0.5	
		△=230 km=2.1°.				
	Ki	iPn		12	58	15
		iSn		12	59	26
		△=690 km=6.2°.				
	Sk	iPn		12	57	46
		iP*		12	57	56
		i		12	58	11
		iLg1		12	58	52
		△=470 km=4.2°.				
	Gb	i(Sg)		12	59	43
		△=630 km=5.7°.				
		Baltic, 61.6°N, 20.2°E.				
		Origin time=12 56 39.				
		Underwater explosion.				
		This is the first time a T phase from a Baltic source has been recorded (Up).				
» 22	Up	iPKP		15	12	17
	Ki	iPKP		15	12	11
	Gb	iPKP		15	12	33C
		Fiji Islands region (h ~ 600 km).				
» 22	Up	iPg		16	02	21
		iSg		16	02	49
				μ	s	
		Pg	z′	0.2	0.5	
		Sg	z′	0.2	0.5	
		△=230 km=2.1°.				
	Ki	e(Pn)		16	03	19
		iSn		16	04	28
		△=690 km=6.2°.				
	Sk	iPn		16	02	47
		iP*		16	02	56
		iSn		16	03	36
		iLg1		16	03	51
		△=470 km=4.2°.				
	Gb	eLg1		16	04	35
		△=630 km=5.7°.				
		Baltic, 61.6°N, 20.2°E.				
		Origin time=16 01 40.				
		Underwater explosion.				
» 22	Up	iPg		19	16	57
		iSg		19	17	25
				μ	s	
		Pg	z′	0.2	0.5	
		Sg	z′	0.2	0.5	
		△=230 km=2.1°.				
	Ki	ePn		19	17	54

1958						
July 22	Ki	eSn		19	19	05
(cont.)		△=690 km=6.2°.				
	Sk	iPn		19	17	24
		iP*		19	17	33
		iSn		19	18	13
		iLg1		19	18	28
		△=470 km=4.2°.				
	Gb	eSg		19	19	24
		△=630 km=5.7°.				
		Baltic, 61.6°N, 20.2°E.				
		Origin time=19 16 16.				
		Underwater explosion.				
» 22	Up	iP		20	42	36C
				μ	s	
		P	z′	0.1	0.5	
	Ki	iP		20	42	19C
	Sk	iP		20	42	42
		i		20	43	21
		Philippine Islands.				
» 22	Up	iP		22	56	41D
		i		22	56	50
				μ	s	
		P	z′	0.1	0.7	
	Ki	iP		22	55	48
				μ	s	
		P	z′	0.1	1.0	
	Sk	iP		22	56	17
	Gb	iP		22	56	56D
		Gulf of Alaska (h ~ 100 km).				
» 23	Up	iP		10	39	23
		i		10	39	26
		iPP		10	42	19
		iS		10	49	15
				μ	s	
		P	E	0.4	6	
		P	N	0.3	6	
		P	Z	1.2	6	
		P	z′	0.1	0.6	
		PP	z′	0.1	1.5	
		S	E	5.4	10	
		S	N	1.7	8	
		M	E	7.2	21	
		M	N	8.5	19	
		M	Z	11	17	
		△=8850 km=78½°.				
	Ki	iP		10	38	47
		iS		10	48	10
				μ	s	
		P	E	0.4	6	
		P	N	0.3	6	
		P	Z	1.1	6	
		P	z′	0.2	1.5	
		S	E	5.7	10	
		S	N	3.0	9	
		M	E	15	20	
		M	N	11	20	
		M	Z	12	19	
		△=8050 km=72½°.				

1958							
July 23	Sk	iP		10	39	19	
(cont.)	Gb	iP		10	39	40	
	South of Honshu, Japan.						
	Magn.=6.3 (Up, Ki).						
» 23	Up	iP		12	35	45	
		i		12	36	01	
	Ki	iP		12	35	10	
	Bonin Islands.						
» 23	Up	e		13	43	32	
				μ	s		
		M	N	1.2	22		
	Ki	eP		13	29	06	
				μ	s		
		M	E	0.5	19		
		M	N	0.5	16		
		M	Z	0.8	18		
	Sk	eP		13	29	13	
		i		13	29	34	
» 24	Ki	e		02	45	54	
		iSg		02	46	34	
	Sk	ePn		02	44	57	
		iSg		02	45	51	
	Off the central part of the						
	Norwegian coast, 66½°N, 9½°E.						
	Origin time=02 44 09.						
» 24	Up	iP		13	19	05	
		i		13	19	24	
				μ	s		
		P	Z′	0.1	1.0		
		M	E	0.4	17		
		M	N	0.6	18		
		M	Z	0.9	18		
	Ki	iP		13	18	12	
				μ	s		
		P	Z′	0.4	1.4		
		M	E	0.8	17		
		M	N	0.8	19		
		M	Z	1.1	19		
	Sk	iP		13	18	43 D	
	Gb	iP		13	19	25	
	Aleutian Islands.						
» 24	Up	iP		23	06	40	
	Rumania (h ~ 150 km).						
» 25	Ki	iP		03	37	35	
» 25	Ki	e(P)		06	49	43	
	Sk	e(P)		06	48	48	
		i		06	49	03	
» 26	Up				—		
				μ	s		
		M	E	1.2	19		
		M	N	1.1	20		
		M	Z	1.8	21		
	Ki	iPKS		06	35	56	

1958							
July 26	Ki				μ	s	
(cont.)		M	E		2.0	19	
		M	N		1.5	19	
		M	Z		1.9	20	
	South Indian Ocean.						
» 26	Gb	iP		11	17	02	
» 26	Up	iP		16	00	09	
		i		16	00	14	
	Ki	iP		16	00	50	
	Gb	iP		16	00	17	
	Iran.						
» 26	Up	iP		17	49	53	
		i		17	50	02	
		epP		17	52	01	
		ePP		17	54	15	
		ipPP		17	56	05	
		iPPP		17	56	40	
		iSKS		17	59	31	
		iS		18	00	40	
		iPS		18	03	27	
		isS		18	04	30	
		i(sPS)		18	05	55	
		i		18	16	18	
		i		18	20	12	
				μ	s		
		P	Z	4.4	5		
		P	Z′	0.4	0.5		
		PP	E	7.8	6		
		PP	Z	12	6		
		SKS	E	16	6		
		SKS	N	2.5	4		
		S	N	13	8		
		M	E	66	22		
		M	N	25	20		
		M	Z	32	21		
	△=11200 km=101°.						
Ki	iP			17	50	05	
	i			17	50	13	
	ipP			17	52	17	
	i			17	52	49	
	e			17	53	58	
	iPP			17	54	24	
	i			17	54	59	
	i			17	55	52	
	iSKS			17	59	42	
	iS			18	01	01	
	iPKKP			18	06	18	
	iP′P′			18	14	20	
				μ	s		
	P	E		2.1	5		
	P	Z		3.7	5		
	P	Z′		4.5	2.2		
	PP	E		6.9	6		
	PP	Z		9.8	7		
	PP	Z′		6.6	2.4		
	SKS	E		18	10		
	S	N		20	8		
	PKKP	Z′		0.6	1.5		

1958							
July 26	Ki	P′P′	Z′	0.2	1.3		
(cont.)		M	E	24	18		
		M	N	13	21		
		M	Z	11	16		
		△=11450 km=103°.					
	Sk	iP		17	49	46	
		i		17	49	55	
		iSKS		17	59	25	
		iPKKP		18	06	25	
		eP′P′		18	14	23	
		i		18	17	04	
		e		18	20	17	
	Gb	iP		17	49	36	
		i		17	49	46	
		ipP		17	51	45	
		iPP		17	53	49	
		i		18	14	17	
		iP′P′		18	14	36	
		△~11000 km~99°.					
	Peru-Bolivia border.						
	h=610 km (Up, Ki, Gb).						
	Magn.=7.7 (Up, Ki).						
	This earthquake would deserve a thorough study of phases and travel times.						
» 26	Up	iP		18	32	06	
		i		18	32	17	
	Ki	i(P)		18	32	06	
		i		18	32	28	
	Sk	e(P)		18	31	49	
		i		18	32	10	
» 27	Up	iPKP		00	40	48	
		i		00	40	53	
	Ki	ePKP		00	40	29	
		i		00	40	41	
	Sk	ePKP		00	40	41	
		i		00	40	50	
	Gb	iPKP		00	40	54	
	Fiji Islands region (h ~ 600 km).						
» 27	Up	iP		02	25	28	
	Ki	iP		02	24	34	
	Aleutian Islands.						
» 27	Up	eP		03	32	50	
	Ki	iP		03	32	05	
				μ	s		
		M	E	1.2	18		
		M	N	1.0	19		
	Kurile Islands.						
» 27	Up	iP		14	02	14	
	Ki	iP		14	02	37	
» 27	Up	iP		14	55	15	
		i		14	55	35	
	Ki	iP		14	56	18	
		i		14	56	29	

1958							
July 27	Sk	iP		14	55	54	
(cont.)		i		14	56	07	
	West of Cyprus.						
» 27	Up	iP		17	20	47	
	Ki	iP		17	21	12	
				μ	s		
		M	N	0.5	17		
» 27	Ki	iP		17	32	53	
		e		17	34	12	
				μ	s		
		M	E	0.8	19		
		M	N	0.6	20		
		M	Z	0.7	20		
	Sk	iPP		17	36	56	
	Southern Indian Ocean.						
» 27	Up	iP		18	36	24	
				μ	s		
		M	N	0.8	19		
	Ki	iP		18	36	26	
				μ	s		
		P	Z′	0.2	2.0		
		M	E	0.5	19		
		M	N	0.4	13		
		M	Z	0.3	15		
	Sk	iP		18	35	58 D	
		i		18	36	38	
	North Atlantic Ocean.						
» 27	Up	iP		20	01	38	
	Ki	iP		20	00	45	
» 28	Ki	i(P)		08	13	02	
		i		08	13	31	
» 28	Ki	iP		09	18	36	
» 28	Ki	i(P)		13	32	04	
		iSg		13	32	30	
				μ	s		
		Sg	Z′	0.2	0.4		
	Sk	eSg		13	34	50	
	Local.						
» 28	Gb	iP		13	52	14	
» 28	Up	i(P)		14	42	57	
» 28	Ki	eP		16	00	30	
	Sk	iP		16	00	00	
	North Atlantic Ocean.						
» 28	Up	eP		16	03	18	
		iS		16	08	05	
		eSS		16	09	21	
				μ	s		
		M	E	1.4	21		
		M	N	0.7	20		
		M	Z	1.2	22		

1958							
July 28	Up	△=3100 km=28°.					
(cont.)	Ki	iP			16	03	18
		e			16	04	21
		i(S)			16	08	14
					μ	s	
		M	E		0.8	19	
		M	N		0.4	16	
		M	Z		0.6	16	
	Sk	iP			16	02	50
		i			16	04	04
		North Atlantic Ocean.					
»	28	Up	iPKP		17	43	03
		Ki	ePKP		17	42	56
			iSKP		17	45	37
		Sk	iPKP		17	43	06
			iSKP		17	45	55
		Gb	iPKP		17	43	07
		Fiji Islands region (h ~ 500 km).					
»	28	Ki	iPKP		18	52	59
		Sk	iPKP		18	52	58
		Southern Pacific Ocean.					
»	28	Up	iSKP		21	44	20
		Ki	iSKP		21	43	56
		Sk	iSKP		21	44	13
		Fiji Islands (h ~ 650 km).					
»	28	Sk	iP		22	08	50
			i		22	16	36
»	29	Up	iPKP		04	18	13
		Gb	ePKP		04	18	44
		Tonga Islands.					
»	29	Up	i(PKP)		09	34	55
		Sk	i(PKP)		09	34	49
		(Tonga Islands).					
»	29	Sk	eP		11	02	08
			i		11	03	41
»	29	Up				—	
					μ	s	
		M	E		0.8	21	
		M	N		1.2	22	
		M	Z		1.0	23	
		Ki	i(PKS)		11	11	44
					μ	s	
		M	E		0.7	20	
		M	N		0.7	20	
		M	Z		0.7	20	
		Tonga Islands.					
»	29	Up	iPg		13	47	23C
			iSg		13	47	50
					μ	s	
		Pg	z′		0.2	0.5	
		Sg	z′		0.2	0.5	

1958							
July 29	Up	△=230 km=2.1°.					
(cont.)	Sk	eSg			13	50	07
		Baltic Sea, northwest of Gotland.					
		Origin time= 13 46 41.					
»	29	Up	iP		16	00	00
			i		16	00	09
		Ki	iP		15	59	48
		Sk	eP		16	00	26
»	29	Up	iP		21	48	08C
			i		21	48	16
			eS		21	56	53
					μ	s	
		P	Z		0.9	5	
		P	z′		0.5	1.5	
		S	N		0.9	10	
		M	E		2.2	23	
		M	N		1.8	20	
		M	Z		3.4	24	
		△=7300 km=65½°.					
		Ki	iP		21	48	47C
			eS		21	58	10
					μ	s	
		P	Z		0.8	4	
		P	z′		0.4	1.5	
		S	N		0.6	11	
		M	E		2.5	23	
		M	N		1.4	20	
		M	Z		1.8	21	
		△=7950 km=71½°.					
		Sk	iP		21	48	13C
		Gb	iP		21	47	44C
		Atlantic Ocean.					
		Magn.=6.2 (Up, Ki).					
»	29	Ki	ePKP		22	41	11
		North Island, New Zealand.					
»	30	Up	iP		02	58	20C
					μ	s	
		P	z′		0.2	0.9	
		M	E		1.8	20	
		M	N		1.8	20	
		M	Z		2.0	19	
		Ki	iP		02	57	33
			eScS		03	07	24
					μ	s	
		P	Z		0.3	7	
		M	E		2.7	20	
		M	N		2.0	20	
		M	Z		2.3	18	
		Sk	iP		02	58	09
			i		03	00	02
		Gb	iP		02	58	43C
			i		02	58	53
		Kurile Islands.					
»	30	Up	e(PS)		05	12	56

1958							
July 30	Up				μ	s	
(cont.)		M	E		1.8	22	
		M	N		2.4	22	
		M	Z		3.7	21	
	Ki	eP			04	58	52
		ePP			05	03	12
		eS			05	10	31
					μ	s	
		PP	Z		0.4	7	
		M	E		3.3	24	
		M	N		1.8	22	
		M	Z		3.5	24	
		△~11450 km~103°.					
	Sk	ePP			05	03	48
	New Guinea. Magn.=6.1 (Up, Ki).						
»	30	Up	iP		07	44	32
		Ki	iP		07	43	58
			iS		07	53	19
					μ	s	
		P	z′		0.1	1.0	
		△=8050 km=72½°.					
		Sk	iP		07	44	28
		South of Honshu, Japan.					
»	30	Sk	iP		14	04	57
»	30	Ki	ePKP		15	30	18
					μ	s	
		M	E		0.5	20	
		M	N		0.2	18	
		M	Z		0.4	18	
		South Pacific Ocean.					
»	31	Up	iP		00	17	05
»	31	Up	iP		02	14	50C
			iPcP		02	15	16
			i		02	15	56
					μ	s	
		P	z′		0.2	0.7	
		Ki	iP		02	13	57C
					μ	s	
		P	z′		0.1	1.0	
		Sk	iP		02	14	28
		Gb	iP		02	15	07D
		Aleutian Islands.					
»	31	Up	iP		02	37	27
					μ	s	
		P	z′		0.1	0.5	
		Ki	iP		02	36	34
					μ	s	
		P	z′		0.1	1.0	
		Sk	iP		02	37	05
		Gb	iP		02	37	44
		Aleutian Islands.					
»	31	Up	iP		15	58	28C
		Ki	iP		15	57	32
		Southern Alaska.					

1958							
Aug	1	Up	iP		02	15	04
		Rumania (h ~ 150 km).					
»	1	Up	iPKP		05	56	22
			iSKP		05	58	58
		Ki	iPKP		05	56	09
			iPP		05	58	10
			iPKS		05	59	27
			eSS		06	14	48
					μ	s	
		PKP	z′		0.1	1.0	
		PKS	N		0.4	7	
		Sk	iPKP		05	56	08
			iPKP		05	56	21
			iSKP		05	59	12
		Fiji Islands region (h ~ 450 km).					
»	1	Up	iP		12	40	50
			i		12	41	13
		Ki	iP		12	40	32C
		Sk	iP		12	40	55
			i		12	41	28
		Near south coast of Luzon (h ~ 150 km).					
»	1	Up	i(P)		12	54	34
»	1	Ki	iSKP		14	48	29
		Sk	eSKP		14	48	37
		Fiji Islands (h ~ 500 km).					
»	2	Ki	iP		04	58	04
		Sk	iP		04	57	56
			i		04	58	09
		Off coast of Oaxaca, Mexico.					
»	2	Gb	eP		10	59	(19)
»	2	Up	i(P)		11	35	24
		Ki	iP		11	34	34
»	3	Up	iPKP		01	24	45
			iSKP		01	27	36
			iPP		01	27	56
			iSS		01	45	34
					μ	s	
		SKP	z′		0.2	1.0	
		PP	z		0.6	3	
		△~15550 km~140°.					
		Ki	ePKP		01	24	27
			iPKP		01	24	37
			iSKP		01	27	13
			epPKS		01	30	15
			eSKS		01	30	55
			i!		01	31	17
			iPSKS		01	37	08
					μ	s	
		SKP	N		0.5	7	
		SKP	z		1.7	6	
		SKP	z′		0.2	1.5	

1958							
Aug	3	Ki	SKS	E	0.5	7	
(cont.)			SKS	N	0.4	8	
			△ ~ 14650 km ~ 132°.				
		Sk	iPKP		01	24	39
			iSKP		01	27	29
		Fiji Islands region (h ~ 550 km).					
»	3	Sk	eP		04	42	42
»	3	Ki	eP		05	23	18
		Unimak Island region.					
»	3	Up	iP		11	56	39
					μ	s	
			P	z′	0.1	0.9	
»	4	Up	iP		04	27	19
			eSKS		04	37	42
			e		04	41	56
					μ	s	
			M	E	1.7	25	
			M	N	1.9	23	
			M	z	2.0	23	
			△ ~ 11800 km ~ 106°.				
		Ki	iP		04	27	03
			ipP		04	27	44
			ePP		04	31	24
			i		04	32	00
			epPP		04	32	14
			iSKS		04	37	26
			iS		04	38	39
					μ	s	
			PP	z	0.6	7	
			SKS	E	0.8	7	
			S	E	1.4	8	
			S	N	0.6	7	
			M	E	1.2	19	
			M	N	1.4	20	
			M	z	1.3	19	
			△ ~ 11550 km ~ 104°.				
		Banda Sea (h ~ 150 km).					
»	4	Up	iP		06	33	46
					μ	s	
			P	z′	0.1	0.7	
		Sk	iP		06	34	30
		Greece.					
»	4	Up	iP		17	59	06
		Sk	iP		17	58	56
		Kurile Islands (h ~ 200 km).					
»	4	Up	iP		20	55	37 C
					μ	s	
			P	z′	0.1	0.5	
		Ki	iP		20	55	45
		Sk	iP		20	56	03 D
			iPcP		20	57	45
		Pamir.					

1958							
Aug	5	Gb	iP		03	24	58
»	5	Up	iP		04	02	15
		Hindu Kush.					
»	5	Ki	i(P)		10	28	51
			i(Sg)		10	29	20
		Local?					
»	6	Up	iP		04	01	59
		Aleutian Islands.					
»	6	Up	iPn		17	17	37
			i		17	17	42
			iPg		17	17	58
			i(S*)		17	18	49
			iSg		17	19	11
					μ	s	
			Pn	z′	0.1	0.5	
			(S*)	z′	0.2	0.5	
			Sg	E	1.8	1	
			Sg	N	3.6	1	
			Sg	z′	1.3	0.5	
			△ = 600 km = 5.4°.				
		Ki	iPn		17	18	38
			i		17	18	45
			i(S*)		17	20	55
			iSg		17	21	34
					μ	s	
			Sg	E	1.1	3	
			Sg	N	0.9	3	
			Sg	z′	0.9	0.9	
			△ = 1080 km = 9.7°.				
		Sk	iPn		17	17	25
			i		17	17	40
			iSn		17	18	23
			iSg		17	18	45
			△ = 510 km = 4.6°.				
		Gb	iPn		17	17	06
			iPg		17	17	16
			iSg		17	17	58
			△ = 360 km = 3.2°.				
		Southwest Norway, 59.8°N, 7.2°E.					
		Origin time = 17 16 13.					
»	6	Up	iPKP		21	28	32
			iPP		21	31	07
			iPKS		21	32	05
					μ	s	
			PKP	z′	0.1	1.2	
			PP	z′	0.1	1.5	
			PKS	N	0.7	4	
			M	E	1.3	20	
			M	N	2.0	22	
			M	z	2.4	23	
			△ ~ 15000 km ~ 135°.				
		Ki	iPKP		21	28	18
			iPP		21	30	21
			e(PKS)		21	31	36

1958							
Aug	6	Ki					
(cont.)					μ	s	
			PKP	z′	0.2	1.2	
			(PKS)	N	0.7	6	
			M	E	1.8	20	
			M	N	2.1	22	
			M	z	2.9	20	
			△ ~ 14200 km ~ 128°.				
		Sk	iPKP		21	28	28 C
		Gb	iPKP		21	28	40
		Tonga Islands.					
		Magn. = 6.1 (Up, Ki).					
»	6	Ki	iPKP		22	09	38
		Sk	iPKP		22	09	49
		Santa Cruz Islands (h ~ 150 km).					
»	7	Up	iPg		02	34	44
			iSg		02	34	59
			iL		02	35	06
			△ = 130 km = 1.2°.				
		This is the first of a series of six shocks in the central Baltic, 58.8°N, 18.7°E (location is determined from the shock at 02 56 11 by combination with the Helsinki record). Origin time = 02 34 19. Explosion?					
»	7	Up	i(L)		02	49	24
		Probably same location in the Baltic as for preceding shock. Explosion?					
»	7	Up	iPg		02	56	35 D
			iSg		02	56	51
			iL		02	57	03
					μ	s	
			Sg	z′	0.1	0.5	
			△ = 130 km = 1.2°.				
		Baltic, 58.8°N, 18.7°E.					
		Origin time = 02 56 11.					
		Explosion?					
»	7	Up	iPg		02	57	50
			iSg		02	58	06
			iL		02	58	16
			△ = 130 km = 1.2°.				
		Baltic, 58.8°N, 18.7°E.					
		Origin time = 02 57 26.					
		Explosion?					
»	7	Up	iPg		03	02	04 D
			iSg		03	02	20
			iL		03	02	29
					μ	s	
			Pg	z′	0.1	0.5	
			△ = 130 km = 1.2°.				
		Baltic, 58.8°N, 18.7°E.					

1958							
Aug	7	Origin time = 03 01 40.					
(cont.)		Explosion?					
»	7	Up	iPg		03	05	21 D
			iSg		03	05	37
			iL		03	05	46
					μ	s	
			Pg	z′	0.2	0.5	
			Sg	z′	0.2	0.5	
			△ = 130 km = 1.2°.				
		Sk	i(Lg1)		03	07	56
		Gb	iSg		03	07	01
		Baltic, 58.8°N, 18.7°E.					
		Origin time = 03 04 57.					
		Explosion?					
»	7	Ki	e(Sg)		13	03	45
		Puolanka, Finland.					
»	7	Up	iPg		15	27	53
			iS*		15	28	29
			iSg		15	28	39
			△ = 390 km = 3.5°.				
		Sk	eSg		15	31	07
		Baltic coast, 57.1°N, 21.4°E.					
		Origin time = 15 26 43.					
		Explosion?					
»	8	Up	iP		00	46	38
		Ki	iP		00	45	43
		Sk	iP		00	46	20
		Komandorskie Islands.					
»	8	Up	eP		05	34	15
		Sk	eP		05	34	41
		Off northeast coast of Spain.					
»	8	Ki	iP		07	39	44
		Southern Alaska.					
»	8	Up	iPn		09	50	24
			iSg		09	51	05
			△ = 300 km = 2.7°.				
		Sk	e(Pg)		09	52	06
			eSg		09	53	32
		This is the first shock of a series of six shocks, possibly explosions, on Aug. 8 in the Baltic, 58°N, 21½°E. Origin time = 09 49 37.					
»	8	Up	iPn		10	43	47
			eSg		10	44	33
			△ = 300 km = 2.7°.				
		Sk	eSg		10	46	51
		Baltic, 58°N, 21½°E. Origin time = 10 43 03. Explosion?					
»	8	Gb	i(P)		12	50	08

1958							
Aug	8	Up	iP		12	59	33C
			i		13	02	11
			iS		13	05	31
			e		13	08	19
			e		13	08	49
					μ		s
			P	z′	0.2		0.7
			M	N	0.9		24
		Ki	iP		12	59	42C
			i		13	02	25
			eS		13	05	48
			eSS		13	09	14
					μ		s
			P	z′	0.2		0.7
		Sk	iP		12	59	59C
		Gb	iP		12	59	54
		Hindu Kush (h ~ 200 km).					
»	8	Up	iPn		14	46	59
			iSg		14	47	39
		△ = 300 km = 2.7°.					
		Sk	eSg		14	49	59
		Baltic, 58°N, 21½°E.					
		Origin time = 14 46 12.					
		Explosion?					
»	8	Up	iPn		15	11	39
			i		15	12	07
			eSg		15	12	21
		△ = 300 km = 2.7°.					
		Ki	eSg		15	16	26
		Sk	eSg		15	14	50
		Baltic, 58°N, 21½°E.					
		Origin time = 15 10 53.					
		Explosion?					
»	8	Up	iPn		16	00	08
			iSg		16	00	54
		△ = 300 km = 2.7°.					
		Ki	eSg		16	04	44
		Sk	eSg		16	03	15
		Baltic, 58°N, 21½°E.					
		Origin time = 15 59 24.					
		Explosion?					
»	8	Up	iPn		16	29	18
			iSg		16	30	02
		△ = 300 km = 2.7°.					
		Sk	e(Sg)		16	32	12
			e		16	32	38
		Baltic, 58°N, 21½°E.					
		Origin time = 16 28 33.					
		Explosion?					
»	8	Up	iP		20	42	07
			iS		20	46	03
					μ		s
			P	z′	0.1		0.6
		△ = 2350 km = 21°.					
		Ki	iP		20	43	19

1958							
Aug	8	Ki				μ	s
(cont.)			M	E		0.8	15
			M	N		0.3	15
		Sk	iP		20	42	33
		Off northeast coast of Spain.					
»	9	Ki	iPKP		02	30	57
		Near north coast of North Island, New Zealand.					
»	9	Up	iP		07	34	45
		Ki	iP		07	34	46
		Sk	eP		07	34	59
		Off northwest coast of Sumatra.					
»	9	Up	iP		09	38	22
					μ		s
			M	E	0.6		9
			M	N	0.3		8
			M	Z	0.6		9
		Ki	iP		09	39	48
					μ		s
			M	E	0.8		11
			M	N	0.3		10
			M	Z	0.3		10
		Sk	iP		09	39	08
		Yugoslavia.					
»	9	Gb	iP		10	13	38
»	9	Up	e		13	16	28
					μ		s
			M	E	1.0		25
			M	N	0.9		20
			M	Z	1.7		24
		Ki	ePP		13	08	09
			ePS		13	17	54
					μ		s
			(P)	z′	0.5		2.5
			M	E	0.9		20
			M	N	0.9		20
			M	Z	1.2		20
		Sk	ePP		13	07	33
		Northeast of Sandwich Islands.					
»	9	Up	iP		13	44	38
					μ		s
			P	z′	0.1		0.8
		Ki	iP		13	43	55
		Sk	iP		13	44	30
		Off southeast coast of Hokkaido, Japan.					
»	9	Up	iP		19	49	35
		Ki	iP		19	48	42
		Aleutian Islands.					
»	9	Ki	iP		21	45	03
		Off south coast of Kamchatka.					

1958							
Aug	10	Ki	eL		03	51	
					μ		s
			M	E	0.6		16
			M	N	0.3		16
			M	Z	0.5		16
		Off east coast of Honshu, Japan.					
»	10	Gb	iP		08	43	43
		(Alaska).					
»	10	Sk	iP		12	42	24
		Yugoslavia.					
»	10	Up	eL		18	57	
					μ		s
			M	E	0.8		20
			M	N	0.7		20
			M	Z	1.1		21
		Ki	eL		18	57	
					μ		s
			M	E	0.3		18
			M	N	0.7		20
			M	Z	0.6		19
		New Britain region.					
»	10	Up	i(P)		20	00	35
		Ki	iP		19	58	21
			i		20	00	59
»	10	Ki	iP		23	53	28
			isP		23	54	14
		Sk	iP		23	54	09
			ipP		23	54	43
		Mariana Islands region (h ~ 150 km).					
»	11	Ki	iPKP		08	12	17
		Sk	iPKP		08	12	27
			iPKS		08	15	48
		New Hebrides Islands.					
»	11	Sk	eP		09	24	00
			i		09	24	41
»	11	Gb	iP		10	21	05C
»	11	Up	i(Sg)		14	07	27
		Sk	e(Sg)		14	09	26
		Near coast of southwest Finland.					
»	11	Up	i(Sg)		14	11	55
		Sk	i(Sg)		14	13	51
		Near coast of southwest Finland.					
»	11	Up	iPn		16	08	52
			iSn		16	10	27
			iSg		16	11	24

1958							
Aug	11	Up				μ	s
(cont.)			Sg	z′		0.1	0.5
		△ = 920 km = 8.3°.					
		Sk	i		16	11	24
			eSg		16	13	33
		△ = 1360 km = 12.2°.					
		Gb	e(Sn)		16	10	03
			iSg		16	10	38
		△ = 770 km = 6.9°.					
		Poland, 51.7°N, 17.8°E.					
		Origin time = 16 06 49.					
»	11	Up	eP		20	23	09
			i		20	23	12
		Ki	iP		20	23	20
		Sk	iP		20	23	37
»	11	Up	iP		20	39	19
			i		20	39	26
			eS		20	50	03
					μ		s
			S	N	0.4		9
			M	E	0.5		20
			M	N	0.5		19
		△ = 9900 km = 89°.					
		Ki	iP		20	39	18C
			i		20	39	29
			eS		20	50	00
					μ		s
			P	z′	0.1		1.0
			S	E	0.4		10
			M	E	0.5		20
			M	N	0.9		22
			M	Z	0.9		19
		△ = 9850 km = 88½°.					
		Sk	iP		20	39	33
			iPP		20	43	12
		Off coast of Sumatra.					
»	11	Up	iPKP2		22	36	01
		Ki	ePKP		22	35	26
		North Island, New Zealand (h ~ 200 km).					
»	12	Up	iP		08	27	03
		Ki	iP		08	26	09
		Sk	eP		08	26	40
		Aleutian Islands.					
»	12	Up	iP		12	32	59
		Ki	eP		12	32	59
					μ		s
			M	E	0.5		20
			M	N	0.9		22
		Sk	iP		12	33	20
		Nepal-Tibet border region.					
»	12	Up	eP		12	49	09
		Sk	eP		12	49	30
		Nepal-Tibet border region.					

1958							
Aug 12	Ki	iP		15	20	01	
	Sk	iP		15	20	28	
	Southeastern Alaska.						
» 12	Up	iP		15	48	27	
	Ki	iP		15	48	15	D
				μ	s		
		P	z′	0.1	1.5		
	Sk	iP		15	48	07	
	Gb	iP		15	48	13	D
	Mexico (h ~ 100 km).						
» 12	Up			—			
				μ	s		
		M	E	0.6	22		
		M	N	0.5	18		
	Ki	iP		16	35	44	
				μ	s		
		M	E	0.6	16		
		M	N	0.5	17		
		M	Z	0.9	17		
	Sk	iP		16	35	55	
	Gulf of California.						
» 12	Ki	iP		17	06	40	
	Molucca Passage.						
» 12	Up	iP		19	38	49	
		i		19	41	46	
		ePP		19	42	44	
		iSKS		19	49	30	
		iS		19	50	13	
		ePS		19	51	38	
				μ	s		
		SKS	E	0.8	10		
		S	N	0.9	10		
		M	E	15	23		
		M	N	8.4	23		
		M	Z	17	22		
	△ ~ 11000 km ~ 99°.						
Ki	iP			19	38	33	C
	i			19	38	44	
	ePP			19	42	29	
	i			19	43	40	
	iSKS			19	49	06	
	eS			19	49	43	
				μ	s		
	P	Z		0.3	6		
	P	z′		0.4	2.0		
	PP	E		0.6	7		
	PP	Z		0.7	6		
	SKS	E		0.8	9		
	S	N		0.7	10		
	M	E		9.5	20		
	M	N		6.0	20		
	M	Z		13	22		
	△ = 10650 km = 96°.						
Sk	iP			19	38	56	
	ePKKP			19	55	15	
Molucca Passage.							
Magn. = 6.4 (Up, Ki).							

1958							
Aug 12	Ki	e(P)		21	27	44	
	Molucca Passage.						
» 13	Up	iP		04	04	16	
				μ	s		
		M	E	1.3	20		
		M	N	1.2	22		
		M	Z	1.7	20		
	Ki	iP		04	04	01	
		eSKS		04	14	35	
		eS		04	15	23	
				μ	s		
		P	z′	0.2	1.2		
		M	E	0.8	17		
		M	N	0.9	20		
		M	Z	1.4	20		
	Sk	iP		04	04	21	
	Molucca Passage.						
» 13	Up	iP		07	41	00	
		iPP		07	42	31	
		eSS		07	49	21	
		i		07	49	48	
				μ	s		
		P	z′	0.1	1.0		
		PP	z′	0.2	1.0		
		M	E	5.8	15		
		M	N	2.9	18		
		M	Z	7.4	15		
	Ki	iP		07	41	14	
		iPP		07	42	44	
		eS		07	47	23	
		eSS		07	50	15	
				μ	s		
		PP	z′	0.1	1.0		
		S	E	0.3	7		
		M	E	2.5	14		
		M	N	1.2	11		
		M	Z	2.1	13		
	△ = 4500 km = 40½°.						
	Sk	iP		07	41	28	
		iPP		07	43	06	
	Gb	eP		07	41	16	
		i		07	41	27	
		iPP		07	42	51	
	Afghanistan.						
	Magn. = 5.7 (Up, Ki).						
» 13	Ki	e(P)		08	41	02	
		i(Sg)		08	41	33	
	Local?						
» 13	Up	iP		10	57	48	
	Ki	iP		10	56	56	
		iPcP		10	57	41	
	Sk	iP		10	57	28	
	Aleutian Islands.						
» 13	Up	iPKP		17	10	23	
	Ki	iSKP		17	12	53	
	Gb	iPKP		17	10	33	

1958							
Aug 13	South of Fiji Islands						
(cont.)	(h ~ 550 km).						
» 13	Up	iP		17	41	04	
				μ	s		
		M	E	0.6	12		
		M	N	0.6	14		
		M	Z	0.8	15		
	Ki	iP		17	41	10	
				μ	s		
		M	E	0.5	10		
		M	N	0.3	10		
		M	Z	0.5	10		
	Sk	iP		17	41	22	
	West Pakistan.						
» 13	Up	iP		20	24	08	
		i		20	24	21	
		iS		20	33	12	
		eScS		20	34	04	
		e		20	52	07	
		iP′P′		20	52	16	
				μ	s		
		P	N	0.4	5		
		P	Z	0.9	5		
		P	z′	0.2	0.5		
		S	E	0.4	6		
		S	N	0.8	6		
		P′P′	Z	0.3	5		
		M	E	1.2	18		
		M	N	1.0	18		
		M	Z	1.2	18		
	△ = 7650 km = 69°.						
	Ki	iP		20	23	16	
		ePa		20	27	06	
		iS		20	31	34	
				μ	s		
		P	N	0.5	7		
		P	Z	0.8	7		
		P	z′	0.2	1.1		
		S	E	0.3	7		
		S	N	0.7	8		
		M	E	1.7	19		
		M	N	1.0	18		
		M	Z	1.2	18		
	△ = 6800 km = 61°.						
	Sk	iP		20	23	48	
	Gb	iP		20	24	24	
		i		20	24	36	
	Aleutian Islands.						
	Magn. = 6.1 (Up, Ki).						
» 14	Up	iP		02	41	28	
	Ki	iP		02	40	59	
	Sk	iP		02	41	25	
	Mariana Islands.						
» 14	Up	iPKP		10	04	47	
	Gb	iPKP		10	04	54	
		i		10	05	00	

1958							
Aug 14	Gb	i		10	05	08	
(cont.)	Tonga Islands region.						
» 14	Up	iP		11	33	31	
		iPP		11	34	44	
		eS		11	38	43	
		iSS		11	40	42	
				μ	s		
		S	E	2.0	19		
		S	N	1.5	17		
		M	E	7.1	18		
		M	N	5.3	15		
		M	Z	9.4	18		
	△ = 3550 km = 32°.						
	Ki	iP		11	34	13	
		iPP		11	35	34	
		eS		11	39	57	
				μ	s		
		P	z′	0.4	0.8		
		PP	z′	0.6	2.0		
		S	E	1.4	17		
		S	N	2.3	18		
		M	E	7.7	20		
		M	N	5.1	19		
		M	Z	9.5	20		
	△ = 4100 km = 37°.						
	Sk	iP		11	34	07	
	Gb	iP		11	33	41	
	Iran.						
» 14	Ki	iPKP		13	02	26	
	Sk	iPKP		13	02	37	
	New Hebrides Islands.						
» 14	Up	iP		15	06	13	C
		i		15	06	29	
		eS		15	15	12	
		i		15	15	42	
				μ	s		
		P	N	0.5	5		
		P	Z	1.0	5		
		P	z′	0.7	1.0		
		S	E	0.5	6		
		S	N	0.4	6		
		M	E	6.3	20		
		M	N	11	21		
		M	Z	13	21		
	△ = 7600 km = 68½°.						
	Ki	iP		15	05	20	
		iPcP		15	06	06	
		iPcS		15	10	08	
		iS		15	13	35	
				μ	s		
		P	N	0.9	10		
		P	Z	1.9	10		
		P	z′	0.4	1.2		
		S	E	1.6	13		
		S	N	0.8	13		
		M	E	7.0	20		
		M	N	9.2	18		
		M	Z	11	18		

1958							
Aug 14	Ki	△=6700 km=60½°.					
(cont.)	Sk	iP			15	05	52C
		iPcP			15	06	25
		iPcS			15	10	29
		△=7200 km=65°.					
	Gb	eP			15	06	28
		i			15	06	30
		Aleutian Islands.					
		Magn.=6.4 (Up, Ki).					
» 14	Up	iP			15	13	29
» 14	Up	iP			15	29	13
	Ki	iP			15	28	19
	Sk	iP			15	28	51
		Aleutian Islands.					
» 14	Up	iP			15	32	51C
					μ	s	
		P	z′		0.1	0.8	
	Ki	iP			15	33	33C
		i			15	34	51
					μ	s	
		P	z′		0.6	1.3	
	Sk	iP			15	33	29C
	Gb	iP			15	33	02
		Iran.					
» 14	Up	eP			16	43	34
		i			16	44	00
» 14	Up	iP			22	58	06
» 14	Up	iP			23	34	51
		ipP			23	35	14
		i			23	35	23
					μ	s	
		P	z′		0.1	0.8	
	Ki	iP			23	35	13
		iS			23	41	55
		eSS			23	45	20
					μ	s	
		S	N		0.3	8	
		M	E		0.5	20	
		M	N		0.5	18	
		M	z		0.5	20	
	Sk	iP			23	35	20
		ipP			23	35	45
	Gb	iP			23	35	07
		ipP			23	35	30
		Pakistan. h=110 km (Up, Sk, Gb).					
» 15	Up	eL			03	25	
					μ	s	
		M	E		0.6	23	
		M	N		0.6	21	
		M	z		1.2	22	
	Ki	eL			03	25	
					μ	s	
		M	E		1.1	27	

1958							
Aug 15	Ki	M	N		0.6	20	
(cont.)		M	z		0.8	21	
		New Britain.					
» 15	Ki	iP			04	30	22
		Iran.					
» 15	Up	iP			06	33	08
		ipP			06	33	53
					μ	s	
		P	z′		0.1	0.7	
	Ki	iP			06	33	11C
					μ	s	
		P	z′		0.3	1.3	
	Sk	iP			06	32	55
		ipP			06	33	41
	Gb	iP			06	32	54
		Colombia. h=180 km (Up, Sk).					
» 15	Ki	iP			09	45	17
	Sk	eP			09	46	06
» 15	Ki	iP			13	30	18
	Sk	eP			13	30	49
		Southern Alaska.					
» 15	Up	iP			16	09	20C
	Ki	eP			16	09	22
					μ	s	
		M	E		0.3	18	
		M	N		0.4	20	
	Sk	iP			16	09	41
		Western Nepal.					
» 15	Up	iP			20	06	06C
		ePa			20	10	23
		iS			20	14	26
		iP′P′			20	34	52
					μ	s	
		P	N		2.2	4	
		P	z		4.3	4	
		P	z′		0.4	0.5	
		S	E		2.6	6	
		S	N		23	30	
		M	E		73	30	
		M	N		43	24	
		M	z		49	27	
		△~7000 km~63°.					
	Ki	iP			20	05	12C
		iS			20	12	51
		i!			20	13	24
		iP′P′			20	35	14
					μ	s	
		P	N		1.7	7	
		P	z		3.1	7	
		P	z′		0.7	1.1	
		S	E		1.3	8	
		S	N		26	27	
		M	E		16	18	
		M	N		18	20	
		M	z		24	20	

1958							
Aug 15	Ki	△~6100 km~55°.					
(cont.)	Sk	iP			20	05	49C
		i			20	06	21
		iS			20	14	15
		iP′P′			20	35	06
		△~6800 km~61°.					
	Gb	iP			20	06	29C
		Near east coast of Kamchatka (h~60 km).					
		Magn.=6.8 (Up, Ki).					
» 15	Up	iP			22	42	30C
		i			22	42	46
		ePP			22	46	31
		iSKS			22	52	48
		i!			22	55	00
					μ	s	
		P	z′		0.3	1.1	
		PP	E		1.1	4	
		PP	z		1.4	4	
		SKS	E		6.6	5	
		SKS	N		1.8	5	
		M	E		53	26	
		M	N		130	27	
		M	z		41	21	
		△~10900 km~98°.					
	Ki	iP			22	42	16C
		i			22	42	30
		iPP			22	46	09
		ipPP			22	46	46
		iSKS			22	52	31
		i!			22	53	52
		isS			22	54	31
		iP′P′			23	07	44
					μ	s	
		P	z		1.6	8	
		P	z′		0.7	1.5	
		PP	E		5.4	17	
		PP	z		2.9	6	
		SKS	E		11	9	
		SKS	N		3.1	4	
		P′P′	z′		0.3	2.0	
		M	E		58	24	
		M	N		67	23	
		M	z		36	20	
		△~10450 km~94°.					
	Sk	iP			22	42	37C
		i			22	42	53
		iPP			22	46	41
		iPKKP			22	59	15
	Gb	iP			22	42	48
		i			22	42	57
		i			22	45	30
		iPP			22	46	58
		Celebes (h~200 km).					
		Magn.=6.8 (Up, Ki).					
» 16	Up	ePKP			11	33	18
					μ	s	
		M	N		0.9	21	
		M	z		1.5	21	

1958							
Aug 16	Ki	e(PP)			11	35	41
(cont.)					μ	s	
		(PP)	z		0.3	7	
		M	E		0.7	19	
		M	N		0.7	20	
		M	z		1.2	20	
	Gb	iPKP			11	33	28
		Tonga Islands region.					
» 16	Up	iP			13	28	55
		eS			13	37	58
		iP′P′			13	57	04
					μ	s	
		P	z′		0.2	0.5	
		S	N		0.3	8	
		M	E		2.4	18	
		M	N		3.6	20	
		M	z		4.4	21	
		△=7600 km=68½°.					
	Ki	iP			13	28	04
		iPcP			13	28	48
		iP′P′			13	57	30
					μ	s	
		PcP	z′		0.1	1.0	
		M	E		3.3	18	
		M	N		1.8	18	
		M	z		2.9	18	
		△=6700 km=60½°.					
	Sk	iP			13	28	36
		iPcP			13	29	09
		eP′P′			13	57	10
		△=7300 km=65½°.					
	Gb	iP			13	29	13
		Aleutian Islands.					
		Magn.=5.8 (Up, Ki).					
» 16	Up	iP			13	35	24
	Ki	iP			13	35	08
					μ	s	
		P	z′		0.1	1.0	
	Sk	iP			13	35	29
» 16	Up	iP			17	15	44
		i			17	21	43
					μ	s	
		M	E		1.0	19	
		M	N		0.5	18	
		M	z		1.7	20	
	Ki	iP			17	16	25
		eSS			17	24	33
					μ	s	
		M	E		0.5	13	
		M	N		0.5	17	
		M	z		0.9	15	
	Sk	eP			17	16	22
		Iran.					
» 16	Up	i(P)			18	05	51
		e			18	06	15
	Sk	iP			18	05	47C

1958							
Aug 16	Sk	e		18	06	58	
(cont.)	North Atlantic Ocean.						
» 16	Up	iP		19	20	14	C
		iPP		19	21	14	
		i!		19	21	26	
		iS		19	25	23	
		i		19	27	35	
				μ		s	
		P	E	1.9		6	
		P	N	1.6		6	
		P	Z	3.7		6	
		P	Z′	0.8		1.0	
		PP	Z′	0.6		1.0	
		S	E	46		28	
		S	N	32		30	
		S	Z	3.8		7	
		M	E	100		20	
		M	N	60		17	
		M	Z	140		20	
		△=3550 km=32°.					
	Ki	iP		19	20	56	C
		iPP		19	22	11	
		iS		19	26	38	
		iLi		19	31	49	
				μ		s	
		P	E	2.6		6	
		P	N	3.2		6	
		P	Z	5.0		6	
		P	Z′	2.2		1.3	
		PP	N	3.3		8	
		S	E	22		20	
		S	N	22		18	
		S	Z	6.3		7	
		M	E	96		19	
		M	N	80		20	
		M	Z	130		19	
		△=4050 km=36½°.					
	Sk	iP		19	20	52	C
	Gb	iP		19	20	25	
		iPP		19	21	29	
		△=3700 km=33½°.					
	Iran. Magn.=6.7 (Up, Ki).						
» 16	Ki	iP		19	59	55	
» 16	Ki	iP		22	22	30	
	Sk	eP		22	22	24	
	Iran.						
» 16	Up	eP		22	38	44	
	Ki	iP		22	38	31	
	Sk	eP		22	39	08	
	Philippine Islands.						
» 17	Ki	iP		03	54	53	
	Iran.						
» 17	Up	iP		03	57	28	
		iPP		03	58	28	
	Ki	iP		03	58	10	

1958							
Aug 17	Ki	e		04	07	25	
(cont.)				μ		s	
		P	Z′	0.1		1.0	
		M	E	0.4		14	
		M	N	0.6		20	
		M	Z	0.7		15	
	Sk	iP		03	58	06	
	Iran.						
» 17	Sk	e(P)		04	56	03	
	(Southwest of Iceland).						
» 17	Ki	iP		06	53	48	
	Iran.						
» 17	Up	iP		07	41	48	
	Ki	iP		07	41	03	
	Off northeast coast of Hokkaido, Japan (h ~ 240 km).						
» 17	Up	iP		09	19	41	
				μ		s	
		M	E	1.0		16	
		M	N	1.9		18	
		M	Z	2.5		18	
	Ki	iP		09	18	47	
		iPcP		09	19	31	
		iPcS		09	23	32	
		e(S)		09	27	14	
				μ		s	
		P	Z′	0.1		1.3	
		M	E	1.5		18	
		M	N	0.8		19	
		M	Z	1.8		17	
		△=6800 km=61°.					
	Sk	iP		09	19	19	
		iPcP		09	19	53	
		△=7200 km=65°.					
	Gb	eP		09	19	58	
	Aleutian Islands.						
» 17	Up	iP		11	01	47	
	Ki	iP		11	01	37	
	Sk	eP		11	01	25	
	Aleutian Islands.						
» 17	Up	iP		11	27	17	
	Ki				—		
				μ		s	
		M	E	0.5		17	
		M	N	0.4		16	
		M	Z	0.6		19	
	Aleutian Islands.						
» 17	Up	iP		11	49	44	
	Ki	iP		11	48	51	
	Aleutian Islands.						
» 17	Up	iP		12	31	24	
	Ki	iP		12	31	14	

1958							
Aug 17	Up	ePP		18	20	10	
		e		18	28	49	
		ePS		18	29	45	
		eScSP		18	30	00	
		ePPS		18	30	51	
				μ		s	
		M	E	6.6		18	
		M	N	7.2		20	
		M	Z	9.9		19	
	Ki	ePP		18	19	52	
				μ		s	
		PP	E	0.3		7	
		PP	Z	0.5		8	
		M	E	5.5		20	
		M	N	3.1		20	
		M	Z	8.9		21	
	Bismarck Sea.						
	Magn.=6.4 (Up, Ki).						
» 17	Up	iP		19	17	18	
	Ki	iP		19	16	38	
	Off northeast coast of Honshu, Japan.						
» 17	Up	iP		19	30	41	
	Ki	iP		19	30	25	
				μ		s	
		P	Z′	0.1		1.0	
	Sk	iP		19	30	46	
	Celebes Sea.						
» 17	Up	iPKP		21	31	08	D
		iPKP2		21	31	21	
		e		21	44	49	
	Ki	iPKP		21	30	48	
		i		21	31	01	
				μ		s	
		PKP	N	0.4		9	
		PKP	Z	2.4		9	
		PKP	Z′	1.6		1.8	
		M	E	0.8		21	
		M	N	0.2		18	
		M	Z	0.6		19	
	Sk	iPKP		21	30	57	
		i		21	31	04	
	Gb	iPKP		21	31	03	
		iPKP2		21	31	33	
	Kermadec Islands region.						
» 17	Up	iPKP		22	37	05	
	Ki	iPKP		22	36	25	
		i		22	36	35	
				μ		s	
		PKP	Z′	0.1		1.5	
	Sk	iPKP		22	36	39	
		i		22	36	48	
	Kermadec Islands region.						
» 18	Ki	iP		10	29	23	
	Sk	iP		10	29	10	C
	Panama-Colombia border.						

1958							
Aug 18	Ki	eP		12	40	46	
	Gb	iP		12	39	56	
» 18	Ki	eP		15	26	11	
	Sk	eP		15	26	48	
	Gb	iP		15	27	23	
	Kurile Islands.						
» 18	Up	iP		15	30	13	
		i		15	30	23	
				μ		s	
		M	N	0.5		17	
		M	Z	0.6		18	
	Ki	iP		15	29	24	
				μ		s	
		M	E	0.4		18	
		M	N	0.6		20	
		M	Z	0.8		18	
	Sk	eP		15	29	59	
	Gb	iP		15	30	35	
	Kurile Islands.						
» 18	Ki	e(P)		15	54	24	
» 18	Up	iPg		16	15	25	
		iSn		16	15	53	
		iSg		16	16	18	
		△=410 km=3.7°.					
	Sk	ePn		16	15	29	
		iSg		16	16	46	
		△=520 km=4.7°.					
	Gb	iPg		16	14	43	
		iSg		16	15	04	
		△=180 km=1.6°.					
	South coast of Norway, 59.1°N, 10.5°E. Origin time=16 14 11.						
» 18	Gb	iP		17	08	17	
		i		17	08	26	
	Local blast?						
» 18	Ki	iP		17	13	37	
» 18	Up	iP		17	50	46	
				μ		s	
		P	Z′	0.1		0.7	
» 18	Ki	iP		21	49	55	
	Sk	eP		21	50	25	
» 18 -19	Up	iP		23	59	32	
		i		00	00	01	
				μ		s	
		P	Z′	0.2		0.7	
	Ki	iP		00	00	40	D
		i		00	00	54	
				μ		s	
		P	Z′	0.1		1.0	
	Sk	iP		00	00	11	D
	Gb	iP		23	59	27	C
	Southeast of Crete.						

1958							
Aug 19	Up	eL		05	56		
				μ	s		
		M	N	0.4	22		
		M	Z	0.7	21		
		Fiji Islands region.					
» 19	Up	iP		10	30	20	
		i		10	30	45	
» 19	Ki	iP		16	02	02	
				μ	s		
		M	E	0.4	14		
		M	N	0.3	13		
		M	Z	0.5	13		
	Sk	i(P)		16	02	02	
		Iran.					
» 19	Up	iP		16	17	23	
		iPcP		16	17	47	
				μ	s		
		P	z′	0.1	0.7		
	Sk	eP		16	17	01	
	Gb	iP		16	17	42	
		Aleutian Islands.					
» 19	Up	iP		16	40	05C	
				μ	s		
		P	z′	0.1	0.5		
		M	N	0.8	22		
		M	Z	1.1	21		
	Ki	iP		16	39	12	
				μ	s		
		P	z′	0.3	1.0		
		M	E	0.5	14		
		M	N	0.5	19		
		M	Z	0.6	19		
	Sk	iP		16	39	48C	
	Gb	iP		16	40	29C	
		Near east coast of Kamchatka (h ~ 100 km).					
» 19	Up	iP		18	21	32	
	Ki	eP		18	21	03	
	Sk	eP		18	21	32	
» 19	Up	eSKS		22	13	22	
		e(PS)		22	16	42	
		e		22	17	37	
				μ	s		
		SKS	N	0.6	14		
		M	E	1.3	20		
		M	N	1.7	21		
		M	Z	2.1	20		
	Ki	ePP		22	06	36	
		iSKS		22	12	58	
		ePS		22	15	44	
		ePPS		22	16	37	
				μ	s		
		PP	Z	0.3	6		
		SKS	E	1.4	13		
		SKS	N	0.7	13		

1958							
Aug 19 (cont.)	Ki	M	E	2.2	21		
		M	N	1.3	19		
		M	Z	3.2	23		
	Sk	ePP		22	07	17	
		New Ireland Island.					
» 20	Up	iP		01	54	02	
	Ki	iP		01	54	40	
» 20	Up	e(PKP)		03	59	27	
		ePP		04	01	15	
		iPKS		04	02	36	
				μ	s		
		PP	N	0.9	13		
		PP	Z	0.8	10		
		PKS	N	0.6	7		
		M	E	2.6	20		
		M	N	2.5	19		
		M	Z	4.4	18		
	Ki	iPKP		03	59	03	
		i		03	59	13	
		ePP		04	00	37	
		e		04	01	24	
				μ	s		
		PP	Z	0.5	12		
		M	E	2.1	18		
		M	N	1.7	18		
		M	Z	2.4	20		
	Sk	iPKP		03	59	15	
	Gb	iPKS		04	02	56	
		New Hebrides Islands. Magn. = 6.2 (Up, Ki).					
» 20	Ki	iP		06	04	55	
		i		06	05	15	
		South of Crete.					
» 20	Up	iP		06	31	10	
	Sk	eP		06	31	15	
		Outer Mongolia.					
» 20	Sk	iP		08	48	11C	
		i		08	48	36	
		Local?					
» 20	Up	iP		08	57	58	
				μ	s		
		P	z′	0.1	1.0		
		M	E	2.4	18		
		M	N	1.6	18		
		M	Z	3.7	18		
	Ki	iP		08	57	33C	
		e(S)		09	07	09	
				μ	s		
		M	E	1.0	14		
		M	N	1.0	15		
		M	Z	1.6	16		
	Sk	iP		08	58	01	
		Near east coast of Formosa.					

1958							
Aug 20	Up	iP		09	30	40	
				μ	s		
		P	z′	0.1	1.0		
	Ki	iP		09	29	47	
		Kamchatka.					
» 20	Up	iP		17	56	30	
	Ki	iP		17	55	57	
» 20	Up	iP		22	33	00	
				μ	s		
		M	N	0.3	10		
	Ki	ePP		22	34	40	
				μ	s		
		M	E	0.4	11		
		M	N	0.4	10		
		M	Z	0.3	10		
	Sk	ePP		22	35	06	
		Hindu Kush (h ~ 250 km).					
» 21	Up	iPKP		01	28	31	
	Ki	iPKP		01	28	30	
		ePKS		01	31	50	
				μ	s		
		PKS	E	0.3	6		
		M	E	0.6	18		
		M	N	0.7	20		
		M	Z	1.0	20		
	Gb	iPKP		01	28	41	
		Tonga Islands region.					
» 21	Ki	iPKP		04	22	49	
		e		04	26	39	
	Gb	iPKP		04	23	14	
		Tonga Islands region.					
» 21	Up	iP		10	38	26D	
» 21	Up	iP		12	06	04	
				μ	s		
		P	z′	0.1	0.8		
	Ki	iP		12	05	33	
		i		12	14	30	
	Sk	iP		12	06	00	
		Bonin Islands region (h ~ 400 km).					
» 21	Up	iP		12	29	58	
	Ki	iP		12	29	04C	
				μ	s		
		P	z′	0.1	1.0		
		M	E	0.4	16		
		M	N	0.3	16		
		M	Z	0.5	16		
	Sk	iP		12	29	35	
	Gb	iP		12	30	12	
		Aleutian Islands.					
» 21	Up	iP		12	57	55	
» 21	Up	iPKP		21	17	56	
		iPP		21	20	50	

1958							
Aug 21 (cont.)	Up	iSKP		21	21	21	
		iPKS		21	21	38	
		epPKS		21	22	36	
				μ	s		
		M	E	0.8	20		
		M	N	1.0	22		
	Ki	iPKP		21	17	42	
		i		21	17	51	
		e		21	19	51	
		ePP		21	20	00	
		iSKP		21	20	55	
		iPKS		21	21	12	
				μ	s		
		PKP	z′	0.2	1.3		
		M	E	1.4	21		
		M	N	0.6	19		
		M	Z	0.9	19		
	Sk	iPKP		21	17	52	
		i		21	18	01	
		iSKP		21	21	13	
	Gb	iPKP		21	18	01	
		i		21	18	10	
		Fiji Islands region (h ~ 250 km).					
» 22	Up	iPKS		10	19	02	
	Ki	iPKP		10	15	30	
		iPKS		10	18	45	
	Sk	iPKP		10	15	40	
		iPKS		10	18	54	
		New Hebrides Islands (h ~ 100 km).					
» 22	Up	i(Pn)		12	52	40	
		i(Sn)		12	53	36	
		i		12	53	58	
		i(Sg)		12	54	06	
	Ki	e(Sg)		12	57	50	
	Sk	iP		12	52	50	
		i		12	55	51	
	Gb	iP		12	51	28C	
		i		12	51	40	
		i		12	52	35	
		Complicated, local shock(s).					
» 22	Up	iP		19	37	28	
	Ki	iP		19	36	37D	
	Sk	iP		19	37	09	
		Aleutian Islands.					
» 22	Up	iP		20	44	46	
	Ki	iP		20	43	53	
	Sk	iP		20	44	24	
		Aleutian Islands.					
» 22	Ki	ePP		22	35	32	
	Sk	iPP		22	36	14	
		New Britain region (h ~ 250 km).					
» 22	Ki	iPKP		23	37	49	
		iPP		23	40	03	

1958								
Aug 22	Sk	iPKP			23	37	47	
(cont.)	Pacific Ocean.							
» 23	Ki	iP			13	31	31	
		i			13	31	40	
		i			13	31	44	
	Local blast?							
» 23	Ki	iP			20	39	26	
	Sk	iP			20	39	41	
» 23	Ki	eP			22	07	02	
					μ	s		
		M	E		0.4	17		
		M	N		0.3	17		
	Aleutian Islands.							
» 24	Ki	iP			02	25	27	
» 24	Up	eP			08	09	05	
	Ki	iP			08	09	46	
					μ	s		
		M	E		0.4	14		
		M	N		0.4	13		
		M	z		0.7	12		
	Sk	eP			08	09	40	
	Iran.							
» 24	Ki	iP			16	37	22	
	Aleutian Islands.							
» 24	Up	iP			17	06	44	
		iPcP			17	07	17	
		iS			17	16	56	
					μ	s		
		P	z′		0.1	0.9		
	Ki	iP			17	06	28 C	
		iPcP			17	07	09	
					μ	s		
		P	z′		0.1	1.0		
	Sk	iP			17	06	50	
		iPcP			17	07	22	
	Near coast of Luzon, Philippine Islands (h ~ 150 km).							
» 24	Ki	eL			21	02		
					μ	s		
		M	E		0.3	10		
		M	N		0.3	8		
		M	z		0.3	10		
» 25	Ki	i(Sg)			02	28	21	
	Sk	e			02	28	22	
		i(Sg)			02	28	37	
	Local.							
» 25	Ki	iP			04	11	57	
					μ	s		
		P	z′		0.1	1.0		
	Sk	eP			04	11	52	
	Iran.							

1958								
Aug 25	Sk	eP			09	35	56	
» 26	Up	iP			05	12	00	
					μ	s		
		M	N		0.3	16		
	Ki	iP			05	11	21 C	
					μ	s		
		M	E		0.4	15		
		M	N		0.2	13		
		M	z		0.6	15		
	Sk	iP			05	11	54 C	
	Near east coast of Honshu, Japan.							
» 26	Ki	iPKP			12	39	39	
	Sk	iPKP			12	39	49	
	New Hebrides Islands.							
» 26	Up	iPKP			13	04	13	
					μ	s		
		M	E		0.8	20		
		M	N		1.0	22		
		M	z		1.6	22		
	Ki	iPKP			13	03	59	
					μ	s		
		M	E		0.8	19		
		M	N		0.5	19		
		M	z		1.1	21		
	Sk	iPKP			13	04	10	
		i			13	04	22	
	New Hebrides Islands.							
» 26	Ki	iP			14	53	40	
	Near west coast of Java.							
» 26	Up	i			17	21	17	
		i(Sg)			17	21	23	
	Sk	i(Sg)			17	22	17	
	Local?							
» 26	Up					—		
					μ	s		
		M	E		0.8	20		
		M	N		0.8	18		
		M	z		1.2	23		
	Ki	iPKP			18	14	31	
		i			18	14	35	
					μ	s		
		PKP	z′		0.1	1.1		
		M	E		0.7	18		
		M	N		0.4	20		
		M	z		1.0	20		
	Sk	iPKP			18	14	42	
		i			18	14	46	
	Gb	iPKS			18	18	19	
		i			18	18	28	
	New Hebrides Islands.							
» 26	Up	iP			21	51	14	
	Sk	iP			21	51	56	
	Near east coast of Greece.							

1958								
Aug 26	Ki	iPKP			23	42	15	
	Sk	iPKP			23	42	26	
	New Hebrides Islands.							
» 26	Up	iPKS			23	54	09	
		i			23	54	19	
		i			23	54	23	
					μ	s		
		M	E		1.2	22		
		M	N		1.6	22		
		M	z		1.7	20		
	Ki	iPKP			23	50	34	
					μ	s		
		M	E		1.0	21		
		M	N		0.6	21		
		M	z		1.6	21		
	Sk	iPKP			23	50	47	
	Gb	ePKS			23	54	25	
		i			23	54	42	
	New Hebrides Islands.							
» 27	Ki	ePKP			00	04	02	
	New Hebrides Islands.							
» 27	Up	i(PS)			02	54	02	
					μ	s		
		M	E		1.1	21		
		M	N		0.5	18		
		M	z		1.2	22		
	Ki					—		
					μ	s		
		M	E		2.5	23		
		M	N		0.6	18		
		M	z		1.9	23		
	Southwest of Galapagos Islands.							
» 27	Ki	eP			05	52	28	
	Seismic?							
» 27	Up	iP			13	19	32 C	
		iPcP			13	20	08	
					μ	s		
		P	z′		0.1	0.5		
	△ = 7050 km = 63½°.							
	Ki	iP			13	18	38	
		iPcP			13	19	38	
					μ	s		
		P	z′		0.1	1.5		
	△ = 6150 km = 55½°.							
	Sk	iP			13	19	15	
		iPcP			13	19	59	
	△ = 6700 km = 60½°.							
	Kamchatka.							
» 27	Up	iP			15	21	33 D	
		iS			15	25	35	
					μ	s		
		P	E		1.5	3		
		P	N		5.0	3		
		P	z		6.3	3		

1958								
Aug 27	Up	P	z′		0.7	0.5		
(cont.)		S	E		28	12		
		S	N		22	11		
		M	E		39	13		
		M	N		130	13		
		M	z		170	13		
	△ = 2500 km = 22½°.							
	Ki	iP			15	22	46 D	
		iS			15	27	48	
		iLg1			15	32	52	
		iRg			15	35	32	
					μ	s		
		P	N		1.1	7		
		P	z		1.4	7		
		P	z′		0.6	1.0		
		S	E		3.0	12		
		S	N		4.9	14		
		M	E		75	18		
		M	N		59	14		
		M	z		99	15		
	△ = 3400 km = 30½°.							
	Sk	iP			15	22	12 D	
	Gb	iP			15	21	13 D	
	Near west coast of Greece.							
	Magn. = 6.5 (Up, Ki).							
» 27	Up	iP			16	07	33	
		i			16	07	39	
	Sk	iP			16	08	12	
	Near west coast of Greece.							
» 27	Up	iP			17	12	18 C	
		i			17	12	24	
	Sk	iP			17	12	57	
	Near west coast of Greece.							
» 27	Up	iP			18	54	15	
	Sk	epP			18	55	29	
	Okhotsk Sea (h ~ 320 km).							
» 28	Up	iP			04	17	23	
	Ki	iP			04	16	45	
	Sk	iP			04	17	18	
	Central Honshu, Japan.							
» 28	Sk	eP			08	00	09	
	Near coast of Guatemala.							
» 28	Sk	iP			10	27	12	
» 28	Gb	i(P)			13	58	32	
	Local?							
» 28	Up	iP			16	18	13	
» 28	Sk	iP			16	39	53	
	Near east coast of Greece.							
» 28	Sk	iP			17	33	07	
	Venezuela-Colombia border region.							

1958							
Aug	28	Up	iP		18	26	48
		Ki	iP		18	25	55
					μ	s	
			P	z′	0.1	0.8	
		Sk	iP		18	26	25
			iPcP		18	26	59
		Gb	iP		18	27	05
		Aleutian Islands.					
»	28	Up	iSn		23	14	55
			i		23	15	27
			iSg		23	15	31
			△ ~ 690 km ~ 6.2°.				
		Ki	iPg		23	12	42
			iSg		23	13	05
					μ	s	
			Sg	z′	0.4	0.5	
			△ = 200 km = 1.8°.				
		Sk	eP*		23	13	21
			iSg		23	14	31
			△ = 490 km = 4.4°.				
		Västerbotten, Sweden, 66.1°N, 21.0°E. Origin time = 23 12 05. Felt.					
»	29	Up	i(P)		11	10	57
		Local? Seismic?					
»	29	Up				—	
					μ	s	
			M	E	0.8	20	
			M	N	1.0	19	
			M	Z	1.9	22	
		Ki	ePKP		12	43	20
					μ	s	
			M	E	0.7	17	
			M	N	0.7	18	
			M	Z	1.6	21	
		Sk	iPKP		12	43	33
		New Hebrides Islands.					
»	29	Ki	iPKP		13	10	54
		Sk	iPKP		13	11	04
		New Hebrides Islands.					
»	29	Up	iSn		15	18	45
			i		15	18	54
			iS*		15	19	18
			iSg		15	19	36
					μ	s	
			Sg	z′	0.1	0.5	
			△ = 910 km = 8.2°.				
		Ki	ePn		15	18	08
			e(S*)		15	20	50
			△ = 1300 km = 11.7°.				
		Sk	iPn		15	16	57
			i		15	18	18
			i		15	18	34
			iSg		15	18	46
			△ = 720 km = 6.5°.				
		Gb	eP*		15	16	51

1958							
Aug	29	Gb	eSg		15	18	22
(cont.)			△ = 640 km = 5.8°.				
		North Sea, 59.7°N, 1.6°E.					
		Origin time = 15 15 09.					
»	29	Up	iP		16	49	30
		Ki	e(P)		16	50	22
»	29	Up	iP		17	36	08
»	29	Up	iP		18	26	20
»	29	Up	iP		18	30	41
		Ki	iP		18	30	33
»	30	Up	iP		07	40	43
			iS		07	44	46
			△ = 2500 km = 22½°.				
		Ki	iP		07	41	56
					μ	s	
			M	E	0.5	11	
			M	N	0.9	12	
			M	Z	1.3	12	
		Sk	iP		07	41	22
		Gb	iP		07	40	28
		Ionian Sea.					
»	30	Up	iP		13	53	31
		Ki	iP		13	52	47
		Sk	iP		13	53	10
»	30	Up	iP		14	02	33
»	30	Up	iP		18	50	50
			i		18	51	11
					μ	s	
			M	E	2.2	19	
			M	N	1.5	17	
			M	Z	2.0	19	
		Ki	iP		18	50	26
					μ	s	
			M	E	2.4	20	
			M	N	2.1	20	
			M	Z	4.3	20	
		Sk	iP		18	50	30
		Gb	eP		18	50	43
		Gulf of California.					
»	30	Up	iP		23	40	14
		Ki	iP		23	39	21
		Sk	iP		23	39	57
		Gb	iP		23	40	35
		Southeast coast of Kamchatka.					
»	31	Up	iP		02	07	48
		Ki	iP		02	06	56
		Off southeast coast of Kamchatka.					
»	31	Up	iP		02	08	30
		Ki	iP		02	07	37

1958							
Aug	31	Off southeast coast of Kamchatka.					
(cont.)							
»	31	Up	iP		02	49	04
		Ki	iP		02	48	23C
		Sk	iP		02	48	57
		Sea of Japan.					
»	31	Ki	eP		03	22	27
			e		03	23	26
		Sk	eP		03	23	29
»	31	Ki	iP		03	28	39
		Off southeast coast of Kamchatka.					
»	31	Ki	eP		06	47	30
		Off southeast coast of Kamchatka.					
»	31	Up	iP		09	26	22 D
			i(PP)		09	28	09
		Ki	iP		09	26	46
			i		09	27	10
		Sk	iP		09	26	53
			i		09	27	16
		Gb	iP		09	26	39
		Pakistan-Iran border.					
»	31	Up	iP		15	34	26
		Ki	iP		15	33	29C
		Sk	iP		15	33	56
		Gb	eP		15	34	35
		Central Alaska.					
»	31	Up	iP		20	20	15
			i		20	21	21
		Ki	eP		20	19	24
			i		20	20	29
»	31	Up	iP		23	09	59C
			iS		23	17	49
			iScS		23	19	47
					μ	s	
			P	N	0.3	3	
			P	Z	0.7	3	
			P	z′	0.2	1.5	
			S	E	1.2	8	
			S	N	1.2	10	
			M	E	1.1	21	
			M	N	1.3	20	
			M	Z	1.4	20	
			△ = 6200 km = 56°.				
		Ki	iP		23	09	02C
			iS		23	16	06
			eSa		23	19	59
					μ	s	
			P	N	0.8	5	
			P	Z	1.1	5	
			P	z′	0.4	1.3	
			S	E	2.2	8	

1958							
Aug	31	Ki	S	N	1.1	8	
(cont.)			S	Z	1.0	9	
			M	E	1.5	20	
			M	N	1.9	21	
			M	Z	4.9	24	
			△ = 5450 km = 49°.				
		Sk	iP		23	09	29C
		Gb	iP		23	10	10C
		Central Alaska.					
		Magn. = 6.2 (Up, Ki).					
»	31	Up	ePKP		23	46	39
		Ki	ePKP		23	46	36
		Gb	iPKP		23	46	51
		Tonga Islands region.					
Sep	1	Up	iPKP		01	16	43
					μ	s	
			M	N	0.7	19	
		Ki				—	
					μ	s	
			M	E	0.5	19	
			M	N	0.6	20	
			M	Z	0.7	20	
		Gb	iPKP		01	16	54
		Tonga Islands region.					
»	1	Ki	iP		03	28	45
		Sk	iP		03	29	12
»	1	Up	iP		08	45	03
			iPP		08	46	51
		Ki	iP		08	45	29
		Sk	iP		08	45	35
			i		08	45	58
		Gb	iP		08	45	19
		Western Baluchistan.					
»	1	Sk	eP		14	25	41
»	1	Up	iP		15	30	33
		Ki	iP		15	29	51
		Off southeast coast of Hokkaido, Japan.					
»	1	Up	iP		15	40	01
			ipP		15	41	28
					μ	s	
			P	z′	0.1	0.6	
		Ki	iP		15	39	24 D
			ipP		15	40	49
			iS		15	47	29
					μ	s	
			S	N	0.4	7	
			M	E	0.4	15	
			M	N	0.3	14	
		Sk	iP		15	39	57 D
			i		15	43	54
		Gb	iP		15	40	19
		Sea of Japan. h = 340 km (Up, Ki).					

1958								
Sep	1	Gb	iP			18	48	26
»	2	Up	iP			01	18	21
			i			01	18	28
			i			01	18	42
			iS			01	22	26
						μ	s	
			P	z′		0.1	0.5	
			S	N		1.7	10	
			M	E		3.4	12	
			M	N		8.9	12	
			M	z		12	12	
			△=2500 km=22½°.					
		Ki	iP			01	19	35
			eS			01	24	37
			eRg			01	32	28
						μ	s	
			S	N		0.5	13	
			M	E		3.3	12	
			M	N		4.6	10	
			M	z		5.7	12	
			△=3400 km=30°.					
		Sk	iP			01	19	01
			i			01	19	15
		Gb	iP			01	18	08
			i			01	18	17
		Ionian Sea.						
		Magn.=5.3 (Up, Ki).						
»	2	Up	iP			01	34	04
		Sk	iP			01	34	43
		(Ionian Sea).						
»	2	Up	iP			02	11	04
		Ki	iP			02	12	17
		Sk	iP			02	11	43
		(Ionian Sea).						
»	2	Up	iP			03	13	34 D
			iS			03	18	03
						μ	s	
			P	z′		0.1	0.5	
			S	E		0.3	5	
			S	N		0.4	5	
			M	E		0.9	14	
			M	N		0.8	17	
			M	z		0.9	18	
			△=2700 km=24½°.					
		Ki	iP			03	14	43
						μ	s	
			M	E		0.6	15	
			M	N		0.3	14	
			M	z		0.5	14	
		Sk	iP			03	14	12
		Gb	eP			03	13	24
		West of Crete.						
»	2	Up	iP			04	49	54
		Ki	eP			04	51	07
		Sk	iP			04	50	33
		Ionian Sea.						

1958								
Sep	2	Up	eP			12	50	15
		Ki	iP			12	50	55
		Sk	eP			12	51	18
			i			12	51	46
		Caucasus.						
»	2	Ki	iPKP			14	44	05
		Sk	iPKP			14	44	15
		Gb	iPKP			14	44	21
		Near north coast of New Guinea.						
»	2	Sk	eP			15	34	07
»	2	Sk	eP			19	53	28
		Near coast of El Salvador (h ~ 100 km).						
»	2	Up	iP			20	19	49
			eS			20	30	20
						μ	s	
			S	E		0.4	11	
			S	N		0.2	11	
			M	E		1.4	21	
			M	N		0.9	21	
			M	z		1.8	21	
			△=9600 km=86½°.					
		Ki	iP			20	19	38
			e(ScS)			20	30	13
						μ	s	
			P	z		0.4	7	
			M	E		2.6	20	
			M	N		1.1	20	
			M	z		3.7	21	
		Sk	iP			20	19	31 C
		Gb	iP			20	19	32
		Near coast of Oaxaca, Mexico.						
		Magn.=5.7 (Up, Ki).						
»	2	Up	iPKP			22	30	28 C
		Ki	iPKP			22	30	09
		Sk	iPKP			22	30	24
		New Zealand (h ~ 350 km).						
»	3	Up	iP			01	40	40
			i			01	48	06
						μ	s	
			M	E		1.6	18	
			M	N		1.1	15	
			M	z		1.4	16	
		Ki	iP			01	41	21
			eS			01	46	49
			e			01	49	35
						μ	s	
			P	z′		0.1	1.0	
			M	E		0.9	13	
			M	N		0.8	16	
			M	z		1.6	16	
		Sk	iP			01	41	17
		Gb	iP			01	40	43
		Iran.						

1958								
Sep	3	Up	iP			01	47	45
		Ki	iP			01	47	48
»	3	Sk	iP			02	05	35
»	3	Up	eP			03	03	38
			eL(3.22)			03	11	32
						μ	s	
			M	E		0.8	13	
			M	N		0.8	13	
			M	z		0.9	13	
		Ki	iP			03	04	48
			eLg1			03	13	50
						μ	s	
			M	E		0.4	10	
			M	N		0.3	12	
		Sk	iP			03	04	20
		Gb	iP			03	03	33
		Southwest Turkey.						
»	3	Up	iP			03	55	11 C
			iS			04	03	57
						μ	s	
			P	z		1.0	5	
			P	z′		0.2	1.0	
			S	E		2.8	11	
			S	N		2.6	12	
			M	E		7.9	20	
			M	N		9.0	20	
			M	z		8.7	20	
			△=7350 km=66°.					
		Ki	iP			03	55	55
			iS			04	05	22
			iScS			04	06	06
						μ	s	
			P	z′		0.4	1.4	
			S	E		2.8	10	
			S	N		2.8	10	
			M	E		5.9	20	
			M	N		5.8	18	
			△=8100 km=73°.					
		Sk	iP			03	55	21
		Gb	iP			03	54	50
			iPP			03	56	57
		Atlantic Ocean.						
		Magn.=6.3 (Up, Ki).						
»	3	Ki	eP			04	30	37
		Sk	iP			04	30	30
		Near coast of Guatemala.						
»	3	Up	iP			08	21	37 C
			iPP			08	24	12
			iS			08	30	44
						μ	s	
			P	z		0.6	3	
			P	z′		0.6	1.7	
			PP	z′		0.2	1.5	
			S	E		0.5	7	
			S	N		0.4	7	
			M	E		5.0	19	

1958								
Sep	3	Up	M	N		4.5	20	
(cont.)			M	z		6.3	20	
			△=7800 km=70°.					
		Ki	iP			08	20	55 C
			iPP			08	23	10
			iS			08	29	27
						μ	s	
			P	z′		0.6	2.0	
			PP	z′		0.4	2.1	
			S	E		0.7	6	
			S	N		0.6	8	
			M	E		10	18	
			M	N		6.2	18	
			△=7050 km=63½°.					
		Sk	iP			08	21	29 C
		Gb	iP			08	21	58 C
			iPP			08	24	43
			△=8100 km=73°.					
		Off northeast coast of Honshu, Japan (h ~ 60 km).						
		Magn.=6.2 (Up, Ki).						
»	3	Gb	i(Sg)			08	56	39
		Local? Seismic?						
»	3	Up	iP			16	13	50 C
»	4	Up	iP			00	08	10
			i			00	08	13
			eS			00	12	25
						μ	s	
			P	N		0.2	3	
			P	z		0.3	3	
			S	E		0.5	6	
			S	N		1.6	9	
			M	E		1.7	15	
			M	N		3.3	11	
			M	z		3.4	11	
			△=2650 km=24°.					
		Ki	iP			00	09	18 C
			i			00	09	20
			iS			00	14	27
			eLg1			00	19	34
						μ	s	
			P	z′		0.1	1.0	
			S	E		0.4	5	
			M	E		1.3	11	
			M	N		0.9	15	
			△=3500 km=31½°.					
		Sk	iP			00	08	50
		Gb	iP			00	08	04 D
		Dodecanese Islands.						
		Magn.=5.4 (Up, Ki).						
»	4	Up	iP			02	56	10
			eS			03	00	19
						μ	s	
			M	E		0.5	12	
			M	N		0.5	12	
			M	z		0.6	12	
		Ki	eP			02	57	17

1958								
Sep	4	Ki					μ	s
(cont.)			M	E			0.4	11
			M	N			0.3	10
		Sk	eP			02	56	50
			i			02	56	53
		Gb	eP			02	56	02
		Dodecanese Islands.						
»	4	Up	eP			03	52	06
			i			03	52	12
		Ki					—	
							μ	s
			M	E			0.2	10
			M	N			0.1	12
		Sk	eP			03	52	45
		Gb	eP			03	51	52
		Greece.						
»	4	Up	iP			07	09	55 D
			i			07	10	09
							μ	s
			P	z′			0.1	1.0
		Ki	iP			07	09	01
		Sk	iP			07	09	34
		Gb	iP			07	10	09
		Aleutian Islands.						
»	4	Up	iPP			22	11	10
			e			22	19	05
			ePKKP			22	20	25
			iPKKP			22	20	30
			ePS			22	20	53
			e			22	21	04
			i			22	21	39
			ePPS			22	22	11
			ePcPPKP			22	24	21
							μ	s
			PP	z			0.7	7
			PP	z′			0.1	1.5
			M	E			25	19
			M	N			11	20
			M	z			34	19
			△ ~ 13000 km ~ 117°.					
		Ki	iPKP			22	10	07
			i			22	11	18
			iPP			22	11	39
			e			22	15	39
			i			22	19	39
			ePKKP			22	20	08
			eSKSP			22	21	29
							μ	s
			PP	E			0.9	7
			PP	N			0.3	7
			PP	z			1.5	7
			PP	z′			0.4	2.0
			SKSP	E			2.2	13
			M	E			18	21
			M	N			7.5	18
			M	z			14	21
			△ ~ 13450 km ~ 121°.					
		Sk	ePKP			22	10	07

1958							
Sep	4	Sk	i		22	12	19
(cont.)			e		22	25	05
			△ ~ 13100 km ~ 118°.				
		Gb	ePKP		22	09	53
			i		22	12	00
			i		22	14	48
			ePKKP		22	20	43
			ePcPPKP		22	24	40
			△ ~ 12800 km ~ 115°.				
		Chile-Argentina border.					
		Magn. = 6.8 (Up, Ki).					
»	4	Ki	e		23	35	11
			i		23	35	33
			i		23	36	06
		Sk	e		23	35	21
»	5	Up	iP		07	14	16
		Sk	iP		07	14	55
		Gb	eP		07	14	08
		Greece.					
»	5	Up	i(Sg)		10	53	52
		Local?					
»	5	Ki	iP		13	15	03 D
		Sk	e(P)		13	15	28
		Near west coast of Sumatra.					
»	5	Up	iP		13	21	12
			e		13	26	12
						μ	s
			M	N		0.9	21
		Ki	iP		13	21	12
			i		13	21	21
						μ	s
			P	z′		0.1	1.0
		Sk	iP		13	21	25
		Near west coast of Sumatra.					
»	5	Gb	i(Sg)		14	03	41
		Local? Seismic?					
»	5	Ki	iP		14	27	26
			i		14	27	43
		Near west coast of Sumatra.					
»	5	Up	iP		14	50	17
»	5	Gb	i(Sg)		14	54	15
		Local? Seismic?					
»	5	Up	iP		15	33	46
		Sk	iP		15	34	06
»	7	Up	iP		03	23	29 D
			i		03	24	32
		Ki	iP		03	24	13
		Sk	iP		03	24	08
		Gb	e(P)		03	23	42

1958								
Sep	7	Up	eL			05	34	
							μ	s
			M	N			0.7	19
		Ki	eL			05	38	
							μ	s
			M	E			0.5	20
			M	z			0.5	20
		Solomon Islands.						
»	7	Up	iP			10	18	55
		Ki	iP			10	18	28
		Sk	iP			10	18	57
		Gb	iP			10	19	15
		Ryukyu Islands.						
»	8	Up	iP			05	36	06 C
			iS			05	44	36
							μ	s
			P	z			1.4	3
			P	z′			0.3	0.5
			S	N			0.5	3
			M	E			7.1	24
			M	N			4.4	24
			M	z			5.7	23
			△ = 7050 km = 63½°.					
		Ki	iP			05	35	13
							μ	s
			P	z′			0.2	1.2
			M	E			5.4	24
			M	N			4.7	25
		Sk	iP			05	35	50 C
			i			05	36	05
		Gb	iP			05	36	31 C
		Near east coast of Kamchatka.						
		Magn. = 6.4 (Up, Ki).						
»	8	Up	iP			15	04	34 D
							μ	s
			P	z′			0.1	0.7
		Ki	iP			15	04	00
		Sk	iP			15	04	33
		Northern Kyushu, Japan						
		(h ~ 60 km).						
»	9	Ki	iP			04	22	22
		Java Sea.						
»	9	Up	iP			11	43	05 C
							μ	s
			P	z′			0.1	0.7
			M	E			0.5	20
			M	N			0.6	21
			M	z			1.2	23
		Ki	iP			11	42	17
							μ	s
			P	z′			0.2	0.9
			M	E			0.7	20
			M	N			0.9	18
			M	z			1.7	20
		Sk	iP			11	42	54
		Gb	iP			11	43	26 C
		Kurile Islands.						

1958								
Sep	9	Up	iP			22	34	15 C
							μ	s
			P	z′			0.1	1.0
			M	E			0.9	18
			M	N			0.8	18
			M	z			1.0	20
		Ki	iP			22	33	21 C
			eS			22	41	12
							μ	s
			S	E			0.3	11
			S	N			0.3	8
			M	E			1.2	17
			M	N			0.7	17
			M	z			0.9	17
			△ = 6300 km = 56½°.					
		Sk	iP			22	33	57
		Gb	iP			22	34	38
		Aleutian Islands.						
»	10	Up	iP			03	56	08
							μ	s
			M	N			0.5	18
		Ki	iP			03	56	50
		Sk	iP			03	56	47
		Iran.						
»	10	Ki	eP			21	15	28
			i			21	15	33
		Local blast?						
»	11	Up	iP			07	08	54
							μ	s
			P	z′			0.1	0.6
		Ki	iP			07	08	35
		Sk	iP			07	09	06
»	11	Up	iP			18	15	02
							μ	s
			M	E			2.5	21
			M	N			1.6	20
			M	z			3.3	21
		Ki	iP			18	14	42
			i			18	14	54
			i			18	15	09
			eS			18	25	39
							μ	s
			P	z′			0.2	1.0
			S	N			0.5	11
			M	E			3.6	18
			M	N			2.3	18
			M	z			3.9	18
		Sk	iP			18	15	06
		Gb	eP			18	15	27
		Near east coast of Mindanao.						
		Magn. = 6.0 (Up, Ki).						
»	12	Up	eL			06	33	
							μ	s
			M	N			0.6	17
			M	z			1.0	19

1958						
Sep 12	Ki	eL		06	33	
(cont.)				μ	s	
		M	E	0.8	19	
		M	N	0.6	19	
		M	z	0.8	18	
	Indian Ocean.					
» 12	Up	iP		13	59	05
	Ki	iP		13	59	02
	Java.					
» 13	Up	iP		04	44	42
		e		04	50	47
	Ki	iP		04	44	31
		e		04	47	59
	Sk	eP		04	45	02
		i		04	51	01
	Gb	e(P)		04	45	27
		e		04	52	55
		i		04	53	34
	(Arctic Ocean).					
» 14	Up	iP		14	30	26
		i		14	30	31
		iPP		14	32	26
		iS		14	37	33
		iSS		14	41	05
		iLg1		14	48	03
				μ	s	
		P	z′	0.2	0.7	
		PP	z	1.6	4	
		S	N	1.8	6	
		M	E	24	18	
		M	N	14	14	
		M	z	7.2	15	
		△ = 5500 km = 49½°.				
	Ki	iP		14	29	39
		iPP		14	31	14
		iPcP		14	31	32
		iS		14	36	06
		i(SS)		14	39	22
		iScS		14	39	32
		i		14	40	47
				μ	s	
		P	z′	0.9	1.5	
		PP	z′	2.3	2.5	
		S	E	5.5	12	
		M	E	16	17	
		M	N	20	10	
		M	z	10	11	
		△ = 4850 km = 43½°.				
	Sk	iP		14	30	21 D
		iPP		14	32	12
		△ = 5400 km = 48½°.				
	Gb	iP		14	30	58
	Siberia. Magn. = 6.4 (Up, Ki).					
» 14	Up	iP		19	53	56
				μ	s	
		P	z′	0.1	1.0	
	Sk	eP		19	53	55

1958						
Sep 14	Gb	iP		19	54	18 D
(cont.)	Off east coast of Kyushu, Japan.					
» 14	Up	iP		21	43	53
		i		21	43	58
				μ	s	
		P	z′	0.3	0.8	
	Ki	iP		21	44	17
		i		21	44	23
				μ	s	
		P	z′	0.8	2.0	
	Sk	iP		21	44	17
	Gb	iP		21	43	59
		i		21	44	24
		iPP		21	46	56
	Chagos Islands.					
» 14	Up	eP		21	56	11
		i		21	56	19
» 15	Up	iPKP		17	08	02 C
				μ	s	
		PKP	z′	0.2	0.7	
	Ki	iPKP		17	07	45
	Sk	iPKP		17	07	57
	Gb	iPKP1		17	08	08
		iPKP2		17	08	29
	Kermadec Islands region.					
» 15	Up	iSg		17	30	53
	△ = 320 km = 2.9°.					
	Ki	eSn		17	32	51
		eSg		17	33	43
	△ = 900 km = 8.1°.					
	Sk	iSg		17	32	49
	△ = 710 km = 6.4°.					
	Southwest Finland, 59.9°N, 23.2°E.					
	Origin time = 17 29 16.					
» 15	Sk	iPKP		18	29	59
	Gb	iPKP		18	30	16
	South Pacific Ocean.					
» 15	Up	iP		19	12	08
	Ki	iP		19	11	18
	Sk	iP		19	11	54
	Near west coast of Kamchatka.					
» 15	Up	iP		19	57	59 C
		iSKS		20	07	28
		iS		20	08	09
				μ	s	
		P	z′	0.2	0.9	
		SKS	E	2.1	2	
		SKS	N	0.7	2	
		SKS	z′	0.5	1.5	
		S	E	1.7	6	
		S	N	1.6	4	
		M	E	2.6	20	

1958						
Sep 15	Up	M	N	4.0	18	
(cont.)		M	z	4.0	19	
	△ ~ 10550 km ~ 95°.					
	Ki	iP		19	57	46 C
		iSKS		20	07	14
		iS		20	07	41
		i		20	12	02
		iPKKP		20	15	03
				μ	s	
		P	z′	0.8	1.3	
		SKS	E	3.0	8	
		S	N	3.1	14	
		PKKP	z′	0.1	1.0	
		M	E	4.1	19	
		M	N	3.3	18	
		M	z	5.3	17	
	△ ~ 10100 km ~ 91°.					
	Sk	iP		19	58	05 C
		iPP		20	02	12
		iSKS		20	07	40
		iPKKP		20	14	52
	Gb	iP		19	58	08 C
	Celebes Sea (h ~ 600 km).					
	Magn. = 6.3 (Up, Ki).					
» 15	Up	iP		20	27	37
		i		20	27	41
				μ	s	
		P	z′	0.1	0.7	
» 15	Up	iP		23	01	18 C
» 16	Up	iP		00	31	45
» 16	Up	eP		04	01	54
	Ki	iP		04	00	58
	Sk	eP		04	01	43
	Gb	eP		04	02	18
	Eastern Siberia.					
» 16	Up	iP		07	35	10
	Ki	iP		07	34	54
				μ	s	
		P	z′	0.1	0.9	
	Panay, Philippine Islands.					
» 16	Sk	e		10	44	06
		i(Sg)		10	44	13
	Local?					
» 16	Up	iP		14	29	46
				μ	s	
		M	E	0.6	12	
		M	N	1.7	16	
		M	z	1.6	18	
	Ki	eP		14	30	09
		eLg1		14	43	55
				μ	s	
		M	E	1.6	14	
		M	N	2.3	18	
		M	z	1.6	16	

1958						
Sep 16	Sk	iP		14	30	15
(cont.)		iPP		14	31	55
	Gb	eP		14	30	02
	Eastern Iran.					
» 17	Up	iPg		06	23	29
		iS*		06	23	58
		iSg		06	24	01
				μ	s	
		Sg	z′	0.2	0.5	
		△ = 280 km = 2.5°.				
	Ki	iSg		06	27	53
		△ = 1060 km = 9.5°.				
	Sk	e		06	25	00
		iSg		06	25	20
		△ = 540 km = 4.9°.				
	Gb	iPg		06	23	04
		iSg		06	23	19
		△ = 130 km = 1.2°.				
	Lake Vener, Sweden, 58.8°N, 13.2°E.					
	Origin time = 06 22 39. Felt.					
» 17	Gb	eP		12	03	20
» 17	Up			—		
				μ	s	
		M	E	0.9	22	
		M	N	1.0	19	
		M	z	1.9	22	
	Ki	iP		12	33	54
				μ	s	
		M	E	0.7	20	
		M	N	0.4	17	
		M	z	0.5	16	
	Kurile Islands.					
» 18	Up	ePKP		03	54	21
	Ki	iPKP		03	54	37
	Sk	iPKP		03	54	27
	Sandwich Islands.					
» 18	Up	eP		14	52	59
		e		15	02	00
		e(S)		15	02	20
				μ	s	
		M	E	3.8	18	
		M	N	3.1	19	
		M	z	6.2	18	
	Ki	iP		14	53	30
		eSS		15	08	08
				μ	s	
		M	E	3.3	20	
		M	N	1.5	19	
		M	z	2.6	20	
	Sk	eP		14	52	56
	Gb	eP		14	52	31
	Mid-Atlantic Ocean.					
	Magn. = 5.9 (Up, Ki).					
» 18	Up	iP		21	00	32 C
		ipP		21	01	05

1958							
Sep 18	Up	isP		21	01	21	
(cont.)		iPP		21	02	13	
		eSS		21	09	20	
		e		21	09	54	
				μ		s	
		P	z′	0.2		0.5	
		PP	E	0.4		3	
		△=4800 km=43°.					
	Ki	iP		21	00	41	
		iPP		21	02	32	
	Sk	iP		21	00	57C	
		ipP		21	01	31	
		isP		21	01	48	
	Gb	iP		21	00	51C	
		ipP		21	01	25	
		ePP		21	02	36	
		△=5000 km=45°.					
	Hindu Kush. h=170 km (Up, Sk, Gb).						
	Magn.=6.1 (Up).						
» 19	Up	iP		08	26	10	
	Ki	iP		08	25	53	
				μ		s	
		P	z′	0.1		1.1	
	Sk	eP		08	26	17	
	Molucca Passage.						
» 19	Up	iP		17	29	38	
	Ki	iP		17	28	45	
				μ		s	
		P	z′	0.1		1.0	
	Sk	iP		17	29	16	
	Aleutian Islands.						
» 20	Up	iP		05	28	45	
				μ		s	
		P	z′	0.1		1.2	
	Ki	iP		05	28	32	
				μ		s	
		P	z′	0.1		1.0	
	Sk	iP		05	28	56	
	North Vietnam.						
» 20	Up	iP		09	17	21	
	Ki	iP		09	17	44	
	Sk	iP		09	17	50	
	Near coast of Baluchistan.						
» 20	Up	iP		10	44	34	
	Ki	iP		10	44	55	
				μ		s	
		M	E	1.1		22	
		M	z	1.7		22	
	Gb	iP		10	44	16	
	Atlantic Ocean.						
» 20	Up	iPKP		17	28	13	
				μ		s	
		M	E	3.2		24	
		M	N	3.6		22	
		M	z	4.6		19	

1958							
Sep 20	Ki	iPKP		17	28	02	
(cont.)				μ		s	
		M	E	6.0		20	
		M	N	4.8		23	
		M	z	7.0		23	
	Sk	ePKP		17	28	11	
	Solomon Islands.						
	Magn.=6.3 (Up, Ki).						
» 20	Up	iPKP		17	38	34	
	Ki	ePKP2		17	38	54	
	South of Fiji Islands.						
» 21	Up	iP		05	56	36C	
		i		05	56	53	
				μ		s	
		P	z′	0.2		1.0	
		M	E	1.1		17	
		M	N	0.8		18	
		M	z	1.6		18	
	Ki	iP		05	55	56C	
		i		05	56	14	
				μ		s	
		P	z′	0.1		1.0	
		M	E	0.8		17	
		M	N	0.5		17	
		M	z	1.4		18	
	Sk	iP		05	56	30	
	Gb	iP		05	56	59	
	Honshu, Japan.						
» 21	Ki	iP		07	44	44	
	Molucca Passage.						
» 21	Up	iP		16	24	49	
	Ki	iP		16	25	32	
	Sk	eP		16	25	32	
	Western Iran.						
» 21	Ki	iP		22	37	16	
» 22	Up	i(P)		07	12	45	
	Off north coast of Java						
	(h ~ 600 km).						
» 22	Up	iP		08	48	57D	
		iS		08	58	29	
				μ		s	
		P	z′	0.4		0.8	
	Ki	iP		08	48	24	
				μ		s	
		P	z′	0.4		0.8	
	Sk	iP		08	48	54	
		iPP		08	51	59	
	Gb	iP		08	49	16	
	Bonin Islands (h ~ 500 km).						
» 22	Up	iPKP1		19	25	31C	
		i		19	25	37	
		iPKP2		19	25	48	
		ePKS		19	29	03	

1958							
Sep 22	Up			μ		s	
(cont.)		PKP1	z	2.1		6	
		PKP1	z′	0.6		0.9	
		M	E	2.8		21	
		M	N	5.3		23	
		M	z	6.1		23	
		△ ~ 16800 km ~ 151°.					
	Ki	iPKP		19	25	17C	
		i		19	25	40	
		iSKKS		19	35	21	
		iSS		19	47	22	
				μ		s	
		PKP	N	0.7		6	
		PKP	z	3.2		7	
		PKP	z′	1.5		1.2	
		M	E	4.5		22	
		M	N	1.3		20	
		M	z	5.8		22	
		△ ~ 16000 km ~ 144°.					
	Sk	iPKP		19	25	28	
	Gb	ePKP1		19	25	35	
		i		19	25	43	
		iPKP2		19	25	53	
		i		19	26	31	
	Kermadec Islands region.						
	Magn.=6.4 (Up, Ki).						
» 22	Up	iP		20	19	45	
	Ki	iP		20	19	04C	
	Sk	iP		20	19	39	
		iPP		20	22	05	
	Gb	iP		20	20	14	
	Hokkaido, Japan.						
» 23	Up	iP		04	01	57	
	Northern California.						
» 23	Gb	iPg		12	17	10	
		iSg		12	17	15	
		△=44 km=0.4°.					
	Off west coast of Sweden						
	(see next shock). Explosion.						
» 23	Up	i		12	51	50	
		iSg		12	51	54	
		△=440 km=4.0°.					
	Sk	iSg		12	52	54	
		△=640 km=5.8°.					
	Gb	iPg		12	49	52	
		iSg		12	49	59	
		△=56 km=0.5°.					
	Northern Kattegatt, off west coast of						
	Sweden, 57.9°N, 11.1°E.						
	Origin time=12 49 45. Explosion.						
» 23	Gb	iPg		13	56	59	
		iSg		13	57	04	
		△=44 km=0.4°.					
	Off west coast of Sweden (see preced-						
	ing shock). Explosion.						

1958							
Sep 23	Sk	iP		15	01	11	
» 23	Sk	iPKP		16	39	58	
	Kermadec Islands region.						
» 24	Up	eP		03	54	20	
		i		03	54	30	
		i		03	54	51	
		i		04	02	54	
				μ		s	
		M	E	1.6		18	
		M	N	2.6		21	
		M	z	3.1		20	
	Ki	iP		03	53	34	
		i		03	53	48	
		eS		04	01	10	
		e		04	01	32	
				μ		s	
		P	z′	0.2		1.8	
		S	E	0.9		9	
		S	N	1.3		8	
		M	E	2.3		19	
		M	N	4.0		21	
		M	z	4.3		20	
		△=5950 km=53½°.					
	Sk	iP		03	53	51	
	Gb	eP		03	54	36	
	Gulf of Alaska.						
	Magn.=5.8 (Up, Ki).						
» 25	Up	iP		07	01	24C	
				μ		s	
		P	z′	0.6		0.6	
	Ki	iP		07	01	33C	
		iPP		07	03	13	
				μ		s	
		P	z′	0.5		1.0	
	Sk	iP		07	01	49C	
		iPP		07	03	31	
	Hindu Kush (h ~ 200 km).						
» 25	Up	iP		07	30	54	
		i		07	31	01	
		iS		07	39	47	
				μ		s	
		P	z′	1.5		1.4	
		S	E	6.2		15	
		S	N	6.6		15	
		M	E	27		23	
		M	N	15		21	
		M	z	41		23	
		△=7450 km=67°.					
	Ki	iP		07	31	22	
		i		07	31	24	
		i		07	31	30	
		eS		07	40	42	
		ePS		07	41	11	
				μ		s	
		P	E	0.9		8	
		P	N	0.3		8	
		P	z	2.9		7	

1958							
Sep 25 (cont.)	Ki	P	z′		1.1	1.7	
		S	E		3.3	15	
		S	N		3.4	15	
		M	E		22	20	
		M	N		5.7	20	
		M	Z		20	21	
		△=8000 km=72°.					
	Sk	iP			07	30	59
	Atlantic Ocean.						
	Magn.=6.7 (Up, Ki).						
» 25	Up	i(P)			09	17	57
» 25	Up	iPKP2			15	35	37
	Ki	ePKP			15	35	08
	Sk	iPKP			15	35	29
		i			15	35	42
	Kermadec Islands region.						
» 25	Up	iP			16	44	12
		i			16	44	48
» 25	Up	iPKP2			21	15	54
	Ki	ePKP			21	15	19
	Sk	ePKP			21	15	45
	Kermadec Islands region.						
» 25	Up	iPKP			23	00	33C
	Sk	ePKP			23	00	24
» 26	Up	iP			18	21	39
				μ		s	
		P	z′	0.1		1.0	
	Ki	iP			18	20	47
	Sk	eP			18	21	19
	Aleutian Islands.						
» 26	Ki	iP			18	37	05
» 26	Up	iP			23	56	38
	Ki	iP			23	57	49
» 27	Up	iP			07	49	43
	Ki	iP			07	49	37
		i			07	49	57
	Off south coast of Java.						
» 27	Ki	iP			10	45	02
				μ		s	
		M	E	0.2		12	
		M	N	0.4		13	
		M	Z	0.6		18	
	Sk	eP			10	44	38
		iS			10	47	04
		△=1450 km=13°.					
	Near north coast of Iceland.						
» 27	Up	iP			12	48	39
				μ		s	
		M	N	0.8		19	
		M	Z	0.9		18	

1958							
Sep 27 (cont.)	Ki	iP			12	47	59
				μ		s	
		M	E	1.5		18	
		M	N	0.5		17	
		M	Z	1.8		18	
	Sk	iP			12	48	31
		i			12	48	43
	Near east coast of Honshu, Japan.						
» 27	Up	iPKP			14	14	01
	Ki	iPKP			14	13	53
	Sk	iPKP			14	14	03
	Samoa Islands region.						
» 28	Up	iP			08	58	20
		i			08	58	21
» 28	Up	iP			12	43	32
	Sk	iP			12	44	08
» 28	Up	iP			17	53	05
	Ki	i(P)			17	53	11
	Northern Afghanistan.						
» 28	Up	iP			21	05	09
		i			21	05	37
	Honshu, Japan.						
» 28	Up	i(P)			23	58	28
» 29	Up					—	
				μ		s	
		M	E	0.7		14	
		M	N	1.0		18	
		M	Z	1.1		16	
	Ki	eP			14	27	48
		i			14	28	06
				μ		s	
		M	E	1.5		18	
		M	N	1.0		17	
		M	Z	1.9		16	
	Off northeast coast of Honshu, Japan.						
» 29	Up	iP			15	09	16
» 30	Up	eP			02	55	40
		i			02	55	46
	Sk	eP			02	56	19
» 30	Up	eL			07	58	
				μ		s	
		M	E	1.1		14	
		M	N	1.8		20	
		M	Z	2.8		11	
	Ki	eL			07	57	
				μ		s	
		M	E	0.9		10	
		M	N	1.2		11	
		M	Z	1.9		11	

1958							
Sep 30 (cont.)	Off west coast of Novaya Zemlya. Nuclear explosion.						
» 30	Up	iS			08	51	19
		i			08	51	38
		i(Lg1)			08	52	27
		iLg1			08	52	34
				μ		s	
		M	E	1.2		9	
	Ki	iP			08	50	16
				μ		s	
		M	E	1.3		10	
	Sk	iP			08	49	20
		i(Lg1)			08	54	17
		iLg2			08	54	31
	Gb	i(Lg1)			08	50	58
		iLg2			08	51	27
	The valley of the river Inn, Austrian Alps.						
» 30	Up	iP			09	59	33
				μ		s	
		M	E	1.1		11	
		M	N	2.0		14	
		M	Z	3.2		17	
	Ki	iP			09	58	04
		iS			10	00	24
				μ		s	
		P	z′	0.1		1.4	
		S	z′	0.1		1.0	
		M	E	1.8		18	
		M	N	1.7		20	
		M	Z	3.5		18	
		△=1380 km=12.4°.					
	Sk	iP			09	59	13
	Gb	iP			10	00	09
	Off west coast of Novaya Zemlya, 74.0°N, 51.8°E.						
	Origin time=09 55 03.						
	Nuclear explosion.						
» 30	Sk	eP			20	39	48
		i			20	40	05
Oct 1	Up	iP			05	33	12
	Ki	iP			05	32	53
				μ		s	
		P	z′	0.1		1.0	
	Sk	eP			05	33	24
	Off north coast of Luzon, Philippine Islands.						
» 1	Up	ePKP			09	49	42
				μ		s	
		M	E	2.5		19	
		M	N	4.0		23	
		M	Z	3.3		19	
	Ki	ePKP			09	49	35
				μ		s	
		M	E	2.5		19	
		M	N	1.5		18	

1958							
Oct 1 (cont.)	Ki	M	Z		3.2	19	
	Antarctic Ocean.						
	Magn.=6.2 (Up, Ki).						
» 1	Up	iP			12	13	24
	Ki	iP			12	13	09
				μ		s	
		P	z′	0.1		1.0	
	Celebes Sea.						
» 1	Up	iP			16	47	01
		i			16	47	21
	Ki	iP			16	45	46
		iS			16	47	24
		eT			16	52	42
				μ		s	
		P	z′	0.2		1.3	
		M	E	1.5		18	
		M	N	1.0		15	
		M	Z	1.9		16	
		△=940 km=8.5°.					
	Sk	iP			16	45	59
		iS			16	47	44
		iT			16	52	54
		△=1010 km=9.1°					
	Gb	iP			16	47	13
		i			16	47	21
	East of Jan Mayen, 71.7°N, 0°.						
	Origin time=16 43 42.						
» 1	Up	iP			17	58	16
		i			17	58	28
				μ		s	
		P	z′	0.1		1.0	
	Ki	iP			17	57	23
				μ		s	
		P	z′	0.1		0.8	
	Sk	iP			17	57	53
	Gb	iP			17	58	30
		i			17	58	43
	Aleutian Islands.						
» 1	Up	e(P)			18	26	30
» 2	Ki	iPKP			04	44	37
	Sandwich Islands region.						
» 2	Ki	e(P)			08	03	51
		e			08	05	58
		i(S)			08	06	12
		△=1380 km=12.4°.					
	Off west coast of Novaya Zemlya.						
	Origin time=08 00 50.						
	Nuclear explosion.						
» 2	Up					—	
				μ		s	
		M	N	0.8		16	
		M	Z	1.5		17	
	Ki	iP			14	32	04
		eT			14	39	29

1958								
Oct	2	Ki				μ	s	
(cont.)			P	z′		0.1	1.3	
			M	E		1.6	16	
			M	N		1.5	14	
			M	Z		2.8	16	
		Sk	eP		14	32	15	
			i		14	32	23	
			iS		14	34	02	
			△=1030 km=9.3°.					
		Gb	eP		14	33	28	
			East of Jan Mayen, 71.7°N, 0°.					
			Origin time=14 29 59.					
»	2	Ki	iP		15	13	48	
						μ	s	
			P	z′		0.1	1.0	
			M	E		0.7	16	
			M	Z		1.0	18	
		Sk	iP		15	14	09	
			Off east coast of Mindanao,					
			Philippine Islands.					
»	2	Ki	eP		15	23	30	
		Sk	eP		15	23	45	
			eS		15	25	30	
			△=1010 km=9.1°.					
		Gb	e(P)		15	25	03	
			East of Jan Mayen, 71.7°N, 0°.					
			Origin time=15 21 27.					
»	2	Ki	iP		22	23	08	
						μ	s	
			P	z′		0.1	1.5	
			M	E		1.0	18	
			M	N		0.8	14	
			M	Z		1.3	14	
		Sk	iP		22	23	21	
			iS		22	25	06	
			△=1010 km=9.1°.					
		Gb	eP		22	24	45	
			i		22	24	51	
			East of Jan Mayen, 71.7°N, 0°.					
			Origin time=22 21 04.					
»	3	Up	iP		00	45	42C	
			i		00	46	22	
						μ	s	
			P	z′		0.1	0.5	
		Ki	iP		00	45	25	
						μ	s	
			P	z′		0.1	1.0	
		Sk	iP		00	45	48	
		Gb	iP		00	46	04C	
			Philippine Islands region.					
»	3	Ki	iP		04	59	02	
			Alaska.					
»	4	Ki	ePn		00	33	58	
			iS*		00	34	39	
			iSg		00	34	47	

1958								
Oct	4	Ki	△=330 km=3.0°.					
(cont.)		Sk	ePg		00	34	12	
			eSn		00	34	40	
			iSg		00	34	54	
			△=360 km=3.2°.					
			Västerbotten, North Sweden,					
			64.9°N, 19.3°E. Origin					
			time=00 33 08. Felt.					
»	4	Ki	iP		06	03	58	
			Philippine Islands region.					
»	4	Up	iP		10	04	14	
		Ki	iP		10	03	44	
						μ	s	
			M	N		0.5	16	
			M	Z		0.7	17	
		Sk	iP		10	04	10	
		Gb	iP		10	04	32	
			Mariana Islands.					
»	4	Gb	iPg		11	16	53	
			iSg		11	16	55	
			Probably explosion near Göteborg.					
»	4	Up	i(Sg)		11	22	15	
		Gb	iPg		11	20	20	
			iSg		11	20	22	
			Explosion near Göteborg.					
			Origin time=11 20 15.					
»	4	Up	eP		11	45	57	
			i		11	46	09	
						μ	s	
			M	E		0.7	17	
			M	N		0.5	19	
			M	Z		1.2	17	
		Ki	iP		11	45	26	
			i		11	45	38	
			eS		11	55	33	
						μ	s	
			S	N		0.5	10	
			M	E		0.7	18	
			M	N		0.5	16	
			M	Z		1.0	18	
			△=9000 km=81°.					
		Sk	iP		11	45	54 D	
			i		11	46	06	
			North of Mariana Islands.					
»	4	Gb	i(Sg)		13	31	50	
			Probably explosion.					
»	4	Up	iP		15	21	15	
		Ki	iP		15	20	44	
		Sk	eP		15	21	09	
			Mariana Islands region.					
»	4	Ki	iPKP		18	28	24	
		Sk	iPKP		18	28	36	
			New Hebrides Islands.					

1958								
Oct	5	Ki	iP		04	18	21	
»	5	Up	iP		06	20	05	
		Ki	iP		06	19	36	
			Mariana Islands (h∼200 km).					
»	6	Up	iPKP		01	06	43C	
			i		01	06	50	
						μ	s	
			PKP	z′		0.2	0.8	
		Ki	iPKP		01	06	23	
		Sk	iPKP		01	06	38	
			i		01	06	42	
		Gb	iPKP		01	06	45	
			Kermadec Islands (h∼250 km).					
»	6	Gb	iPKP		02	27	19	
			South of Fiji Islands (h∼550 km).					
»	6	Up	iP		09	35	55	
			i		09	36	03	
			i		09	36	28	
			iPcS		09	42	33	
						μ	s	
			M	E		2.0	17	
			M	N		1.6	20	
			M	Z		2.2	16	
		Ki	iP		09	36	24	
			iPP		09	37	33	
			i		09	44	58	
						μ	s	
			PP	z′		0.2	1.2	
			M	E		1.7	15	
			M	N		1.2	18	
			M	Z		2.5	18	
		Sk	eP		09	36	30	
			iPP		09	37	38	
		Gb	iP		09	36	10 D	
			iPP		09	37	10	
			Iran-Turkmen, U.S.S.R., border.					
»	6	Up	iP		17	12	43	
		Ki	iP		17	12	22	
»	6	Up	iP		19	03	02C	
			i		19	03	06	
						μ	s	
			P	z′		0.2	1.1	
			M	E		1.1	17	
			M	N		0.9	15	
			M	Z		1.5	17	
		Ki	iP		19	02	06	
						μ	s	
			P	z′		0.4	1.3	
			M	E		0.9	15	
			M	N		0.5	17	
			M	Z		0.7	15	
		Sk	iP		19	02	43C	
		Gb	iP		19	03	21	
			Near east coast of Kamchatka.					

1958								
Oct	7	Up	iPKP		07	57	42	
		Ki	i(PKP)		07	57	09	
		Gb	iPKP		07	57	58	
			Near west coast of New Zealand.					
»	7	Ki	e(P)		10	34	42	
»	7	Up	iSKS		12	58	11	
			eSKSP		13	02	12	
						μ	s	
			SKS	N		0.3	6	
			M	E		5.5	23	
			M	N		3.9	20	
			M	Z		7.4	21	
			△∼12800 km∼115°.					
		Ki	ePKP		12	51	14	
			ePP		12	51	48	
			eSKS		12	57	44	
						μ	s	
			PP	Z		0.4	8	
			SKS	E		0.3	8	
			M	E		5.6	22	
			M	N		1.4	20	
			M	Z		7.3	22	
			△∼12100 km∼109°.					
		Sk	iPKP		12	51	24	
			New Britain.					
			Magn.=6.3 (Up, Ki).					
»	7	Up	i(L)		15	13	28	
		Sk	e(L)		15	18	42	
		Gb	e(P)		15	15	13	
			i(Sg)		15	15	30	
			i(L)		15	15	37	
			Local.					
»	7	Up	i(P)		20	32	17	
»	8	Ki	iP		02	28	36	
		Sk	iP		02	29	10	
»	8	Up	iPKP		03	32	54	
			Kermadec Islands.					
»	8	Up	iP		08	57	41	
			Greece.					
»	8	Sk	iPKP		11	32	27	
			Kermadec Islands.					
»	8	Up	iPKP		14	19	36	
		Ki	iPKP		14	19	23	
		Sk	iPKP		14	19	34	
			Solomon Islands.					
»	8	Sk	e(P)		14	40	25	
			i		14	40	40	
»	8	Up	iPKP		18	19	35	
			Kermadec Islands.					

1958 Oct	9	Ki	eP		01	08	20
»	9	Up	iPKP		11	39	11
			iSKKS		11	47	32
			eSKSP		11	50	33
					μ	s	
			SKKS	N	0.8	6	
			SKSP	N	1.7	13	
			M	E	1.6	20	
			M	N	2.7	19	
			M	Z	3.5	20	
			△ ~ 13450 km ~ 121°.				
		Ki	iPKP		11	39	25
			iPKS		11	42	41
			e		11	48	19
			iSS		11	58	43
			i(PKPPKS)		12	01	21
					μ	s	
			PKP	Z′	0.2	1.1	
			PKS	Z	1.9	16	
			PKS	Z′	0.1	1.5	
			M	E	1.5	18	
			M	N	1.8	18	
			M	Z	2.3	18	
			△ ~ 14350 km ~ 129°.				
		Sk	ePKP		11	39	18
		Sandwich Islands region. Magn. = 6.2 (Up, Ki).					
»	9	Up	iP		13	37	12
			i		13	37	24
		Ki	iP		13	38	18
		Sk	iP		13	37	51
		Crete.					
»	10	Up	iP		01	03	20
		Sk	iP		01	04	00
		Ionian Sea.					
»	10	Ki	iP		04	18	39C
		Celebes Sea.					
»	10	Up	iP		08	40	48C
					μ	s	
			P	Z′	0.4	0.5	
			M	N	4.0	22	
			M	Z	4.9	23	
		Ki	iP		08	39	54C
					μ	s	
			P	Z′	0.6	1.0	
		Sk	iP		08	40	32
		Gb	iP		08	41	11C
		Near east coast of Kamchatka (h ~ 100 km).					
»	10	Up	iP		09	26	39
					μ	s	
			P	Z′	0.1	0.5	
		Ki	iP		09	26	32
		Sk	iP		09	26	55
		Tibet-India border.					

1958 Oct	10	Up	iP		11	48	50
		Ki	eP		11	48	32
		Off south coast of Mindanao.					
»	10	Up	iP		21	16	51
		Ki	iP		21	15	59
		Aleutian Islands.					
»	11	Up	iP		00	50	55C
					μ	s	
			P	Z′	0.1	0.7	
		Ki	iP		00	49	59C
			i		00	50	05
					μ	s	
			P	Z′	0.1	0.7	
		Sk	iP		00	50	23
		Yukon.					
»	11	Up	iP		02	11	08C
					μ	s	
			P	Z′	0.2	0.5	
		Ki	iP		02	10	14C
			iPcP		02	11	14
					μ	s	
			P	Z′	0.1	1.0	
		Sk	iP		02	10	50
			iPcP		02	11	35
		Gb	iP		02	11	26
		Near east coast of Kamchatka.					
»	11	Up	iP		09	18	01
			i		09	18	12
		Ki	iP		09	17	17
		Sk	iP		09	17	52
		Near east coast of Hokkaido, Japan.					
»	11	Up	iPKP		22	00	06
		Kermadec Islands.					
»	12	Up	iP		07	58	06
					μ	s	
			M	E	1.4	11	
			M	N	3.4	11	
			M	Z	3.9	11	
		Ki	eP		07	56	37
			eS		07	58	45
					μ	s	
			M	E	1.5	9	
			M	N	1.7	12	
			M	Z	2.6	10	
		Sk	iP		07	57	44
		Off west coast of Novaya Zemlya, 74.0°N, 51.8°E. Origin time = 07 53 43. Nuclear explosion.					
»	12	Ki	e(P)		09	46	15
			e		09	47	35
		Sk	iP		09	46	36

1958 Oct	12	Ki	iP		09	50	55
			i		09	51	30
»	12	Up	iPKP		10	25	13 D
		South of Fiji Islands.					
»	12	Up	iP		11	26	47
		Aleutian Islands.					
»	12	Up	iP		12	59	09
»	12		iP		15	30	00 D
		Up	ipP		15	31	05
			e		15	41	01
					μ	s	
			P	Z′	0.7	0.8	
			M	E	2.5	19	
			M	N	1.9	18	
			M	Z	2.2	18	
		Ki	iP		15	29	33 D
			ipP		15	30	37
			esS		15	40	01
			e		15	40	13
					μ	s	
			P	Z′	0.5	1.3	
			M	E	1.4	15	
			M	N	1.4	20	
			M	Z	1.6	18	
		Sk	iP		15	30	02
		Gb	iP		15	30	21 D
			ipP		15	31	23
		East China Sea. h = 260 km (Up, Ki, Gb).					
»	13	Ki	iPKP		05	45	48
		Sk	iPKP		05	45	59
		Northwest of Fiji Islands.					
»	13	Up	iP		08	15	27C
		Sk	iP		08	15	43
»	13	Up	iP		08	35	07
		Ki	iP		08	35	05
		Sk	iP		08	35	31
		Kirghiz, U.S.S.R.					
»	13	Up	iP		09	05	42C
					μ	s	
			P	Z′	0.3	1.2	
			M	E	1.4	8	
			M	N	1.7	13	
			M	Z	1.4	8	
		Ki	iP		09	05	41C
			i		09	19	03
					μ	s	
			P	Z′	0.2	1.0	
			M	E	1.5	9	
			M	N	2.5	6	
			M	Z	1.6	8	
		Sk	iP		09	06	05C
		Gb	iP		09	06	07

1958 Oct	13	Kirghiz, U.S.S.R. Magn. = 6.0 (Up, Ki).					
(cont.)							
»	13	Up	iP		10	19	21
					μ	s	
			M	N	1.1	18	
		Ki	eP		10	19	34
					μ	s	
			M	N	0.6	10	
		Sk	iP		10	19	49
		U.S.S.R.-Afghanistan border.					
»	13	Up	i(P)		13	44	50
»	14	Up	iP		09	16	59
					μ	s	
			P	Z′	0.1	0.5	
		Ki	iP		09	16	05
		Sk	iP		09	16	41
		Gb	iP		09	17	41C
		Near east coast of Kamchatka.					
»	14	Up	iP		14	51	09
		Gb	e(P)		14	52	11
»	14	Up	iP		21	16	15C
					μ	s	
			P	Z′	0.1	0.6	
		Ki	iP		21	15	40C
					μ	s	
			P	Z′	0.1	0.7	
		Sk	iP		21	16	11C
		Gb	iP		21	16	38
		Near south coast of Honshu, Japan (h ~ 350 km).					
»	15	Up	—				
					μ	s	
			M	E	2.0	11	
			M	N	3.8	11	
			M	Z	3.9	11	
		Ki	eP		07	54	15
			iS		07	56	35
					μ	s	
			S	Z′	0.1	1.3	
			M	E	1.7	9	
			M	N	1.3	10	
			M	Z	2.1	10	
		△ = 1380 km = 12.4°.					
		Sk	iP		07	55	15
		Off west coast of Novaya Zemlya. Origin time = 07 51 14. Nuclear explosion.					
»	15	Up	iPKP		11	51	17
		Sk	iPKP		11	51	12
		Gb	iPKP		11	51	26C
		Kermadec Islands.					

1958							
Oct	16	Up	iP		09	53	01
»	16	Up	iP		12	03	09C
					μ	s	
			P	z′	0.2	0.5	
		Ki	iP		12	03	03C
					μ	s	
			P	z′	0.1	0.8	
		Burma.					
»	16	Up	i(Sg)		15	33	43
		Ki	e(P)		15	31	28
			i		15	31	34
		Local?					
»	16	Up	i(P)		16	10	17
		Ki	eP		16	06	06
		Gb	e(P)		16	11	30
		Two shocks?					
»	16	Up	iPKP		18	20	57
		Ki	iPKP		18	20	42
		Sk	iPKP		18	20	52
		Santa Cruz Islands					
		(h ~ 100 km).					
»	17	Gb	ePg		09	05	35
			iSg		09	05	40
		Local blast?					
»	18	Ki	iP		06	46	48
		Sk	iP		06	46	31
			i		06	46	38
		Gb	iP		06	46	30
		Colombia-Venezuela border					
		(h ~ 100 km).					
»	18	Up	iP		09	55	35
					μ	s	
			M	E	2.8	11	
			M	N	5.2	10	
			M	Z	5.9	10	
		Ki	iP		09	54	03C
			iS		09	56	19
					μ	s	
			S	z′	0.2	1.3	
			M	E	2.3	9	
			M	N	2.1	10	
			M	Z	3.3	10	
			△ = 1330 km = 12.0°.				
		Sk	iP		09	55	13
		Off west coast of Novaya Zemlya,					
		74.0°N, 51.8°E.					
		Origin time = 09 51 10.					
		Nuclear explosion.					
»	18	Ki	iP		10	12	31
			i		10	12	36
		Local blast?					
»	19	Up	eL		03	17	

1958							
Oct	19	Up				μ	s
(cont.)			M	E	1.8	23	
			M	N	1.4	22	
			M	Z	1.7	20	
		Ki	eL		03	19	
					μ	s	
			M	E	1.0	21	
			M	N	0.9	20	
			M	Z	1.4	20	
		Tonga Islands.					
»	19	Up	iPKP		12	02	39
			iPKP2		12	02	50
					μ	s	
			PKP	z′	0.1	1.0	
		Ki	iPKP		12	02	18C
					μ	s	
			PKP	z′	0.5	1.5	
		Gb	iPKP		12	02	45
			iPKP2		12	03	03
		Kermadec Islands region.					
»	20	Up	iP		01	06	34
					μ	s	
			P	z′	0.1	1.0	
			M	E	1.3	20	
			M	N	3.2	23	
			M	Z	2.6	21	
		Ki	iP		01	05	42
					μ	s	
			P	z′	0.1	1.2	
		Gb	iP		01	06	50
		Aleutian Islands.					
		Magn. = 5.7 (Up, Ki).					
»	20	Up	iP		01	26	19C
			i		01	26	42
			iPP		01	30	18
			iSKS		01	36	49
			iS		01	37	42
					μ	s	
			P	z′	0.1	0.6	
			PP	Z	0.8	3	
			PP	z′	0.3	1.1	
			SKS	E	1.3	10	
			S	N	2.1	8	
			M	E	3.7	20	
			M	N	3.4	23	
			M	Z	5.2	20	
			△ ~ 11100 km ~ 100°.				
		Ki	iP		01	26	13C
			i		01	26	29
			iPP		01	30	14
			iSKS		01	36	44
			eS		01	37	35
					μ	s	
			P	z′	0.2	1.1	
			PP	z′	0.6	1.6	
			SKS	E	2.1	10	
			S	N	0.9	9	
			M	E	4.0	19	

1958							
Oct	20	Ki	M	N	3.2	22	
(cont.)			M	Z	5.8	22	
		Sk	iP		01	26	30
			iPP		01	30	46
			iPPP		01	33	02
		Gb	iP		01	26	33
			iPP		01	30	40
		Off south coast of Java					
		(h ~ 100 km).					
		Magn. = 6.6 (Up, Ki).					
»	20	Up	e(P)		08	24	48
					μ	s	
			M	N	1.4	10	
			M	Z	1.9	11	
		Off west coast of Novaya Zemlya.					
		Nuclear explosion.					
»	21	Ki	iP		06	29	13
			iPKP		06	33	17
		Sk	iPKP		06	33	29
		Near northeast coast of New Guinea.					
»	21	Up	iP		07	28	13
		Ki	iP		07	27	48
		Near northeast coast of Formosa.					
»	21	Up	iPn		10	17	02
			iS*		10	17	40
			iSg		10	17	48
			△ = 310 km = 2.8°.				
		Ki	ePn		10	18	14
			eSg		10	20	27
		Sk	iSn		10	19	08
			iSg		10	19	43
			△ = 700 km = 6.3°.				
		Southwest Finland, 60°N, 23°E.					
		Origin time = 10 16 15.					
»	21	Ki	eP		15	54	30
		South of Java.					
»	21	Up	iPKP		17	52	26
					μ	s	
			PKP	z′	0.2	0.7	
		Ki	iPKP		17	52	09
		Sk	iPKP		17	52	20D
		Gb	iPKP		17	52	33
		Kermadec Islands.					
»	21	Ki	iP		18	38	26
		Aleutian Islands.					
»	22	Up	iP		02	36	21C
		Ki	iP		02	36	31
		Sk	iP		02	36	47
		Gb	eP		02	36	43
		(Hindu Kush).					

1958							
Oct	22	Up	e(P)		08	25	30
					μ	s	
			M	E	2.5	11	
			M	N	5.0	10	
			M	Z	6.1	10	
		Ki	iP		08	24	04
			iS		08	26	19
					μ	s	
			M	E	2.3	10	
			M	N	2.3	10	
			M	Z	3.8	10	
		Sk	eP		08	25	14
		Off west coast of Novaya Zemlya,					
		74.0°N, 51.8°E.					
		Origin time = 08 21 11.					
		Nuclear explosion.					
»	22	Ki	iP		12	26	23C
		Aleutian Islands.					
»	22	Up	iPn		15	41	09
			iSn		15	42	02
			iSg		15	42	22
			△ = 480 km = 4.3°.				
		Sk	eSg		15	44	27
		Gb	e(P*)		15	40	50
			eSg		15	41	31
			△ = 310 km = 2.8°.				
		Southern Baltic, 55¾°N, 15½°E.					
		Origin time = 15 40 00.					
»	23	Up	iP		02	05	53
		Kamchatka.					
»	23	Up	iP		06	46	56
		Sk	iP		06	47	35D
		Gb	iP		06	46	41
		Greece.					
»	23	Up	iP		15	49	25
			iPP		15	50	21
		Ki	iP		15	50	09
					μ	s	
			P	z′	0.2	0.8	
		Sk	iP		15	50	06
		Gb	iP		15	49	30
		Iran.					
»	23	Ki	iPKP		18	10	17
		South of Tasmania.					
»	24	Ki	eP		08	06	17
			iS		08	08	37
					μ	s	
			M	N	1.4	10	
		Off west coast of Novaya Zemlya.					
		Nuclear explosion.					
»	24	Up	iP		12	18	29

1958								
Oct	25	Up	iP		06	37	46	
		South Atlantic Ocean.						
»	26	Up	iP		02	30	37	
		Ki	iP		02	30	25	
					μ	s		
			P	z′	0.3	1.0		
		Sk	iP		02	30	44	
		Gb	iP		02	30	50	D
		Northern Borneo.						
»	26	Up	iP		11	26	05	
»	26	Up	iP		12	46	26	
		Ki	iP		12	47	11	
		Iraq-Turkey border.						
»	26	Up	iP		15	33	32	
		Ki	iP		15	32	36	
					μ	s		
			P	z′	0.1	0.9		
		Sk	iP		15	33	00	
		Yukon.						
»	27	Gb	iPKP		15	24	22	
			i		15	24	33	
		Tonga Islands region.						
»	27	Gb	eP		16	28	25	
»	27	Up	iP		18	27	55	
			iPcP		18	28	20	
					μ	s		
			P	z′	0.1	0.5		
		Ki	iP		18	27	09	
		Gb	iP		18	28	15	D
		Kurile Islands.						
»	27	Up	iP		19	31	16	
		Ki	iP		19	30	21	
		Near east coast of Kamchatka.						
»	27	Ki	iP		23	57	26	
			i		23	57	32	
		Local blast?						
»	28	Up	iP		05	33	14	
					μ	s		
			P	z′	0.1	1.0		
		Ki	iP		05	33	07	
					μ	s		
			M	E	1.1	15		
			M	N	0.9	16		
			M	z	0.9	14		
		Sk	eP		05	33	31	
		Northern Burma.						
»	28	Up	iP		10	55	46	D
			iS		11	03	13	
			iScS		11	05	30	

1958								
Oct	28	Up				μ	s	
(cont.)			P	z		5.1	10	
			P	z′		1.2	1.0	
			S	N		3.5	10	
			M	E		15	20	
			M	N		21	18	
			M	z		18	21	
			△ = 5850 km = 52½°.					
		Ki	iP			10	55	44
			i			10	55	51
			iS			11	03	14
						μ	s	
			P	E		1.0	8	
			P	z		1.9	9	
			P	z′		0.4	0.9	
			S	E		3.0	12	
			S	N		2.8	10	
			M	E		9.5	17	
			M	N		16	16	
			M	z		7.9	17	
			△ = 5850 km = 52½°.					
		Sk	iP			10	56	05
		Gb	iP			10	56	06 D
		Southern Tibet.						
		Magn. = 6.4 (Up, Ki).						
»	28	Up	i(P)			14	18	27
»	28	Up	iPKP			23	29	01
			i			23	29	07
		Sk	iPKP			23	28	56
		Kermadec Islands region.						
»	29	Up	iP			00	01	08
			i			00	01	22
						μ	s	
			P	z′		0.1	0.8	
		Ki	eP			00	00	14
						μ	s	
			M	E		1.8	20	
			M	N		1.2	18	
			M	z		1.2	18	
		Sk	eP			00	00	48
		Gb	iP			00	01	32
		Aleutian Islands.						
»	29	Up	iP			06	18	39
		Ki	iP			06	17	45
		Aleutian Islands.						
»	29	Up	iP			07	55	12
			iS			08	04	10
			i			08	04	45
			iP′P′			08	23	24
						μ	s	
			P	N		1.1	6	
			P	z′		0.6	0.8	
			S	E		5.8	20	
			M	E		19	21	
			M	N		20	21	
			M	z		27	21	

1958								
Oct	29	Up	△ = 7550 km = 68°.					
(cont.)		Ki	iP			07	54	18
			eS			08	02	30
						μ	s	
			P	z′		0.6	1.3	
			S	E		8.1	21	
			S	N		14	23	
			M	E		27	18	
			M	N		27	18	
			M	z		29	18	
			△ = 6650 km = 60°.					
		Gb	iP			07	55	28
		Aleutian Islands.						
		Magn. = 6.6 (Up, Ki).						
»	29	Up	iP			08	06	16
						μ	s	
			P	z′		0.1	0.8	
		Ki	iP			08	05	23
		Gb	iP			08	06	33
		Aleutian Islands.						
»	29	Up	iP			08	17	20
						μ	s	
			P	z′		0.2	1.0	
		Ki	iP			08	16	27
		Gb	iP			08	17	37
		Aleutian Islands.						
»	29	Up	iP			08	19	35
						μ	s	
			P	z′		0.1	0.9	
		Ki	iP			08	18	41
		Aleutian Islands.						
»	29	Up	iP			15	27	23
		Ki	iP			15	26	28
		Gb	iP			15	27	43
		Near east coast of Kamchatka.						
»	29	Up	iP			19	36	31
		Aleutian Islands.						
»	30	Up	iP			02	36	56
		Ki	iP			02	37	30
		Indian Ocean.						
»	30	Up	iP			11	08	28
		Aleutian Islands.						
»	30	Ki	iP			11	45	27
		Aleutian Islands.						
»	30	Up	iPg			12	56	33
			iSg			12	57	19
			△ = 400 km = 3.6°.					
		Sk	eSg			12	57	51
		Gb	iSg			12	56	11
		Oslo Fjord, 59.0°N, 10.9°E.						
		Origin time = 12 55 21.						

1958								
Oct	30	Up	iP			15	11	49
		Nevada. Underground nuclear explosion.						
»	30	Up	iP			16	49	44
»	31	Ki	iP			07	56	55
		Southeast of Unimak Island.						
»	31	Up	eL			19	55	
						μ	s	
			M	E		2.1	26	
			M	N		2.3	21	
			M	z		3.8	26	
		New Guinea.						
»	31	Up	iP			23	51	07 C
			i			23	52	03
						μ	s	
			P	z′		0.2	1.0	
		Ki	iP			23	50	43 C
						μ	s	
			P	z′		0.3	1.1	
		Sk	iP			23	51	10
		Gb	iP			23	51	30 C
		Near north coast of Formosa (h ~ 100 km).						
Nov	1	Up	ePS			04	07	33
						μ	s	
			M	E		7.1	18	
			M	N		5.4	20	
			M	z		9.6	21	
		Ki	ePS			04	06	40
			e			04	07	58
						μ	s	
			M	E		3.7	18	
			M	N		4.3	20	
			M	z		7.9	21	
		Sk	iPP			03	58	08
		Bismarck Sea.						
		Magn. = 6.3 (Up, Ki).						
»	1	Up	eL			07	00	
						μ	s	
			M	E		1.8	22	
			M	N		2.1	21	
			M	z		2.7	25	
		Off north coast of New Guinea.						
»	1	Up	iP			09	25	39
		Ki	eP			09	25	39
»	1	Ki	ePKP			12	27	28
		New Hebrides Islands.						
»	1	Ki	iPKP			12	34	45
		Sk	iPKP			12	34	57
		New Hebrides Islands.						

1958
Nov 1 Up ePKP 12 35 47
ePP 12 38 31
iPKS 12 39 22
i! 12 39 35

		μ	s
PKS	E	1.1	7
PKS	N	1.8	7
M	E	3.2	20
M	N	2.4	19
M	Z	3.5	20

Ki iPKP 12 35 39

		μ	s
PKP	Z′	0.1	1.0
M	E	2.6	19
M	N	2.0	20
M	Z	3.3	20

Sk iPKP 12 35 49
New Hebrides Islands.
Magn. = 6.2 (Up, Ki).

» 1 Up iP 15 49 25 C

» 1 Up ePKS 16 12 53

		μ	s
PKS	E	0.5	7
PKS	N	1.1	6
M	E	0.9	18
M	N	0.8	19
M	Z	1.7	20

Ki ePKP 16 09 13

		μ	s
M	E	0.7	16
M	N	0.7	18
M	Z	1.4	20

New Hebrides Islands.

» 1 Up iP 16 16 42
Orissa, India.

» 1 Ki iPKP 17 44 45
New Hebrides Islands.

» 1 Up iP 20 59 30
Ki iP 20 59 06
Sk iP 20 59 40
Outer Mongolia.

» 2 Up iP 00 13 37
Ki iP 00 13 49
Sk iP 00 14 31

» 2 Up iP 05 26 48 D
Tibet.

» 2 Up iP 09 20 55
Gb iP 09 21 08
Northern Iran.

» 2 Up iP 10 55 51
iPcP 10 56 18

1958
Nov (cont.) 2 Up

		μ	s
P	Z′	0.1	0.6

Sk iP 10 55 30
Gb iP 10 56 05
Aleutian Islands.

» 2 Up iP 13 27 16
Aleutian Islands.

» 3 Up iPKP 04 20 22
Ki iPKP 04 20 08
Sk iPKP 04 20 15 D
Kermadec Islands.

» 3 Up iP 14 40 53 D

		μ	s
P	Z′	0.3	1.0
M	E	1.3	20
M	N	1.3	18

Ki iP 14 40 51

		μ	s
P	Z′	0.2	1.5
M	N	0.8	16

Sk iP 14 41 12 D
Gb iP 14 41 11 D
Tibet.

» 4 Up iP 05 15 29
Ki eP 05 16 04
i 05 16 13
Sk eP 05 15 59
Near Socotra Island.

» 4 Up iP 08 40 42
eScS 08 51 09
Ki iP 08 40 10
iS 08 49 47

		μ	s
P	Z′	0.1	1.3
S	N	0.6	10

△ = 8350 km = 75°.
Sk iP 08 40 39 C
Gb iP 08 41 01
i 08 41 26
Bonin Islands region.

» 4 Up iP 08 43 13
i 08 43 22

		μ	s
P	Z	0.6	3
P	Z′	0.1	0.5
M	E	1.6	20
M	N	1.7	17
M	Z	2.0	17

Ki iP 08 42 41
iS 08 52 17

		μ	s
P	Z	0.7	6
P	Z′	0.4	1.7
S	N	0.9	10
M	E	2.3	14

1958
Nov (cont.) 4 Ki M N 2.2 14
M Z 1.9 14
△ = 8350 km = 75°.
Sk iP 08 43 10
iPP 08 46 11
Gb iP 08 43 32
i 08 43 40
Bonin Islands region.
Magn. = 6.0 (Up, Ki).

» 4 Up iP 09 29 03
Ki iP 09 29 06
Sk iP 09 28 50 D
Colombia (h ~ 150 km).

» 4 Up iP 13 38 15
Ki iP 13 39 25

» 4 Sk iPKP 20 14 11 C
Santa Cruz Islands.

» 4 Ki e 20 31 34
i 20 31 44
i 20 33 06
Sk iP 20 31 55
e 20 33 35

» 4 Up iPKP 23 14 47

		μ	s
M	E	1.2	18
M	N	0.8	18
M	Z	1.3	19

Ki iPKP 23 14 35

		μ	s
M	E	0.7	16
M	N	0.8	18
M	Z	1.6	18

South Pacific Ocean.

» 4 Ki iPKP 23 53 54
New Hebrides Islands.

» 5 Up iP 07 21 43
i 07 22 51

» 5 Up iSg 14 00 27
Sk eSg 14 00 57
Gb e(Pg) 13 58 49
iSg 13 59 15
Northern Skagerack.

» 5 Up iPg 14 32 16
iSg 14 33 05

		μ	s
Sg	Z′	0.1	0.5

△ = 420 km = 3.8°.
Sk e(Pn) 14 32 21
iSg 14 33 41
△ = 540 km = 4.9°.
Gb iPg 14 31 29
iSg 14 31 49
△ = 170 km = 1.5°.

1958
Nov (cont.) 5 Northern Skagerack, 59°N, 10½°E.
Origin time = 14 30 59.

» 5 Up iP 15 57 44

		μ	s
P	Z′	0.1	0.5

Ki iP 15 56 49 D

		μ	s
P	Z′	0.3	0.9

Sk iP 15 57 17
Gb iP 15 57 53
Kodiak Island (h ~ 60 km).

» 5 Up i(P) 18 33 52
Ki e(P) 18 34 14

» 5 Up eP 22 44 50

» 6 Ki eP 15 01 07
Cyprus.

» 6 Ki iP 15 43 36
Banda Sea (h ~ 250 km).

» 6 Up iP 21 19 20
Ki iP 21 20 22
South coast of Turkey.

» 6 Ki iP 21 36 59

		μ	s
P	Z′	0.2	0.5

» 6 Up iP 23 09 07 C
i 23 09 14
iS 23 18 06

		μ	s
M	E	610	18
M	N	400	20
M	Z	910	20

△ = 7550 km = 68°.
Ki iP 23 08 21 C
iS 23 16 34

		μ	s
P	Z′	4.0	0.8
M	E	560	20
M	N	400	20
M	Z	760	20

△ = 6700 km = 60½°.
Sk iP 23 08 57 C
Gb iP 23 09 32
Kurile Islands.
Magn. = 8.0 (Up, Ki).

» 6 Ki iP 23 24 37

		μ	s
P	Z′	0.2	1.0

Sk iP 23 25 12
Gb iP 23 25 43
Kurile Islands.

1958 Nov	6	Sk	iP	23	27	14
		Gb	iP	23	27	43
		Kurile Islands.				
»	6	Gb	iP	23	58	15
		Kurile Islands.				
»	6	Gb	iP	23	59	56
»	7	Up	iP	00	04	35
		Kurile Islands.				
»	7	Up	iP	00	06	43
		Kurile Islands.				
»	7	Up	iP	00	23	33
				μ P	s z′	
				0.2	0.5	
		Ki	iP	00	22	47
		Sk	iP	00	23	25
		Gb	iP	00	23	57
		Kurile Islands.				
»	7	Gb	iP	00	32	53
»	7	Up	iP	00	33	14
»	7	Up	iP	00	34	31
		Ki	iP	00	33	33
		Gb	i(P)	00	34	23
		Kurile Islands.				
»	7	Up	iP	00	37	48
»	7	Up	iP	00	44	08
		Kurile Islands.				
»	7	Up	iP	00	47	20
				μ P	s z′	
				0.2	0.5	
		Ki	iP	00	46	34 D
				μ P	s z′	
				0.2	1.2	
		Sk	iP	00	47	10
		Gb	iP	00	47	43
			i(PcP)	00	48	04
		Kurile Islands.				
»	7	Up	iP	00	48	56
				μ P	s z′	
				0.3	0.9	
		Ki	iP	00	48	10
				μ P	s z′	
				0.1	1.0	
		Sk	iP	00	48	47
		Gb	iP	00	49	19
		Kurile Islands.				
»	7	Sk	iP	00	49	30
»	7	Up	iP	00	50	30

1958 Nov (cont.)	7	Up		μ P	s z′	
				0.1	0.7	
		Ki	iP	00	50	26
		Sk	iP	00	50	33
		Gb	iP	00	50	54 D
»	7	Up	iP	00	52	05
			i	00	52	20
		Ki	iP	00	51	19
		Sk	iP	00	51	54
		Kurile Islands.				
»	7	Up	iP	00	56	32
»	7	Up	iP	01	00	33
»	7	Up	iP	01	04	19 C
		Ki	iP	01	03	33
		Kurile Islands.				
»	7	Up	iP	01	12	23
			i	01	12	35
»	7	Up	iP	01	13	06
				μ P	s z′	
				0.2	0.7	
		Ki	iP	01	12	20
				μ P	s z′	
				0.1	1.4	
		Sk	iP	01	12	56
		Gb	iP	01	13	29 C
		Kurile Islands.				
»	7	Ki	i(P)	01	13	46
		Sk	iP	01	14	14
»	7	Up	iP	01	16	02
			i	01	16	11
				μ P	s z′	
				0.1	0.9	
		Ki	iP	01	15	15
		Sk	iP	01	15	51
		Gb	iP	01	16	25
		Kurile Islands.				
»	7	Sk	iP	01	17	41
»	7	Sk	iP	01	19	39
»	7	Up	iP	01	20	32
»	7	Up	iP	01	24	51 C
				μ P	s z′	
				0.1	0.7	
		Ki	iP	01	24	04
		Sk	iP	01	24	40
		Gb	iP	01	25	13
		Kurile Islands.				
»	7	Up	iP	01	25	41

1958 Nov (cont.)	7	Up		μ P	s z′	
				0.1	0.7	
		Ki	iP	01	24	55
		Sk	iP	01	25	30
		Gb	iP	01	26	03
		Kurile Islands.				
»	7	Up	iP	01	32	59
»	7	Up	iP	01	34	21
		Ki	iP	01	33	34
		Kurile Islands.				
»	7	Up	iP	01	46	47
				μ P	s z′	
				0.1	0.5	
		Ki	iP	01	46	01
		Sk	iP	01	46	34
		Gb	iP	01	47	08
		Kurile Islands.				
»	7	Up	iP	01	48	52
»	7	Up	iP	01	54	02
				μ P	s z′	
				0.1	0.5	
		Ki	iP	01	53	17
			i	01	53	40
				μ P	s z′	
				0.2	1.5	
		Sk	iP	01	53	52
		Gb	iP	01	54	24 C
			i	01	54	36
		Kurile Islands.				
»	7	Up	iP	01	56	09
			i	01	56	20
				μ P	s z′	
				0.2	0.9	
		Ki	iP	01	55	22
				μ P	s z′	
				0.1	1.0	
		Sk	iP	01	55	57
		Gb	iP	01	56	30
			i	01	56	42
		Kurile Islands.				
»	7	Up	iP	01	58	20
»	7	Ki	iP	01	58	45
		Sk	iP	01	59	20
		(Kurile Islands).				
»	7	Up	iP	02	03	30
»	7	Up	iP	02	04	57
»	7	Up	iP	02	06	41 D
				μ P	s z′	
				0.3	0.6	
		Ki	iP	02	05	55

1958 Nov (cont.)	7	Ki	i	02	06	50
				μ P	s z′	
				0.2	1.5	
		Sk	iP	02	06	31
		Gb	iP	02	07	03
		Kurile Islands.				
»	7	Up	iP	02	09	52
		Ki	iP	02	09	07 D
		Gb	iP	02	10	14 D
		Kurile Islands.				
»	7	Up	iP	02	17	39
»	7	Gb	i(P)	02	17	40
»	7	Up	iP	02	20	27
		Ki	iP	02	19	42
		Sk	iP	02	20	17
		Gb	iP	02	20	49
		Kurile Islands.				
»	7	Up	iP	02	21	21
				μ P	s z′	
				0.1	0.6	
		Ki	iP	02	20	35
				μ P	s z′	
				0.1	1.3	
		Sk	iP	02	21	11
		Gb	iP	02	21	42
		Kurile Islands.				
»	7	Up	iP	02	27	52
»	7	Up	iP	02	28	01
			i	02	28	16
		Ki	iP	02	27	16
		Sk	iP	02	27	51
		Gb	iP	02	28	23
		Kurile Islands.				
»	7	Up	iP	02	30	49
			i	02	31	02
»	7	Up	iP	02	35	37
			i	02	35	43
				μ P	s z′	
				0.1	0.7	
		Ki	iP	02	34	51
		Gb	iP	02	35	59
		Kurile Islands.				
»	7	Ki	iP	02	37	41
»	7	Up	iP	02	39	23
»	7	Up	iP	02	41	47
»	7	Up	iP	02	46	48
		(Kurile Islands).				

1958							
Nov	7	Up	eP		02	49	12
			i		02	49	25
		Ki	iP		02	48	36
		Kurile Islands.					
»	7	Up	iP		02	54	15
		Kurile Islands.					
»	7	Up	iP		03	01	56C
					μ	s	
			P	z′	0.2	0.8	
		Ki	iP		03	01	10C
					μ	s	
			P	z′	0.1	1.5	
		Sk	iP		03	01	46
		Gb	iP		03	02	17
			i		03	02	52
		Kurile Islands.					
»	7	Up	iP		03	37	59
		Ki	eP		03	37	22
		Kurile Islands.					
»	7	Up	iP		04	30	23
		Kurile Islands.					
»	7	Up	iP		04	52	02
		Ki	iP		04	52	42
»	7	Up	iP		05	10	58
					μ	s	
			P	z′	0.1	0.5	
			M	E	3.5	19	
			M	N	2.9	20	
			M	Z	3.5	17	
		Ki	iP		05	10	11
					μ	s	
			P	z′	0.1	1.0	
			M	E	5.5	18	
			M	N	2.9	18	
			M	Z	6.0	18	
		Sk	iP		05	10	47
		Gb	iP		05	11	18D
			i		05	11	33
		Kurile Islands.					
		Magn. = 5.9 (Up, Ki).					
»	7	Up	iP		05	58	18
		Ki	iP		05	57	32
		Kurile Islands.					
»	7	Up	iP		07	16	59
					μ	s	
			P	z′	0.1	0.5	
»	7	Up	iP		07	23	25
»	7	Up	iP		07	26	25
»	7	Up	iP		07	27	58C

1958							
Nov	7	Up	iP		07	51	42C
					μ	s	
			P	z′	0.4	0.6	
		Ki	iP		07	50	55C
					μ	s	
			P	z′	0.5	1.0	
		Sk	iP		07	51	31
		Gb	iP		07	52	03
		Kurile Islands.					
»	7	Up	iP		08	22	24
»	7	Up	iP		08	40	23
		Ki	iP		08	39	38
		Kurile Islands.					
»	7	Up	iP		09	27	34
»	7	Up	iP		10	20	50
		Ki	iP		10	20	04
		Kurile Islands.					
»	7	Up	iP		10	38	34
			iPcP		10	38	59
					μ	s	
			P	z′	0.1	0.5	
		Ki	iP		10	37	50
		Sk	iP		10	38	24
		Kurile Islands.					
»	7	Up	iP		10	40	25
					μ	s	
			P	z′	0.1	0.6	
		Ki	iP		10	39	39
					μ	s	
			P	z′	0.1	1.0	
		Sk	eP		10	40	16
		Gb	iP		10	40	45
		Kurile Islands.					
»	7	Up	iP		10	56	48
					μ	s	
			P	z′	0.1	0.5	
»	7	Up	iP		11	20	08
		Ki	eP		11	19	23
		Kurile Islands.					
»	7	Up	iP		11	35	28
			i(pP)		11	35	40
					μ	s	
			P	z′	0.1	0.6	
			M	E	2.5	19	
			M	N	1.9	18	
			M	Z	2.3	17	
		Ki	iP		11	34	41
			i(pP)		11	34	54
			iPcP		11	35	28
					μ	s	
			P	z′	0.3	1.0	
			M	E	2.2	17	

1958							
Nov	7	Ki	M	N	2.0	17	
(cont.)			M	Z	3.1	18	
		Sk	iP		11	35	17
			i(pP)		11	35	29
			i		11	36	49
		Gb	iP		11	35	48
			i(pP)		11	36	01
		Kurile Islands.					
		Magn. = 5.9 (Up, Ki).					
»	7	Up	iP		11	37	43
			i		11	37	55
		Gb	iP		11	38	08
		(Kurile Islands).					
»	7	Up	iP		11	42	09
					μ	s	
			P	z′	0.1	0.6	
		Ki	iP		11	41	23
		Sk	iP		11	41	59
		Kurile Islands.					
»	7	Up	iP		13	11	44C
»	7	Up	iP		14	01	48
		Ki	iP		14	01	01
		Kurile Islands.					
»	7	Up	iP		14	35	42
		Ki	iP		14	34	58
		Sk	eP		14	35	33
			i		14	35	57
		Kurile Islands.					
»	7	Up	iP		15	38	35
		Kurile Islands.					
»	7	Ki	iP		16	21	39
»	7	Up	iP		16	27	49
		Kurile Islands.					
»	7	Up	iP		17	07	22
		Kurile Islands.					
»	7	Up	iP		17	43	50
					μ	s	
			M	E	1.6	20	
			M	N	1.7	17	
			M	Z	2.1	20	
		Ki	iP		17	43	06
			i		17	43	20
					μ	s	
			M	E	2.2	18	
			M	N	1.1	20	
			M	Z	2.4	19	
		Gb	iP		17	44	09
		Kurile Islands.					
		Magn. = 5.5 (Up, Ki).					
»	7	Ki	eP		18	34	40
			e		18	35	43

1958							
Nov	7	Up	iP		19	06	14
»	7	Up	iP		19	25	37
			i		19	25	51
					μ	s	
			M	N	0.9	20	
			M	Z	1.7	20	
		Ki	eP		19	24	51
					μ	s	
			M	E	0.7	18	
			M	N	0.7	17	
			M	Z	1.1	17	
		Sk	eP		19	25	27
		Kurile Islands.					
»	7	Up	iP		19	29	09D
		Sk	i(P)		19	29	09
»	7	Up	iP		20	42	21C
		Kurile Islands.					
»	7	Up	iP		20	43	29
		Ki	iP		20	43	12
»	7	Up	iP		20	44	47
		Ki	iP		20	44	06
		Kurile Islands.					
»	7	Up	iP		20	52	28
		Ki	iP		20	51	41
		Kurile Islands.					
»	7	Ki	iP		21	22	15
»	7	Ki	eP		23	17	14
		Off east coast of Kamchatka.					
»	8	Up	iP		00	02	06
			i		00	02	19
					μ	s	
			P	z′	0.1	0.7	
		Ki	iP		00	01	20
		Kurile Islands.					
»	8	Up	iP		00	24	06
		Ki	iP		00	23	21
			i		00	23	34
		Kurile Islands.					
»	8	Ki	eP		03	11	43
		Kamchatka region.					
»	8	Up	iP		09	33	32C
			iS		09	42	12
					μ	s	
			P	E	0.8	1	
			P	N	2.0	1	
			P	z′	0.9	0.8	
			S	E	0.9	4	
			S	N	0.9	4	
			M	E	5.6	18	

1958 Nov (cont.)	8	Up	M	N	7.9	16	
			M	Z	11	17	
			△=7200 km=65°.				
		Ki	iP		09	32	40C
			e(S)		09	40	24
					μ	s	
			P	N	1.3	5	
			P	Z	2.1	5	
			P	Z′	2.3	1.1	
			S	N	0.6	10	
			M	E	5.5	21	
			M	N	4.1	20	
			M	Z	4.8	20	
			△=6350 km=57°.				
		Sk	iP		09	33	16
			i		09	33	29
		Gb	iP		09	33	53
		Off southeast coast of Kamchatka. Magn.=6.8 (Up, Ki).					
»	8	Up	iP		09	43	39
		Ki	iP		09	42	46
		Kurile Islands.					
»	8	Up	iP		10	56	10D
»	8	Up	iP		11	13	11
»	8	Up	iP		11	27	44
			i		11	27	57
		Ki	eP		11	26	56
		Kurile Islands.					
»	8	Up	iP		12	19	36
			iPcP		12	20	01
					μ	s	
			P	Z′	0.3	0.5	
		Ki	iP		12	18	50
					μ	s	
			P	Z′	0.2	1.0	
		Sk	iP		12	19	26C
		Gb	iP		12	19	57C
		Kurile Islands.					
»	8	Up	iP		13	06	45
					μ	s	
			P	Z′	0.1	0.6	
		Ki	eP		13	05	59
		Sk	iP		13	06	34
		Kurile Islands.					
»	8	Up	iP		13	27	45
		Ki	iP		13	26	59
		Kurile Islands.					
»	8	Up	iP		13	36	24
					μ	s	
			P	Z′	0.1	0.5	
		Ki	iP		13	35	38
		Kurile Islands.					

1958 Nov	8	Ki	iP		14	53	48
»	8	Ki	iP		14	56	06
		Kamchatka region.					
»	8	Up	iP		17	17	07
					μ	s	
			P	Z′	0.1	0.8	
		Ki	iP		17	17	16C
		Sk	iP		17	17	32
		Gb	eP		17	17	27
		Hindu Kush (h ~ 220 km).					
»	8	Ki	eP		17	27	15
		Aleutian Islands.					
»	8	Up	iP		18	51	03
		Ki	iP		18	50	11
		Off southeast coast of Kamchatka.					
»	8	Up	iP		19	48	19
					μ	s	
			P	Z′	0.1	0.6	
			M	N	1.1	20	
		Ki	iP		19	48	21C
					μ	s	
			P	Z′	0.1	0.9	
			M	E	0.9	18	
			M	N	0.6	18	
			M	Z	0.8	16	
		Sk	iP		19	48	36
		Andaman Islands.					
»	8	Up	iP		22	58	33
		Kurile Islands.					
»	9	Up	iP		00	13	58
		Ki				—	
					μ	s	
			M	E	1.2	18	
			M	N	0.7	18	
			M	Z	0.8	14	
		Kurile Islands.					
»	9	Ki	iP		00	35	36
»	9	Up	iP		02	00	56
			i		02	01	07
		Kurile Islands.					
»	9	Up	iP		03	25	54
		Ki	iP		03	25	09
					μ	s	
			M	E	1.1	16	
			M	N	0.4	15	
			M	Z	0.9	15	
		Sk	eP		03	25	44
			i		03	25	54
		Gb	iP		03	26	15
		Kurile Islands.					

1958 Nov	9	Up	iP		08	16	10C
					μ	s	
			P	Z′	0.2	0.9	
		Ki	iP		08	15	17C
					μ	s	
			P	Z′	0.1	0.9	
			M	N	0.6	17	
		Gb	iP		08	16	34
		Kamchatka.					
»	9	Up	i(P)		09	38	05
»	9	Up	i(P)		09	40	03
»	9	Up	iP		10	28	37
		Ki	iP		10	27	50
		Kurile Islands.					
»	9	Up	iP		10	30	14
		Kurile Islands.					
»	9	Ki	i(P)		11	31	31
»	9	Up	iP		14	44	24
		Ki	eP		14	43	37
		Kurile Islands.					
»	9	Up	iP		15	51	25
		Kurile Islands.					
»	9	Up	iP		18	04	01
					μ	s	
			M	N	0.7	20	
		Ki	iP		18	03	12
					μ	s	
			M	E	2.1	18	
			M	N	1.0	20	
		Sk	eP		18	03	53
			i		18	04	27
		Gb	iP		18	04	24
		Kurile Islands.					
»	9	Up	iP		21	15	54
		Ki				—	
					μ	s	
			M	E	0.5	16	
			M	Z	0.6	16	
		Kurile Islands.					
»	10	Up	iP		00	59	57C
		Kurile Islands.					
»	10	Gb	i(P)		10	45	24
			i		10	47	05
»	10	Up	eL		12	07	
					μ	s	
			M	E	1.3	20	
			M	N	0.8	21	
			M	Z	1.7	20	
		Ki	eL		12	04	

1958 Nov (cont.)	10	Ki				μ	s
			M	E	1.5	20	
			M	N	1.2	23	
			M	Z	1.7	22	
		Pacific Ocean.					
»	11	Up	iP		04	42	33
		Italy.					
»	11	Up	eL		12	03	
					μ	s	
			M	E	0.7	19	
			M	N	0.7	19	
			M	Z	1.1	21	
		Ki	eL		12	01	
					μ	s	
			M	E	0.9	16	
			M	N	0.5	16	
			M	Z	0.9	16	
		Off coast of Colima, Mexico.					
»	11	Ki	i(PP)		13	22	09
		(South of Tonga Islands).					
»	11	Up	iP		13	56	45
		Kurile Islands.					
»	11	Up	iP		17	58	59
		Southwest of Chagos Islands.					
»	11	Up	iP		18	03	38D
		Kurile Islands.					
»	11	Up	iP		19	45	37
»	11	Up	iP		22	03	27
		Kurile Islands.					
»	11	Up	eP		23	10	42
			iPP		23	10	56
			iS		23	13	25
			△=1650 km=15°.				
		Ki	eP		23	12	10
			eS		23	16	15
			i		23	17	32
			△=2500 km=22½°.				
		Carpathians.					
»	12	Ki	iP		04	10	13
		Off north coast of Luzon.					
»	12	Ki	e(P)		05	17	47
			i		05	18	21
»	12	Ki	iP		06	21	31
		Sk	iP		06	21	13
		Venezuela.					
»	12	Up	iPKP		10	58	27
		Ki	iPKP		10	58	16
		Solomon Islands (h ~ 100 km).					

1958							
Nov	12	Up	iP		17	55	19
			Kurile Islands.				
»	12	Up	iPKP		18	34	04
		Sk	iPKP		18	33	56C
			Kermadec Islands.				
»	12	Up	iP		19	27	32
			i		19	27	44
		Ki	iP		19	26	46
			Kurile Islands.				
»	12	Up	iP		20	34	33C
			iS		20	43	28
			i		20	43	42
			iScS		20	44	21
			iP′P′		21	02	45
					μ	s	
			P	N	1.5	3	
			P	Z	3.6	3	
			P	Z′	0.4	0.5	
			S	E	16	18	
			S	N	27	17	
			S	Z	17	18	
			P′P′	Z′	2.1	2.5	
			M	E	170	20	
			M	N	220	20	
			M	Z	230	20	
			△=7600 km=68½°.				
		Ki	iP		20	33	47
			iS		20	42	01
			iP′P′		21	02	59
			i		21	03	21
					μ	s	
			P	E	2.0	13	
			P	N	2.5	10	
			P	Z	6.4	10	
			P	Z′	1.6	1.8	
			S	E	13	16	
			S	N	19	16	
			S	Z	16	16	
			P′P′	Z′	2.0	2.5	
			M	E	200	19	
			M	N	150	19	
			M	Z	210	17	
			△∼6800 km∼61°.				
		Sk	iP		20	34	22
			i		20	36	34
			iP′P′		21	02	51
		Gb	iP		20	34	53
			Kurile Islands.				
			Magn.=7.0 (Up, Ki).				
			Within error limits of magnitude determination this is another confirmation of the law M—M¹=1.2 (found by M. Båth), where M = magnitude of main shock, M¹ = magnitude of largest aftershock. In this case M — M¹ = 1.0, using the magnitude				
1958							
Nov	12		determinations of Uppsala and Kiruna, and=1.25, using the magnitudes of Pasadena.				
(cont.)							
»	12	Up	iP		21	34	25
			Kurile Islands.				
»	12	Up	iP		23	10	40
		Ki	iP		23	09	53
			Kurile Islands.				
»	12	Up	iP		23	27	21
			i		23	27	28
»	12	Up	iP		23	43	06
			Kurile Islands.				
»	13	Up	iP		01	18	05
			Kurile Islands.				
»	13	Up	iP		03	07	33
					μ	s	
			P	Z′	0.1	0.5	
			M	E	2.2	17	
			M	N	2.6	18	
			M	Z	4.1	16	
		Ki	iP		03	06	50
					μ	s	
			P	Z′	0.1	1.3	
			M	E	2.9	15	
			M	N	1.7	17	
			M	Z	2.9	18	
		Sk	iP		03	07	24
		Gb	iP		03	07	54
			Kurile Islands.				
			Magn.=5.8 (Up, Ki).				
»	13	Up	iP		04	15	43
			iS		04	24	39
			iScS		04	25	35
					μ	s	
			P	Z′	0.1	0.5	
			M	E	4.0	20	
			M	N	5.4	20	
			M	Z	7.0	20	
			△=7600 km=68½°.				
		Ki	iP		04	14	55
					μ	s	
			P	Z′	0.1	1.0	
			M	E	4.8	18	
			M	N	2.8	18	
			M	Z	5.8	18	
		Sk	iP		04	15	32C
			iPcP		04	16	01
			i		04	17	49
		Gb	iP		04	16	04
			Kurile Islands.				
			Magn.=5.9 (Up, Ki).				

1958							
Nov	13	Up				—	
					μ	s	
			M	E	1.9	18	
			M	N	2.0	15	
		Ki	iP		06	09	46
					μ	s	
			M	E	1.6	18	
			M	N	1.2	15	
			Off west coast of Hokkaido, Japan.				
»	13	Up	iP		06	25	52
			Kurile Islands.				
»	13	Up	i(P)		07	28	44
»	13	Ki	iP		09	18	43
		Sk	eP		09	18	22
		Gb	eP		09	18	19
			Venezuela.				
»	13	Up	iP		10	05	00
			Kurile Islands.				
»	13	Ki	iP		10	41	38C
		Sk	iP		10	41	43
			iS		10	43	39
			Jan Mayen region.				
»	13	Up	iP		11	07	06
			Kurile Islands.				
»	13	Up	iP		16	28	10 D
			i		16	28	31
					μ	s	
			P	Z′	0.1	0.7	
		Ki	iP		16	28	12
			i		16	28	18
		Sk	iP		16	28	26
			i		16	28	49
		Gb	iP		16	28	24
			Nicobar Islands.				
»	13	Up	iP		23	28	34
			i		23	28	44
		Ki	eP		23	29	06
			Arabian Sea.				
»	13	Up	iP		23	58	37
		Sk	iP		23	58	32
			Honshu, Japan.				
»	14	Up	i(Sg)		04	25	40
			Local?				
»	14	Up	iP		05	45	58
					μ	s	
			P	Z′	0.1	0.8	
			M	E	2.2	17	
			M	N	2.4	18	
			M	Z	3.5	20	
		Ki	iP		05	45	12
1958							
Nov	14	Ki	i		05	45	25
(cont.)					μ	s	
			P	Z′	0.1	1.2	
			M	E	2.4	18	
			M	N	1.5	18	
			M	Z	3.2	17	
		Sk	iP		05	45	48
		Gb	iP		05	46	21 D
			i		05	47	02
			Kurile Islands.				
			Magn. = 5.7 (Up, Ki).				
»	14	Ki	iP		05	59	14
		Sk	iP		05	58	49
			i		05	59	05
			Guatemala (h∼150 km).				
»	14	Up	iP		14	02	40
			i		14	03	17
			iS		14	14	29
					μ	s	
			M	E	2.1	20	
			M	N	3.4	21	
			M	Z	3.1	20	
		Ki	iP		14	02	24C
			iSKS		14	12	52
			iS		14	13	57
					μ	s	
			P	Z′	0.2	1.0	
			M	E	3.8	21	
			M	N	1.6	18	
			M	Z	3.8	20	
		Sk	iP		14	02	47
		Gb	iP		14	02	55
			Banda Sea.				
			Magn.=6.2 (Up, Ki).				
»	14	Up	iP		14	07	11
		Ki	iP		14	06	39
					μ	s	
			P	Z′	0.2	1.5	
		Sk	iP		14	06	53
			i		14	07	21
		Gb	i(P)		14	07	33
»	14	Ki	iP		15	34	47C
		Sk	iP		15	34	41
			Nicaragua (h∼100 km).				
»	14	Up	iP		20	29	58
»	15	Up	iP		00	26	56
			Kurile Islands.				
»	15	Up	iP		05	47	39 D
			iS		05	51	37
					μ	s	
			P	Z′	0.2	0.6	
			S	E	0.9	2	
			S	N	1.0	2	
			S	Z′	0.4	1.3	

1958
Nov 14 (cont.) Up △=2450 km=22°.
Ki iP 05 48 53
i 05 49 11
μ s
P z′ 0.2 1.3
M E 0.8 9
Sk iP 05 48 19
Gb iP 05 47 23 D
Greece.

» 15 Gb e(Pg) 08 11 10
iSg 08 11 17
Local blast?

» 15 Up iP 09 11 51
eS 09 20 42
μ s
P z′ 0.3 0.5
M E 2.5 21
M N 3.5 24
M Z 3.1 20
Ki iP 09 11 06
iS 09 19 21
i! 09 21 21
μ s
P z′ 0.8 0.7
S E 1.1 10
M E 3.5 20
M N 2.3 20
M Z 2.4 20
Sk iP 09 11 41
Gb iP 09 12 10
Kurile Islands.
Deeper than normal.
Magn.=6.8 (Up, Ki).

» 15 Up iP 09 21 41
Gb iP 09 22 01
Kurile Islands.

» 15 Up iP 10 04 00
Kurile Islands.

» 15 Up iP 23 31 25
i 23 31 34
Kurile Islands.

» 16 Up iP 04 58 36
i 04 58 50
Gb i(P) 04 59 10
Kurile Islands.

» 16 Up iP 05 02 41
Kurile Islands.

» 16 Up iP 05 51 52
Kurile Islands.

» 16 Up iP 06 26 35C
i(pP) 06 26 48

1958
Nov 16 (cont.) Up
μ s
P z′ 0.1 0.9
Gb iP 06 26 56
i(pP) 06 27 09
Kurile Islands.

» 16 Gb iPKP 18 21 54
Loyalty Islands.

» 16 Up iP 20 33 23
μ s
P z′ 0.1 1.0
Outer Mongolia-China border.

» 16 Up iP 21 23 28
Gb iP 21 23 48
Kurile Islands.

» 16 Up iP 21 57 22
Ki iP 21 56 51
Gb iP 21 57 38
Bonin Islands (h ~ 500 km).

» 17 Up iP 15 45 30
i(pP) 15 45 43
μ s
P z′ 0.1 0.6
Gb iP 15 45 51
i(pP) 15 46 03
Kurile Islands.

» 17 Ki iP 16 29 20
Samar, Philippine Islands.

» 18 Up iP 07 56 24
μ s
P z′ 0.2 0.8
Ki iP 07 55 31
Gb iP 07 56 39
Aleutian Islands.

» 18 Up iP 07 57 11
μ s
P z′ 0.3 0.9
Ki iP 07 56 19
Gb iP 07 57 27
Aleutian Islands.

» 18 Up iP 08 06 00
Aleutian Islands.

» 18 Up iP 08 07 35
μ s
P z′ 0.1 0.8
Ki iP 08 06 42
Gb iP 08 07 50
Aleutian Islands.

» 18 Up iP 08 10 51
μ s
P z′ 0.1 0.7

1958
Nov 18 (cont.) Gb iP 08 11 06
Aleutian Islands.

» 18 Up iP 18 44 10
i 18 44 22
μ s
P z′ 0.1 0.7
Ki iP 18 43 23
μ s
P z′ 0.1 1.0
Sk iP 18 43 59
Gb iP 18 44 30
Kurile Islands.

» 19 Ki iPKP 01 52 40
Argentina (h ~ 600 km).

» 19 Up iP 03 20 02
Kurile Islands.

» 19 Up iPKP 04 13 40
i 05 13 46
μ s
PKP z′ 0.3 0.6
Ki iPKP 04 13 19
Sk iPKP 04 13 35
Gb iPKP 04 13 51
i 04 14 04
Kermadec Islands.

» 19 Up iP 05 30 01
Ki iP 05 29 14
Sk eP 05 29 50
Gb iP 05 30 23
Kurile Islands.

» 19 Up iP 05 36 14
Ki iP 05 35 23 D

» 19 Up iP 09 34 53
i(pP) 09 35 08
μ s
P z′ 0.3 0.6
M E 4.0 20
M N 3.2 18
M Z 3.1 18
Ki iP 09 34 07
i(pP) 09 34 23
iPP 09 36 21
μ s
P z′ 0.3 1.4
M E 4.5 19
M N 3.0 20
M Z 6.1 17
Sk iP 09 34 43C
i(pP) 09 34 56
Gb iP 09 35 16
i 09 36 06
Kurile Islands.

» 19 Up iP 12 45 53
Kurile Islands.

1958
Nov 19 Up iP 14 51 59

» 19 Up iP 15 12 16 D
i(pP) 15 12 35
iPcP 15 13 03
μ s
P z′ 0.1 0.5
Ki iP 15 11 20
i(pP) 15 11 39
iPcP 15 12 33
μ s
P z′ 0.3 1.0
Sk iP 15 11 48 D
iPcP 15 12 47
Gb iP 15 12 27 D
i(pP) 15 12 47
iPcP 15 13 09
Near Kenai Island, Alaska
(h ~ 60 km).

» 19 Up iP 18 49 04 D
Ki iP 18 48 37
Sk iP 18 49 18

» 20 Up eSn 00 12 12
i 00 12 52
iSg 00 12 54
μ s
Sg z′ 0.1 0.5
△=620 km=5.6°.
Ki eLg1 00 14 15
△=950 km=8.6°.
Sk ePn 00 10 42
iLg1 00 11 35
iSg 00 11 39
iRg 00 11 53
△=380 km=3.4°.
Gb eSn 00 11 57
iLg1 00 12 10
iSg 00 12 14
△=500 km=4.5°.
Norway, 61.4°N, 7.0°E.
Origin time=00 09 47

» 20 Up iP 05 47 12C
μ s
P N 0.4 2
P Z 0.7 2
P z′ 0.6 0.9
M E 3.5 19
M N 3.6 20
M Z 5.9 17
Ki iP 05 46 19C
μ s
P z′ 0.5 1.0
M E 4.3 16
M N 3.4 15
M Z 5.5 16
Sk iP 05 46 56
Gb iP 05 47 30
i 05 47 39

1958
Nov 20 (cont.) Near east coast of Kamchatka.
Magn. = 6.5 (Up, Ki).

»	20	Up	iP		05	48	53 C
					μ	s	
			P	z′	0.4	1.0	
		Ki	iP		05	48	01 C
					μ	s	
			P	z′	0.2	1.0	
		Sk	iP		05	48	37
		Gb	iP		05	49	12 C

Near east coast of Kamchatka.

»	20	Up	iP		06	42	32 D
		Gb	iP		06	42	49

Kurile Islands.

»	20	Up	iP		06	45	39
					μ	s	
			P	z′	0.1	0.8	
		Gb	iP		06	45	56

Kurile Islands.

»	20	Up	iP		14	29	04
			i		14	30	00
					μ	s	
			M	E	2.4	20	
			M	N	2.4	18	
			M	Z	3.4	18	
		Ki	iP		14	28	14
					μ	s	
			M	E	2.4	18	
			M	N	1.7	17	
			M	Z	1.7	16	
		Gb	iP		14	29	23 D

Kurile Islands.

»	20	Ki	iP		15	58	08
»	20	Up	iP		17	52	19
			i		17	52	28
		Gb	iP		17	52	39

Kurile Islands.

»	20	Up	iP		23	14	41

Aleutian Islands.

»	21	Up	iP		01	51	47 C
					μ	s	
			P	z′	0.1	0.5	
		Ki	iP		01	51	00
		Sk	iP		01	51	37
		Gb	iP		01	52	09

Okhotsk Sea (h ~ 400 km).

»	21	Up	iP		05	07	24 C
					μ	s	
			P	z′	0.1	0.6	
		Ki	iP		05	07	33 C
					μ	s	
			P	z′	0.1	0.6	

1958
Nov 21 (cont.)

		Sk	iP		05	07	49
		Gb	iP		05	07	45

Hindu Kush (h ~ 200 km).

»	21	Up	iP		07	15	03
		Gb	iP		07	15	12
»	21	Up	iP		07	20	46 C
»	21	Up	iP		15	09	00

Kurile Islands.

»	22	Up			—		
					μ	s	
			M	E	1.2	22	
			M	N	2.4	26	
			M	Z	1.4	20	
		Ki	iP		00	18	10
					μ	s	
			M	E	2.2	18	
			M	N	1.3	16	
			M	Z	2.7	18	

South of Java.

»	22	Up	iP		02	31	37
»	22	Ki	iP		20	59	40
					μ	s	
			P	z′	0.1	1.0	
		Sk	eP		20	59	46
			iS		21	01	36

Jan Mayen region.

»	23	Up	iPKP		03	07	58
		Sk	iPKP		03	07	48
		Gb	iPKP		03	08	00

Chatham Islands region.

»	23	Ki	iP		11	25	57
			i		11	26	19
»	23	Up	iP		12	08	23

Near coast of Honshu, Japan.

»	23	Up	iP		13	12	24
			i		13	12	30
		Ki	iP		13	13	29
		Sk	iP		13	13	05
		Gb	eP		13	12	19
			iPP		13	12	40

Turkey.

»	23	Up	iP		13	53	35

Kurile Islands.

»	23	Up	iP		20	25	24 D
			i		20	25	28
					μ	s	
			P	z′	0.1	0.5	
		Ki	iP		20	25	21
		Sk	iP		20	25	43

1958
Nov 23 (cont.)

		Gb	iP		20	25	46

Tibet.

»	23	Up	iP		20	30	43
»	23	Up	iP		22	30	29
			iPcP		22	30	56
					μ	s	
			P	z′	0.1	0.7	
		Ki	iP		22	29	37 D
		Sk	iP		22	30	07
		Gb	iP		22	30	44

Aleutian Islands.

»	23	Up	iP		23	48	36
			i		23	49	02
					μ	s	
			P	z′	0.1	0.7	
		Ki	iP		23	47	43
		Sk	iP		23	48	14
		Gb	iP		23	48	51

Aleutian Islands.

»	24	Up	iPKP		07	08	19
		Ki	iPKP		07	08	31
					μ	s	
			PKP	z′	0.2	1.5	

Drake Passage.

»	24	Up	iP		07	25	49 D
»	24	Up	iP		14	21	51
»	24	Up	iP		17	55	32
		Ki	iP		17	55	14
		Sk	iP		17	55	35

Near east coast of Mindanao.

»	24	Up	iP		20	37	07

Kurile Islands.

»	24	Ki	e(P)		22	37	59
			e		22	38	17

Leeward Islands.

»	25	Up	iP		04	10	00
		Ki	iP		04	10	01
		Sk	eP		04	10	23

Nepal.

»	25	Up	iP		09	24	37 C
					μ	s	
			P	z′	0.1	0.9	
		Ki	iP		09	23	49
					μ	s	
			P	z′	0.1	1.0	
		Sk	iP		09	24	21

Near east coast of Honshu, Japan.

1958
Nov 26 (cont.)

		Up	iP		00	17	47
		Ki	iP		00	18	12

Georgia, U.S.S.R.

»	26	Gb	i(P)		08	04	14
»	26	Up	i(P)		08	38	18
»	26	Up	iP		11	05	08
					μ	s	
			P	z′	0.1	0.9	
		Ki	iP		11	05	33
		Sk	iP		11	05	34

Indian Ocean.

»	26	Ki	i		12	22	43
			eSg		12	23	17
		Sk	eSg		12	24	10
»	26	Ki	e		12	33	44
			eSg		12	34	17
		Sk	iSg		12	35	14
»	26	Ki	e		12	36	19
			iSg		12	36	54
		Sk	eSg		12	37	46
»	26	Ki	e		12	40	36
			eSg		12	41	10
		Sk	e		12	40	57
			iSg		12	42	03
»	26	Ki	e		12	58	47
			iSg		12	59	23
		Sk	e		12	59	09
			eSg		13	00	15
»	26	Up			—		
					μ	s	
			M	E	0.9	14	
			M	N	0.5	15	
			M	Z	1.2	14	
		Ki	iP		22	11	04
					μ	s	
			M	E	1.2	14	
			M	N	0.7	13	
			M	Z	0.6	12	

(Arctic Ocean.)

»	28	Up	iP		00	54	14
»	28	Up	e(P)		02	31	18
		Ki	iP		02	28	37
»	28	Up	i(P)		07	29	17
»	28	Up	iP		08	02	08
»	28	Up	iP		21	02	04
»	29	Up	iP		03	45	55 C
		Ki	eP		03	45	06

1958							
Nov 29	Gb	iP		03	46	17	
(cont.)	Kurile Islands.						
» 29	Up	iPKP		05	06	18	C
				μ	s		
		PKP	z′	0.1	0.7		
	Sk	iPKP		05	06	10	
	Gb	iPKP		05	06	28	
	Kermadec Islands region.						
» 29	Gb	i(P)		08	34	54	
» 29	Gb	i(P)		10	06	33	
» 29	Up	iP		11	37	47	
				μ	s		
		P	z′	0.1	0.5		
» 29	Up	iP		11	45	09	
		i		11	46	38	
» 29	Ki	iP		13	01	42	
» 30	Up	iP		01	44	41	
		iPP		01	47	33	
				μ	s		
		P	z′	0.4	0.9		
		PP	z′	0.1	1.1		
		M	E	2.5	16		
		M	N	3.2	18		
		M	z	3.7	18		
	Ki	iP		01	44	04	D
		iPP		01	46	41	
				μ	s		
		P	z′	0.5	1.0		
		PP	z′	0.4	1.8		
		M	E	4.1	17		
		M	N	2.7	17		
		M	z	3.1	15		
	Sk	iP		01	44	36	
		iPP		01	47	26	
	Gb	iP		01	45	01	
		i		01	45	24	
	South of Honshu, Japan.						
	Magn. = 6.5 (Up, Ki).						
» 30	Up	iP		02	07	28	
		i		02	07	42	
	Ki	iP		02	06	52	
	South of Honshu, Japan.						
» 30	Up	i(Sg)		03	25	51	
	Ki	e(Sg)		03	26	08	
	Sk	e(Sg)		03	25	02	
	Local?						
» 30	Up	iP		09	48	37	
				μ	s		
		P	z′	0.1	0.8		
	Ki	iP		09	48	14	
	Outer Mongolia.						

1958							
Dec 1	Up	eL		03	58		
				μ	s		
		M	E	0.7	17		
		M	N	0.8	18		
		M	z	1.6	18		
	Ki	eL		04	00		
				μ	s		
		M	N	0.5	15		
	California-Mexico border.						
» 2	Up	iP		01	23	30	C
		i		01	23	42	
				μ	s		
		P	z′	0.1	0.9		
	Ki	iP		01	22	44	
				μ	s		
		P	z′	0.2	1.0		
		M	E	0.3	15		
		M	N	0.5	17		
		M	z	0.7	17		
	Sk	iP		01	23	20	D
	Gb	iP		01	23	51	
		i		01	24	03	
	Kurile Islands.						
» 2	Ki	e(P)		09	22	39	
		i		09	22	44	
	(Southern Iran).						
» 2	Ki	iP		20	27	10	
	Near south coast of Honshu, Japan.						
» 2	Up	iP		23	11	32	C
				μ	s		
		P	z′	0.1	0.5		
	Ki	eP		23	12	43	
	Sk	iP		23	12	12	
	Gb	iP		23	11	19	
	Greece.						
» 3	Up	iP		00	43	25	C
				μ	s		
		P	z′	0.1	0.5		
	Ki	iP		00	44	39	
	Sk	iP		00	44	05	
	Gb	iP		00	43	14	
	Greece.						
» 3	Up	iP		02	33	23	
		i		02	33	36	
	Ki	iP		02	33	22	
	Sk	iP		02	33	42	
	Nepal.						
» 3	Up	iP		08	21	24	
» 3	Up	iP		09	41	50	D
				μ	s		
		P	z′	0.1	0.5		
	Ki	iP		09	41	17	

1958							
Dec 3	Ki			μ	s		
(cont.)		P	z′	0.1	0.6		
	Sk	iP		09	41	47	C
	South of Honshu, Japan (h ~ 400 km).						
» 3	Up	iP		10	00	38	
		i		10	00	44	
		eS		10	10	36	
				μ	s		
		P	z′	0.1	0.8		
		S	E	0.5	6		
		M	E	3.9	16		
		M	N	2.4	17		
		M	z	5.0	16		
	△ = 8900 km = 80°.						
	Ki	iP		10	00	18	
		iS		10	09	59	
				μ	s		
		P	z′	0.3	1.0		
		S	E	1.0	12		
		S	N	0.3	10		
		M	E	2.6	19		
		M	N	2.1	18		
		M	z	1.5	13		
	△ = 8500 km = 76½°.						
	Sk	iP		10	00	37	
	Near north coast of Luzon.						
	Magn. = 6.0 (Up, Ki).						
» 3	Up	iP		10	12	53	
	Kurile Islands.						
» 3	Up	iP		16	12	08	C
				μ	s		
		P	z′	0.2	0.5		
	Ki	iP		16	11	37	C
				μ	s		
		P	z′	0.3	0.8		
	Sk	iP		16	12	06	C
	Gb	iP		16	12	28	C
	South of Honshu, Japan (h ~ 550 km).						
» 3	Up	iP		21	41	47	
	Hindu Kush (h ~ 220 km).						
» 4	Ki	iP		10	35	49	
	Gulf of Aden.						
» 4	Ki	eP		19	55	11	
» 4	Ki	iP		21	14	22	
» 5	Up	iP		06	33	52	
» 5	Up	i(P)		14	11	33	
» 5	Ki	eP		18	38	45	
» 6	Up	eP		09	46	41	
		i		09	46	53	

1958							
Dec 6	Up			μ	s		
(cont.)		P	z′	0.1	0.7		
	Ki	iP		09	46	45	
	Sk	iP		09	46	31	C
	Gb	iP		09	46	29	
	South of Panama.						
» 6	Ki	iP		15	35	15	
	Near north coast of Iceland.						
» 7	Up	iP		00	16	45	
	Ki	iP		00	15	50	
				μ	s		
		P	z′	0.1	1.0		
	Komandorskie Islands region.						
» 7	Up	iP		01	21	21	D
	Ki	iP		01	20	59	
				μ	s		
		P	z′	0.2	1.3		
	Off south coast of Formosa.						
» 7	Ki	iP		01	55	32	
				μ	s		
		P	z′	0.1	1.1		
	Off south coast of Formosa.						
» 7	Up	eP		02	59	21	
	Ki	iP		02	59	04	
	Sk	iP		02	59	25	
	Talaud Islands.						
» 7	Ki	i(P)		09	03	06	
	South of Formosa.						
» 7	Up	iP		09	51	01	
» 7	Up			—			
				μ	s		
		M	E	1.2	19		
		M	N	1.1	17		
	Ki	iS		18	21	22	
				μ	s		
		M	E	1.8	18		
		M	N	1.0	19		
		M	z	1.3	19		
	Off coast of Mexico.						
» 7	Gb	iP		22	07	11	D
» 7	Up	iP		22	36	51	
» 8	Up	iPKP		03	29	03	D
	Ki	iPKP		03	28	49	C
				μ	s		
		PKP	z′	0.1	0.6		
	Sk	iPKP		03	29	00	
	New Hebrides Islands (h ~ 200 km).						

1958
Dec 8 Up iP 07 26 40
i 07 26 51
i 07 27 02
μ s
P z′ 0.1 0.5
Ki iP 07 26 26
Sk iP 07 26 52
China.

» 8 Up iP 11 53 19
Ki iP 11 52 34
Kurile Islands.

» 8 Up iP 12 19 27
μ s
P z′ 0.2 0.7
M E 1.5 19
M N 2.6 21
M Z 3.1 18
Ki iP 12 18 41
μ s
M E 2.0 17
M N 1.7 20
M Z 1.9 18
Sk iP 12 19 17
Gb iP 12 19 49 D
Kurile Islands.
Magn. = 6.0 (Up, Ki).

» 8 Ki i(Sg) 16 07 23
Northern Finland.

» 9 Ki iP 09 00 55
North coast of Rhodes Island.

» 9 Up iSn 15 26 59
iS* 15 27 11
iSg 15 27 24
μ s
Sg z′ 0.1 0.5
△ = 530 km = 4.8°.
Sk e(Sg) 15 29 19
Gb ePg 15 25 44
iSg 15 26 26
△ = 330 km = 3.0°.
South Baltic, 55.3°N, 15.3°E.
Origin time = 15 24 45.

» 9 Up i(Sn) 15 44 07
iSg 15 44 40
Gb eSg 15 43 43
South Baltic, 55.3°N, 15.3°E.
Origin time = 15 42 01.

» 9 Up —
μ s
M E 1.7 16
M N 1.6 15
M Z 2.8 16
Ki iP 20 48 08
Dodecanese Islands.

1958
Dec 10 Up iP 03 51 18 C
iPP 03 53 00
i 04 00 01
i 04 02 00
μ s
P z′ 0.5 1.0
Ki iP 03 51 27 C
i 03 51 36
μ s
P z′ 0.8 1.2
M N 0.4 13
Sk iP 03 51 44 C
iPP 03 53 29
Gb iP 03 51 38 C
iPP 03 53 26
Hindu Kush (h ~ 150 km).
Magn. = 6.5 (Up, Ki).

» 10 Up iPKP 07 22 17
i 07 22 25
i 07 22 38
iPP 07 26 05
i! 07 32 30
μ s
PKP z′ 0.6 0.7
PP Z 2.2 3
M E 2.5 19
M N 1.9 18
M Z 8.1 25
Ki iPKP 07 22 06
i 07 22 32
ipPKP 07 23 22
iPP 07 25 32
μ s
PKP E 2.7 6
PKP N 3.5 6
PKP Z 19 6
PKP z′ 3.0 0.8
PP N 1.7 7
PP Z 3.9 7
M E 4.5 21
M N 2.3 19
M Z 3.3 20
Sk iPKP 07 22 16
i 07 22 22
iPKP2 07 22 31
Gb iPKP 07 22 22
i 07 22 33
iPKP2 07 22 55
Off North Island, New Zealand
(h ~ 300 km).
Magn. = 6.9 (Up, Ki).

» 10 Up iP 14 52 02 D
Ki iP 14 51 45
μ s
P z′ 0.1 1.0
Sk iP 14 52 06
Off south coast of Mindanao
(h ~ 200 km).

1958
Dec 10 Up i(P) 22 02 12
μ s
M E 2.8 18
M N 3.2 20
M Z 2.6 19
Ki iP 22 01 40
eS 22 11 50
e 22 15 53
μ s
S N 0.4 11
M E 2.5 19
M N 2.3 18
M Z 1.9 16
△ = 9050 km = 81½°.
Gulf of California.
Magn. = 5.9 (Up, Ki).

» 11 Up iP 06 10 23
Gb iP 06 10 47
Kurile Islands.

» 11 Ki eP 15 44 54
South of Honshu, Japan.

» 11 Ki iP 18 49 41
i 18 49 45
μ s
M E 1.0 19
M N 0.7 18
South of Honshu, Japan.

» 13 Up iP 01 27 36
Aleutian Islands.

» 13 Up iPKP 09 26 27
Ki iPKP 09 26 42
μ s
PKP z′ 0.2 1.0
Sandwich Islands region.

» 13 Up iP 14 39 38
i 14 39 51
Ki iP 14 38 54
Kurile Islands.

» 14 Up eL 08 28
μ s
M E 1.4 18
M Z 2.6 19
Ki eL 08 18
μ s
M E 1.6 21
M N 1.0 19
M Z 1.7 22
South Pacific Ocean.

» 14 Up iP 18 04 47
Off south coast of Honshu,
Japan (h ~ 100 km).

1958
Dec 15 Up iP 11 57 28 C
i(pP) 11 57 41
μ s
P z′ 0.1 0.6
M E 1.2 18
M N 0.8 17
Ki iP 11 56 42
μ s
P z′ 0.2 1.0
M E 1.4 17
M N 1.0 17
M Z 0.8 16
Sk iP 11 57 17
Kurile Islands (h ~ 60 km).

» 15 Up iPKP 13 00 17
i 13 00 22
μ s
PKP z′ 0.3 0.9
Ki ePKP 13 00 00
Sk iPKP 13 00 11 C
Gb iPKP 13 00 25
Kermadec Islands.

» 16 Up iP 02 43 29
Ki eP 02 42 44
Kurile Islands.

» 16 Up iPKP 03 38 05
South of Fiji Islands.

» 16 Up i(P) 10 14 12
i 10 14 22
iSg 10 14 26
μ s
Sg z′ 0.3 0.5
Local. Seismic?

» 16 Up i 14 57 49
iSg 14 57 53
μ s
Sg z′ 0.4 0.6
Local. Seismic?

» 16 Ki iP 21 46 47
South of Panay Island,
Philippine Islands.

» 17 Up iP 02 36 41 C
Ki iP 02 35 48
μ s
P z′ 0.1 1.0
Sk eP 02 36 13
i 02 36 29
Gb iP 02 37 00
Off coast of Alaska Peninsula.

» 17 Up iP 08 05 02

» 17 Up iP 08 14 39

1958								
Dec	17	Up	iP		09	08	14	C
					μ	s		
			P	z′	0.1	0.7		
		Ki	iP		09	07	40	
		Sk	iP		09	08	11	
			iPP		09	11	02	
		Gb	iP		09	08	37	
		South of Honshu, Japan (h ∼ 400 km).						
»	17	Up	i		09	58	55	
			iSg		09	59	00	
					μ	s		
			Sg	z′	0.3	0.5		
		Local. Seismic?						
»	17	Up	i(P)		14	07	50	
			i		14	08	00	
			iSg		14	08	04	
					μ	s		
			Sg	z′	0.2	0.5		
		Local. Seismic?						
»	17	Up	iP		15	45	59	
					μ	s		
			M	E	2.4	18		
			M	N	3.4	19		
			M	z	7.2	16		
		Ki	eP		15	45	29	
					μ	s		
			M	E	2.6	15		
			M	N	1.7	14		
			M	z	2.0	14		
		Ryukyu Islands. Magn. = 5.8 (Up, Ki).						
»	17	Ki	e(P)		22	14	47	
»	18	Ki	iPKP		01	58	32	
		Sk	iPKP		01	58	41	
		Loyalty Islands region (h ∼ 100 km).						
»	18	Up	iP		07	38	30	
					μ	s		
			P	z′	0.1	0.5		
		Ki	iP		07	38	11	C
		Sk	iP		07	38	35	
		Gb	iP		07	38	49	
		Near north coast of Luzon, Philippine Islands.						
»	18	Up	iP		07	41	11	
					μ	s		
			P	z′	0.1	0.5		
		Ki	iP		07	41	46	
		Sk	iP		07	41	44	
		Gb	iP		07	41	23	
		Near south coast of Iran.						
»	18	Up	iP		08	32	28	
			i		08	33	27	

1958								
Dec	18	Ki	eP		08	31	50	
(cont.)		Sk	iP		08	30	56	
			i		08	34	25	
»	18	Up	i(P)		10	29	45	
			i		10	29	55	
			iSg		10	29	59	
					μ	s		
			Sg	z′	0.4	0.5		
		Local. Seismic?						
»	18	Up	iP		23	12	11	
		Ki	iP		23	13	18	
		Sk	eP		23	12	54	
		Near south coast of Turkey.						
»	19	Up	iPn		00	52	07	
			iP*		00	52	18	
			i		00	52	58	
			iSn		00	53	20	
			iS*		00	53	38	
			iSg		00	53	52	
					μ	s		
			P*	z′	0.1	0.5		
			Sn	z′	0.4	0.7		
			Sg	E	3.2	1		
			Sg	N	1.3	1		
			Sg	z	2.6	1		
			Sg	z′	2.4	0.8		
		△ = 680 km = 6.1°.						
		Ki	iPn		00	51	19	
			iPg		00	51	27	
			iSg		00	52	09	
			i		00	52	26	
					μ	s		
			Pg	z′	0.7	0.6		
			Sg	z′	1.6	0.5		
		(△ = 320 km = 2.9°).						
		Sk	iPn		00	51	12	D
			iSg		00	51	46	
		△ = 240 km = 2.2°.						
		Gb	iPn		00	52	33	
			iSn		00	54	07	
			i		00	54	51	
			iSg		00	54	55	
		△ = 890 km = 8.0°.						
		Sweden-Norway border region, 65.8°N, 14.4°E.						
		Origin time = 00 50 32. Felt.						
»	19	Up	iP		03	32	38	
			eS		03	36	54	
					μ	s		
			S	N	1.0	7		
			M	N	0.9	17		
			M	z	1.7	14		
		△ = 2650 km = 24°.						
		Ki	iP		03	33	41	
			eLg1		03	43	40	

1958								
Dec	19	Ki			μ	s		
(cont.)			M	E	0.7	15		
			M	N	0.6	16		
			M	z	0.8	16		
		Gb	iP		03	32	36	
		Western Turkey.						
»	19	Up	iPn		07	57	56	
			i		07	58	15	
			i		07	58	47	
			iSn		07	59	08	
			iS*		07	59	25	
			iSg		07	59	42	
					μ	s		
			Sn	z′	0.2	0.5		
			Sg	E	2.2	1		
			Sg	N	0.8	1		
			Sg	z	1.3	1		
			Sg	z′	0.6	0.5		
		△ = 680 km = 6.1°.						
		Ki	ePn		07	57	08	
			iP*		07	57	14	
			iS*		07	57	52	
			eSg		07	58	00	
					μ	s		
			P*	z′	0.3	0.7		
			S*	z′	0.4	0.7		
			Sg	z′	0.9	0.6		
		(△ = 320 km = 2.9°).						
		Sk	iPn		07	57	00	D
			iSg		07	57	35	
		△ = 240 km = 2.2°.						
		Gb	iPn		07	58	26	
			iP*		07	58	44	
			iSn		07	59	55	
			iS*		08	00	22	
			iSg		08	00	44	
		△ = 890 km = 8.0°.						
		Sweden-Norway border region, 65.8°N, 14.4°E.						
		Origin time = 07 56 22. Felt.						
»	19	Up	i(P)		09	51	04	
			i(Sg)		09	51	21	
		Sk	e(Sg)		09	52	59	
		Local.						
»	19	Ki	i(P)		10	32	37	
		Sk	e(P)		10	31	44	
»	19	Up	eL		12	06		
					μ	s		
			M	E	1.5	23		
			M	z	2.0	23		
		Southern Peru (h ∼ 100 km).						
»	19	Up	iP		18	47	28	
					μ	s		
			P	z′	0.3	1.0		
			M	E	1.5	17		

1958								
Dec	19	Up	M	N	1.0	18		
(cont.)			M	z	2.5	18		
		Ki	iP		18	46	35	
					μ	s		
			M	E	1.4	17		
			M	N	1.1	16		
			M	z	1.2	17		
		Gb	iP		18	47	43	D
		Aleutian Islands.						
»	20	Up	iP		19	16	29	
»	20	Up	iP		19	32	26	
					μ	s		
			P	z′	0.1	0.8		
			M	E	9.1	16		
			M	N	5.3	17		
			M	z	14	16		
		Ki	iP		19	31	57	
					μ	s		
			M	E	7.0	15		
			M	N	3.4	14		
			M	z	4.5	15		
		Sk	iP		19	32	26	
		Ryukyu Islands region. Magn. = 6.1 (Up, Ki).						
»	21	Up	iP		04	26	03	
		Ki	iP		04	26	40	
		Sk	eP		04	26	37	
		Near south coast of Iran.						
»	21	Up	iP		05	54	04	C
			i		05	54	16	
			eS		06	00	03	
			i		06	02	30	
			i!		06	03	58	
			iLi		06	05	38	
			iLg1		06	07	24	
					μ	s		
			P	E	1.2	5		
			P	z	2.8	5		
			P	z′	0.7	1.0		
			S	N	2.4	6		
			M	E	45	11		
			M	N	92	12		
			M	z	55	11		
		△ = 4450 km = 40°.						
		Ki	iP		05	53	53	
			i		05	53	56	
			iS		05	59	50	
			iSS		06	02	41	
			i		06	03	47	
			iLg1		06	07	06	
					μ	s		
			P	z′	0.5	0.7		
			S	E	3.3	13		
			S	N	2.8	10		
			M	E	47	13		
			M	N	30	10		
			M	z	41	12		

1958
Dec 21 (cont.) Ki △=4350 km=39°.
Sk iP 05 54 21
i 06 04 49
Gb iP 05 54 31
Western Sinkiang Province, China.
Magn.=6.4 (Up, Ki).
The channel waves are very clear.

» 21 Up iP 10 17 03

» 22 Ki i(P) 02 49 54
Sk iP 02 50 27
Central Alaska.

» 22 Ki iP 03 22 38
Sk iP 03 22 10
East of Crete.

» 22 Up iP 08 14 36

» 22 Up iPKP 08 15 30
Tonga Islands region.

» 22 Up iPKP 19 40 47
Sk ePKP 19 40 39
Kermadec Islands region.

» 23 Sk eP 06 40 20
Gb iP 06 40 14
Near west coast of Colombia.

» 23 Sk iP 07 15 27
Aleutian Islands.

» 23 Ki i(P) 19 05 16

» 23 Up iPKP 19 35 56
Sk iPKP 19 35 52
Kermadec Islands region.

» 23 Up ePKP 19 54 47
Sk iPKP 19 54 44
Kermadec Islands region.

» 23 Ki iPg 21 51 56
iSg 21 52 05
i(Rg) 21 52 07
μ s
(Rg) z′ 1.5 1.5
△=80 km=0.7°.
Sk iSg 21 54 20
△=540 km=4.9°.
Possibly explosion at Gällivare, Sweden. Origin time=21 51 41.

» 24 Up iP 05 14 41
Ki iP 05 14 48
Sk iP 05 15 06
Hindu Kush.

1958
Dec 24 Up eP 07 22 43
μ s
M E 1.0 16
M N 1.4 16
M Z 2.3 17
Gb iP 07 22 37
Off south coast of Turkey.

» 25 Up ePP 08 25 18
eSKSP 08 35 04
μ s
PP Z 0.7 7
M E 2.2 21
M N 4.2 23
M Z 4.3 24
△~12800 km~115°.
Ki ePP 08 24 40
μ s
PP Z 0.7 10
M E 3.7 20
M N 1.5 19
M Z 3.2 19
△~12200 km~110°.
Sk iPKP 08 24 17
Gb ePKP 08 24 22
i 08 24 37
New Britain (h~60 km).
Magn.=6.3 (Up, Ki).

» 25 Up iP 09 22 53
iPcP 09 23 20
μ s
P z′ 0.1 0.6
Sk iP 09 22 31
Gb iP 09 23 09
Aleutian Islands.

» 25 Up iP 18 41 10 D
Sk iP 18 41 45 D
Near south coast of Iran.

» 26 Up iPKP 06 09 26
Sk ePKP 06 09 17
Gb iPKP 06 09 33 C
South of Fiji Islands (h~600 km).

» 27 Ki iP 11 10 23

» 28 Ki iP 05 25 36
Sk iP 05 25 22 C
Gb iP 05 25 18
Northwestern Venezuela.

» 28 Up iP 05 43 40 C
iPP 05 45 38
iS 05 50 52
μ s
P E 0.8 1
P Z 1.7 1
P z′ 0.9 0.6

1958
Dec 28 (cont.) Up PP Z 0.7 4
M E 11 15
M N 6.9 14
M Z 14 15
△=5650 km=51°.
Ki iP 05 43 44 C
iS 05 51 00
eSS 05 54 58
μ s
P E 1.1 4
P Z 1.4 5
P z′ 1.4 1.2
S E 1.5 11
S N 1.6 14
M E 6.2 14
M N 7.7 11
M Z 5.9 11
△=5700 km=51½°.
Sk iP 05 44 02 C
Gb iP 05 44 01 C
iPP 05 46 01
Nepal-India border.
Magn.=6.9 (Up, Ki).

» 28 Up iP 08 35 14
Ki eP 08 35 17
Nepal-India border.

» 28 Up iP 11 50 39
iS 11 53 29
μ s
M E 1.4 18
M N 0.8 15
M Z 1.0 15
△=1700 km=15½°.
Ki iP 11 49 30
i 11 49 37
μ s
P z′ 0.3 0.6
M E 1.2 16
M N 0.9 16
Sk iP 11 49 35
i 11 49 37
iS 11 51 33
△=1200 km=11°.
Gb eP 11 50 44
Jan Mayen.

1958
Dec 29 Up iP 22 50 52
i(pP) 22 51 28
μ s
P z′ 0.1 0.6
Ki iP 22 50 52
i(pP) 22 51 31
Northern Sumatra.

» 30 Up iP 10 32 24
Aleutian Islands.

» 30 Ki iP 16 25 34
Southeast of Rhodes Island.

» 31 Up eP 00 47 40

» 31 Up iPKP 02 04 35
μ s
PKP z′ 0.1 0.7
Ki ePKP 02 04 23
i 02 04 27
Sk iPKP 02 04 29
Gb iPKP 02 04 45 D
Tonga Islands region (h~400 km).

» 31 Up iP 03 54 17 C
μ s
P z′ 0.3 0.7
Ki iP 03 54 21
μ s
P z′ 0.3 1.0
Sk iP 03 54 40
Gb iP 03 54 39 C
Northern India.

» 31 Up iP 04 00 07 D

» 31 Up iP 07 57 22

» 31 Up iP 10 41 42
i 10 41 55
Ki iP 10 40 54
Sk eP 10 41 35
i 10 41 46
Kurile Islands (h~100 km).

» 31 Ki iP 19 25 03