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Complete Sm. N.

Seismological Bulletin 1956

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

By

Markus Båth

Published by the Seismological Laboratory, Uppsala

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Seismological Bulletin 1956

By

Markus Båth

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; Grenet-Coulomb Z′ (short-period); Benioff variable reluctance E,N,Z (long-period) and E′,N′,Z′ (short-period).

Instrumental constants for 1956:

a) Wiechert

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

Instrument	Date 1956	T_0 sec	V	ε	r mm
Wiechert E	Jan 3	10.3	188	4.4	1.0
	July 2	10.4	189	4.2	1.2
» N	Jan 3	9.5	188	3.8	1.0
	July 2	9.2	197	3.8	1.0

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

b) Grenet-Coulomb

T_0 =seismometer free period,
T_g =galvanometer free period,
k_g =transference factor,
L =reduced pendulum length,
l_0 =recording distance (from galvanometer lense to record),
V_{max}=max. dynamic magnification.

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Instrument	Date	T_0 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).

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

c) Benioff

In addition to T_0, T_g, l_0, and V_{max}, already defined, we introduce the following notation:

$2\sigma_g l_0$=transference factor, where σ_g=a quantity depending on the electrodynamic properties of the transducer and the galvanometer (Benioff, 1932; Chakrabarty, 1949; Båth, 1959).

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′	Feb 7	1.0	0.2	1.561×10^7	239200
	July 10	1.0	0.7	2.090×10^6	88310
» N′	Feb 7	1.0	0.2	1.300×10^7	199200
	July 10	1.0	0.7	2.363×10^6	99840
» Z′	Feb 7	1.0	0.2	1.147×10^7	176100
	July 17	1.0	0.7	1.316×10^6	55580

Damping is critical both for seismometers and galvanometers. As is evident from the table, the galvanometers of 0.2 sec period, first used, were replaced in July, 1956, by galvanometers of 0.7 sec period, which improved the records. 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′.

In the bulletin only the readings from Benioff E, N, Z and Grenet Z′ are reported as a rule. Readings from Benioff Z′ have been included as a complement to Grenet Z′, while the other records have not been read in general.

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 1956:

a) Grenet-Coulomb

Notation, see Uppsala b).

Instrument	Date	T_0 sec	T_g sec	k_g sec^{-1}	L cm	l_0 cm	V_{max}
Grenet-Coulomb Z′	June 5, 1955	1.4	0.8	15494	12.2	101.5	12820

Damping is critical for seismometer and galvanometer.

b) Galitzin

In addition to the notation above we introduce
μ^2=seismometer damping (Galitzin, 1914).

Instrument	Date 1955	T_0 sec	T_g sec	μ^2	k_g sec^{-1}	L cm	l_0 cm	V_{max}
Galitzin E	June 4	12.1	11.8	+0.06	69.2	16.0	135.6	740
» N	June 4	13.0	11.8	+0.20	74.1	15.2	136.0	920
» Z	June 4	8.2	11.9	+0.07	205.1	41.0	135.6	690

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′.

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Instrumental constants for 1956:

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 critical.

This station began its operation in January, 1956. The establishment of the Skalstugan station was made possible by means of funds from the Knut and Alice Wallenberg Foundation and from the Swedish Natural Science Research Council.

General remarks

This publication is the continuation of the earlier "Observations séismographiques" for Uppsala (1904—1955, with exception for June, 1905—June, 1906, which was not published) and for Kiruna (1951—1955). Starting with this bulletin the readings from all seismograph stations in Sweden will be published together in one and the same volume. Apart from a change of the language used, there is a different presentation of the readings. An enormously increased number of records and readings has compelled us to limit the information to just that which is necessary for computation of earthquake location, time, and magnitude. In addition, especially pronounced phases are given and remarkable features of the records are mentioned. For information beyond this, everybody interested is welcome to write to us. All records are stored at Uppsala, and all correspondence should be addressed: Seismological Laboratory, 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 Dr. S. Mühlhäuser, Mrs. K. Holmström, Mrs. M. Nilsson, Mrs. I. Granath, and Mrs. B. Malmstedt. Mr. K.-E. Heikkilä and Mr. S. Persson were in charge of the daily routine work at Kiruna and Skalstugan 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

1956 Jan	1	Up	iPn	04	55	59	
			iPg	04	56	03	
			iSn	04	56	18	
			iSg	04	56	20	
			△=170 km=1.5°.				
			Felt at Söderhamn (61.3° N, 17.1° E), Sweden.				
			Origin time=04 55 31.				
»	1	Up	iP	07	28	46	
»	1	Up	iP	09	12	03	
			i	09	12	13	
		Ki	iP	09	11	55	
			Sinkiang, China.				
»	1	Up	iP	14	18	49	
		Ki	iP	14	18	16	
»	1	Up	ePP	23	27	13	
			i	23	27	46	
		Ki	iP	23	22	18	C
			ePKP	23	26	21	
			iSKS	23	32	39	
			iPKKP	23	38	11	
					μ	s	
			SKS E		2.1	6	
			M N		2.1	24	
			△=11550 km=104°.				
			Timor Island region.				
»	2	Up	iP	01	42	08	D
			i	01	42	15	
					μ	s	
			P z′		0.2	1.0	
		Ki	iP	01	42	10	D
			Nicobar Islands region.				
»	2	Ki	eP	04	44	10	
			Off north coast of Luzon, Philippine Islands.				
»	2	Up	iP	08	51	39	
»	2	Up	i(P)	09	41	57	
			Possibly near earthquake.				
»	2	Up	iPKP	09	46	16	
			iSKP	09	49	01	
					μ	s	
			SKP z′		0.1	1.0	

1956 Jan (cont.)	2	Ki	iSKP	09	48	38	
					μ	s	
			SKP z′		0.1	1.0	
			Fiji Islands.				
			Deep (h ~ 600 km).				
»	2	Up	iP	13	30	27	
»	2	Up	i(P)	18	04	18	
»	3	Up	iP	02	49	47	
		Ki	i(P)	02	51	11	
»	3	Up	iP	05	57	06	
»	3	Up	iP	10	52	19	C
					μ	s	
			P z′		0.1	0.7	
		Ki	iP	10	51	33	
					μ	s	
			P z′		0.2	1.5	
			Southern Kurile Islands.				
»	3	Up	iP	13	14	48	
			Aleutian Islands.				
»	3	Up	i(P)	14	49	20	
»	3	Up	iP	15	51	50	
			Kurile Islands.				
»	3	Up	e(P)	20	37	47	
			Seismic?				
»	3	Up	iP	23	35	41	
					μ	s	
			P z′		0.2	1.3	
			Unimak Island, Alaska.				
»	4	Up	iP	12	25	06	
			Near west coast of Greece.				
»	4	Up	e(P)	20	28	12	
			i	20	28	31	
		Ki	iP	20	28	18	
			iPP	20	29	10	
			Caspian Sea.				
»	4	Up	eP	20	33	25	
»	5	Up	iPKP	01	13	21	
			Argentina-Chile border region.				

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1956
Jan 5 Up iP 17 09 44
» 5 Ki e(P) 18 53 14
Seismic?
» 5 Ki eP 20 28 58
iS 20 30 23
eT 20 35 09
μ s
S z′ 0.1 1.0
△=850 km=7½°.
Arctic Ocean.
» 5 Up iP 22 42 44
Southern Kurile Islands.
» 5 Up e(P) 22 54 02
» 6 Up iP 04 39 44
» 6 Up i(P) 05 43 58
Seismic?
» 6 Up iP 05 49 47
Off coast of Portugal.
» 6 Up iP 07 10 19C
i 07 10 30
μ s
P z′ 0.4 1.0
Ki iP 07 09 26
Aleutian Islands.
» 6 Up iP 12 20 17
i 12 20 19
iS 12 23 57
i! 12 27 13
μ s
P N 1.8 4
P E 2.1 4
P z′ 0.9 1.8
S E 3.1 8
M E 17 13
M N 17 17
M z 28 16
△=2200 km=20°.
Ki iP 12 21 36
i 12 22 43
i 12 28 20
iLi 12 28 48
i 12 31 47
μ s
P z′ 0.2 1.1
M E 6.8 7
M N 3.7 10
Aegean Sea.
Magn.=6.0 (Up, Ki).
» 6 Up iP 14 57 33
iS 15 01 13
i 15 01 34
μ s
P z′ 0.5 1.7
△=2150 km=19½°.

1956
Jan 6 Ki iP 14 58 46C
(cont.) i 14 59 16
i(Lgl) 15 06 37
μ s
P z′ 0.1 1.1
Black Sea.
» 6 Up iP 15 49 22
» 6 Up iP 18 02 35
μ s
P z′ 0.5 1.0
Ki iP 18 01 42
μ s
P z′ 0.1 0.9
Aleutian Islands.
» 6 Up iP 18 15 32
Ki eP 18 14 39
» 6 Up iP 22 36 24C
i 22 36 36
μ s
P z′ 0.3 1.4
Ki iP 22 35 45
μ s
P z′ 0.1 1.1
Off east coast of Honshu, Japan.
» 6 Up iP 23 28 24
» 7 Up iP 09 27 29
Ki iP 09 26 35
Off east coast of Kamchatka.
» 7 Up iP 10 27 02
μ s
P z′ 0.2 1.0
Ki iP 10 26 09
Aleutian Islands.
» 7 Up iP 10 43 20
μ s
P z′ 0.3 1.0
Ki iP 10 42 27 D
Aleutian Islands.
» 7 Up iP 11 02 45
μ s
P z′ 0.1 1.0
Ki iP 11 01 51
Aleutian Islands.
» 7 Up iP 11 22 33
μ s
P z′ 0.1 1.0
Ki iP 11 21 40
Aleutian Islands.
» 7 Up iP 12 16 57
» 7 Up iP 16 50 24
μ s
P z′ 0.2 1.0

1956
Jan 7 Ki iP 16 49 28
(cont.) μ s
P z′ 0.3 1.0
Yukon, Canada.
» 7 Ki eP 17 13 31
» 7 Up iP 19 42 27
Ki iP 19 42 14
Near north coast of Celebes.
» 8 Up iP 07 24 20
eS 07 34 52
e 07 35 17
μ s
M E 5.0 19
M N 4.5 20
M z 9.9 19
△~9800 km~88°.
Ki iP 07 24 04C
iScS 07 34 51
μ s
P z′ 0.1 1.3
M E 4.3 16
M N 3.4 20
M z 6.8 21
Mexico.
Magn.=6 (Up, Ki).
The amplitude of ScS at Kiruna is remarkably large.
» 8 Up iPKP 19 05 12
New Britain region.
» 8 Ki eP 20 58 17
» 8 Up iPKP 21 12 41
iPP 21 12 57
iSKS 21 19 01
i! 21 19 18
iS 21 20 16
μ s
PKP E 1.9 6
PKP N 3.1 6
PKP z′ 0.7 2.0
PP z 6.2 6
S N 5.2 12
M E 15 21
M N 5.6 22
M z 19 20
△~11800 km~106°.
Ki ePKP 21 12 44
iPP 21 13 04
i 21 13 16
e(SKS) 21 19 37
iS 21 20 40
iPS 21 22 31
μ s
PP z′ 0.2 1.5
S N 6.7 12
M E 9.1 20

1956
Jan 8 M N 4.6 18
(cont.) M z 12 22
△~12000 km~108°.
Northern Chile.
Magn.=7.0 (Up, Ki).
» 8 Ki iP 21 24 13
» 9 Up iP 00 47 45
i 00 47 49
» 9 Up iP 00 58 39
Ki iP 00 57 54C
» 9 Up iP 01 19 23
Ki iP 01 18 36
Aleutian Islands.
» 9 Up iP 05 28 01
» 9 Up iP 08 12 24C
μ s
P z′ 0.2 1.0
Ki iP 08 11 39
μ s
P z′ 0.1 1.0
Near north coast of Hokkaido, Japan.
» 9 Up iPKP 08 15 52
i 08 15 55
μ s
PKP z′ 0.2 1.0
Ki iPKP 08 15 30
Fiji Islands region.
» 9 Up iP 11 43 29
Ki iP 11 43 30
» 9 Up iPKP 12 24 11
iPKP 12 24 12
iPKP 12 24 14
iSKP 12 26 55
i 12 27 15
iSKKP 12 35 27
μ s
PKP z 3.1 5
PKP z′ 0.5 1.8
SKP z′ 0.5 1.3
SKKP z′ 0.5 1.5
M E 1.5 17
△~15700 km~141°.
Ki e(PKP) 12 23 49
iPKP 12 23 55
iPKP 12 24 04
iSKP 12 26 37
iPKS 12 27 33
ipPKS 12 30 00
isPKS 12 30 50
μ s
PKP z 2.0 4
PKP z′ 3.2 3.0

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1956
Jan 9 (cont.)

	SKP	z′	0.5	1.5	
	PKS	E	1.5	5	
	PKS	N	1.2	5	
	M	E	2.5	21	

△ ~ 14800 km ~ 133°.
Fiji Islands region. Deep (h ~ 650 km). The first PKP is clear, but very weak at both stations. The amplitudes of PKP refer to the second PKP for Uppsala and the third for Kiruna.

»	9	Ki	eP	13	55	17
				μ	s	
		M	E	2.9	19	
		M	N	1.6	20	
		M	z	5.6	22	
»	9	Up	eP	14	08	57
»	9	Ki	iP	14	18	18
»	9	Ki	iP	14	34	27
»	9	Ki	eP	15	39	46
»	9	Up	iP	15	50	08
»	9	Ki	eP	16	03	58
»	9	Ki	iP	16	36	50
»	9	Up	iP	17	14	33
		Ki	iP	17	14	21
				μ	s	
		P	z′	0.2	1.5	

Mexico.

»	9	Ki	e(P)	22	29	29
»	9	Up	iP	23	57	12
		Ki	eP	23	58	21
»	10	Up	eP	06	15	08
			i	06	15	37
»	10	Up	e(P)	08	19	37

Seismic?

»	10	Up	e(PKP)	09	12	02
			iPKP	09	12	09
			iPKP	09	12	19
			i	09	12	39
			ePKS	09	16	09
			eSKKS	09	28	37
			eSS	09	34	20
				μ	s	
		PKP	z	5.2	5	
		PKP	z′	1.6	2.5	
		M	E	51	25	
		M	N	46	24	
		M	z	69	24	

1956
Jan 10 (cont.)

△ ~ 15950 km ~ 143½°.

Ki	ePKP	09	11	53	
	e	09	12	36	
	e	09	14	55	
	i!	09	15	01	
	iPKS	09	15	43	
		μ	s		
	PKS	N	8.7	15	
	M	E	44	23	
	M	N	25	21	
	M	z	39	20	

△ ~ 15050 km ~ 135½°.
Tonga Islands region.
Magn. = 7.3 (Up, Ki).
The initial PKP-phases are of very small amplitude and indefinite beginning, especially at Uppsala. The amplitude of PKP (Uppsala) refers to the third phase.

»	10	Up	iPKP	09	46	15
			i	09	46	22
				μ	s	
			PKP z′	0.2	1.3	

Tonga Islands region.

»	10	Up	iP	10	25	51
»	10	Up	iPKP	10	38	00
				μ	s	
			PKP z′	0.1	1.1	

Tonga Islands region.

»	10	Up	eP	12	41	03
			i	12	41	21
		Ki	eP	12	42	24
»	10	Up	eP	12	43	41
		Ki	iP	12	43	18

Off coast of Oregon, U.S.A.

»	10	Up	iP	15	42	32

Mexico.

»	10	Up	iP	17	47	49
		Ki	iP	17	47	06
»	10	Up	e(P)	18	31	11
»	10	Up	iP	19	40	49
»	10	Up	iP	21	00	31
»	10	Up	iPKP	21	37	39

South of Tonga Islands.

»	10	Up	iP	21	52	26
		Ki	iP	21	50	20
»	10	Ki	iP	22	12	27

1956
Jan 10

	Up	iPKP	22	13	41	
			μ	s		
		P z′	0.2	1.0		

Tonga Islands region.

»	11	Up	iP	03	39	47
»	11	Up	i(PKP)	06	00	13
				μ	s	
		(PKP) z′		0.2	1.2	
	Ki	iPKP	05	59	41D	
			μ	s		
		PKP z′	0.1	1.3		

North Island, New Zealand.

»	11	Up	iP	06	21	56
			i(pP)	06	22	04
			i	06	28	07
			(P of new shock?)			
			i	06	29	06
			eS	06	31	44
				μ	s	
		P	z	4.4	5	
		P	z′	0.4	1.1	
		(pP)	z′	1.7	1.5	
		M	E	9.4	18	
		M	N	10	20	
		M	z	15	18	
		△ ~ 8600 km ~ 77½°.				
	Ki	iP	06	21	57D	
		i(pP)	06	22	06	
		eS	06	31	49	
			μ	s		
		P	z′	0.2	1.4	
		(pP)	z′	0.8	1.5	
		S	E	2.0	9	
		S	N	2.6	9	
		M	E	14	17	
		M	N	9.6	22	
		M	z	13	17	
		△ ~ 8600 km ~ 77½°.				

Nicobar Islands.
Magn. = 6.3 (Up, Ki).

»	11	Up	iP	06	42	41
			i	06	42	49
				μ	s	
		P	z′	0.1	1.0	
	Ki	iP	06	42	43C	
»	11	Up	iP	06	50	31

Off south coast of Honshu, Japan.

»	11	Up	iP	07	22	43
				μ	s	
		P	z′	0.1	1.0	
	Ki	eP	07	22	42	
		i	07	22	55	

Nicobar Islands.

1956
Jan 11

	Up	iPKP	11	05	07	
			μ	s		
		PKP z′	0.1	1.0		
	Ki	ePKP	11	04	55	

Kermadec Islands region.

»	11	Up	e(P)	11	26	01
		Ki	e(P)	11	25	59
»	11	Up	iP	13	21	11
»	11	Ki	iP	19	41	20
»	11	Up	eP	20	40	57
»	11	Up	iP	22	24	38

Pakistan.

»	11	Up	e(P)	22	55	06
			i	22	57	31

Indefinite beginning.

»	11	Up	e(P)	23	14	34

Seismic?

»	12	Up	iP	00	01	20

Aegean Sea.

»	12	Up	iP	01	19	20
				μ	s	
		P	z′	0.1	1.0	
»	12	Up	iP	02	34	14
»	12	Up	iP	02	35	54
»	12	Up	iPKP	02	39	39 D
				μ	s	
		PKP	z′	0.1	0.7	

Tonga Islands region.

»	12	Up	iP	03	24	01
»	12	Up	iP	05	15	02
			i	05	15	13
			i	05	19	03
»	12	Ki	eP	05	47	29
»	12	Up	iP	05	49	08C
			iLgl	05	52	42
			iLg2	05	53	03
			i(PcP)	05	54	54
				μ	s	
		P	N	0.7	2	
		P	z	2.2	3	
		P	z′	1.2	1.6	
		M	E	22	6	
		M	N	9.2	7	
		M	z	18	7	
	Ki	iP	05	50	50C	

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1956
Jan 12 (cont.)

	i	05	50	59
	iS	05	54	41
	iSS	05	55	12
	i(Lg1)	05	56	41
	iLg1	05	57	03
	i(Lg2)	05	57	19

		μ	s
P	z′	0.4	1.2
S	E	2.9	5
S	N	1.8	5
M	E	34	14
M	N	9.8	7
M	z	9.9	10

△=2350 km=21°.
Hungary. Magn.=6.0 (Ki).
The channel waves are exceptionally clear.

» 12 Up iP 05 59 40

		μ	s
P	z′	0.2	1.2

» 12 Up iPKP 06 20 54
iPKP 06 21 05

		μ	s
PKP	z′	0.1	0.9

Tonga Islands region.

» 12 Up iPKP 06 29 51
iPKP 06 30 03

		μ	s
PKP	z′	0.2	1.0

Ki ePKP 06 29 50
Tonga Islands region.
The second PKP phase (Up) has the largest amplitude, given here.

» 12 Ki eP 06 48 20

» 12 Ki eP 07 24 55

» 12 Up eP 11 52 13
Ki iP 11 51 44

» 12 Up iP 12 29 01
i 12 29 05
Ki e(P) 12 28 33

» 12 Up iP 12 50 08

» 12 Ki eP 14 38 18

» 12 Up e(P) 21 02 07

» 12 Up iP 22 44 22

» 12 Up iP 23 06 53
i 23 07 07

		μ	s
P	z′	0.1	1.1

» 13 Up iPKP 01 04 33

1956
Jan 13 (cont.)

		μ	s
PKP	z′	0.1	1.0

Kermadec Islands region.

» 13 Up iPKP 02 24 50
Tonga Islands region.

» 13 Up iP 02 41 09

» 13 Up iP 02 54 10C

		μ	s
P	z′	0.1	1.0

» 13 Up iPKP 03 22 14
Tonga Islands region.

» 13 Up iPKP 03 24 23
Tonga Islands region.

» 13 Up iP 03 37 22C

		μ	s
P	z′	0.2	1.2

Ki iP 03 36 26
Sk eP 03 37 07
Off east coast of Kamchatka.

» 13 Up iP 03 37 52D
eS 03 46 05

		μ	s
P	z′	0.4	1.5
S	N	1.0	10
M	E	4.8	20
M	N	3.6	20
M	z	7.0	20

△=6650 km=60°.
Ki iP 03 36 55C
eS 03 44 23

		μ	s
P	z′	0.3	1.0
S	E	1.5	10
S	N	0.9	10
M	E	7.4	19
M	N	4.9	20
M	z	6.1	20

△=5850 km=52½°.
Sk iP 03 37 32
Off east coast of Kamchatka.
Magn.=6.1 (Up, Ki).

» 13 Up iP 04 48 24

» 13 Up iPKP 06 35 49

		μ	s
PKP	z′	0.1	1.2

Ki ePKP 06 35 41

		μ	s
PKP	z′	0.1	1.3

Sk iPKP 06 35 50
South Pacific.

» 13 Up iPKP 12 32 13

1956
Jan 13 (cont.)

		μ	s
PKP	z′	0.3	1.0

Ki ePKP 12 31 52
Tonga Islands region.

» 13 Up iP 20 05 36
Greece.

» 14 Ki iP 07 38 31

» 14 Ki iP 08 21 29

» 14 Up iP 14 19 47
eS 14 29 01

		μ	s
P	z′	0.2	1.1
M	E	5.9	18
M	N	3.8	18
M	z	6.6	19

Ki eP 14 18 53
iP 14 18 56
i 14 19 12
ePcS 14 23 36
eS 14 27 10

		μ	s
P	z′	0.1	1.0
S	E	1.0	16
M	E	3.4	18
M	N	3.2	17
M	z	5.8	18

△=6800 km=61°.
Aleutian Islands.
Magn.=5.9 (Up, Ki).

» 14 Up iP 14 35 47C

		μ	s
P	z′	0.3	1.0

Ki iP 14 35 03C

		μ	s
P	z′	0.2	1.2

Off east coast of Hokkaido, Japan.

» 14 Up iP 17 51 33

» 14 Ki iP 18 44 19
Mid-Atlantic Ocean.

» 15 Up eP 00 15 34

» 15 Ki eP 01 36 14
South of Guam.

» 15 Ki e(P) 01 42 15

» 15 Up iP 09 22 50
Ki eP 09 23 51

» 15 Up iPKP 10 36 21
i 10 36 32

		μ	s
PKP	z′	0.2	1.3

Tonga Islands region.

1956
Jan 15 Up iP 15 13 19

» 15 Up iPKP 19 01 17
Tonga Islands.

» 15 Up iP 21 15 27C

		μ	s
P	z′	0.1	0.9

Ki iP 21 14 41
Kurile Islands.

» 16 Up iPKP 02 18 49
New Ireland region.
Intermediate depth (h ~ 150 km).

» 16 Up iP 23 51 03
iPP 23 54 51
iSKS 00 01 33
eS 00 02 11
iPS 00 03 33

		μ	s
P	E	3.6	14
P	z	12	14
PP	E	8.4	20
PP	z	14	20
PP	z′	0.3	1.5
SKS	E	7.7	10
S	N	22	22
M	E	26	19
M	N	21	20
M	z	44	19

△~10550 km~95°.
Ki iP 23 51 00C
i(P) 23 51 05
iPP 23 54 49
i(PP) 23 54 59
iSKS 00 01 38
iS 00 02 02

		μ	s
P	E	4.2	14
P	z	12	14
(P)	z′	0.7	1.9
PP	E	5.0	9
PP	z	5.2	9
(PP)	z′	1.2	2.3
SKS	E	8.5	9
SKS	N	2.2	9
S	E	19	10
S	N	23	20
M	E	79	25
M	N	32	24
M	z	99	24

△=10450 km=94°.
Sk iP 23 50 51
iPP 23 54 28
△~10200 km~92°.
Near coast of Ecuador.
Magn.=7.0 (Up, Ki).

» 17 Ki eL 08 54

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1956
Jan 17 (cont.)

				μ s	
	M	E	2.1	21	
	M	N	1.3	19	
	M	Z	3.4	21	

Pacific Ocean.

»	17	Up	e	11 51	02
		Ki	iP	11 50	53
»	17	Ki	e(P)	12 54	06
»	17	Ki	e(P)	14 39	04
»	17	Ki	e(P)	17 51	29
»	17	Ki	ePKP	19 18	59

Solomon Islands region.

»	17	Ki	e(P)	19 29	16
»	18	Ki	e(P)	03 49	00
»	18	Ki	e(P)	05 10	43
»	18	Ki	e(P)	07 27	26
»	18	Ki	e(P)	07 47	39
»	18	Up	e	08 36	08

		μ	s
M	E	5.1	25
M	N	1.8	20
M	Z	6.1	23

Northern Chile.

»	18	Ki	e(P)	11 12	42
»	18	Up	eP	14 32	48
»	18	Ki	iP	19 48	34
»	19	Ki	iP	06 23	03
»	19	Up	iP	08 50	08
		Ki	iP	08 49	36

South of Honshu, Japan.
Deep (h ~ 500 km).

»	19	Ki	iP	14 17	39
		Sk	iP	14 17	41
»	19	Up	eP	19 59	42

		μ	s
M	E	1.3	14
M	N	2.6	18
M	Z	3.1	18

		Ki	eP	19 59	42

		μ	s
M	E	1.0	16
M	N	1.8	18
M	Z	0.8	14

Nepal-Tibet border.

1956
Jan 20

		Ki	e(P)	00 24	20
»	20	Up	iP	03 49	35
		Ki	iP	03 48	59

South of Honshu, Japan.
Deep.

»	20	Up	iP	04 44	24

Kurile Islands.

»	20	Ki	iP	05 13	18

Aleutian Islands.

»	20	Ki	e(P)	05 35	41
»	20	Ki	e(P)	06 29	23
»	20	Ki	e(P)	07 27	30
»	20	Ki	iP	22 27	53

		μ	s
P	z′	0.1	1.0

»	21	Up	i(Sn)	01 53	37
			i	01 53	42
			i(S*)	01 54	08
		Ki	ePg	01 51	45
			iSg	01 52	14

		μ	s
Sg	z′	0.1	0.8

△ = 240 km = 2.2°.

		Sk	ePg	01 52	06
			iSg	01 52	46

△ = 340 km = 3.1°.
Swedish Lapland, 66.0°N, 17.6°E. Origin time = 01 51 02. Felt at Arjeplog, Sweden.

»	21	Ki	iP	06 49	42
»	21	Up	iP	09 55	36
		Ki	eP	09 56	53
		Sk	iP	09 56	19

Greece.

»	21	Up	eP	11 02	10
»	21	Up	iPKP	12 42	26

		μ	s
PKP	z′	0.1	1.0

		Ki	ePKP	12 42	08
			iPP	12 44	37
			i	12 44	40

		μ	s
PP	z′	0.1	1.0

Tonga Islands region.

»	21	Ki	iP	14 08	11
		Sk	eP	14 08	14
»	21	Up	iP	17 46	05

1956
Jan 21 (cont.)

				μ s	
	P	z′	0.3	1.3	
	Ki	iP	17 46	00	

		μ	s
P	z′	0.2	1.2

	Sk	iP	17 46	21	
		i	17 46	28	

Assam-Burma border.
Magn. = 6.1 (Up, Ki).

»	22	Ki	iP	01 00	19
		Sk	iP	01 00	47

Kodiak Island region, Alaska.

»	22	Ki	iP	01 07	23

		μ	s
P	z′	0.1	1.0

		Sk	iP	01 07	51

Kodiak Island region, Alaska.

»	22	Up	iP	14 35	44

		μ	s
P	z′	0.2	1.3

		Ki	i(P)	14 35	41
»	23	Up	iP	00 57	00

		μ	s
P	z′	0.2	1.4

		Ki	iP	00 56	04

		μ	s
P	z′	0.2	1.0

		Sk	iP	00 56	33

Kodiak Island region, Alaska.

»	23	Up	iP	03 57	38C

		μ	s
P	z′	0.2	1.0
M	E	4.2	20
M	N	5.4	20
M	Z	11	21

		Ki	iP	03 56	42C
			i	03 56	58
			iS	04 04	11

		μ	s
P	z′	0.2	0.9
S	E	1.4	8
S	N	0.7	8
M	E	4.2	20
M	N	2.6	17
M	Z	5.2	17

△ = 5900 km = 53°.

		Sk	iP	03 57	18
			i	03 57	26

Near east coast of Kamchatka.
Magn. = 6.0 (Up, Ki).

»	23	Up	iP	07 48	20C

		μ	s
P	z′	0.1	1.2

		Ki	iP	07 48	05
			iPP	07 51	48

1956
Jan 23 (cont.)

		μ	s
P	z′	0.2	1.0

		Sk	iP	07 48	26C

Mindanao.
Deep (h ~ 650 km).

»	23	Ki	iP	11 43	46D
»	23	Up	iP	12 25	32
»	23	Up	iP	13 01	08C

		μ	s
P	z′	0.2	0.8

»	24	Up	iPKP	08 25	48

		μ	s
PKP	z′	0.1	1.0

		Sk	iPKP	08 25	40

Kermadec Islands region.

»	24	Up	iP	08 41	28
»	24	Up	iP	12 26	08
		Ki	iP	12 25	22

Kurile Islands.

»	24	Ki	iP	13 29	45
»	24	Ki	iP	13 33	32
»	24	Ki	e(P)	14 43	37
»	24	Ki	eP	15 56	26
»	24	Ki	e(P)	19 04	55
»	24	Up	eP	20 03	46
»	24	Ki	e(P)	20 32	51
			i(Sg)	20 33	18

Local?

»	24	Ki	iP	20 38	59
»	25	Ki	iP	03 12	18
»	25	Up	iP	04 28	22
»	25	Up	eP	06 01	18
»	25	Ki	iP	06 16	58
»	25	Ki	i(P)	06 57	24
»	25	Ki	iP	07 22	31
»	25	Ki	eP	07 42	07
»	25	Up	iP	07 50	53
»	25	Up	iP	08 53	21

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1956 Jan	25	Up	iPKP		11	07	25
			i		11	07	32
					μ		s
			PKP	z′	0.2		1.3
			Tonga Islands region.				
»	25	Ki	iP		13	12	40
»	25	Ki	i(P)		13	57	26
»	25	Ki	i(P)		14	29	04
»	25	Ki	i(P)		18	12	41
»	25	Up	iP		18	33	09
»	25	Ki	e(P)		18	56	48
»	25	Ki	e(P)		19	45	37
»	25	Ki	eP		20	38	12
			i		20	38	14
					μ		s
			P	z′	0.1		0.7
»	26	Up	iP		01	36	26
		Ki	iP		01	35	33
»	26	Up	iP		03	57	39
		Ki	iP		03	56	12
					μ		s
			P	z′	0.1		1.7
»	26	Ki	i(P)		04	51	51
»	26	Ki	e(P)		07	51	53
		Sk	iP		07	47	28
»	26	Ki	e(P)		09	51	26
»	26	Ki	e(P)		10	17	03
»	26	Ki	eP		10	32	07
			i		10	32	09
»	26	Up	iP		10	47	42
					μ		s
			P	z′	0.3		1.0
		Ki	i(P)		10	51	44
»	26	Ki	iP		13	29	50
»	26	Up	eP		15	06	28
»	26	Ki	i		15	56	50
					μ		s
			M	N	0.9		22
»	26	Ki	e(P)		16	07	38
»	26	Up	eP		17	48	58

1956 Jan	26	Ki	e(P)		18	18	16
»	26	Ki	e(P)		19	28	42
»	26	Ki	i(P)		21	10	39
»	26	Up	iPKP		23	49	41
			South of Kermadec Islands.				
»	27	Up	iP		01	18	35 D
			i		01	18	50
		Ki	iP		01	19	45
		Sk	iP		01	19	15
			i		01	19	40
			Aegean Sea.				
»	27	Ki	e(P)		02	12	02
»	27	Up	iP		06	55	48
»	27	Ki	eP		07	59	46
»	27	Ki	eP		08	28	43
»	27	Ki	eP		09	59	14
»	27	Up	iP		10	14	54C
					μ		s
			P	z′	0.1		1.0
			M	E	2.8		12
			M	N	4.0		18
			M	Z	5.6		11
		Ki	iP		10	14	43C
					μ		s
			M	E	1.9		13
			M	N	0.7		11
			M	Z	2.0		13
		Sk	iP		10	15	10C
			Sinkiang, China.				
»	27	Ki	eP		13	10	48
»	27	Up	iP		13	42	12
»	27	Up	iPKP		13	58	23
					μ		s
			PKP	Z	0.9		3
			PKP	z′	0.5		1.4
		Ki	iPKP		13	58	12C
			ePP		14	01	02
			eScSP		14	11	22
					μ		s
			PKP	z′	0.1		1.5
		Sk	iPKP		13	58	18
			Tonga Islands region.				
»	27	Ki	iP		14	19	42
			Off east coast of Mindanao.				
»	27	Ki	e(P)		14	51	19

1956 Jan	27	Ki	eP		15	37	24
»	27	Ki	eP		18	05	33
»	27	Ki	iP		18	45	51C
			Pamir.				
»	27	Ki	e(P)		20	13	29
»	28	Up	iP		00	25	27
»	28	Ki	e(P)		05	01	50
»	28	Up	iP		05	03	31
					μ		s
			M	E	1.1		17
			M	N	1.6		18
			M	Z	2.9		17
		Ki	iP		05	04	09
					μ		s
			P	z′	0.2		2.0
			M	E	1.7		24
			M	N	1.7		22
			M	Z	4.1		25
		Sk	iP		05	03	34
			Mid-Atlantic Ocean.				
»	28	Ki	e(P)		05	40	51
»	28	Ki	e(P)		06	57	21
»	28	Ki	e(P)		08	11	37
					μ		s
			M	E	1.6		18
			M	N	1.2		18
			M	Z	2.7		19
»	28	Ki	i(P)		10	26	30
»	28	Ki	iP		14	30	27
		Sk	iP		14	30	25
»	28	Ki	e(P)		14	36	11
»	28	Ki	e(P)		15	45	49
»	28	Up	e(P)		22	10	33
»	29	Up	eP		01	50	57
»	29	Up	iP		03	48	49 D
		Ki	iP		03	48	56
			Near south coast of Arabia.				
»	29	Up	iP		22	32	57C
			i		22	33	09
					μ		s
			P	z′	0.4		1.5
			M	E	6.2		16
			M	N	3.7		16
			M	Z	9.6		16

1956 Jan 29 (cont.)		Ki	iP		22	32	35
			i		22	32	48
					μ		s
			P	z′	0.3		1.7
			M	E	5.0		17
			M	N	1.4		16
			M	Z	5.4		19
			Off south coast of Formosa.				
»	30	Up	iP		05	56	26
			West of Honshu, Japan.				
»	30	Up	iPKP		08	52	44
		Ki	iPKP		08	52	37
			Fiji Islands.				
			Deep (h ~ 600 km).				
»	30	Up	iPKP		09	02	58
			iPKP2		09	03	16
					μ		s
			PKP2	z′	0.3		1.5
			M	N	3.4		19
			M	Z	7.5		18
		Ki	iPKP		09	02	41
					μ		s
			PKP	z′	0.5		1.5
			M	E	4.7		20
			M	N	2.6		19
			M	Z	6.1		20
			Off coast of North Island, New Zealand.				
			Magn. = 6.6 (Up, Ki).				
»	30	Ki	e(P)		09	21	44
»	30	Up	iPKP		10	21	55
		Ki	iPKP		10	21	32
			i		10	21	37
					μ		s
			PKP	z′	0.1		1.2
			New Zealand.				
»	30	Up	iPKP		19	27	51 D
					μ		s
			PKP	z′	0.2		1.0
		Ki	iSKP		19	30	23
			South of Fiji Islands.				
»	31	Ki	iPKP		00	57	47
			New Hebrides Islands.				
»	31	Up	e		02	32	13
		Ki	iP		02	30	35
			Northern part of the Adriatic Sea.				
»	31	Ki	iP		05	24	03
»	31	Ki	iP		05	36	33
			Volcano Islands region.				
»	31	Ki	iP		07	09	37

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1956							
Jan 31	Up	iPKP		09	35	08	D
				μ	s		
		PKP	z′	0.1	1.0		
	Ki	iPKP		09	34	56	D
				μ	s		
		PKP	z′	0.1	1.0		
		New Ireland.					
		Deep (h ~ 400 km).					
» 31	Ki	eP		19	55	08	
» 31	Ki	iP		20	19	11	
Feb 1	Up	i(PKP)		01	52	05	
		iPKP		01	52	19	
		iPKS		01	55	49	
				μ	s		
		PKP	z′	0.1	1.0		
		M	E	2.8	21		
		M	N	3.8	21		
		M	Z	4.4	21		
	Ki	e(PKP)		01	52	00	
		iPKP		01	52	05	
				μ	s		
		PKP	z′	0.2	1.0		
		M	E	3.0	23		
		M	N	1.7	22		
		M	Z	4.2	23		
		Loyalty Islands.					
		Magn. = 6.3 (Up, Ki).					
		The first (PKP) is very small at both stations.					
» 1	Ki	eP		05	23	05	
» 1	Ki	eP		06	21	35	
» 1	Ki	eP		08	16	33	
» 1	Ki	iP		09	40	01	
» 1	Up	iP		13	54	12	D
		ipP		13	55	40	
		iPP		13	57	52	
		iSKS		14	04	06	
		iS		14	04	27	
		iSP		14	05	44	
		iPKKP		14	11	36	
				μ	s		
		P	E	0.6	2		
		P	N	0.8	2		
		P	Z	5.0	2		
		P	z′	3.7	1.8		
		PP	z′	1.4	1.6		
		SKS	E	1.1	4		
		S	E	1.2	4		
		S	N	1.3	3		
		M	E	6.2	17		
		M	N	5.7	20		
		M	Z	8.8	17		
		△ = 9950 km = 89½°.					

1956							
Feb 1	Ki	iP		13	53	44	D
(cont.)		i		13	54	53	
		ipP		13	55	08	
		iS		14	03	29	
		i		14	06	03	
		i		14	06	10	
		iPKKP		14	11	49	
				μ	s		
		P	E	2.1	8		
		P	N	1.4	8		
		P	Z	6.3	8		
		P	z′	2.6	1.0		
		S	E	3.2	8		
		S	N	6.0	8		
		S	z′	0.2	1.5		
		PKKP	z′	0.1	1.5		
		M	E	5.0	17		
		M	N	2.9	16		
		M	Z	6.5	17		
		△ = 9300 km = 83½°.					
		Marianas Islands.					
		h = 370 km (Up, Ki).					
		Magn. = 6.8 (Up, Ki).					
» 1	Up	iP		15	15	14	D
		i		15	15	26	
		iS		15	18	50	
		iScS		15	26	09	
				μ	s		
		P	N	0.9	2		
		P	Z	1.3	2		
		P	z′	1.7	1.2		
		S	E	0.8	2		
		S	N	1.8	2		
		S	z′	1.3	1.5		
	Ki	iP		15	16	29	D
		i(pP)		15	17	24	
				μ	s		
		P	Z	0.9	3		
		P	z′	1.2	1.2		
		Tyrrhenian Sea.					
		Intermediate depth.					
		Magn. = 6.4 (Up, Ki).					
» 1	Ki	iP		16	41	57	
» 1	Ki	iP		18	20	30	
» 1	Up	iP		18	40	38	
	Ki	eP		18	41	48	
		Aegean Sea.					
» 1	Up	iP		21	00	34	
» 2	Ki	e(P)		01	25	47	
» 2	Up	iP		03	32	04	
	Ki	iP		03	32	27	
		Atlantic Ocean.					
» 2	Up	iP		19	34	37	
	Ki	iP		19	35	04	

1956							
Feb 3	Up	iP		03	29	44	
» 3	Up	iP		05	09	49	
	Ki	e(P)		05	14	18	
» 3	Ki	e(P)		06	03	16	
» 3	Up	eP		13	22	36	
	Ki	iP		13	23	21	C
				μ	s		
		P	z′	0.3	1.4		
		Eastern Irak.					
» 3	Up	iP		13	26	14	
	Ki	iP		13	25	49	
				μ	s		
		P	z′	0.1	1.0		
» 3	Ki	eP		13	47	22	
		Northern part of the Adriatic Sea.					
» 3	Up	iP		21	48	41	
		iPcP		21	49	16	
				μ	s		
		P	z′	0.1	1.2		
	Ki	iP		21	49	28	
				μ	s		
		P	z′	0.2	1.5		
		Lake Tanganyika region.					
» 3	Up	iP		23	37	14	
» 4	Up	e(P)		05	52	43	
» 4	Ki	eP		12	52	46	
» 4	Ki	iP		20	29	31	
		Off south coast of Honshu, Japan.					
» 4	Up	iP		22	23	44	
		Lake Tanganyika region.					
» 5	Up	iP		20	49	29	D
				μ	s		
		P	z′	0.1	1.0		
	Ki	iP		20	49	11	
				μ	s		
		P	z′	0.1	1.0		
		Molucca Passage.					
» 6	Up	iP		02	36	33	
» 7	Up	i(P)		09	40	13	
		Seismic?					
» 7	Ki	e(P)		14	18	18	
		Seismic?					
» 7	Up	e(P)		14	47	41	
» 7	Ki	iP		20	10	40	
» 7	Up	iP		20	25	18	

1956							
Feb 8	Ki	e(P)		04	23	10	
» 8	Ki	eP		04	27	49	
» 9	Up	e(P)		03	39	17	
» 9	Up	iP		08	55	47	
» 9	Up	iP		14	44	56	
		iS		14	55	08	
				μ	s		
		P	N	0.4	3		
		P	Z	0.8	3		
		P	z′	1.1	2.0		
		S	E	12	20		
		S	N	11	19		
		M	E	74	21		
		M	N	68	17		
		M	Z	88	16		
		△ ~ 9000 km ~ 81°.					
	Ki	iP		14	44	24	
		eS		14	53	58	
				μ	s		
		P	Z	2.7	13		
		P	z′	1.2	2.5		
		S	E	5.2	14		
		S	N	3.2	14		
		M	E	57	19		
		M	N	30	16		
		M	Z	68	16		
		△ = 8350 km = 75°.					
		Lower California.					
		Magn. = 6.7 (Up, Ki).					
» 9	Up	iP		15	36	45	
				μ	s		
		P	z′	0.2	1.5		
	Ki	iP		15	36	12	
				μ	s		
		P	z′	0.1	1.2		
		Lower California.					
» 9	Up	e(P)		16	42	09	
	Ki	iP		16	41	48	
		Lower California.					
» 9	Ki	eP		17	11	36	
		Lower California.					
» 9	Ki	iP		17	39	41	
» 9	Up	iP		18	25	08	
» 9	Ki	iP		19	00	34	
				μ	s		
		M	E	0.7	15		
		M	N	0.5	16		
		M	Z	1.2	15		
		Lower California.					
» 9	Up	iP		22	07	05	

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1956 Feb 9 Ki iP 22 06 27
(cont.) Honshu, Japan.

» 10 Up iP 00 14 10 C
i 00 14 18

		μ	s
P	z′	0.8	1.3
M	E	3.5	17
M	N	2.7	20
M	Z	4.1	17

Ki iP 00 13 30 C
iPP 00 15 52

		μ	s
P	z′	0.2	1.0
M	E	3.7	22
M	N	1.8	18
M	Z	3.4	17

Off coast of Honshu, Japan. Slightly deeper than normal.
Magn. = 6.4 (Up, Ki).

» 10 Up iP 00 46 15

» 10 Up e(P) 01 26 40

» 10 Up iP 04 05 38

		μ	s
P	z′	0.2	1.0

Ki iP 04 05 36 C

		μ	s
P	z′	0.2	1.0

Near south coast of Sumatra.

» 10 Up iP 04 26 31
Ki iP 04 25 41 C

» 10 Ki i(P) 13 28 45

» 10 Up iP 15 38 15

» 10 Up eP 18 25 10

		μ	s
P	z′	0.1	1.5

Lower California.

» 10 Up iP 18 52 52
i 18 53 06
Ki iP 18 52 33
Southeast of Luzon.

» 11 Up iP 04 58 19

» 11 Up iP 05 50 45
i 05 51 00

		μ	s
i	z′	0.2	1.4

Ki iP 05 50 48
Off north coast of Sumatra.

» 11 Up iP 06 56 36
Atlantic Ocean.

1956 Feb 11 Up iP 13 46 49

» 12 Up iP 03 47 38

» 12 Up iP 12 01 31 D
i! 12 01 41
iS 12 11 32
iScS 12 11 55

		μ	s
P	E	1.4	7
P	Z	2.6	7
P	z′	0.6	1.2
i!	z′	1.0	1.1
S	E	3.5	9
M	E	20	14
M	N	21	18
M	Z	20	13

△ = 8900 km = 80°.

Ki iP 12 01 12 D
i! 12 01 22
iS 12 10 56
eSS 12 15 52

		μ	s
P	Z	3.8	10
P	z′	0.3	1.3
i!	z′	0.9	1.4
S	E	4.5	10
M	E	37	13
M	N	12	14
M	Z	43	13

△ = 8500 km = 76½°.
Off northwest coast of Luzon.
Magn. = 6.6 (Up, Ki).

» 12 Up iP 12 10 31

		μ	s
P	z′	0.1	0.9

Ki iP 12 10 13
(Luzon).

» 12 Up iP 12 13 27
Ki iP 12 13 07
(Luzon).

» 12 Up iP 12 20 58
i 12 21 26
Ki iP 12 20 39
Luzon.

» 12 Up iP 12 29 43
Ki iP 12 29 22
Luzon.

» 12 Up iP 14 19 20

» 12 Up iP 14 35 38
Ki eP 14 35 18
(Luzon).

» 12 Up iP 17 38 44
Ki iP 17 38 54
Hindu Kush.

1956 Feb 12 Up iP 19 52 27
Ki iP 19 52 08
Luzon.

» 12 Up iP 20 03 35

		μ	s
M	N	1.4	13
M	Z	1.4	14

Ki iP 20 03 17

		μ	s
M	E	1.6	14
M	N	1.1	16
M	Z	1.2	12

(Luzon).

» 12 Up iP 20 11 16

» 13 Up iP 01 13 59
South Atlantic.

» 13 Up iP 01 54 29
i(P) 01 55 54

» 13 Up iP 01 59 14
i 01 59 21

		μ	s
M	N	0.8	13

Ki iP 01 58 55
(Luzon).

» 13 Up iP 02 00 32
Ki iP 02 00 22

		μ	s
M	E	1.3	14
M	N	0.5	14
M	Z	1.1	13

» 13 Up iP 02 24 20
Ki iP 02 24 00
Luzon.

» 13 Up iP 03 56 54
i 03 57 03

		μ	s
M	E	2.1	18
M	N	1.3	15
M	Z	2.5	18

Ki iP 03 56 34

		μ	s
M	E	2.9	11
M	N	1.2	18
M	Z	2.4	12

Luzon.

» 13 Up iP 08 31 06
Ki iP 08 30 48

		μ	s
M	E	0.4	12
M	N	0.5	14
M	Z	0.5	11

(Luzon).

1956 Feb 13 Up eP 08 44 33
Ki eP 08 44 23

		μ	s
M	E	1.0	14
M	N	0.4	14
M	Z	1.2	13

» 13 Ki e(P) 12 26 26
i(Sg) 12 26 57
Local?

» 13 Up iP 12 35 29
Ki i(P) 12 34 44

» 13 Ki eP 12 53 36

» 13 Up iP 13 30 01

» 13 Up iP 14 33 02
Ki iP 14 32 45
Luzon.

» 13 Up iP 14 39 24 D
iPcP 14 39 54

		μ	s
P	z′	0.3	0.9
M	E	4.2	16
M	N	2.8	16
M	Z	4.8	14

Ki iP 14 38 35 D
e(ScP) 14 42 26

		μ	s
P	z′	0.3	1.0
M	E	7.5	12
M	N	2.2	15
M	Z	7.6	12

Sea of Okhotsk. Deep. No observable pP at Uppsala or Kiruna.

» 13 Ki eP 15 18 20

» 13 Up iP 15 44 29
Ki iP 15 44 33 D

		μ	s
P	z′	0.1	1.0

Off north coast of Puerto Rico.

» 13 Ki eP 19 31 35

» 13 Up iP 22 52 01

		μ	s
P	z′	0.1	1.1

Ki iP 22 51 41

		μ	s
M	E	1.6	12
M	N	0.4	13
M	Z	1.3	13

Luzon.

» 13 Up iP 23 00 55
Ki iP 23 00 35

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1956 Feb 13 (cont.)

					μ	s	
		M	N		0.5	12	
»	14 Up	iP		01	04	22	C
		i		01	04	35	
					μ	s	
		P	z′		0.5	1.4	
	Ki	iP		01	03	44	C
		eS		01	12	48	
					μ	s	
		P	z′		0.2	1.0	
		M	E		1.6	18	
		M	N		0.6	18	
		M	z		1.2	18	

Japan.
Magn. = 6.2 (Up, Ki).

»	14 Ki	eP		07	22	01
				μ	s	
		M	E		0.5	12
		M	z		0.4	11
»	14 Up	iP		07	50	28
	Ki	iP		07	50	08
				μ	s	
		M	E		1.0	13
		M	z		1.3	13

Luzon.

»	14 Up	iP		08	33	15
		i		08	33	36
				μ	s	
		M	E		1.1	17
		M	N		1.4	16
		M	z		1.4	16
	Ki	iP		08	32	56
				μ	s	
		M	E		2.6	12
		M	N		0.9	15
		M	z		1.9	12

Luzon.

»	14 Up	iP		09	58	51
				μ	s	
		P	z′		0.3	1.3
		M	E		0.6	10
		M	z		0.8	10
	Ki	iP		09	59	59
				μ	s	
		P	z′		0.3	1.5
		M	E		1.2	15
		M	N		0.7	13
		M	z		0.9	14

Algeria.
Magn. = 5.9 (Up, Ki).

»	14 Up	iP		12	45	59
		iS		12	56	10
	Ki	iP		12	45	41
		e		12	55	37

Luzon.

1956 Feb 14 Up

		iP		12	47	19
		eS		12	57	22
				μ	s	
		P	z′		0.3	1.5
		M	E		4.0	19
		M	N		4.2	16
		M	z		6.3	20

△ = 8900 km = 80°.

	Ki	iP		12	46	59
		eS		12	56	38
		e		12	56	53
				μ	s	
		P	z′		0.3	1.5
		S	E		1.0	13
		M	E		7.4	12
		M	N		2.1	16
		M	z		7.3	12

△ = 8450 km = 76°.
Luzon.
Magn. = 6.2 (Up, Ki).

»	14 Up	iP		18	45	55
		eS		18	56	08
				μ	s	
		P	z′		0.6	1.4
		S	N		1.2	10
		M	E		5.9	18
		M	N		7.5	17
		M	z		7.6	17

△ = 9150 km = 82½°.
Lower California.
Magn. = 6.3 (Up).

»	14 Up	iP		19	07	23
	Ki			—		
				μ	s	
		M	E		1.4	13
		M	N		1.0	16

Luzon.

»	14 Up	iP		21	19	40
	Ki	iP		21	18	58

Hokkaido, Japan.

»	14 Up	iP		21	32	06
»	14 Up	iP		22	01	04

Aleutian Islands.

»	15 Up	iP		01	32	57
		eS		01	43	09
				μ	s	
		P	z′		0.9	1.6
		S	N		1.2	9
		M	E		5.0	19
		M	N		5.3	17
		M	z		5.0	16

△ = 9100 km = 82°.

	Ki	iP		01	32	27
		eS		01	42	14

1956 Feb 15 (cont.)

					μ	s	
		P	z′		0.4	1.5	
		S	E		1.0	8	
		S	N		0.7	8	
		M	E		6.4	16	
		M	N		4.2	15	

△ = 8550 km = 77°.
Lower California.
Magn. = 6.3 (Up, Ki).

»	15 Up	eP		03	36	33
»	15 Up	i		03	51	37
		iSg		03	51	47

Felt in the area of Gislaved, Sweden.
Macroseismic epicentre 57.5°N, 13.5°E.
Origin time = 03 49 58.

»	15 Up	iP		04	07	07

Yugoslavia.

»	15 Up	iP		04	15	08
»	15 Ki	iP		05	09	46
»	15 Up	eP		07	19	12
	Ki	iP		07	18	46

(Lower California).

»	15 Up	iP		12	08	36
				μ	s	
		P	z′		0.1	1.5

Kurile Islands.

»	15 Up	eP		13	04	10
	Ki	iP		13	03	43
		ipP		13	04	19

Peru. h = 145 km (Ki).

»	15 Up	ePg		15	26	48
		eSn		15	27	35
		e		15	28	00
		iSg		15	28	04
				μ	s	
		Sg	z′		0.1	0.7

△ = 680 km = 6.1°.

	Ki	ePg		15	26	07
		iSg		15	27	03
				μ	s	
		Sg	z′		0.2	0.7

△ = 450 km = 4.1°.
Central coast of Norway, 65.4°N, 12.0°E.
Origin time = 15 24 47.
Felt at Brönnöysund and neighbouring places, Norway.

»	15 Up	iP		15	57	01
		iS		16	03	07
				μ	s	
		P	z′		0.2	1.0
		M	E		6.5	24

1956 Feb 15 (cont.)

		M	N		6.9	25
		M	z		4.1	23

△ = 4450 km = 40°.

	Ki	iP		15	57	38 C
		iPP		15	59	19
		eS		16	04	13
		eSS		16	07	23
				μ	s	
		P	z′		0.2	1.0
		PP	z′		0.1	1.2
		S	N		0.4	11
		M	E		5.6	17
		M	N		2.6	15
		M	z		4.8	18

△ = 4950 km = 44½°.
Southern Iran.
Magn. = 5.7 (Up, Ki).

»	15 Ki	eSS		21	12	20
				μ	s	
		M	E		0.8	18
		M	N		0.8	19

Pacific Ocean.

»	16 Up	iP		00	30	31
		ipP		00	31	02
				μ	s	
		pP	z′		0.1	1.3
	Ki	iP		00	30	02
	Sk	iP		00	30	28
		ipP		00	30	59

Marianas Islands region.
h = 120 km (Up, Sk).

»	16 Ki	e(P)		07	13	34
		i		07	14	07
»	16 Up	iP		11	46	19
»	16 Ki	iP		12	38	49
»	16 Up	iP		15	54	18
		i		15	54	32
	Ki	iP		15	55	42 C

Rumania.

»	16 Up	e(P)		18	48	34
»	17 Up	iP		09	14	53
»	17 Up	eSS		10	28	35
				μ	s	
		M	E		2.4	18
		M	N		2.9	20
		M	z		3.7	18
	Ki	eSKSP		10	23	48
		iSS		10	30	15
				μ	s	
		M	E		1.9	20
		M	N		2.1	17
		M	z		3.6	18

South Atlantic.
Magn. = 6.1 (Up, Ki).

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1956							
Feb 17	Up	iP		13	57	59	
		i		13	58	02	
				μ	s		
		P	z′	0.2	0.8		
» 17	Up	iP		15	43	33	
» 17	Ki	e(P)		18	42	43	
» 18	Up	iP		05	23	15	
	Ki	iP		05	24	25C	
				μ	s		
		P	z′	0.1	1.5		
	Sk	iP		05	23	56	
» 18	Up	iP		07	45	31C	
		i		07	45	48	
		ipP		07	47	17	
		iPP		07	48	37	
		iS		07	54	35	
		i(S)		07	54	42	
		i		07	55	01	
		i		07	55	19	
		i		07	56	31	
		i		07	57	48	
				μ	s		
		P	E	2.5	3		
		P	N	2.4	3		
		P	z′	2.8	1.0		
		PP	E	5.0	4		
		PP	N	5.0	4		
		PP	z′	4.2	1.7		
		S	E	18	5		
		S	N	80	6		
		S	z′	4.2	1.9		
		M	E	26	18		
		M	N	27	18		
		M	z	27	18		
		△ = 8600 km = 77½°.					
	Ki	iP		07	44	58C	
		i(P)		07	45	01	
		ipP		07	46	39	
		iPP		07	47	48	
		ePPP		07	49	34	
		iS		07	53	35	
		i(S)		07	53	41	
		iScS		07	54	11	
		i!		07	58	13	
		isSS		08	00	59	
		iP′P′		08	12	34	
				μ	s		
		P	E	3.4	4		
		P	N	1.4	4		
		P	z	7.0	4		
		P	z′	4.6	1.5		
		PP	E	5.4	7		
		PP	N	3.3	7		
		PP	z	8.2	7		
		PP	z′	1.5	1.5		
		S	E	54	10		
		S	N	73	10		

1956							
Feb 18		S	z	30	10		
(cont.)		S	z′	20	4.0		
		P′P′	z	5.0	6		
		P′P′	z′	2.4	2.0		
		M	E	31	16		
		M	N	16	15		
		M	z	45	16		
		△ = 8000 km = 72°.					
	Sk	iP		07	45	28C	
		i		07	46	18	
		ipP		07	47	18	
		iPP		07	48	32	
		iS		07	54	37	
		△ = 8550 km = 77°.					
		South of Honshu, Japan.					
		h = 510 km (Up, Ki, Sk).					
		Magn. = 7.3 (Up, Ki).					
		S and probably P are multiple.					
» 18	Up	eP		08	25	57	
» 18	Up	iP		10	51	25	
» 18	Up	eP		11	54	52	
» 18	Ki	iP		12	30	15	
» 19	Up	iP		02	28	50	
		iS		02	37	41	
		eSKS		02	38	44	
				μ	s		
		P	z′	1.0	1.9		
		S	E	4.3	12		
		S	N	1.4	8		
		SKS	N	2.1	8		
		M	E	14	17		
		M	N	14	18		
		M	z	23	17		
		△ = 7450 km = 67°.					
	Ki	iP		02	28	02	
		iS		02	36	11	
		iScS		02	37	54	
				μ	s		
		P	N	1.0	6		
		P	z	1.6	6		
		P	z′	0.7	2.0		
		S	E	6.0	10		
		S	N	2.9	10		
		M	E	18	16		
		M	N	11	16		
		M	z	21	15		
		△ = 6600 km = 59½°.					
	Sk	iP		02	28	21	
		Queen Charlotte Islands.					
		Magn. = 6.5 (Up, Ki).					
» 19	Up	iP		04	23	35	
		eS		04	31	54	
				μ	s		
		M	E	0.8	16		
		M	N	2.0	19		

1956							
Feb 19		M	z	2.5	18		
(cont.)		△ = 6900 km = 62°.					
	Ki	iP		04	22	39	
		eS		04	30	10	
		iScS		04	32	26	
				μ	s		
		S	E	0.8	11		
		S	N	0.6	11		
		M	E	1.9	20		
		M	N	1.4	20		
		M	z	2.4	20		
		△ = 5950 km = 53½°.					
	Sk	iP		04	23	08	
		Alaska Peninsula.					
		Magn. = 5.5 (Up, Ki).					
» 19	Up	iPKP		05	59	49	
		Tonga Islands.					
» 19	Ki	iP		11	07	27	
» 19	Up	iP		12	23	31	
» 19	Up	iPKP		15	07	06	
		iPP		15	10	17	
	Ki	ePKP		15	06	40	
		Fiji Islands region.					
		Deep (h ~ 600 km).					
» 19	Up	iP		22	18	22	
» 20	Up	iP		01	33	15C	
		P	z′	0.1	1.0		
	Ki	eP		01	34	43	
		M	E	0.4	12		
		M	N	0.3	9		
	Sk	iP		01	33	56	
		Adriatic Sea.					
» 20	Up	iP		08	09	32	
		M	E	1.2	19		
		M	N	2.7	20		
		M	z	1.6	18		
	Ki	iP		08	09	08	
		eS		08	18	32	
				μ	s		
		M	E	1.5	16		
		M	N	1.0	16		
		M	z	1.0	16		
		△ = 8100 km = 73°.					
	Sk	iP		08	09	36	
		Ryukyu Islands.					
» 20	Ki	i(P)		10	22	30	
		Seismic?					
» 20	Ki	e(P)		11	03	50	
		Seismic?					

1956							
Feb 20	Ki	i(P)		12	35	15	
		Seismic?					
» 20	Up	e(P)		15	36	08	
	Ki	e(P)		15	31	56	
» 20	Ki	e(P)		16	08	09	
» 20	Up	iP		20	36	29C	
		i		20	36	43	
		i		20	40	19	
		i		20	40	24	
		iS		20	40	29	
		iLi		20	42	02	
		iLi		20	42	11	
				μ	s		
		P	E	1.2	2		
		P	N	2.5	2		
		P	z	3.3	2		
		P	z′	5.1	1.6		
		S	E	19	7		
		S	N	26	10		
		S	z′	7.2	3.0		
		M	E	94	15		
		M	N	54	13		
		M	z	69	15		
		△ = 2450 km = 22°.					
	Ki	iP		20	37	36	
		i!		20	38	01	
		iS		20	42	25	
		i		20	42	54	
		i!		20	43	08	
		i!		20	44	42	
		iLi		20	45	45	
		i(Lgl)		20	46	18	
				μ	s		
		P	N	1.1	7		
		P	z	1.5	7		
		P	z′	0.9	1.6		
		S	E	4.9	13		
		S	N	7.2	13		
		M	E	43	8		
		M	N	13	8		
		M	z	15	9		
		△ = 3200 km = 29°.					
	Sk	iP		20	37	13C	
		i!		20	42	07	
		iLgl		20	45	07	
		Turkey.					
		Magn. = 6.5 (Up, Ki).					
» 21	Up	iP		07	30	07	
» 21	Ki	i(P)		12	56	32	
	Sk	i(P)		12	55	31	
» 21	Up	iP		15	07	26	
		P	z′	μ 0.1	s 1.0		
» 21	Up	iPKP		20	51	09	

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1956 Feb 21 (cont.)		iSKP			20	53	56
		i			20	54	17
				μ		s	
		SKP	z′	0.2		1.0	
	Ki	iSKP			20	53	33
				μ		s	
		SKP	z′	0.5		1.5	
	Sk	iPKP			20	51	03
		iSKP			20	53	50
	Fiji Islands region. Deep (h ~ 650 km).						
» 21	Up	iP			23	02	50
		iT			23	10	39
				μ		s	
		M	E	1.5		22	
		M	N	2.4		18	
	Ki	eP			23	01	06
		iSg			23	02	45
		eT			23	05	53
		i			23	06	41
		i			23	09	58
				μ		s	
		P	N	0.4		9	
		T	z′	0.1		0.8	
		M	E	1.7		15	
		M	N	0.9		13	
		M	z	1.9		13	
	Sk	iP			23	01	48
		iS			23	03	32
		iT			23	08	55
	△ = 1050 km = 9½°.						
	Arctic Ocean.						
» 22	Up	iP			00	11	00
		eT			00	18	30
		i			00	19	25
				μ		s	
		M	E	2.6		20	
		M	N	5.1		19	
		M	z	5.0		18	
	Ki	iP			00	09	20
		iSg			00	10	48
		iT			00	14	14
		i			00	14	52
		i			00	15	29
				μ		s	
		P	E	0.7		9	
		P	N	0.8		9	
		P	z	0.8		9	
		T	z′	0.2		1.3	
		M	E	4.4		16	
		M	N	2.1		15	
		M	z	5.1		14	
	Sk	iP			00	10	02C
		iS			00	11	47
		eT			00	16	50
	△ = 1050 km = 9½°.						
	Arctic Ocean.						
	The T phases are extremely clear in this and the preceding shock, especially at Kiruna. T phases were recorded at all three of our stations, and it is the first time a T phase has been observed on the Uppsala records.						
» 22	Ki	eP			00	38	43
		e			00	42	31
	Sk	eP			00	39	19
	Probably the same location as for the two previous earthquakes (Arctic Ocean).						
» 22	Up	eP			05	32	08
	Ki	iP			05	31	16
	Sk	eP			05	31	45
	Near Unimak Island.						
» 22	Ki	i(P)			07	38	07
» 22	Ki	eP			08	07	13
				μ		s	
		M	E	0.7		14	
		M	N	0.5		14	
		M	z	0.8		10	
» 22	Up	eP			09	16	06
» 22	Up	iP			10	02	04
	Ki	iP			10	02	26
	Sk	iP			10	02	27
» 22	Up	iP			10	11	10
		eS			10	20	48
				μ		s	
		P	z′	0.1		1.0	
		S	E	1.5		10	
		M	E	2.6		20	
		M	N	3.6		20	
		M	z	2.8		20	
	△ = 8400 km = 75½°.						
	Ki	iP			10	11	33
		i			10	18	16
		eS			10	21	30
				μ		s	
		P	E	0.5		7	
		P	z	0.9		7	
		S	E	1.4		12	
		S	N	0.6		11	
		M	E	4.6		19	
		M	N	1.5		18	
		M	z	4.1		18	
	△ = 8850 km = 79½°.						
	Sk	iP			10	11	34
		i			10	11	40
	Chagos Islands region, Indian Ocean. Magn. = 6.0 (Up, Ki).						
» 22	Up	eP			23	50	32
	Sk	eP			23	51	03
	Chagos Islands region.						

1956 Feb 22	Ki	iP			23	52	34
» 23	Up	iP			01	04	32 D
» 23	Up	iP			01	29	51
		eS			01	36	52
				μ		s	
		P	z′	0.6		1.5	
		S	E	2.3		7	
		S	N	1.5		7	
		M	E	2.8		26	
		M	N	1.2		14	
		M	z	2.8		26	
	△ = 5400 km = 48½°.						
	Ki	iP			01	30	10
		eS			01	37	32
				μ		s	
		S	E	2.3		12	
		S	N	1.3		12	
		M	E	1.6		18	
		M	z	1.6		19	
	△ = 5700 km = 51½°.						
	Sk	iP			01	29	38C
		i			01	30	04
	North Atlantic Ocean.						
» 23	Up	eP			02	23	16
	Algeria.						
» 23	Up	iP			03	12	17
	Ki	iP			03	11	24
	Sk	iP			03	11	55
» 23	Up	e(P)			05	56	39
» 23	Up	iP			06	09	20
		iS			06	13	17
				μ		s	
		P	z′	0.3		1.5	
	△ = 2350 km = 21°.						
	Ki	iP			06	10	29
	Sk	iP			06	10	07
	Turkey.						
» 23	Ki	iP			06	42	45
		iSg			06	43	31
	Sk	iP			06	42	37
		iSg			06	43	23
	Local.						
» 23	Up	iP			17	39	14
	Ki	iP			17	39	51
	Sk	iP			17	39	52
	Southern Iran.						
» 23	Ki	iP			20	45	26
» 23	Up	eP			22	21	25
	Mexico.						
» 24	Ki	iP			04	50	49
1956 Feb 24 (cont.)		iSg			04	51	21
	Local.						
» 24	Up	iP			05	41	01
» 24	Up	iP			07	11	56
» 24	Up	iPKP			09	38	47
				μ		s	
		PKP	z′	0.1		1.0	
		M	E	2.5		23	
		M	N	3.5		25	
	Ki	iPKP			09	38	28
		i			09	38	43
				μ		s	
		PKP	z′	1.3		2.2	
	Sk	iPKP			09	38	42
		i			09	38	54
	Kermadec Islands region.						
» 24	Up	eP			19	29	20
» 24	Up	iP			19	56	45
	Ki	iP			19	56	45
» 25	Up	eP			20	48	35
» 26	Up	iP			05	26	47
	Ki	iP			05	26	07
	Northern Honshu, Japan.						
» 26	Up	i(P)			06	31	16
» 26	Ki	i(P)			13	46	14
» 26	Ki	e(P)			13	48	58
		iSg			13	49	55
	Local.						
» 27	Up	iP			03	33	40
	Kamchatka.						
» 27	Up	iP			08	48	52
		ipP			08	49	12
				μ		s	
		P	z′	0.3		1.0	
	Ki	iP			08	48	00
				μ		s	
		P	z′	0.1		1.2	
	Aleutian Islands. h = 75 km (Up).						
» 27	Sk	e(P)			14	33	37
» 27	Up	iP			14	51	21
	Ki	iP			14	52	38
» 27	Up	iP			22	33	59
	Ki	iP			22	35	11
				μ		s	
		P	z′	0.1		1.5	

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1956 Feb. 27 (cont.)	Sk	eP		22	34	37
	Southwest of Sicily.					
» 28	Ki	i(P)		00	51	08
» 28	Up	i(P)		08	57	43
		i		08	58	28
» 28	Up	iP		15	57	59
» 28	Up	iPKP2		16	51	47
	Ki	ePKP		16	51	25
	Kermadec Islands region.					
» 28	Ki	eP		17	05	09
» 28	Ki	eP		18	15	56
» 28	Up	iP		22	29	00
		i		22	29	07
	Ki	iP		22	29	03
	Sk	iP		22	29	27
» 29	Ki	iP		06	17	39
» 29	Up	iP		07	02	28
» 29	Up	iP		07	10	04
	Ki	eP		07	09	34
	South of Honshu, Japan.					
» 29	Ki	eP		07	30	32
» 29	Up	eP		09	54	10
» 29	Up	iP		16	04	03
» 29	Ki	eP		16	29	32
» 29	Ki	eP		18	10	26
» 29	Up	iP		21	01	46C
				μ	s	
		P	E	0.3	2	
		P	Z	1.0	2	
		P	Z′	0.8	1.2	
		M	E	10.0	20	
		M	N	9.6	18	
		M	Z	7.0	20	
	Ki	iP		21	01	40C
		i		21	01	59
		iPcP		21	02	17
				μ	s	
		P	Z′	0.8	1.5	
		M	E	18	20	
		M	N	8.3	18	
		M	Z	24	21	
	△ = 7000 km = 63°.					
	Burma-India border.					
	Magn. = 6.5 (Up, Ki).					

1956 Feb. 29	Up	iP		21	36	26
				μ	s	
		P	Z′	0.2	1.0	
		M	E	2.8	21	
		M	N	2.7	20	
		M	Z	3.5	20	
	Ki	iP		21	36	20
		i		21	36	45
				μ	s	
		P	Z′	0.2	1.0	
		M	E	4.7	18	
		M	N	2.3	18	
		M	Z	3.0	20	
	Sk	iP		21	36	41
	Burma-India border.					
	Magn. = 6.0 (Up, Ki).					
» 29	Up	iP		22	41	23 D
» 29	Up	iP		23	56	57C
				μ	s	
		P	Z′	0.3	1.2	
	Ki	iP		23	56	05
				μ	s	
		P	Z′	0.2	1.5	
	Near southeast coast of Kamchatka.					
Mar. 1	Up	iP		02	45	07 D
	Ki	eP		02	45	01
» 1	Ki	iP		06	36	30
	Kurile Islands.					
» 1	Up	e(P)		11	21	15
» 1	Up	iP		12	20	01
	Ki	eP		12	20	27
» 1	Up	iP		12	55	33
				μ	s	
		P	Z′	0.1	1.0	
		M	Z	4.1	23	
	Ki	iP		12	56	09
	Southern Iran.					
» 1	Up	iP		14	12	35C
		i		14	12	46
				μ	s	
		P	Z′	0.4	1.5	
	Ki	iP		14	11	43
	Near southeast coast of Kamchatka.					
» 1	Up	iP		14	37	23C
		i		14	37	37
				μ	s	
		P	Z′	0.1	1.2	
	Ki	iP		14	36	30C
	Near southeast coast of Kamchatka.					
» 1	Up	iP		16	01	29
	Ki	iP		16	02	09

1956 Mar. 1	Up	eP		16	11	46
	Ki	eP		16	12	23
» 1	Up	e		18	36	01
		e		18	37	49
» 1	Up	e(P)		19	06	53
» 1	Ki	eP		20	59	02
» 2	Up	iP		05	51	26
» 2	Up	iP		12	06	04 D
				μ	s	
		P	Z′	0.6	1.5	
	Ki	iP		12	05	06
				μ	s	
		P	Z′	0.3	1.0	
	Alaska.					
» 2	Up	iP		15	00	10
		ipP		15	00	37
				μ	s	
		P	Z′	0.1	0.5	
	Ki	iP		14	59	23
				μ	s	
		P	Z′	0.2	1.4	
	Kurile Islands.					
	h = 110 km (Up).					
» 2	Ki	iP		19	01	38
» 2	Up	iPKP		23	03	58
	Ki	ePKP		23	03	31
	New Zealand.					
» 3	Up	i(P)		00	11	29
	Seismic?					
» 3	Up	iPKP		00	24	40
				μ	s	
		M	E	2.6	20	
		M	N	7.9	21	
		M	Z	11	24	
	Ki	iPKP		00	24	32
				μ	s	
		PKP	Z′	0.1	1.4	
		M	E	3.8	20	
		M	N	3.1	21	
		M	Z	6.1	20	
	Samoa Islands region.					
» 3	Up	iP		04	24	44
		i		04	24	54
		iS		04	26	20
		i		04	26	36
	Ki	e		04	29	36
		e		04	30	24
	Local.					
» 3	Up	iP		10	24	11

1956 Mar. 3 (cont.)		ipP		10	24	24
				μ	s	
		P	Z′	0.4	1.2	
	Ki	iP		10	24	06
		ipP		10	24	19
				μ	s	
		P	Z′	0.3	1.4	
		M	N	3.8	19	
	Sk	iP		10	24	27
		ipP		10	24	41
	Burma-India border.					
	h = 55 km (Up, Ki, Sk).					
» 3	Up	i(P)		13	05	54
		i		13	06	01
	Seismic?					
» 3	Up	eP		18	27	58
» 3	Ki	i(P)		20	16	47
	Seismic?					
» 4	Up	iP		03	24	32
		iPcP		03	27	25
	△ = 3500 km = 31½°.					
	Ki	iP		03	23	20
				μ	s	
		P	Z′	0.3	1.7	
	North Polar region.					
» 4	Ki	iP		03	35	49
				μ	s	
		P	Z′	0.1	1.5	
» 4	Up	iP		15	45	03C
» 4	Up	iP		16	27	29
				μ	s	
		P	Z′	0.2	1.7	
	Ki	iP		16	26	35
	Sk	iP		16	27	14
	Near southeast coast of Kamchatka.					
» 5	Up	eP		02	27	17
» 5	Up	iP		02	36	52 D
	Ki	iP		02	37	14
» 5	Up	iP		03	50	28
» 5	Up	iP		03	53	05C
		i		03	53	16
				μ	s	
		P	Z′	0.4	1.3	
		M	E	1.3	17	
		M	N	2.2	20	
		M	Z	2.8	20	
	Ki	iP		03	52	13C
		i		03	52	23
				μ	s	
		P	Z′	0.2	1.0	

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1956
Mar 5 (cont.)
M E 1.4 17
M N 0.9 14
M Z 2.3 16
Sk iP 03 52 49
Near southeast coast of Kamchatka.
Magn.=6.2 (Up, Ki).

» 5 Up iP 07 20 24
i 07 20 31
iScS 07 30 20
iLg1 07 35 24
P z′ μ 0.2 s 1.0
M E 16 15
M N 19 23
M Z 17 14
Ki iP 07 20 22
i 07 20 33
i 07 20 45
e 07 32 58
iLg1 07 34 48
i! 07 35 33
P z′ μ 0.2 s 1.2
M E 8.9 13
M N 17 18
M Z 8.8 12
Sk iP 07 20 53
i 07 21 09
Sinkiang Province, China.
Magn.=6.1 (Up, Ki).

» 5 Up i(P) 10 06 53

» 5 Ki iP 11 31 28

» 5 Up iP 23 01 09

» 5 Up iP 23 40 38
e 23 57 11
i 23 57 18
P z′ μ 0.2 s 1.0
M E 13 17
M N 9.0 17
M Z 14 18
Ki iP 23 39 51
iPcP 23 40 38
iPP 23 42 10
iScS 23 49 48
P z′ μ 0.2 s 1.2
PP z′ 0.1 1.5
M E 22 17
M N 7.4 17
M Z 7.3 20
△=6700 km=60½°.
Sk iP 23 40 29
Near north coast of Hokkaido, Japan.
Magn.=6.3 (Up, Ki).

1956
Mar 5 Up iP 23 50 40
P z′ μ 0.1 s 1.3
Ki iP 23 50 37
i 23 50 41
P z′ μ 0.2 s 1.0
Sk iP 23 51 01
Sinkiang Province, China.

» 6 Up iP 02 05 20
Ki eP 02 04 44
Off south coast of Honshu, Japan.

» 6 Ki eP 07 57 10

» 6 Up iP 09 03 05C
P z′ μ 0.1 s 1.0
M E 1.3 17
M N 1.9 21
M Z 4.2 20
Ki iP 09 03 42C
i 09 03 50
P z′ μ 0.2 s 1.0
M E 6.1 24
M N 2.8 20
M Z 2.7 13
Sk iP 09 03 40C
Southern Iran.
Magn.=5.8 (Up, Ki).

» 6 Up iP 09 17 19
Ki iP 09 17 55
iPP 09 19 37
P z′ μ 0.1 s 1.0
△=5000 km=45°.
Sk iP 09 17 54
Southern Iran.

» 6 Up iP 09 22 10C
Ki iP 09 22 48
Sk iP 09 22 45C
Iran.

» 6 Up iP 10 22 46
Ki iP 10 23 23
i 10 26 11

» 6 Up i(P) 12 49 18

» 6 Up iP 13 50 42
Ki iP 13 49 50
Off southeast coast of Kamchatka.

» 6 Ki iP 14 33 57

» 6 Ki eP 17 27 35

1956
Mar 6 Ki eP 19 04 04

» 6 Up eP 20 14 57
Ki e(P) 20 15 36

» 6 Ki iP 20 43 12

» 6 Up iP 21 00 48
P z′ μ 0.2 s 1.0
Ki iP 21 01 25
P z′ μ 0.3 s 1.0
Sk iP 21 01 24
Southern Iran.

» 7 Up iP 00 08 31

» 7 Ki iP 01 43 20

» 7 Up iP 03 51 03
Ki iP 03 51 40

» 7 Up iP 06 59 29
Ki iP 07 00 02C
Sk iP 07 00 01

» 7 Up eP 07 18 25
Ki iP 07 19 04
Irak-Iran border region.

» 7 Up iP 09 50 03

» 7 Up iP 12 52 41
Ki eP 12 51 46
Off south coast of Kamchatka.

» 7 Up iP 14 12 06
Ki iP 14 12 43
Sk iP 14 12 41
Southern Iran.

» 7 Up e(Sg) 21 21 20
△=780 km=7.0°.
Ki ePg 21 18 34
iSg 21 19 18
△=330 km=3.0°.
Sk ePg 21 18 37
iSg 21 19 13
△=330 km=3.0°.
Central part of the Norwegian coast, 66.7°N, 13.5°E.
Origin time=21 17 36.

» 7 Ki iP 22 04 33
Near coast of Costa Rica.

» 8 Up iP 11 16 26
P z′ μ 0.1 s 1.0
Ki iP 11 15 33D

1956
Mar 8 (cont.) Sk iP 11 16 03
Aleutian Islands.

» 8 Up i(P) 16 31 39

» 8 Up iP 19 32 33

» 8 Ki eP 23 55 51

» 9 Up iP 08 00 27
East of Trinidad.

» 9 Ki e(P) 12 13 59
iSg 12 14 54
Local.

» 9 Up iP 15 40 40
i 15 40 45
iPP 15 42 06
P z′ μ 0.1 s 1.0
Ki iP 15 41 19C
Sk iP 15 41 21
Southern Iran.

» 9 Up iP 15 49 47

» 9 Up iP 16 52 27
M E μ 1.2 s 18
M N 1.8 20
Ki iP 16 53 04
e 17 04 07
M E μ 1.6 s 18
M N 1.4 20
M Z 1.1 16
Sk iP 16 53 04
Southern Iran.
Magn.=5.3 (Up, Ki).

» 9 Up iP 23 46 00
Ki iP 23 45 10
Sk iP 23 45 46

» 10 Ki eP 09 54 57

» 10 Up iP 12 04 54

» 10 Up iP 16 39 58
Ki iP 16 39 41
Near south coast of Mindanao.

» 10 Up iP 18 39 00
Ki iP 18 39 47
Sk eP 18 39 14
Atlantic Ocean.

» 10 Up iPKP 19 52 43
Tonga Islands.

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1956
Mar 10 Up iP 20 27 22
Ki eP 20 27 22

» 10 Up iP 21 50 41
iPP 21 54 48

		μ	s
PP	z′	0.4	2.0

△ ~ 11000 km ~ 99°.

Ki iP 21 50 28
i 21 50 33

		μ	s
P	z′	0.1	1.0
M	E	1.7	19
M	Z	2.7	18

Sk iP 21 50 48
i 21 51 05
Molucca Passage.
Magn. = 6.5 (Up, Ki).

» 10 Up iP 21 53 15
Ki iP 21 53 51
Sk iP 21 53 29

» 11 Up iP 08 13 41
Ki iP 08 14 19
Southern Iran.

» 11 Up e(P) 19 48 34

» 12 Ki eP 05 04 09

» 12 Up iP 11 35 48
Ki iP 11 35 28
Philippine Islands.

» 12 Up eP 16 37 29

» 12 Up iP 16 58 51

» 12 Up i(P) 20 39 54

» 13 Up iP 01 14 39

» 13 Up iP 01 52 02
Dominican Republic.

» 13 Up iP 09 37 52
i 09 38 04
Sk iP 09 37 57
Near east coast of Honshu, Japan.

» 13 Up iP 10 50 00

» 13 Up iP 13 26 12
iPP 13 29 40
iS 13 36 53

		μ	s
P	z′	0.4	1.6
PP	z′	0.4	1.5
S	E	2.6	8
S	N	1.7	8

1956
Mar 13 (cont.)
M E 5.9 22
M N 5.5 24
M Z 6.9 24
△ = 9900 km = 89°.

Ki iP 13 26 08
iPP 13 29 33
iSKS 13 36 35
iS 13 36 50
eSS 13 42 38

		μ	s
P	z′	0.9	1.7
PP	z′	0.5	2.0
SKS	E	2.4	10
S	N	2.0	9
M	E	4.3	19
M	N	2.3	20
M	Z	13	20

△ = 9800 km = 88½°.

Sk iP 13 25 58
iPP 13 29 12
Off south coast of Panama.
Probably slightly deeper than normal.
Magn. = 6.8 (Up, Ki).

» 13 Ki iP 14 12 38

» 13 Up iP 16 47 03

» 13 Up iP 19 32 49
Ki iP 19 31 55
Komandorski Islands region.

» 13 Up iP 20 25 58
Sk eP 20 26 45
Greece.

» 13 Up iPKP 23 50 32
New Ireland.

» 14 Up iP 11 12 16 D

		μ	s
P	z′	0.1	0.8

Ki iP 11 12 18

		μ	s
P	z′	0.1	0.6

Sk iP 11 12 33
Andaman Islands.

» 14 Ki e 12 15 00
Sk e 12 14 53
i(Sg) 12 14 55
Local.

» 14 Up ePKP2 14 39 22
i 14 40 36
Off coast of North Island, New Zealand.

» 14 Up iPKP2 15 58 53

		μ	s
PKP2	z′	0.2	1.4

1956
Mar 14 (cont.) Ki iPKP 15 58 25

		μ	s
PKP	z	1.0	5
PKP	z′	0.5	2.0

Sk iPKP 15 58 38
Off coast of North Island, New Zealand.

» 14 Up iPKP2 16 03 34

		μ	s
PKP2	z′	0.2	1.5

Ki iPKP 16 03 06

		μ	s
PKP	z	1.2	6
PKP	z′	0.9	2.2

Sk iPKP 16 03 19
iPKP2 16 03 34
Off coast of North Island, New Zealand.

» 14 Up iP 16 08 42

» 14 Up iPKP2 16 34 08 C
iPKS 16 37 27

		μ	s
PKP2	z′	0.1	1.2

Ki iPKP 16 33 39

		μ	s
PKP	z′	0.3	1.7

Sk iPKP 16 33 51
Off coast of North Island, New Zealand.

» 14 Up iP 16 49 53
i 16 49 59
Ki eP 16 49 49
Sk iP 16 50 10
Pakistan.

» 14 Up iP 21 09 01

» 14 Up iP 21 39 25

» 14 Up iP 23 17 43
Ki eP 23 18 28

» 14 Up iP 23 33 41

» 15 Ki i(P) 16 45 46

» 15 Up iPKP 18 19 26
Ki ePKP 18 18 56

		μ	s
PKP	z′	0.1	1.5

Sk ePKP 18 19 09
Off coast of North Island, New Zealand.

» 15 Up iP 21 02 45

» 16 Ki e(P) 01 30 42
Sk eP 01 30 45

1956
Mar 16 Up iP 01 46 20
Ki iP 01 46 12

» 16 Up iPKP2 09 01 03

		μ	s
PKP2	z′	0.1	0.9

Ki iPKP 09 00 33

		μ	s
PKP	z′	0.2	1.5

Sk iPKP 09 00 47
Off coast of North Island, New Zealand.

» 16 Ki iP 18 31 49
Near south coast of Hokkaido, Japan.

» 16 Up ePKP 19 22 15
Tonga Islands region.

» 16 Up iP 19 38 37 D
iPP 19 39 29

		μ	s
M	E	1.2	16
M	N	1.9	21
M	Z	1.4	14

△ ~ 3100 km ~ 28°.

Ki iP 19 39 36
iPP 19 40 54

		μ	s
PP	z′	0.1	1.5
M	E	2.5	21
M	N	1.0	16
M	Z	1.8	14

△ ~ 3900 km ~ 35°.

Sk iP 19 39 17
Lebanon.

» 16 Up iP 19 49 26
i(PcP) 19 52 43

		μ	s
P	z′	0.1	1.2
M	E	3.1	21
M	N	3.8	21
M	Z	2.6	15

△ ~ 3100 km ~ 28°.

Ki iP 19 50 25
i 19 50 38
i(PcP) 19 53 03

		μ	s
P	z′	0.1	1.0
M	E	2.8	20
M	N	2.1	17
M	Z	2.3	16

△ ~ 3900 km ~ 35°.

Sk iP 19 50 06
i 19 50 10
i(PcP) 19 52 44
Lebanon.
Magn. = 5.4 (Up, Ki).

» 16 Up iPg 20 24 34

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1956 Mar. 16 (cont.)		iSg		20	26	02
		△ = 760 km = 6.8°.				
	Ki	ePg		20	23	01
		iSg		20	23	36
		△ = 290 km = 2.6°.				
	Sk	e		20	23	53
		iSg		20	23	57
	Central Norway, 66.7°N, 14.6°E.					
	Origin time = 20 22 14.					
» 16	Ki	eP		21	46	16
» 17	Ki	eP		00	12	27
» 17	Ki	eP		02	12	37
» 17	Up	iPKP		02	29	43
		i		02	29	47
	Ki	i(PKP)		02	29	20
	Off coast of North Island, New Zealand.					
» 17	Up	iP		11	53	30
	Ki	iP		11	52	49
	Sk	eP		11	53	21
	Northern Honshu, Japan.					
» 17	Up	iP		15	52	20
	Ki	iP		15	51	37
	Sk	iP		15	52	11
	Near east coast of Hokkaido, Japan.					
» 17	Ki	eP		16	50	46
	Kurile Islands.					
» 18	Up	iP		02	25	50
» 18	Up	iP		02	50	59
	Ki	i(P)		02	50	16
» 18	Up	iP		04	01	18
	Ki	iP		04	01	57
	Sk	eP		04	01	55
		i		04	02	52
» 18	Up	iP		08	29	55
				μ	s	
	P	z′		0.2	1.5	
	M	E		1.3	20	
	M	N		1.8	20	
	M	z		1.7	20	
	Ki	iP		08	29	58
		eS		08	39	54
				μ	s	
	P	z′		0.2	1.6	
	S	E		0.8	7	
	M	E		2.5	21	
	M	N		1.1	17	
	M	z		2.2	17	
	△ ~ 8800 km ~ 79°.					
	Sk	eP		08	29	57

1956 Mar. 18 (cont.)		i(PcP)		08	30	12
	Nicobar Islands.					
	Magn. = 5.8 (Up, Ki).					
» 18	Up	iP		16	58	15
» 18	Up	iP		22	41	18
» 19	Up	iP		02	56	27
» 19	Up	iP		03	36	41
» 19	Up	eP		06	04	46
	Ki	iP		06	04	19
» 19	Ki	eP		09	51	48
» 19	Up	ePP		17	55	31
		ePKKP		18	05	28
				μ	s	
	M	E		3.3	21	
	M	N		4.6	23	
	M	z		3.5	20	
	Ki	No time marks.				
				μ	s	
	PP	z′		0.3	2.5	
	PKKP	z′		0.1	1.7	
	M	E		2.2	17	
	M	N		1.7	20	
	M	z		4.8	20	
	Sk	iPP		17	55	40
		iPKKP		18	05	15
	New Britain.					
	Magn. = 6.4 (Up, Ki).					
» 19	Up	iP		23	50	40
» 20	Up	iP		02	15	14
» 20	Up	iP		02	34	33 C
	Sk	iP		02	34	24
	Hokkaido, Japan.					
» 20	Up	iP		04	25	36
				μ	s	
	P	z′		0.4	1.0	
	M	E		2.2	23	
	M	N		1.9	21	
	M	z		1.8	21	
	Ki	No time marks.				
				μ	s	
	P	z′		0.1	1.0	
	M	E		1.7	17	
	M	N		1.2	18	
	M	z		0.9	14	
	Sk	iP		04	25	21
	Off southeast coast of Kamchatka.					
	Magn. = 6.0 (Up, Ki).					
» 20	Up	iP		10	35	48
	Sk	eP		10	35	55
	Off northwest coast of Luzon.					

1956 Mar. 20	Up	iP		11	38	02
	Kurile Islands.					
» 20	Up	iP		16	24	48
		e		16	25	04
	Ki	iP		16	25	34
		i		16	26	15
	Sk	eP		16	25	35
	Caucasus.					
» 20	Up	e(P)		17	24	25
	Ki	iP		17	24	49
» 20	Up	iPKP		17	30	37
	Ki	iPKP		17	30	29
	Fiji Islands.					
	Deep (h ~ 500 km).					
» 20	Ki	iP		20	14	53
	Sk	eP		20	14	51
» 20	Up	ePKP		20	37	12
	Sk	iPKP		20	37	07
	Kermadec Islands region.					
» 20	Up	iP		22	16	34
	Ki	iP		22	16	15
» 21	Up	e(P)		01	37	57
	Ki	e(P)		01	34	02
» 21	Up	iP		01	56	46
	Ki	iP		01	57	31
	Sk	eP		01	57	34
	Arabia.					
» 21	Up	iP		05	00	30
		i		05	01	01
		iS		05	05	11
		i		05	08	33
		iLg1		05	08	50
		iLg2		05	09	41
				μ	s	
	P	z′		0.4	1.2	
	S	E		0.8	6	
	S	N		1.7	10	
	M	E		4.9	15	
	M	N		4.6	15	
	M	z		7.7	15	
	△ = 3000 km = 27°.					
	Ki	iP		05	01	06 D
		i		05	01	51
		i		05	02	47
		e(S)		05	05	59
		e		05	06	59
		iSSS		05	08	16
				μ	s	
	P	z′		0.6	1.0	
	M	E		6.5	18	
	M	N		2.9	18	
	M	z		9.7	19	
	△ = 3450 km = 31°.					

1956 Mar. 21 (cont.)	Sk	iP		05	01	06
		i		05	01	59
	Caucasus.					
	Magn. = 6.0 (Up, Ki).					
» 21	Ki	eP		06	43	15
» 21	Ki	eP		07	24	02
» 21	Up			—		
				μ	s	
	M	E		1.2	18	
	M	N		1.1	20	
	M	z		1.7	24	
	Ki	i(PKP)		18	28	01
				μ	s	
	M	E		1.3	23	
	M	N		0.5	16	
	M	z		1.2	18	
» 21	Ki	iP		20	53	27
» 21	Ki	e(P)		21	33	55
» 22	Up	e(P)		02	08	19
» 22	Up	iP		06	47	18
		ipP		06	47	42
		epPP		06	51	42
		eS		06	58	25
		ePS		06	59	56
				μ	s	
	P	z		0.4	3	
	pP	z′		0.2	1.5	
	S	E		1.0	5	
	M	E		3.4	25	
	M	N		2.1	23	
	M	z		4.7	26	
	△ = 10600 km = 95½°.					
	Ki	iP		06	47	20
		ipP		06	47	44
		ePP		06	51	14
		iSKKS		06	57	53
		iS		06	58	24
		iPS		06	59	59
				μ	s	
	P	z		0.7	6	
	P	z′		0.5	2.2	
	pP	z′		0.3	1.6	
	PP	z′		0.8	2.5	
	S	E		2.6	9	
	S	N		0.6	9	
	M	E		3.5	23	
	M	N		2.5	26	
	M	z		7.9	26	
	△ = 10600 km = 95½°.					
	Sk	iP		06	47	06
		ipP		06	47	30
		iPKKP		07	04	12
	Ecuador.					
	h = 90 km (Up, Ki, Sk).					
	Magn. = 6.5 (Ki).					

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1956
Mar 22 Up iP 08 47 23
» 22 Up iP 15 26 38
Ki iP 15 27 07
i 15 33 45
Sk iP 15 27 19
» 22 Up eL 17 03
μ s
M E 1.2 18
M N 1.5 17
M Z 1.7 20
Ki eL 17 04
μ s
M E 1.3 21
M N 0.6 17
M Z 1.6 19
» 22 Ki iP 18 50 25
» 23 Ki eP 04 03 33
» 23 Up iPKP 05 29 32
Ki ePKP 05 29 19
New Britain.
» 23 Up iP 05 49 44
Ki iP 05 49 37
Sk iP 05 50 01
» 23 Up iP 05 59 54
i 06 00 03
eS 06 07 39
μ s
P z′ 0.1 1.0
M E 3.3 16
M N 1.1 13
M Z 4.1 16
△ ~ 6200 km ~ 56°.
Ki eP 05 59 42
μ s
M E 3.0 15
M N 2.1 20
M Z 3.1 15
Sk iP 06 00 06
Tibet.
Magn. = 5.7 (Up, Ki).
» 23 Ki iP 07 21 02
» 23 Ki eP 12 34 34
» 23 Up i(P) 18 06 37
Seismic?
» 23 Up iP 19 09 37
i 19 10 04
Ki iP 19 09 32
i 19 09 59
Sk iP 19 09 52
i 19 10 20

1956
Mar 23 Ki iP 21 02 31
» 23 Up iP 22 30 21
Ki e(P) 22 30 57
» 23 Up iPKP 22 33 03
μ s
PKP z′ 0.1 1.0
Ki e(PKP) 22 32 39
Sk iPKP 22 32 57 D
Kermadec Islands.
» 24 Ki iP 16 00 54
» 24 Ki iP 17 04 21
» 24 Up iP 22 34 12
» 24 Up eP 22 41 24
» 24 Ki iP 23 08 04
» 25 Ki eP 05 56 59
Sk eP 05 56 52
Near coast of Guatemala and El Salvador.
» 25 Ki iP 08 03 37
» 25 Up iP 23 38 10C
i 23 38 18
eS 23 46 46
μ s
P N 0.8 2
P Z 1.7 2
P z′ 1.6 1.4
S N 0.4 6
M E 2.2 17
M N 4.0 18
M Z 5.0 18
△ = 7150 km = 64½°.
Ki iP 23 37 19C
eS 23 45 11
μ s
P N 0.3 5
P Z 0.8 4
P z′ 1.0 1.5
S E 0.5 14
M E 4.3 19
M N 1.5 19
M Z 5.4 19
△ = 6350 km = 57°.
Sk iP 23 37 54
Near southeast coast of Kamchatka.
Magn. = 6.6 (Up, Ki).
» 26 Up iP 00 11 48
» 26 Up i(P) 00 23 01
Ki i(P) 00 23 17

1956
Mar 26 Up iP 01 47 25
» 26 Up iP 03 01 28
Ki iP 03 00 37
» 26 Up iP 03 31 24C
i 03 31 43
μ s
P z′ 0.2 1.3
Ki iP 03 30 32C
i 03 30 43
μ s
P z′ 0.1 1.0
Sk iP 03 31 08
Near southeast coast of Kamchatka.
» 26 Up iP 03 35 13C
μ s
P z′ 0.2 1.2
Ki iP 03 34 22C
μ s
P z′ 0.1 1.0
Sk eP 03 34 57
Near southeast coast of Kamchatka.
» 26 Up iP 04 10 04C
i 04 11 14
iPP 04 12 24
eS 04 18 41
μ s
P N 0.1 2
P Z 0.4 2
P z′ 0.9 1.4
PP z′ 0.2 1.2
S N 0.6 11
M E 2.7 17
M N 3.9 17
M Z 4.7 17
△ = 7150 km = 64½°.
Ki iP 04 09 12C
iPP 04 11 33
i 04 11 43
eS 04 17 04
μ s
P Z 0.6 8
P z′ 0.3 1.0
PP z′ 0.1 1.0
S E 0.4 14
S N 0.3 14
M E 3.1 19
M N 2.1 20
M Z 5.4 19
△ = 6300 km = 56½°.
Sk iP 04 09 48
Near southeast coast of Kamchatka.
Magn. = 6.2 (Up, Ki).
» 26 Up i(P) 04 10 17
Northeast of Puerto Rico.
» 26 Up iP 04 32 19C

1956
Mar 26 (cont.)
μ s
P z′ 0.1 1.1
Ki iP 04 31 26
» 26 Up iP 05 07 05
Ki iP 05 06 13
» 26 Up iP 05 20 38
Ki iP 05 19 47
» 26 Up iPP 05 39 58
μ s
PP z′ 0.1 1.5
Ki e 05 40 04
Sk iPP 05 39 51
Northern Chile-Argentina border.
» 26 Ki iP 06 01 25
» 26 Ki iP 08 26 25
Sk iP 08 26 54
Alaska.
» 26 Up iP 17 12 53
μ s
P z′ 0.1 1.3
Ki iP 17 12 00
Near southeast coast of Kamchatka.
» 26 Up iP 17 53 36
» 26 Up iP 22 55 38
Sk iP 22 56 22
Greece.
» 27 Up iPKP 02 59 02
Ki iPKP 02 58 30
Sk ePKP 02 58 59
New Zealand.
» 27 Up eP 11 05 41
» 27 Ki i(PP) 20 30 14
(Colombia).
» 28 Up iP 03 32 35
μ s
P z′ 0.1 1.0
Aleutian Islands.
» 28 Up iP 03 35 50
» 28 Ki eP 06 19 45
» 28 Up iP 11 43 51
Ki eP 11 45 05
Sk iP 11 44 35
Greece.

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1956
Mar 28 Up iP 22 16 27 D

			μ	s
	P	z′	0.1	0.6
Ki	iP		22 15 55	
Sk	eP		22 16 26	

Off south coast of Honshu, Japan.
Deep (h ~ 500 km).

» 29 Ki iP 20 37 48
i 20 37 54

		μ	s
i	z′	0.1	0.9

» 29 Ki iP 20 49 05
i 20 49 09
Record very similar to the preceding one.
Possibly not seismic.

» 30 Up iP 02 41 24
i 02 41 27

» 30 Up i(P) 02 45 50

» 30 Sk iP 06 13 34
Off coast of Guatemala.

» 30 Up eP 06 21 23

		μ	s
P	z′	0.1	1.8
M	N	0.9	20
M	Z	1.7	20

Kamchatka.
Volcanic explosion.

» 30 Up iPKP 08 15 24
Ki ePKP 08 15 02
Sk iPKP 08 15 19
Off northeast coast of North Island, New Zealand.

» 30 Up i(P) 11 11 13

» 30 Up iP 12 26 12C
i 12 26 24

		μ	s
P	z′	0.2	1.2
Ki iP		12 25	20C
i		12 25	32
P	z′	0.1	1.0
Sk iP		12 25	56

Near southeast coast of Kamchatka.

» 30 Up iP 14 16 32

» 30 Up iP 14 31 58

» 30 Up iP 16 51 50

» 30 Up iP 18 00 48

1956
Mar 30 (cont.) Ki iP 17 59 49
Sk eP 18 00 17
Alaska.

» 30 Up iP 18 55 04 D

		μ	s
P	z′	0.1	1.0
Ki iP		18 54	23
Sk eP		18 54	53

Off coast of northern Honshu, Japan.

» 30 Up iP 21 04 51

» 30 Up e(P) 21 41 59

» 30 Up iPKP 22 34 57
ePP 22 37 59
Tonga Islands region.

» 31 Up eP 01 45 11
Northeast of Puerto Rico.

» 31 Up iP 08 32 19
Near coast of Colombia.

» 31 Up eP 11 08 58

» 31 Up iP 11 12 00
Ki iP 11 11 06

» 31 Up iP 12 03 09

» 31 Up iP 14 09 55
eLgl 14 13 28
eLg2 14 13 52
Ki iP 14 11 36
Sk iP 14 10 50
Hungary.

Apr 1 Up iP 06 49 28C
i 06 49 44
Ki iP 06 49 30 D
i 06 49 32

		μ	s
P	z′	0.1	1.0
Sk eP		06 49	43

Near west coast of Sumatra.

» 1 Up eL 12 13

		μ	s
M	E	1.9	18
M	N	1.9	21
M	Z	1.6	18

South Pacific Ocean.

» 1 Up iP 12 27 12C

		μ	s
P	z′	0.2	1.3
Ki iP		12 26	19C
P	z′	0.1	0.8

1956
Apr 1 (cont.) Sk iP 12 26 56
Near east coast of Kamchatka.

» 1 Up iP 12 48 27
Kurile Islands.

» 1 Up iP 13 25 43

» 1 Up iP 19 25 49

		μ	s
P	z′	0.1	1.0
Ki eP		19 26	34

South Atlantic Ocean.

» 2 Up iP 01 28 19

» 2 Up iP 11 02 20C
i 11 02 31
iS 11 12 34

		μ	s
i	z′	0.3	1.4
S	E	1.8	10
S	N	5.3	15
M	E	7.4	23
M	N	12	26
M	Z	9.2	21

△ = 9150 km = 82½°.
Ki iP 11 02 22C
i 11 02 33
iPP 11 05 37
iS 11 12 40

		μ	s
P	z	1.5	5
P	z′	0.2	1.0
i	z′	0.4	1.1
PP	z′	0.1	1.0
S	E	2.6	10
S	N	3.3	12
M	E	12	18
M	N	6.3	16
M	Z	13	18

△ = 9200 km = 83°.
Sk iP 11 02 35C
Off west coast of Sumatra.
Magn. = 6.5 (Up, Ki).

» 2 Up iP 11 13 55
ipP 11 14 16

		μ	s
P	z′	0.1	1.0
pP	z′	0.3	1.0
Ki iP		11 13	51
ipP		11 14	12
P	z′	0.1	1.0
pP	z′	0.1	1.0
Sk iP		11 14	11
ipP		11 14	34

Tibet.
h = 90 km (Up, Ki, Sk).

1956
Apr 2 Up iPKP 17 03 45

		μ	s
PKP	z′	0.1	1.0
Ki ePKP		17 03	23
Sk iPKP		17 03	37

Kermadec Islands.
Intermediate depth (h ~ 200 km).

» 3 Up iP 00 45 32

» 3 Ki i(P) 08 50 57

» 4 Up iP 07 37 50
Ki e(P) 07 38 26

» 4 Ki e(P) 14 08 14
i(Sg) 14 08 59
Local?

» 4 Up iP 14 11 12
Ki iP 14 11 13

» 5 Ki iP 01 29 25

» 5 Up iP 04 12 29C

		μ	s
P	z′	0.3	1.5
Ki iP		04 11	36
Sk iP		04 12	12

Near east coast of Kamchatka.

» 5 Ki eP 17 30 39
Aleutian Islands.

» 5 Up iP 22 35 07
Ki iP 22 35 46
Sk eP 22 35 42

» 6 Up iP 07 19 01C
isP 07 20 13
iPP 07 20 36
isPP 07 21 42
iS 07 24 56
i! 07 27 58

		μ	s
P	E	3.9	2
P	z′	6.2	1.4
PP	E	3.7	3
PP	N	0.5	2
PP	Z	3.3	3
PP	z′	1.7	1.2
S	z′	1.0	1.7
Ki iP		07 19	10C
ipP		07 19	54
isP		07 20	23
iPP		07 20	51
isPP		07 21	54
iS		07 25	13
isS		07 26	32
e		07 26	45
iSS		07 28	23

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1956
Apr 6
(cont.)

				μ	s
		P	E	3.4	6
		P	N	1.7	6
		P	Z	4.6	6
		P	Z′	0.9	1.0
		PP	Z	1.6	5
		S	E	2.7	6
		S	N	4.7	7

△=4650 km=42°.

	Sk	iP	07	19	26C
		iPP	07	21	02
		iSS	07	29	06

Hindu Kush.
h=210 km (Ki). Magn.=6.8 (Up, Ki).
The amplitudes of sPP are unusually large.

»	6	Up	iPKP	16	46	38
		Ki	iPKP	16	46	24
		Sk	iPKP	16	46	36 D

New Hebrides Islands.

»	6	Up	e(P)	19	10	26
»	7	Ki	iP	00	11	22

		μ	s
M	E	0.6	15
M	N	0.4	16
M	Z	1.0	16

Revilla Gigedo Islands.

»	7	Ki	iP	04	38	37

		μ	s
M	E	0.6	15
M	N	0.4	14
M	Z	0.6	14

Western Pakistan-India border.

»	7	Ki	iP	06	16	12
			i	06	16	22

Irak-Iran border.

»	7	Up	iP	11	05	19
»	7	Up	iPKP	18	20	07 D

		μ	s
PKP	Z′	0.2	1.0
M	E	1.1	21
M	N	1.7	21
M	Z	1.8	21

	Ki	iPKP	18	19	45
		iSKP	18	22	53

		μ	s
M	E	1.7	21
M	N	1.0	24
M	Z	2.0	21

	Sk	iPKP	18	20	02 D
		i	18	20	05

Kermadec Islands.
Deep (h ~ 350 km).

1956
Apr 7

	Up	iPKP2	18	24	51

			μ	s
	PKP2	Z′	0.3	1.4

	Ki	iPKP	18	24	22

		μ	s
PKP	Z′	1.3	2.5

	Sk	iPKP2	18	24	46

Off coast of North Island, New Zealand.

»	7	Up	iP	21	33	34
		Ki	iP	21	33	18
»	8	Up	iP	06	29	01
»	8	Up	iPKP	10	52	14

Tonga Islands region.

»	8	Up	iP	13	46	32
		Sk	iP	13	47	11
»	9	Up	iP	15	37	51
		Ki	iP	15	36	59

Aleutian Islands.

»	9	Up	iP	17	08	53
		Ki	eP	17	08	08

Northeast coast of Hokkaido, Japan.
Deep (h ~ 320 km).

»	10	Up	iP	13	28	50
			iP	13	28	51
			ipP	13	29	23
			isP	13	29	38
			iSKS	13	39	02
			iS	13	39	28
			esS	13	40	23

		μ	s
P	Z′	0.4	1.2
pP	Z′	1.3	1.7
SKS	E	4.5	7
SKS	N	1.3	6
S	E	9.9	7
S	N	4.2	8
S	Z	2.9	7
M	E	2.0	19
M	N	2.2	20
M	Z	3.1	20

△=10050 km=90½°.

	Ki	iP	13	28	49
		iP	13	28	51
		ipP	13	29	22
		isP	13	29	37
		iSKS	13	39	02
		iS	13	39	24
		i(SP)	13	40	17
		isS	13	40	25

		μ	s
P	Z′	0.7	1.0
pP	Z′	1.1	1.3
SKS	E	4.4	8
S	E	10.7	8

1956
Apr 10
(cont.)

		S	N	4.5	9
		S	Z	2.8	9
		M	E	5.7	20
		M	N	3.7	20
		M	Z	3.8	16

△=10000 km=90°.

	Sk	iP	13	29	04C
		iP	13	29	05
		ipP	13	29	36

South coast of Sumatra.
h=130 km (Up, Ki).
Magn. ~ 7 (Up, Ki).
The P phase is multiple at all three stations, the first P having very small amplitude. The S waves are unusually large in relation to P.

»	10	Up	iP	15	15	22
»	10	Ki	eP	20	45	35
»	11	Up	iP	01	52	39
			iPP	01	54	09
			i	02	01	11

		μ	s
P	Z′	0.1	1.1
PP	Z′	0.2	1.5
M	E	1.0	15
M	N	1.7	13
M	Z	1.5	15

△=4400 km=39½°.

	Ki	eP	01	52	45
		i	01	52	52
		i	02	01	15

		μ	s
M	E	1.0	11
M	N	0.6	10
M	Z	1.4	12

	Sk	iP	01	53	03
		iPP	01	54	38

△=4650 km=42°.
Tadzhik, USSR.
Magn.=5.8 (Up).

»	11	Ki	iP	07	35	57
»	11	Ki	i(P)	13	28	39
»	12	Up		—		

		μ	s
M	E	1.9	27
M	N	0.8	18
M	Z	1.7	20

	Ki	ePS	05	34	36

		μ	s
M	E	1.1	22
M	Z	1.9	22

Northern Chile.

»	12	Ki	iP	07	57	43

1956
Apr 12

	Ki	iP	19	32	59
»	12	Up	iP	22	41	02
			iP	22	41	07

		μ	s
P	Z′	0.2	1.0
M	E	1.8	20
M	N	1.6	18
M	Z	2.2	16

	Ki	iP	22	41	40
		iP	22	41	45
		i	22	42	31
		iSS	22	48	55

		μ	s
P	Z′	0.2	1.0
M	E	2.3	16
M	N	1.6	14
M	Z	3.2	17

	Sk	iP	22	41	39
		iP	22	41	45
		iPP	22	42	47

△=3800 km=34°.
Northern Iran.
P is multiple at all three stations, the first P having very small amplitude.

»	13	Up	iP	07	11	23
			i	07	11	39
		Ki	iP	07	12	30

		μ	s
M	Z	1.5	20

		Sk	iP	07	12	01

South of Crete.

»	13	Up	e(P)	07	15	45
		Sk	e(P)	07	17	27
»	13	Up	eP	08	05	41
		Ki	iP	08	04	51

Near south coast of Kamchatka.

»	13	Ki	i(P)	10	59	24
»	14	Up	iP	00	28	43
»	14	Up	i(P)	09	58	39
»	14	Up	eP	20	39	35
»	15	Up	iP	12	53	35

		μ	s
M	E	0.5	14
M	N	0.3	10
M	Z	1.0	14

		Ki	iP	12	53	40

		μ	s
M	E	0.6	11
M	N	0.3	10
M	Z	0.8	14

		Sk	eP	12	54	00
			iPP	12	55	37

Pamir.

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1956
Apr 16 Up iP 01 52 49
Ki iP 01 51 55
Sk eP 01 52 32
Near east coast of Kamchatka.

» 16 Up iP 10 59 45C
iPP 11 03 18

		μ	s
P	z′	0.1	1.0

△ ~ 10000 km ~ 90°.

Ki iP 10 59 44

		μ	s
P	z′	0.3	0.8

Sk iP 10 59 58C
Near south coast of Sumatra.

» 16 Up iP 23 30 40

» 17 Ki i(P) 07 31 02
i 07 31 29
Seismic?

» 17 Up iP 12 27 26
Sk iP 12 27 23
Off south coast of Honshu, Japan.
Deep.

» 17 Up iP 15 39 21
Sk iP 15 40 06

» 18 Up iP 02 06 25

		μ	s
P	z′	0.1	0.8

Sk iP 02 06 43 D
Southeastern Tibet.

» 18 Up iP 11 11 16
i 11 11 18
iS 11 20 11

		μ	s
P	z′	0.2	1.0
S	E	1.5	10
S	N	1.0	8
M	E	3.8	18
M	N	2.4	18
M	Z	3.4	18

△ = 7550 km = 68°.

Ki iP 11 10 26
iPP 11 12 39
e(Pa) 11 14 09
eS 11 18 36

		μ	s
P	Z	0.4	9
PP	N	0.3	9
PP	Z	0.4	9
S	E	1.7	10
S	N	0.8	9
M	E	3.4	20
M	N	2.3	18
M	Z	4.6	19

△ = 6650 km = 60°.

1956
Apr 18 (cont.) Sk iP 11 10 57
Aleutian Islands.
Magn. = 6.0 (Up, Ki).

» 18 Up iP 12 55 53
iS 12 58 35
iLg1 13 00 19
△ = 1600 km = 14½°.
Ki eP 12 57 22
eS 13 01 33
eLg1 13 03 53
Sk eP 12 56 58
iS 13 00 35
iPcP 13 01 26
iLg1 13 02 38
△ = 2200 km = 20°.
Rumania.

» 18 Up iP 14 36 59

		μ	s
P	z′	0.1	1.0

» 18 Up iP 18 06 09
Ki iP 18 05 15
eS 18 13 33

		μ	s
S	E	0.2	9
M	E	0.5	19
M	N	0.4	19
M	Z	0.6	16

△ ~ 6650 km ~ 60°.
Aleutian Islands.

» 19 Up iP 11 38 21

» 19 Up iP 17 20 25
Ki eP 17 20 32
Sk iP 17 20 45

» 19 Ki eP 18 45 32
Southern Spain.

» 20 Up iP 01 32 43

» 20 Ki e(P) 02 18 20

» 20 Up iP 04 52 25
Ki eP 04 51 55
eS 05 01 28

		μ	s
M	E	0.6	16
M	N	0.6	18
M	Z	0.9	17

△ ~ 8350 km ~ 75°.
Bonin Islands region.

» 20 Up eP 06 33 35
Ki i(P) 06 33 26

» 20 Up iP 12 22 37

1956
Apr 20 Up eP 15 30 01
iPP 15 34 32

		μ	s
PP	z′	0.1	1.5

Ki iP 15 29 46C
i 15 33 00
i(PKP) 15 33 54
eSKS 15 40 12
iS 15 41 17
eSS 15 48 37

		μ	s
P	z′	0.2	1.0
SKS	E	0.4	9
S	E	0.5	7
M	E	0.8	18
M	N	0.9	22
M	Z	1.1	17

△ ~ 11550 km ~ 104°.
Sk iP 15 30 07
i 15 34 14
iPKKP 15 45 25
Banda Sea.
h ~ 150 km (Ki).

» 20 Up iP 16 49 18
i 16 49 25

		μ	s
P	z′	0.5	1.7

Ki iP 16 49 41
i 16 49 49

		μ	s
P	z′	0.1	1.1

Sk iP 16 49 41C
Southwest of Chagos Islands.

» 20 Ki e(P) 23 48 50

» 21 Ki e(P) 01 11 11

» 21 Up iP 01 37 13
Sk eP 01 37 29
South of Formosa.

» 21 Ki i(P) 14 06 53
Sk e(P) 14 06 39
Off south coast of Nicaragua.

» 21 Up i(PKP) 17 30 30
Sk eSKP 17 33 18
Fiji Islands.
Deep (h ~ 600 km).

» 22 Up iP 00 30 15

» 22 Up iPKP 04 07 31C
i 04 07 35
Sk iPKP 04 07 25
i 04 07 38
Kermadec Islands.

» 22 Up i(PKP) 04 59 03

		μ	s
M	E	2.1	20

1956
Apr 22 (cont.) M N 2.0 20
M Z 2.2 18
Ki e 04 57 13
ePS 05 09 28
eSS 05 15 33

		μ	s
M	E	1.6	18
M	N	1.2	18
M	Z	3.2	19

Sk ePKP 04 59 33
New Britain.
Magn. = 6.5 (Up, Ki).

» 22 Up iP 17 32 46C
iS 17 41 35
iScS 17 42 42

		μ	s
P	N	0.6	5
P	Z	0.9	5
P	z′	0.2	1.3
S	E	0.8	6
S	N	2.7	11
M	E	4.4	17
M	N	6.8	17
M	Z	5.3	18

△ = 7450 km = 67°.
Ki iP 17 31 53C
iS 17 39 57
e(Sa) 17 46 56

		μ	s
P	N	0.9	5
P	Z	0.9	5
P	z′	0.3	1.1
S	E	1.2	12
S	N	2.5	11
S	Z	1.9	12
M	E	5.9	17
M	N	2.6	15
M	Z	6.7	16

△ = 6550 km = 59°.
Sk iP 17 32 21C
South of Alaska Peninsula.
Magn. = 6.5 (Up, Ki).

» 23 Up iP 03 42 45C
iPcP 03 43 09
iS 03 51 45
iPS 03 52 04

		μ	s
P	E	0.7	5
P	N	1.5	5
P	Z	4.0	5
P	z′	1.8	1.2
S	E	1.8	5
S	N	2.2	8
M	E	10.4	16
M	N	10.4	16
M	Z	13	17

△ = 7650 km = 69°.
Ki iP 03 42 01C
iS 03 50 24

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1956
Apr 23
(cont.)

				μ	s
	P	E		1.0	6
	P	N		0.8	6
	P	Z		2.2	5
	P	Z′		1.1	1.5
	S	E		2.2	7
	S	N		2.2	8
	M	E		7.8	15
	M	N		4.4	16
	M	Z		11	15

△=6900 km=62°.

Sk iP 03 42 36C
Off east coast of Hokkaido, Japan.
Slightly deeper than normal.
Magn.=6.8 (Up, Ki).

» 23 Ki iP 04 13 44
» 23 Ki eL 09 29

			μ	s
M	E		0.8	18
M	N		0.6	20
M	Z		1.2	18

South Atlantic Ocean.

» 23 Ki eP 14 03 27
» 24 Up eP 01 25 26
» 24 Up iP 02 27 21
» 24 Ki iP 14 54 52
» 24 Up iP 16 45 55
» 24 Up eP 21 52 37
Sinkiang-Tadzhik border.

» 24 Up iP 23 35 16
i 23 35 29

			μ	s
P	Z′		0.2	1.3

Ki iP 23 34 25 D
i 23 34 37
Off southeast coast of Kamchatka.

» 25 Ki iP 00 28 07
» 25 Up iP 03 00 44
» 25 Up iP 08 05 47
i 08 05 55

			μ	s
P	Z′		0.1	1.3
M	E		1.1	14

Sk eP 08 06 29
Greece.

» 25 Up eL 09 25

			μ	s
M	E		1.4	21

1956
Apr 25
(cont.)

				μ	s
	M	N		1.1	21
	M	Z		1.8	21

Ki eL 09 23

			μ	s
M	E		1.9	21
M	N		0.8	21
M	Z		3.8	22

Fiji Islands.

» 25 Up iP 19 14 09
» 25 Up iP 20 55 22
» 26 Up iP 02 23 46 D
» 26 Up eP 03 03 53
Italy.
» 26 Up eL 08 39

			μ	s
M	E		1.5	23
M	N		1.2	22
M	Z		1.6	23

Ki eL 08 37

			μ	s
M	E		0.9	20
M	N		0.7	20
M	Z		3.0	22

Fiji Islands.

» 26 Up iP 11 50 01
i(pP) 11 50 14

			μ	s
P	Z′		0.1	1.0
M	E		1.3	24
M	N		1.1	24
M	Z		1.7	24

Ki iP 11 49 23 D
i(pP) 11 49 36

			μ	s
P	Z′		0.1	1.2
M	E		1.1	22
M	N		0.8	24
M	Z		1.7	18

Sk iP 11 49 56
i(pP) 11 50 09
Honshu, Japan.

» 26 Up iP 15 02 29
i 15 02 31

			μ	s
P	Z′		0.2	1.0
M	N		0.6	13

Ki iP 15 01 42
e(Lg2) 15 21 56
e 15 23 50

			μ	s
P	Z′		0.1	1.0
M	E		0.8	17
M	N		0.5	15

1956
Apr 26
(cont.)

				μ	s
	M	Z		0.8	15

Northern Sakhalin.
Magn.=6.0 (Up, Ki).

» 26 Up iP 17 09 54
e 17 10 20

			μ	s
M	N		0.8	19
M	Z		1.2	17

Ki eP 17 09 08

			μ	s
M	E		0.5	16
M	N		0.4	16
M	Z		0.8	15

Kurile Islands.

» 26 Up iP 21 19 26
» 28 Up iP 06 48 57
Ki eP 06 48 29
eSKS 06 58 57

			μ	s
P	Z′		0.1	1.5
SKS	E		0.4	12
SKS	N		0.3	12

Sk iP 06 48 55
Marianas Islands.

» 28 Up iP 07 10 50
epP 07 11 29
Ki iP 07 10 38C
ipP 07 11 17
eS 07 20 40

			μ	s
P	Z′		0.3	1.0
S	E		0.4	9

△=9300 km=83½°.

Sk iP 07 10 32C
ipP 07 11 11
Mexico. h=160 km (Up, Ki, Sk).

» 28 Up iP 14 39 04
Sk iP 14 38 54
» 28 Up iPKP 15 14 15C
i 15 14 36

			μ	s
PKP	Z′		0.1	1.0

Ki e(PKP) 15 13 50
iPKP 15 14 01

			μ	s
M	E		1.0	23
M	N		0.9	23
M	Z		2.1	23

Sk iPKP 15 14 10
i 15 14 20
Kermadec Islands.

» 29 Up iP 17 35 09
» 29 Up iP 20 16 42
» 29 Up iP 22 03 56C

1956
Apr 29
(cont.)

i 22 04 10

			μ	s
P	Z′		0.3	1.3

Ki iP 22 04 30
i 22 04 38

			μ	s
P	Z′		0.3	1.3

Amirante Islands, Indian Ocean.

» 30 Up iP 12 19 39
Ki iP 12 20 19
Caucasus.
» 30 Ki eP 12 40 11
i 12 41 54

May 1 Up iP 02 55 13C
i 02 55 30
iPP 02 58 46
iSKS 03 05 39
e 03 06 32

			μ	s
P	Z′		0.5	0.9
PP	Z′		0.2	1.4
M	N		1.1	23
M	Z		0.7	19

△=10100 km=91°.

Ki iP 02 55 12C
i 02 55 23
i 02 55 28
iPP 02 58 49
eSKS 03 05 35
eS 03 05 59
e 03 06 38

			μ	s
P	Z′		1.2	1.0
PP	Z′		0.1	1.3
S	E		0.4	9
M	E		0.9	18
M	N		0.8	21
M	Z		1.2	18

△=10100 km=91°.

Sk iP 02 55 26C
i 02 55 42
iPP 02 59 17

△=10500 km=94½°.
Near south coast of Sumatra.
Slightly deeper than normal.
Magn.=6.6 (Up, Ki).

» 1 Up iP 05 32 36
» 1 Up iP 06 22 44
» 1 Up iP 21 16 03
» 1 Up iP 22 24 04
Sk iP 22 24 17
» 2 Up iP 06 45 40
epP 06 47 38

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1956
May 2 (cont.) Ki iP 06 45 09
e 06 46 39
Sk iP 06 45 37
Bonin Islands region.
h=550 km (Up).

» 2 Up iPKP 17 07 44C
Kermadec Islands region.

» 2 Up iPKP 18 27 15
Probably Kermadec Islands region.

» 3 Up iP 15 41 16

» 3 Up iP 17 33 32
Ki iP 17 33 19

		μ	s
M	E	0.9	11
M	N	0.4	10
M	Z	1.2	12

Central Asia.

» 4 Ki eP 05 37 24

» 4 Ki eP 10 39 51

» 4 Ki iP 11 20 45

» 4 Up iP 18 57 50
Ki iP 18 57 31C
Luzon.

» 4 Up iP 23 28 41
Near southeast coast of England.

» 5 Sk iP 00 45 29

» 5 Ki e(PKP) 03 41 44
Samoa Islands region.

» 5 Ki eP 08 25 58

» 5 Up iP 19 40 57
Greece.

» 5 Up iP 20 46 45

» 5 Up iP 20 47 09
Ki iP 20 48 16
Southwest coast of Turkey.

» 5 Ki iP 22 34 45
Southwest coast of Turkey.

» 6 Up iP 21 08 07C
i 21 08 10

		μ	s
P	z′	0.3	1.0
M	E	1.2	19
M	N	1.9	18
M	Z	2.0	19

1956
May 6 (cont.) Ki iP 21 07 13
i 21 07 16
iPcP 21 08 07

		μ	s
P	z′	0.4	1.0
M	E	1.4	22
M	N	1.1	23
M	Z	1.7	18

△=6450 km=58°.
Sk iP 21 07 42
i 21 07 45
Alaska.

» 6 Up iP 22 13 30
Ki iP 22 12 44
Kurile Islands.

» 6 Up iP 23 23 12D
Ki iP 23 23 21

» 6 Up iP 23 43 51
Ki iP 23 42 57

» 7 Up iP 00 54 41
Ki eP 00 54 22

» 7 Up iP 03 57 38
Ki iP 03 59 00
Sk iP 03 58 30
Rumania.

» 7 Up iP 08 29 28
Ki iP 08 29 21
Sk eP 08 29 10
Guatemala.

» 7 Up iPKP 11 17 18
e 11 35 28
eSS 11 35 49

		μ	s
M	E	7.1	24
M	N	6.1	20
M	Z	9.4	24

Ki iPKP 11 17 25
eSKKS 11 26 23

		μ	s
M	E	5.7	20
M	N	2.3	18
M	Z	9.4	22

Sk iPKP 11 17 25
South Indian Ocean.
Magn.=6.7 (Up, Ki).

» 7 Up iP 11 37 16

» 7 Ki iP 20 56 22

» 7 Up e(P) 22 55 36
i(Sg) 22 56 32
Local?

1956
May 8 Up iP 03 19 51
Ki iP 03 19 30
i 03 20 25
Near north coast of Luzon.

» 8 Up iP 10 50 04
Ki eP 10 47 36
i 10 48 21
e 10 50 22
eT 10 54 49

		μ	s
M	E	0.9	16
M	N	0.4	12
M	Z	1.2	18

Sk iP 10 49 10
Arctic Ocean.

» 8 Up iP 16 47 00

» 8 Up eP 19 57 47
Ki iP 19 57 49C

		μ	s
M	N	0.8	12

Sk eP 19 58 15
Hindu Kush.

» 8 Up iP 20 57 39

		μ	s
P	z′	0.2	1.5

Ki iP 20 58 16

		μ	s
P	z′	0.2	1.7
M	N	0.5	14

Sk iP 20 58 15D
Iran.

» 9 Up iP 00 23 52
Ki iP 00 22 59

» 9 Up iP 18 56 02
i 18 56 14

		μ	s
P	z′	0.1	0.7

Ki iP 18 55 45
Sk iP 18 56 08
Off north coast of Luzon.

» 9 Up iP 22 23 45
Sk iP 22 23 39

» 9 Up iP 22 31 00

» 9 Ki i(P) 23 32 44

» 10 Up iP 05 58 11
ePP 06 02 02
Ki iP 05 57 45

		μ	s
P	z′	0.1	1.0

Marianas Islands.

1956
May 10 Up iP 16 47 27
Ki iP 16 46 33D
iPcP 16 47 22

		μ	s
P	z′	0.1	1.3

△=6550 km=59°.
Sk iP 16 47 02
Alaska.

» 10 Up iP 18 16 37
i 18 16 42

		μ	s
P	z′	0.1	1.0

Ki iP 18 15 03D
eT 18 26 45

		μ	s
P	N	0.9	3
P	Z	0.7	3
P	z′	0.6	2.2
M	Z	2.7	21

Sk iP 18 15 53
Off west coast of Spitsbergen. This is the first time a T phase has been observed at Kiruna from this locality.

» 10 Up iP 23 17 35
Ki iP 23 17 18
Molucca Passage.

» 11 Up iPKP 15 55 18
Ki iPKP 15 55 34
i(PKS) 15 58 52

		μ	s
PKP	z′	0.1	1.5

Sandwich Islands.

» 11 Up iP 16 05 14

» 11 Ki i(P) 22 39 57
iSg 22 41 07
Local.

» 11 Ki e(P) 23 10 26

» 12 Up iP 02 45 50

» 12 Up iP 03 34 15

» 12 Up iP 09 56 01
Ki iP 09 55 25C
Sk iP 09 55 57
South of Honshu, Japan.

» 12 Up iP 14 30 10

» 12 Up iP 21 51 30
Ki iP 21 50 46

		μ	s
P	z′	0.1	1.1

Sk iP 21 51 21
Off east coast of Hokkaido, Japan.

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1956
May 13 Up iP 04 33 20
Ki eP 04 31 55
i 04 32 02
North Polar region.

» 13 Ki i(P) 06 38 19

» 13 Up iP 07 58 55
ePcP 08 00 35
ePP 08 00 45
iS 08 05 45
e 08 07 45

		μ	s
P	z′	0.4	1.5
S	E	1.3	11
M	E	12	18
M	N	16	18
M	Z	14	18

△ ~ 5100 km ~ 46°.

Ki iP 07 59 13
iPcP 08 00 43

		μ	s
P	z′	0.2	2.0
M	E	9.2	17
M	N	5.9	17
M	Z	10.7	16

Sk iP 07 59 25C
Pakistan.
Magn. = 6.1 (Up, Ki).

» 13 Up iP 08 07 36
Ki eP 08 07 51

» 13 Up iP 09 02 43
Ki iP 09 01 19
i 09 01 26

		μ	s
P	z′	0.1	1.1

Sk iP 09 02 10
i 09 02 15
North Polar region.

» 13 Up iP 14 40 08

		μ	s
P	z′	0.1	1.3

Ki eP 14 38 44
i 14 38 52

		μ	s
i	z′	0.3	1.2
M	N	0.6	17

Sk iP 14 39 39
North Polar region.

» 13 Up iP 16 45 44

» 13 Up iP 21 50 43

» 13 Up iP 22 53 40

» 14 Up iP 02 40 53

1956
May 14 Sk eP 07 07 17

» 14 Up i(P) 16 48 18

» 14 Ki iP 21 01 44

» 15 Up i(P) 00 34 47

» 15 Up iP 04 58 47

» 15 Up iP 05 41 59

» 15 Ki iP 06 35 12

		μ	s
P	z′	0.1	0.6

» 15 Up iP 18 39 12
i 18 39 17
i 18 39 23
iS 18 43 17

		μ	s
P	N	0.7	4
P	z′	0.3	1.1
S	N	0.5	4
M	E	1.9	15
M	N	2.4	10
M	Z	2.8	11

△ = 2500 km = 22½°.

Ki eP 18 40 27

		μ	s
M	E	3.5	15
M	N	1.3	8

Sk iP 18 39 55
i 18 40 06
Near west coast of Greece.
Magn. = 5.8 (Up).

» 15 Up iP 23 01 53
i 23 02 04
iPP 23 02 27
iS 23 05 58

		μ	s
P	N	0.5	3
P	Z	0.6	3
P	z′	0.3	1.0
PP	z′	0.2	1.0
S	E	1.2	6
S	N	1.1	6
S	Z	1.3	5
M	E	5.0	15
M	N	4.8	11
M	Z	6.4	11

△ = 2500 km = 22½°.

Ki eP 23 03 05
e(Lg2) 23 13 41

		μ	s
M	E	7.6	17
M	N	1.9	13
M	Z	3.8	16

Sk iP 23 02 33
Ionian Islands.
Magn. = 6.0 (Up).

1956
May 16 Up iP 07 00 46

» 16 Up iP 10 24 35

» 16 Up iP 12 22 25

» 16 Up eP 14 23 22

» 16 Up e(P) 20 39 29

» 16 Ki iSKP 22 30 47
South of Fiji Islands.
Deep.

» 16 Ki eP 22 35 29

» 17 Up iP 00 14 47
Ki iP 00 14 56C

		μ	s
P	z′	0.1	1.0

Hindu Kush.
Intermediate depth.

» 17 Ki e(P) 03 46 56
i 03 47 09

» 17 Ki e(P) 16 30 41
i 16 30 57

» 17 Up iP 21 19 38 D

		μ	s
P	z′	0.2	1.0

Ki iP 21 18 44 D

		μ	s
P	z′	0.1	1.0

Sk iP 21 19 18 D
Aleutian Islands.

» 17 Up iP 23 05 26
Ki e(P) 23 04 20

» 17 Up iP 23 11 43
Ki iP 23 11 03
Off east coast of Honshu, Japan.

» 18 Up iP 03 43 06

» 18 Ki iP 06 08 36

» 18 Ki eP 09 40 14

» 18 Ki eP 10 03 55
Sk iP 10 04 24
Southern Alaska.

» 18 Up iP 15 00 52

		μ	s
P	z′	0.1	1.0

» 18 Up i(P) 18 36 38

1956
May 18 Up iP 21 38 25

» 18 Ki iP 21 59 08
iSg 22 00 04
Local.

» 18 Up iP 22 13 13
i 22 13 21
eS 22 17 12

		μ	s
P	N	0.3	2
P	Z	0.6	2
P	z′	0.9	1.7
S	E	0.9	7
M	E	4.9	15
M	N	2.3	10
M	Z	2.0	12

△ = 2400 km = 21½°.

Ki iP 22 14 28
eLg1 22 23 45

		μ	s
M	E	2.6	12
M	N	1.6	12
M	Z	2.7	13

Sk iP 22 13 56
i 22 14 13
Near east coast of Greece.
Magn. = 6.1 (Up).
The earthquakes in Greece often give multiple P phases at our stations, the first P phase generally being the weakest.

» 19 Up eL 01 27

		μ	s
M	E	1.3	20
M	N	1.9	21
M	Z	1.8	21

Ki iPKP 00 40 07
Santa Cruz Islands.

» 19 Up iPKP 01 49 26
i 01 49 38
iPKKP 01 59 45

		μ	s
M	E	2.2	23
M	N	3.4	21
M	Z	2.2	21

△ = 13100 km = 118°.

Ki iPKP 01 49 14
i 01 49 27
eSKKS 01 57 01
e(PS) 01 59 25

		μ	s
M	E	5.0	22
M	N	2.1	20
M	Z	5.4	21

Sk iPKP 01 49 25
i 01 49 38
Solomon Islands.
Magn. = 6.4 (Up, Ki).

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1956
May 19 Ki iP 08 26 08
Region of Alaska.

» 19 Up iP 14 21 59

		μ	s
M	N	0.9	20

Ki iP 14 22 36

		μ	s
P	z′	0.1	1.5
M	E	0.9	16
M	N	0.3	12
M	Z	0.5	11

Sk iP 14 22 34
Southern Iran.

» 19 Up e(P) 14 34 32

» 19 Up iP 15 13 41 D

» 19 Up e 20 21 04
eSKS 20 26 51
eS 20 28 02

		μ	s
SKS	N	1.0	8
S	E	1.3	10
M	E	1.9	18
M	N	2.4	19
M	Z	2.4	20

△ ~ 11450 km ~ 103°.

Ki ePKP 20 20 53
e 20 21 50
e 20 22 58
ePPP 20 23 38
eS 20 29 04

		μ	s
S	E	1.0	11
M	E	2.0	17
M	N	1.0	15
M	Z	2.4	18

△ ~ 12100 km ~ 109°.
Indian Ocean.
Magn. = 6.3 (Up, Ki).

» 19 Sk eP 23 53 17

» 20 Ki eP 06 22 49

» 20 Ki iPg 06 43 18
iSg 06 43 49

Sk e 06 45 52
Local.

» 20 Up iP 15 49 52 D
i 15 50 30

		μ	s
P	z′	0.1	1.0

Ki iP 15 49 55
Sk iP 15 50 14 D
i 15 50 42
Sinkiang, China.

» 21 Up ePKP 00 48 04
Northern Chile.

1956
May 21 Up iP 09 25 42
i 09 26 00
Ki eP 09 24 43
i 09 25 05
Sk iP 09 25 13
i 09 25 33
Alaska.

» 21 Up iP 13 42 23

» 21 Up iPKP 23 10 43
i 23 10 49

		μ	s
PKP	z′	0.1	1.3

Sk ePKP 23 10 35
Near north coast of North Island, New Zealand.

» 21 Ki iP 23 49 32
Near west coast of Turkey.

» 22 Up iP 02 18 34
Ki iP 02 18 17

		μ	s
P	z′	0.1	1.0

Sk eP 02 18 31
i 02 18 38
South of Mindanao.

» 22 Up ePKP 03 20 13
ePP 03 22 55
iPKS 03 24 03

		μ	s
PKP	Z	0.4	5
PKS	N	1.0	8
M	E	1.3	20
M	N	3.0	22
M	Z	3.5	22

△ ~ 14900 km ~ 134°.

Ki ePKP 03 20 11
ePP 03 22 10
e 03 23 25

		μ	s
PP	N	0.3	6
PP	Z	0.5	6
M	E	3.0	20
M	N	1.1	20
M	Z	3.4	21

△ ~ 14100 km ~ 127°.

Sk ePKP 03 20 19
iPP 03 23 04
Samoa Islands.
Magn. = 6.3 (Up, Ki).

» 22 Up iP 05 24 29
Ki iP 05 24 15
Sk iP 05 24 35
Near east coast of Celebes.

» 22 Up i(P) 05 28 30

1956
May 22 Up e(S) 08 33 06
Ki i(S) 08 30 22
i 08 30 58
Sk e(P) 08 31 59
i(S) 08 33 04
Local.

» 22 Up iP 13 50 08
iPKP 13 53 56 C
iPP 13 55 01
iSKS 13 59 52
i! 14 01 04
e 14 03 29
iPKKP 14 04 37

		μ	s
PP	E	0.6	6
PP	N	0.7	6
PP	Z	1.4	6
PP	z′	0.3	1.3
SKS	E	1.1	6
SKS	N	1.2	7
M	E	1.3	20
M	N	1.4	18
M	Z	1.7	20

△ ~ 12800 km ~ 115°.

Ki iP 13 49 42
iPKP 13 53 43
iPP 13 54 19
epPP 13 55 56
iSKS 13 59 32
i! 14 00 27
e 14 02 51
ePKKP 14 04 56

		μ	s
PP	E	0.4	7
PP	N	0.3	7
PP	Z	0.7	7
PP	z′	0.2	1.7
SKS	E	2.1	9
SKS	N	1.0	8
M	E	0.9	18
M	N	1.0	19
M	Z	1.7	18

△ ~ 12000 km ~ 108°.

Sk eP 13 50 06
e 13 53 33
iPKP 13 53 56
iPP 13 54 57
iPKKP 14 04 32

△ ~ 12800 km ~ 115°.
New Ireland.
Deep (h ~ 550 km).
Magn. = 6.5 (Up, Ki).

» 22 Up iP 21 05 33 C
Ki iP 21 05 21
Sk iP 21 05 47 C
Assam-China border region.

» 23 Up eP 00 10 37
Ki iP 00 11 46
Algeria.

1956
May 23 Up i(P) 03 18 28
i 03 18 45
Local?

» 23 Up eP 06 43 15
Sk iP 06 43 42
Algeria.

» 23 Up iP 06 52 14
Ki iP 06 51 53

		μ	s
M	N	0.2	11
M	Z	0.3	12

Sk eP 06 49 43

» 23 Up eP 10 27 39
iS 10 37 37
△ = 8800 km = 79°.

Ki iP 10 28 03
i 10 28 20
eS 10 38 24

		μ	s
S	E	0.3	13

△ = 9350 km = 84°.

Sk iP 10 28 03
Chagos Islands region.

» 23 Ki iPKP 17 00 43
Fiji Islands.

» 23 Up i(PKP) 21 06 47
iPKP 21 06 57
i! 21 08 43
i 21 09 23
isPKP 21 09 32
iSKP 21 09 50
iPKS 21 10 27
i 21 10 56
i 21 11 43
ipPKS 21 12 10
isPKS 21 12 52
iSKS 21 13 32
i 21 15 44
iSKSP 21 18 51
i 21 19 15

		μ	s
PKP	E	0.2	3
PKP	N	0.4	3
PKP	Z	2.4	3
PKP	z′	2.7	2.0
SKP	E	15	16
SKP	N	39	16
SKP	Z	120	16
SKP	z′	14	2.4
PKS	E	16	11
PKS	N	26	10
SKS	N	24	12
M	E	51	26
M	N	49	26

Ki iP 21 03 26
ipP 21 05 02

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1956 May 23 (cont.)

	esP		21	05	48
	e		21	06	28
	iPKP		21	06	43
	ipPKP		21	08	36
	iPP		21	08	41
	iPKS		21	09	59
	iSKS		21	13	10
	i		21	14	55
	i		21	17	17
	i		21	17	52
	iSP		21	18	10
	i		21	19	28
	iSKKP		21	19	45
	e		21	20	04

		μ	s
P	N	0.4	13
P	Z	1.6	13
PKP	N	0.4	7
PKP	Z	3.0	7
PKP	Z′	3.0	2.0
PP	N	3.5	9
PP	Z	9.5	9
PKS	E	8.7	10
PKS	N	9.4	10
SKS	E	8.6	13
SKS	N	11	12
M	E	21	22
M	N	8.9	16
M	Z	20	18

Sk	i(PKP)		21	06	42
	iPKP		21	06	54
	i!		21	08	38
	i		21	09	16
	iSKP		21	09	41
	i		21	19	40

Fiji Islands.
h = 420 km (Ki).
Magn. = 7.5 (Ki).
SKP has not been found on the records at Kiruna, but it has very large amplitudes at Uppsala and Skalstugan.

»	23	Ki	iP		21	33	18

			μ	s
	P	Z′	0.1	1.5

Sk	eP		21	34	10
» 23	Up	i(P)	21	38	49
	Sk	iP	21	38	40 D
» 23	Up	i(P)	21	42	51

			μ	s
	(P)	Z′	0.1	1.5

Sk	e(P)		21	42	40
» 23	Ki	eP	22	07	57
» 23	Up	iP	22	13	43
	Sk	iP	22	13	34
» 24	Ki	eP	02	39	33

1956 May 24 (cont.)

			μ	s
	M	E	0.8	15
	M	N	0.4	15
	M	Z	0.8	16

Sk	iP		02	39	40

Gulf of California.

» 24	Ki	eP	05	11	11
» 24	Up	ePg	09	01	59
		eSg	09	02	52

△ = 460 km = 4.1°.

	Ki	e	09	05	59
		eSg	09	06	11

△ = 1120 km = 10.1°.

	Sk	ePg	09	02	19
		iSg	09	03	28

△ = 580 km = 5.2°.
Skagerack, 58.6°N. 10.3°E.
Origin time = 09 00 36.

» 24	Up	iP	09	24	52
	Ki	eP	09	26	00
	Sk	eP	09	25	39
» 24	Ki	iP	20	13	43

Banda Sea.

» 24	Ki	eP	20	45	42
» 25	Up	iP	01	03	05 C

		μ	s
P	Z′	0.1	1.0
M	N	1.0	22

	Ki	iP	01	03	06 C
		eS	01	13	30

		μ	s
P	Z′	0.1	1.1
S	E	0.7	12
M	E	1.4	19
M	N	0.4	19
M	Z	1.9	19

△ ~ 9450 km ~ 85°.

	Sk	iP	01	03	20 C

Near coast of Sumatra.

» 25	Up	iP	02	31	40

Indian Ocean.

» 25	Up	iPKP	12	33	10 C
		i	12	33	18
	Ki	ePKP	12	32	47
	Sk	iPKP	12	33	05 C
		i	12	33	17

South of Kermadec Islands.

» 26	Ki	iP	02	27	34
» 26	Up	eP	08	44	23
		i(PP)	08	48	28

1956 May 26 (cont.)

			μ	s
	M	E	0.9	17
	M	N	1.9	21
	M	Z	1.7	20

	Ki	eP	08	44	04
		i	08	44	15

		μ	s
P	Z′	0.2	1.8
M	E	1.9	20
M	N	1.0	20
M	Z	1.4	18

	Sk	iP	08	44	25

Banda Sea.

» 26	Up	iP	12	47	31
		i	12	47	52
	Ki	iP	12	48	01
» 26	Ki	eP	13	29	40
» 26	Up	iP	18	43	51

		μ	s
M	E	1.7	15
M	N	1.5	14
M	Z	1.3	13

	Ki	eP	18	45	13

		μ	s
M	E	1.0	14

	Sk	eP	18	44	34

Italy.

» 26	Up	iPKP	20	39	29
		iPKP	20	39	36
		isP	20	39	43
		i	20	42	14
		iSKP	20	42	18
		iPP	20	42	28
		isPP	20	45	33
		i!	20	48	24
		i!	20	51	09

		μ	s
PKP	Z′	0.5	1.5
SKP	N	0.5	4
SKP	Z	1.7	3
SKP	Z′	0.8	1.0
PP	Z′	0.6	1.2
M	E	2.6	20
M	N	4.4	22
M	Z	2.6	24

△ ~ 15100 km ~ 136°.

	Ki	ePKP	20	39	16
		iPKP	20	39	22
		ipPKP	20	41	32
		iSKP	20	41	49
		isPKP	20	42	25
		i!	20	47	39
		i	20	52	17
		eSS	20	58	17

		μ	s
PKP	Z′	0.4	1.5
SKP	Z	4.0	3

1956 May 26 (cont.)

	SKP	Z′	2.4	1.8	
	M	E	2.8	18	
	M	N	1.3	19	
	M	Z	2.0	21	

△ ~ 14350 km ~ 129°.

Sk	ePKP		20	39	27
	iPKP		20	39	37
	i		20	42	07
	iSKP		20	42	10
	i		20	51	23

Fiji Islands.
Deep (h ~ 550 km).

» 26	Up	iP	23	15	40
» 27	Up	iP	13	21	52
	Ki	iP	13	21	54
		i	13	22	03

		μ	s
P	Z′	0.1	1.3

	Sk	iP	13	22	08

Near north coast of Sumatra.

» 27	Ki	iP	17	10	31

Banda Sea.
Intermediate depth.

» 27	Ki	e(P)	17	20	25
		i	17	20	56
» 27	Ki	eP	18	09	27

Bikini (H-bomb).

» 27	Up	iP	23	16	20 D
» 28	Ki	iP	01	54	03

North Atlantic Ocean.

» 28	Up	iP	09	27	44 D
		i	09	28	10

		μ	s
P	Z′	0.1	0.9

	Ki	iP	09	27	26

		μ	s
P	Z′	0.2	1.0

North of Samar Island, Philippine Islands.

» 28	Up	i(P)	09	34	20
» 28	Up	iP	13	36	43
		i	13	40	22
		i	13	41	08
	Ki	iP	13	36	28
		ipP	13	36	54
		iPP	13	40	11

		μ	s
P	Z′	0.1	1.5

	Sk	iP	13	36	47
		ipP	13	37	15
		iPP	13	40	50

Northern Celebes.
h = 105 km (Ki, Sk).

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1956
May 28 Up iP 21 46 21

» 29 Ki iP 00 35 29

» 29 Up iP 06 42 22C
ipP 06 42 40

			μ	s
	P	z′	0.1	1.0
Ki	iP		06 42	21
	ipP		06 42	40
	P	z′	0.2	1.0
Sk	iP		06 42	35C
	ipP		06 42	53

Near south coast of Sumatra.
h=75 km (Up, Ki, Sk).

» 29 Up i(P) 06 55 02
i 06 55 07
Sk i(P) 06 54 58

» 29 Up iP 09 50 35

» 30 Up iP 00 43 46

» 30 Up eP 03 06 34
Ki iP 03 06 38

» 30 Ki iP 09 54 11
i 09 54 35
Sk e(P) 09 54 30

» 30 Up iPKP 16 00 43
iSKP 16 03 52

			μ	s
	SKP	z′	0.1	1.5
Ki	iPKP		16 00	35
	iSKP		16 03	29
	SKP	z′	0.1	1.3
Sk	ePKP		16 00	36
	iSKP		16 03	47

Tonga Islands region.
Deep (h ~ 350 km).

» 31 Up iP 02 35 28
i 02 38 18
i 02 41 33

» 31 Up iP 15 01 14
Ki iP 15 00 28
Kurile Islands.

» 31 Up iP 15 13 59
Ki e(P) 15 15 50

» 31 Up iP 18 30 27

» 31 Ki iPKP 21 19 48
Fiji Islands.

1956
May 31 Up i(P) 21 22 44
Ki i(P) 21 22 22

			μ	s
	(P)	z′	0.1	1.5
Sk	i(P)		21 22	38

June 1 Sk iP 05 58 00

» 1 Ki eP 10 50 25

			μ	s
	M	E	0.6	15
	M	N	0.3	12
	M	Z	0.8	15

Iceland.

» 1 Ki e(P) 22 53 36

» 2 Ki iP 07 22 12
Sk iP 07 22 32

» 2 Up iP 16 33 06
Ki iP 16 33 49D

» 2 Ki i(P) 16 55 34

» 2 Up iP 17 20 07

			μ	s
	P	z′	0.1	1.3

» 2 Up iP 23 04 43D

			μ	s
	P	z′	0.1	0.9
Ki	iP		23 03	50
Sk	iP		23 04	23D

Aleutian Islands.

» 2 Up iP 23 15 13

» 2 Up iP 23 30 50

» 3 Up iP 05 26 44C
i 05 26 48
iPcP 05 29 07
eS 05 32 29

			μ	s
	P	z′	0.5	1.0
	M	E	1.0	16
	M	N	1.1	20
	M	Z	1.3	15

△=4100 km=37°.

			μ	s
Ki	iP		05 25	39
	i		05 25	48
	iPcP		05 28	43
	eS		05 30	42
	P	z′	0.5	1.0
	M	E	1.4	15
	M	N	1.4	15
	M	Z	2.7	15

△=3350 km=30°.

Sk iP 05 26 09

1956
June 3 (cont.) i 05 26 15
Arctic Ocean.

» 3 Up iP 13 41 13
Ki iP 13 40 40
Sk iP 13 41 09
Bonin Islands.

» 3 Up i(P) 18 03 01

» 3 Up iPKP 19 12 08

			μ	s
	PKP	z′	0.3	1.5
Ki	ePKP		19 11	52
Sk	iPKP		19 12	03

Kermadec Islands.

» 4 Up iP 02 17 49C

			μ	s
	P	z′	0.1	1.1
Ki	iP		02 16	57
	P	z′	0.1	1.0

Near south coast of Kamchatka.

» 4 Up iP 02 30 35C

			μ	s
	P	z′	0.2	1.4
Ki	iP		02 29	43
	P	z′	0.1	1.3

Near south coast of Kamchatka.

» 4 Up i(P) 07 18 29
Ki iP 07 17 23
Aleutian Islands.

» 4 Up iP 07 20 22
i 07 20 33
eS 07 29 20
e(ScS) 07 30 20
iP′P′ 07 48 45

			μ	s
	P	z′	0.4	1.0
	P′P′	z′	0.3	2.0
	M	E	3.1	18
	M	N	5.6	18
	M	Z	5.3	19

△=7550 km=68°.

Ki iP 07 19 29C
i 07 19 37
eS 07 27 51

			μ	s
	P	z′	0.5	1.0
	S	N	0.8	10
	M	E	8.4	18
	M	N	4.8	17
	M	Z	10	18

△ ~ 6800 km ~ 61°.

Sk iP 07 20 01

1956
June 4 (cont.) i 07 20 10
Aleutian Islands.
Magn.=6.5 (Up, Ki).

» 4 Up iPKP 12 25 42
i 12 26 04

			μ	s
	PKP	z′	0.3	1.1
	M	E	1.2	18
	M	N	1.6	18
	M	Z	1.6	18
Ki	iPKP		12 25	24C
	i		12 25	49
	iPKS		12 29	14
	M	E	1.4	19
	M	N	1.4	20
	M	Z	2.4	20
Sk	iPKP		12 25	38

Kermadec Islands.

» 4 Ki iP 14 47 53

» 4 Up iP 17 25 38

» 4 Up e(Sg) 18 56 15
Ki e 19 01 59
Local?

» 4 Up iPKP 18 57 07
Kermadec Islands region.

» 4 Up e(P) 20 41 56
Ki eP 20 41 54

» 4 Up iP 23 55 17
iPP 23 56 43
Ki ePP 23 56 28
Sk eP 23 55 30
Central Asia.

» 5 Up iP 01 51 37

» 5 Up iP 05 43 27
Ki iP 05 43 22
Java.

» 5 Up —

			μ	s
	M	E	2.1	18
	M	N	1.8	20
	M	Z	2.6	17
Ki	ePKP		06 19	40
	iPKP2		06 19	53
	e		06 24	00
	PKP2	Z	0.6	6
	PKP2	z′	0.1	1.6
	M	E	1.9	18
	M	N	1.7	20

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1956 June 5 (cont.)		M	z	3.2	19		
	Pacific Ocean. Magn. = 6.2 (Up, Ki).						
»	5	Up	iP		16	24	33
		Ki	iP		16	24	00
	Aleutian Islands.						
»	5	Up	eP		18	26	23
»	5	Up	iP		19	11	40
			P	z′	μ 0.3	s 1.2	
		Ki	iP		19	10	48C
			P	z′	μ 0.1	s 1.0	
	Kamchatka.						
»	5	Ki	eP		19	29	27
»	5	Up	eP		20	28	03
			ipP		20	28	15
		Ki	iP		20	27	10
			ipP		20	27	23
	Aleutian Islands. h = 50 km (Up, Ki).						
»	6	Ki	iP		16	02	08
	6	Ki	iP		20	01	22
»	6	Ki	iP		21	46	38
»	6	Up	iP		22	59	20
»	6	Up	i(P)		23	18	35
			i(Sg)		23	19	10
		Ki	e(Sg)		23	17	12
	Local?						
»	6	Up	iP		23	29	11
		Sk	eP		23	29	30
»	8	Up	iPKP		02	13	07
		Ki	iPKP		02	12	54
		Sk	iPKP		02	13	04 D
	Santa Cruz Islands. Deep (h ~ 300 km).						
»	8	Sk	iP		02	23	39
»	8	Ki	iP		03	32	46
»	8	Up	iP		04	15	08C
			iPP		04	16	39
			e		04	23	47
			i		04	25	35
			P	z′	μ 0.3	s 1.2	
			PP	E	1.1	4	
			PP	N	0.2	4	

1956 June 8 (cont.)		PP	z	1.1	4		
		PP	z′	0.9	1.7		
		M	E	3.1	21		
		M	N	8.5	21		
		M	z	3.0	19		
		△ = 4550 km = 41°.					
	Ki	iP		04	15	22C	
		i(PP)		04	16	51	
		iPP		04	17	02	
		iSS		04	24	41	
		eLi		04	28	40	
		eLgl		04	29	26	
		P	E	μ 0.4	s 6		
		P	z	0.5	5		
		P	z′	0.2	1.5		
		PP	E	0.7	5		
		PP	N	0.4	5		
		PP	z	0.7	5		
		(PP)	z′	0.2	1.5		
		M	E	1.9	10		
		M	N	1.6	10		
		M	z	1.9	10		
		△ = 4800 km = 43°.					
	Sk	iP		04	15	35C	
		iPP		04	17	19	
		△ = 5000 km = 45°.					
	Afghanistan. Magn. = 6.4 (Up), 6.0 (Ki). No clear S. PP is 11 sec earlier on Grenet Z′ than on Galitzin at Kiruna.						
»	8	Ki	ePKP		12	48	21
			M	E	μ 1.1	s 24	
			M	N	0.6	24	
			M	z	1.7	26	
	Solomon Islands.						
»	8	Up	—				
			M	E	μ 2.4	s 20	
			M	N	1.8	20	
			M	z	3.5	20	
		Ki	iPP		14	13	01
			eSP		14	22	38
			M	E	μ 1.3	s 21	
			M	N	1.6	25	
			M	z	2.0	21	
	Argentina-Chile border region. Intermediate depth (h ~ 150 km).						
»	8	Up	ePKP		21	18	19
			iPKP2		21	18	29
			PKP2	z′	μ 0.1	s 1.2	
		Ki	e(PKP)		21	17	52
			e		21	18	12
		Sk	iPKP		21	18	16
	Kermadec Islands.						

1956 June 9		Up	iP		02	36	14
		Ki	eP		02	35	02
			i		02	35	15
		Sk	eP		02	35	42
	Alaska.						
»	9	Up	iP		03	17	01
		Ki	iP		03	16	14
	Sea of Okhotsk.						
»	9	Up	iPP		10	28	08
			eSKS		10	33	47
			ePS		10	37	42
			PP	E	μ 0.5	s 5	
			PP	z	0.9	5	
			PP	z′	1.4	3.0	
			M	E	17	19	
			M	N	10	21	
			M	z	20	19	
		Ki	ePKP		10	27	14
			i		10	27	29
			e		10	28	10
			iPP		10	28	32
			e		10	34	19
			e(Pa)		10	35	41
			ePS		10	38	22
			e		10	45	04
			PP	E	μ 1.0	s 8	
			PP	N	0.2	8	
			PP	z	1.6	8	
			M	E	11	19	
			M	N	4.8	19	
			M	z	15	19	
		Sk	ePP		10	28	15
	Chile. Intermediate depth (h ~ 150 km). Magn. = 6.9 (Up, Ki).						
»	9	Ki	e(P)		13	18	11
»	9	Up	iP		14	05	28
»	9	Up	iP		23	21	31C
			iPP		23	23	06
			i		23	26	52
			iS		23	27	41
			iSS		23	30	16
			P	E	μ 26	s 10	
			P	N	5.7	10	
			P	z	44	10	
			P	z′	2.4	1.3	
			PP	E	99	10	
			PP	N	21	10	
			PP	z	120	10	
			PP	z′	6.2	1.5	
			S	N	66	15	
			S	z	27	8	
			M	E	680	18	

1956 June 9 (cont.)		M	N	790	18		
		M	z	480	14		
		△ = 4550 km = 41°.					
	Ki	iP		23	21	45C	
		iPP		23	23	24	
		iPcS		23	27	31	
		iS		23	28	03	
		iSS		23	31	09	
		P	E	μ 22	s 9		
		P	N	11	9		
		P	z	42	9		
		P	z′	4.0	2.0		
		PP	E	44	9		
		PP	N	30	9		
		PP	z	67	9		
		PP	z′	5.7	2.0		
		S	E	53	13		
		S	N	37	14		
		M	E	210	11		
		M	N	220	15		
		M	z	330	12		
		△ = 4700 km = 42½°.					
	Sk	iP		23	21	58C	
		iPP		23	23	39	
		△ = 4900 km = 44°.					
	Afghanistan. Magn. = 7.7 (Up, Ki).						
»	9	Up	iP		23	50	15
		Ki	eP		23	50	28
	(Afghanistan).						
»	10	Up	iP		00	01	19
			iPP		00	02	54
			P	z′	μ 0.1	s 1.0	
			PP	z′	0.2	1.5	
		Ki	iP		00	01	33
			iPP		00	03	15
		Sk	iP		00	01	47
			iPP		00	03	32
	Afghanistan.						
»	10	Up	iP		00	09	59
		Ki	e(P)		00	10	21
»	10	Up	iP		01	09	18
			iPP		01	10	50
			eSS		01	18	18
			P	z′	μ 0.2	s 1.3	
			PP	z′	0.2	1.5	
			M	E	6.6	17	
			M	N	7.8	17	
			M	z	9.3	22	
		Ki	iP		01	09	32
			iPP		01	11	11
			eLg1		01	23	54
			e(Lg2)		01	24	30

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1956
June 10
(cont.)

				μ	s
		P	z′	0.1	1.5
		M	E	3.8	13
		M	N	2.0	11
		M	Z	3.2	13
	Sk	iP		01 09	45
		iPP		01 11	23

Afghanistan.
Magn. = 5.9 (Up, Ki).

»	10	Up	iP	03 34	45
»	10	Up	e(P)	03 40	58
			iPP	03 42	14
			eSS	03 49	53

			μ	s
	M	E	1.3	20
	M	N	1.9	21
	M	Z	1.7	20
Ki	eP		03 41	09
	iPP		03 42	41
	eLg1		03 55	27
	eLg2		03 56	24

		μ	s
M	E	0.9	12
M	N	0.6	9
M	Z	0.5	11

	Sk	iP	03 41	14
		iPP	03 42	54

Afghanistan.

»	10	Ki	eP	04 35	27

Celebes.

»	10	Up	iPP	06 38	58
		Sk	iP	06 37	53
			iPP	06 39	35

Afghanistan.

»	10	Ki	iP	10 42	47
			iPP	10 44	24
		Sk	iP	10 43	07

Afghanistan.

»	10	Ki	eP	12 50	09
»	10	Up		—	

			μ	s
	M	N	0.6	16
Ki	iP		14 09	21

		μ	s
M	E	1.0	14
M	N	0.4	12
M	Z	1.2	15

Iceland.

»	10	Up	iP	23 51	17
		Ki	iP	23 51	32
			iPP	23 53	16
		Sk	iP	23 51	46
			ePP	23 53	24

Afghanistan.

1956
June 11

	Up	iP		01 16	59
		iS		01 21	35

		μ	s
P	z′	0.1	1.2
M	E	0.6	12
M	N	1.4	16
M	Z	1.5	17

△ = 2950 km = 26½°.

	Ki	iP		01 18	06
		iPcP		01 20	52

		μ	s
P	z′	0.1	1.2
M	E	0.6	15
M	N	1.4	15
M	Z	2.1	14

△ = 3650 km = 33°.

	Sk	iP		01 17	38C

Near south coast of Crete.
Magn. = 5.4 (Up, Ki).

»	11	Up	iP	03 04	54C
			iPP	03 06	19
			eSS	03 13	47
			i	03 15	15

		μ	s
P	z′	0.1	1.3
PP	z′	0.1	1.5
M	E	2.4	18
M	N	1.7	16
M	Z	3.3	19

	Ki	iP		03 05	07
		ePP		03 06	42
		eLi		03 18	20
		eLg1		03 19	54
		e		03 21	25

		μ	s
P	z′	0.1	1.5
M	E	1.3	12
M	N	1.4	16
M	Z	0.9	9

	Sk	iP		03 05	21
		iPP		03 07	05

Afghanistan.
Magn. = 5.6 (Up, Ki).

»	11	Up	iP	08 27	58
			i	08 28	07
			i	08 30	26

		μ	s
P	z′	0.1	1.1
M	E	1.9	16
M	N	1.5	17
M	Z	3.0	21

	Ki	eP		08 28	10

		μ	s
P	z′	0.2	2.0
M	E	3.4	19
M	N	1.3	15
M	Z	4.1	19

	Sk	iP		08 27	37
		i		08 27	40

1956
June 11
(cont.)

		i		08 27	49

North Atlantic Ocean.
Magn. = 5.5 (Up, Ki).

»	11	Up	eL	10 50	

		μ	s
M	E	1.2	18
M	N	0.7	16
M	Z	2.0	19

Northern Chile-Argentina border.

»	11	Up	i(P)	19 30	54
»	11	Up	iP	20 28	35
			iS	20 32	22

△ = 2350 km = 21°.

		Ki	eP	20 29	32

Turkey.

»	11	Up	iP	23 02	18
			i	23 02	21
			iPP	23 03	55
			i	23 13	12

		μ	s
M	E	0.6	11
M	N	0.8	17
M	Z	1.1	13

		Ki	iP	23 01	53
			eLi	23 12	36

		μ	s
M	E	1.2	15
M	N	1.2	14
M	Z	1.5	13

		Sk	iP	23 02	29

Southern Siberia.

»	12	Up	iP	03 22	36
			i!	03 22	47

		μ	s
i!	z′	0.2	1.0
M	N	0.7	16

		Ki	iP	03 22	33
			i!	03 22	43

		μ	s
M	E	1.1	18
M	N	1.4	21
M	Z	1.3	17

		Sk	iP	03 22	53
			i!	03 23	04
			e	03 23	17

Assam.

»	12	Up	ePP	09 13	51

		μ	s
M	E	1.4	21
M	N	0.9	21
M	Z	1.8	21

		Ki	e	09 29	14

		μ	s
M	E	1.3	20
M	N	0.8	18

1956
June 12
(cont.)

		M	Z	3.0	22

Eastern Pacific Ocean.

»	12	Up	i(P)	13 29	05

Seismic?

»	12	Sk	e(P)	14 21	26
			e	14 21	59
			i(Sg)	14 22	09

Local?

»	13	Ki	iP	05 34	48
»	13	Up	iPP	12 25	08
			iSKKS	12 31	34

		μ	s
PP	z′	0.1	1.5
M	E	1.5	23
M	N	2.3	25
M	Z	2.8	26

		Ki	iP	12 20	48
			iSKKS	12 31	17
			iS	12 31	57

		μ	s
P	z′	0.1	1.5
S	E	0.7	7
M	E	1.8	17
M	N	1.6	21
M	Z	2.4	18

		Sk	i(P)	12 21	13

Near coast of Celebes.
Intermediate depth (h ~ 200 km).
Magn. = 5.9 (Up, Ki).

»	13	Ki	i(PP)	17 29	21

(Near coast of New Guinea).

»	13	Ki	iP	21 18	28
»	13	Up	iP	23 32	41
»	14	Up	eP	06 22	51
		Ki	iP	06 22	02
			i(P)	06 23	41
		Sk	iP	06 23	52
»	14	Up	iP	12 23	22C

		μ	s
P	z′	0.1	0.7

		Sk	iP	12 23	11C

Kurile Islands.

»	14	Up	iPKP	17 14	08
			i	17 14	13

		μ	s
PKP	z′	0.1	1.0

South Pacific Ocean.

»	15	Up	iP	00 53	22
		Ki	eP	00 52	52

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1956
June 15 Up iP 04 56 14
» 15 Up i(P) 08 49 33
» 15 Up iP 14 04 03
Ki iP 14 03 12
Kurile Islands.

» 15 Up iPKP 15 55 00
ipPKP 15 55 45
μ s
PKP z′ 0.2 1.0
Ki ePKP 15 54 47
South of Tonga Islands.
Intermediate depth (h ~ 200 km).

» 16 Up iP 00 35 35
» 16 Up i(P) 00 52 55
» 16 Ki iP 05 02 11
» 16 Ki iP 05 45 11
Sk iP 05 45 48
» 16 Up iP 06 31 15
ipP 06 31 25
eS 06 41 00
μ s
P z′ 0.2 1.5
pP z′ 0.4 1.5
M E 2.5 19
M N 2.5 23
M Z 3.3 13
△ = 8550 km = 77°.
Ki iP 06 30 45
ipP 06 30 56
eS 06 40 02
μ s
P z′ 0.1 1.3
pP z′ 0.5 1.5
S E 0.9 9
M E 2.5 21
M N 1.6 17
M Z 4.3 19
△ = 7950 km = 71½°.
Sk iP 06 31 15
ipP 06 31 27
Ryukyu Islands.
h = 45 km (Up, Ki, Sk).
Magn. = 5.9 (Up, Ki).

» 16 Sk eP 17 57 12
» 16 Up i(PKP2) 18 32 36
Ki ePKP 18 31 56
Kermadec Islands.

» 16 Up ePKP 18 52 00
Sk ePKP 18 51 49
Kermadec Islands.

1956
June 16 Up iPKP 19 55 37
μ s
PKP z′ 0.1 1.2
Ki iPKP 19 55 25
South of Tonga Islands.

» 16 Up iP 23 46 49
» 17 Up eP 01 21 45
» 17 Up iPKP 03 21 00
i 03 21 07
ipPKP 03 21 58
μ s
PKP z′ 0.3 1.0
Sk iPKP 03 20 54
i 03 20 56
iSKP 03 24 14
Kermadec Islands.
Intermediate depth (h ~ 200 km).

» 17 Ki e(P) 06 46 40
» 17 Ki iP 13 27 47
» 17 Ki e(P) 13 34 14
» 17 Sk iP 13 57 59
» 17 Sk i(P) 14 04 26
» 18 Up iP 04 41 31
» 18 Up eP 04 47 35
» 18 Up eP 07 36 06
» 18 Up iPn 22 49 24
iSn 22 50 51
i 22 51 18
iSg 22 51 52
△ = 900 km = 8.1°.
Ki iPn 22 48 24
iSn 22 49 06
iSg 22 49 24
μ s
Sg z′ 0.3 0.5
△ = 400 km = 3.6°.
Sk iPg 22 48 33
iSg 22 49 24
△ = 400 km = 3.6°.
Off the central coast of Norway, 67.4°N, 10.9°E.
Origin time = 22 47 25.
Felt.

» 18 Up iP 23 21 02C
i 23 21 08
» 19 Up iP 00 32 13
μ s
M E 1.4 21

1956
June 19 M N 1.4 22
(cont.) M Z 1.8 21
Ki iP 00 32 12
μ s
M E 1.7 19
M N 1.1 19
M Z 1.8 20
Sk iP 00 32 27
Sumatra.

» 19 Up iP 01 15 04
i 01 15 15
μ s
P z′ 0.1 1.0
Ki iP 01 14 12
μ s
P z′ 0.1 1.0
Sk eP 01 14 36
» 19 Ki iP 04 57 31
eT 05 03 01
i 05 03 20
μ s
M E 1.9 20
M N 0.8 19
M Z 2.7 19
△ ~ 880 km ~ 7.9°.
Sk iP 04 57 44
i! 04 58 54
iSg 05 00 40
△ ~ 1050 km ~ 9.5°.
Epicentre between Jan Mayen and Spitsbergen, near 72½°N, 2°E.

» 19 Up iP 05 45 39
» 19 Sk iP 21 47 49
» 20 Up iP 02 12 37
» 20 Up i(P) 05 55 49
i(Sg) 05 56 59
Local?

» 20 Up iP 10 47 45
Ki iP 10 48 13C
μ s
P z′ 0.1 1.2
Sk iP 10 48 18
i 10 48 32
i 10 52 16
Southern Iran.

» 20 Ki eP 20 42 19
» 21 Ki eP 00 20 31
» 21 Up iPKP 10 46 02
μ s
PKP z′ 0.2 1.0
Ki iPKP 10 45 44

1956
June 21 Sk iPKP 10 45 54
(cont.) South of Fiji Islands.

» 21 Up iP 12 12 36
» 21 Up —
μ s
M E 0.5 20
M N 1.1 20
M Z 0.7 20
Ki iP 19 53 52
eS 20 05 16
μ s
S N 0.2 10
M E 0.9 19
M N 0.6 19
M Z 1.4 19
△ = 10950 km = 98½°.
Celebes. Magn. = 5.7 (Up, Ki).

» 21 Up iP 20 45 45
Ki iSKS 20 56 26
μ s
SKS E 0.3 7
M E 1.0 19
M N 0.6 19
M Z 1.8 20
Soembawa.

» 22 Up e(P) 01 47 39
i 01 48 06
» 22 Ki e(P) 20 47 49
i(Sg) 20 48 44
Sk e 20 51 38
Local?

» 23 Up iP 01 09 34
» 23 Up iP 02 28 17C
i 02 31 51
ePa 02 32 12
iS 02 36 33
e(S) 02 36 42
eSS 02 40 43
eP′P′ 02 57 24
μ s
P N 4.7 10
P Z 8.2 9
P Z′ 1.6 1.5
S E 6.4 10
S N 5.0 15
M E 29 21
M N 24 22
M Z 21 17
△ = 6800 km = 61°.
Ki iP 02 27 23C
i 02 27 32
iS 02 34 49
i(S) 02 34 59
eScS 02 37 15

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1956
June 23 (cont.)

		i		02 38	53
				μ	s
		P	N	2.3	10
		P	Z	6.5	10
		P	Z′	1.1	1.3
		S	E	9.2	9
		S	N	4.0	11
		S	Z	4.0	9
		M	E	34	19
		M	N	32	18
		M	Z	34	18

△=5900 km=53°.

Sk	iP	02	28	00C
	i	02	28	06
	e(PS)	02	36	14
	i	02	57	27
	i(P′P′)	02	57	44

Near east coast of Kamchatka.
Magn.=6.8 (Up, Ki).
P and S are multiple.
Velocity of Pa (Up)=8.00 km/sec.

» 23	Ki	iP	15	06	58
	Sk	iP	15	07	48
» 23	Ki	iP	18	12	29

South of Panama.

» 24	Up	eL	00	30	
			μ	s	
		M	N	0.9	21
		M	Z	1.1	21

Loyalty Islands region.

» 24	Ki	e(P)	10	51	23
		e(S)	10	52	34

Local?

» 24	Up	iP	17	26	54
			μ	s	
		P	Z′	0.1	1.3
	Sk	iP	17	26	47C
» 24	Up	iPKP	21	17	26
			μ	s	
		M	E	0.9	18
		M	N	1.3	20
		M	Z	1.5	17
	Ki	ePKP	21	17	14
			μ	s	
		M	E	1.6	18
		M	N	1.0	18
		M	Z	2.7	20

Solomon Islands.

» 24	Up	eP	22	56	40
» 25	Up	e(P)	03	19	29
» 25	Up	iPP	03	23	32

South of Tonga Islands.

1956
June 25

	Up	iP	10	55	48
			μ	s	
		M	E	0.7	19
		M	N	0.5	11
	Ki		—		
			μ	s	
		M	E	1.0	14
	Sk	iP	10	56	31

Ionian Islands.

» 25	Up	iP	12	59	39
		ePP	13	01	11
			μ	s	
		PP	Z′	0.3	1.8
		M	E	0.6	11
		M	N	1.1	11
		M	Z	0.7	11
	Ki	iP	13	00	05
			μ	s	
		M	E	1.2	19
		M	N	1.4	18
		M	Z	1.7	15
	Sk	eP	13	00	09
		ePP	13	01	56

Eastern Iran.

» 25	Ki	eP	18	10	43
» 25	Up	iP	20	18	12
	Ki	iP	20	19	05
	Sk	iP	20	18	48C

(Arabia-Red Sea).

» 25	Up	iP	22	44	52
	Sk	eP	22	45	35
» 26	Up	iPKP	00	19	25
	Ki	iPKP	00	19	12
	Sk	iPKP	00	19	22

New Hebrides Islands.

» 26	Ki	e(P)	01	04	02
	Sk	eP	01	04	04
» 26	Ki	eP	01	56	44

Algeria-Tunis border region.

» 26	Up	iP	06	32	21
			μ	s	
		P	Z′	0.1	1.0
	Ki	eP	06	33	37
			μ	s	
		M	E	0.4	14
		M	N	0.2	12
		M	Z	0.3	10
	Sk	iP	06	33	05

Greece.

» 27	Up	iP	19	09	25D
			μ	s	
		P	Z′	0.2	1.2

1956
June 27 (cont.)

		M	E	0.8	13
		M	N	0.8	15
		M	Z	1.2	14
	Ki	iP	19	09	02
			μ	s	
		P	Z′	0.1	1.5
		M	E	1.0	13
		M	N	0.5	12
		M	Z	1.3	13
	Sk	iP	19	09	30

Formosa.

» 27	Up	iP	23	34	48
			μ	s	
		M	E	1.0	15
		M	N	0.5	15
	Ki	eP	23	35	53
	Sk	eP	23	35	25

Aegean Sea.

» 28	Ki	eL	04	55	
			μ	s	
		M	E	0.4	21
		M	N	0.8	21
		M	Z	1.4	21

Fiji Islands.

» 28	Sk	iP	05	43	18C
» 28	Sk	eP	08	39	49
» 28	Up		—		
			μ	s	
		M	E	2.3	12
		M	N	1.4	10
		M	Z	2.0	10
	Ki	iP	17	47	48C
		eS	17	52	09
		ePcS	17	55	11
			μ	s	
		P	Z′	0.1	1.5
		M	E	1.6	11
		M	N	0.7	11
		M	Z	1.2	11

△=2650 km=24°.

	Sk	eP	17	47	05

Yugoslavia.
No clear P at Uppsala (shadow-zone effect!).

» 28	Up	iP	22	39	40
	Ki	iP	22	38	49

Kurile Islands.

» 28	Up	iP	23	09	52
		i	23	09	59
		iS	23	18	56
			μ	s	
		P	N	0.4	4
		P	Z	0.7	4
		P	Z′	0.5	1.5

1956
June 28 (cont.)

		S	E	0.8	8
		S	N	4.0	10
		M	E	5.6	18
		M	N	8.8	22
		M	Z	12	18

△=7650 km=69°.

	Ki	iP	23	09	07
		i	23	09	12
		iPa	23	12	59
		iS	23	17	31
			μ	s	
		P	N	0.5	6
		P	Z	0.7	5
		P	Z′	0.2	1.7
		S	N	2.3	10
		S	Z	1.7	10
		M	E	10	16
		M	N	8.6	17
		M	Z	28	22

△=6900 km=62°.

	Sk	iP	23	09	24
		i	23	09	30

Off coast of Vancouver Island.
Magn.=6.3 (Up, Ki).
P is multiple.
Velocity of Pa (Ki)=8.11 km/sec.

» 28	Sk	iP	23	27	33

Off coast of Vancouver Island.

» 29	Up	iP	02	26	19
		i	02	26	32
			μ	s	
		P	Z′	0.1	1.0
	Ki	iP	02	26	51C
			μ	s	
		P	Z′	0.1	1.0
	Sk	iP	02	26	51
		i	02	27	05

Iran.

» 29	Up	iP	02	33	44C
			μ	s	
		P	Z′	0.2	1.0
		M	E	9.5	19
		M	N	4.7	21
		M	Z	11	18
	Ki	iP	02	33	19C
		iPP	02	35	53
		eS	02	42	34
			μ	s	
		P	Z′	0.2	1.0
		PP	Z′	0.1	1.5
		S	E	0.5	12
		S	N	0.2	11
		M	E	2.8	16
		M	N	2.1	16
		M	Z	4.2	16

△~7900 km~71°.

	Sk	iP	02	33	47

Off north coast of Formosa.
Magn.=6.2 (Up, Ki).

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1956
June 29 Up iP 02 39 55
Ki iP 02 39 31
» 29 Up iP 04 21 17
μ s
P z′ 0.2 1.4
Ki iP 04 20 38 D
μ s
P z′ 0.1 1.5
M E 0.5 16
M N 0.4 14
Sk iP 04 21 11
Honshu, Japan.
» 29 Up iP 08 40 21
» 29 Up iP 17 56 04
μ s
P z′ 0.2 1.0
M E 0.6 16
M N 1.1 23
Ki iP 17 55 45
i 17 56 03
eSKS 18 05 52
μ s
P z′ 0.1 1.0
M E 0.8 17
M N 0.6 20
M z 1.1 17
Sk iP 17 56 09
Near southwest coast of Luzon.
» 30 Up iP 01 54 24
i 01 54 29
i(PP) 01 54 33
iS 01 57 29
i(SS) 01 57 44
iLg2 01 59 32
μ s
P N 0.3 2
P z 0.3 2
P z′ 0.1 1.0
(PP) z′ 0.6 1.0
S z′ 0.2 1.2
M E 3.1 10
M N 2.8 10
M z 2.5 10
△=1900 km=17°.
Ki iP 01 55 45
i 01 55 49
i! 01 55 57
eS 02 00 12
e 02 00 37
i! 02 01 42
eLi 02 02 43
iLg1 02 03 14
μ s
P z′ 0.2 1.0
S N 0.8 12
M E 5.4 7
M N 1.5 9

1956
June 30 (cont.) M z 2.7 11
△=2800 km=25°.
Sk eP 01 55 18
i 01 55 22
i(S) 01 59 24
iLg1 02 01 58
△=2500 km=22½°.
Black Sea, near coast of Rumania.
Magn.=5.4 (Up, Ki).
P is multiple.
» 30 Up iP 03 15 44
Ki iP 03 15 51
eLg1 03 29 03
iRg 03 32 36
Tadzhik, USSR.
» 30 Up iP 11 44 02 C
μ s
P z′ 0.1 1.0
M N 0.6 18
M z 1.0 14
Ki iP 11 44 30 C
i(PP) 11 45 46
μ s
M E 0.6 13
M N 0.9 13
M z 1.0 16
Sk eP 11 44 34
i(PP) 11 45 52
Iran.
July 2 Up iP 01 09 47
» 2 Up iP 07 32 57
Ki iP 07 32 04
» 2 Ki iP 14 16 03
μ s
M E 0.5 16
M N 0.4 16
M z 0.8 16
Sk iP 14 17 33
i 14 18 16
» 2 Up eP 14 37 00
» 2 Ki iP 14 40 34
Flores Sea.
» 2 Up eP 16 11 07
» 2 Up ePKP 17 43 43
Sk iPKP 17 43 38
Kermadec Islands region.
» 3 Ki eP 00 43 57
Colombia-Venezuela border.
» 3 Up eL 00 48
μ s
M N 0.6 18

1956
July 3 (cont.) M z 0.8 22
Ki eL 00 50
μ s
M E 0.9 19
M N 0.7 20
M z 1.5 20
South Atlantic Ocean.
» 3 Up iP 10 27 26 C
Ki iP 10 27 25
Sk iP 10 27 45
Nepal.
» 3 Up eSKS 16 10 09
μ s
M E 0.5 18
M N 0.6 22
M z 0.6 17
Ki eP 15 59 17
iSKS 16 09 45
μ s
P z 0.3 7
SKS E 0.5 14
SKS N 0.2 14
M E 1.4 19
M N 0.9 21
M z 2.4 20
△=9450 km=85°.
Sk iP 15 59 08
Near coast of Guatemala.
Magn.=5.8 (Ki).
» 3 Up iP 23 33 39 C
ipP 23 34 27
e 23 35 45
isPP 23 36 23
iS 23 39 36
eSS 23 42 40
μ s
P E 0.4 1.0
P N 0.1 2
P z 1.0 1.0
P z′ 1.1 1.3
S E 0.3 4
△=4650 km=42°.
Ki iP 23 33 48 C
i 23 33 57
ipP 23 34 36
isP 23 34 59
iPP 23 35 35
i(Pa) 23 36 33
iS 23 39 52
eSS 23 43 02
i 23 43 48
i 23 48 44
μ s
P z′ 0.6 1.0
PP z′ 0.2 1.4
S E 0.7 5
S N 0.3 8
△=4900 km=44°.

1956
July 3 (cont.) Sk iP 23 34 05 C
ipP 23 34 52
iPP 23 35 57
△=5200 km=47°.
Hindu Kush.
h=235 km (Up, Ki, Sk).
Magn.=6.2 (Up, Ki).
» 4 Up iPKP 00 58 17
iSKP 01 01 22
i 01 01 31
μ s
SKP z′ 0.2 1.5
Ki iPKP 00 58 05
iPKP 00 58 13
iSKP 01 00 54
iPKS 01 01 35
μ s
PKP z′ 0.1 0.5
SKP z 0.8 4
SKP z′ 0.3 1.5
Sk iPKP 00 58 14
iSKP 01 01 13
Fiji Islands.
Deep (h ~ 450 km).
» 4 Up iPKP 03 23 03
μ s
M E 1.1 20
M N 0.9 20
M z 1.4 20
Ki iPKP 03 22 51
μ s
M E 1.8 22
M N 1.0 20
M z 2.4 21
Sk iPKP 03 23 02
iPP 03 24 17
Solomon Islands.
» 4 Up iPKP 04 01 38
μ s
M E 1.1 20
M N 0.8 17
M z 0.7 19
Ki iPKP 04 01 26
μ s
M E 1.9 21
M N 1.4 21
M z 3.4 21
Sk iPKP 04 01 37 D
iPP 04 02 49
Solomon Islands.
» 4 Ki iP 07 02 38
» 4 Up ePKP 07 37 58
Ki iPKP 07 37 46
μ s
M E 0.3 18
M N 0.3 19

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1956 July (cont.)	4		M	z	0.6	20		
		Solomon Islands.						
»	4	Ki	ePKP		11	27	16	
		Chile.						
»	4	Up	iPKP		16	29	28	
		Tonga Islands region.						
		Deep (h ~ 450 km).						
»	5	Up	iP		05	59	38	
		Sk	eP		05	59	26	
»	5	Up	eP		06	04	51	
		Ki	iP		06	03	56	
		Near east coast of Kamchatka.						
»	5	Ki	eP		08	26	51	
					μ	s		
			M	E	0.5	18		
			M	N	0.2	12		
			M	z	0.4	17		
		Sk	iP		08	27	11	
		Off west coast of Hokkaido, Japan.						
»	5	Sk	iP		09	18	13	
»	5	Up	iP		13	10	51	
		Ki	iP		13	09	53	
		Sk	eP		13	10	16	
		Alaska.						
»	5	Ki	i(P)		15	30	19	
»	5	Ki	iP		22	26	12	
»	6	Up	eP		02	33	34	
		Ki	iP		02	32	59	
		Sk	iP		02	33	11	
		Off coast of Oregon.						
»	6	Ki	i(P)		16	00	24	
			i(Sg)		16	00	46	
					μ	s		
			(Sg)	z′	0.1	0.8		
		Local?						
»	7	Up	iP		00	25	09	
»	7	Up	iP		10	37	12	
			i		10	37	19	
			i(PP)		10	38	30	
					μ	s		
			P	z′	0.1	1.0		
		Ki	iP		10	37	40	
			iPP		10	38	56	
					μ	s		
			P	z′	0.1	1.0		
			M	E	2.3	16		
			M	N	2.7	17		
			M	z	1.1	16		

1956 July (cont.)	7	Sk	iP		10	37	46	D
			iPP		10	39	07	
		Iran.						
»	7	Ki	iP		18	59	31	
			iSg		18	59	41	
		Sk	i(Sg)		19	01	56	
		Local.						
»	7	Ki	iP		21	11	18	
			i		21	12	07	
			i		21	12	50	
			e(S)		21	20	24	
			e		21	20	50	
					μ	s		
			M	E	1.0	17		
			M	N	0.3	18		
			M	z	1.3	17		
»	7	Up	eP		22	24	22	
»	8	Ki	eP		04	46	05	
		Halmahera region.						
»	8	Ki	iP		06	15	20	
		Molucca Passage.						
»	8	Up	eP		08	35	21	
		Sk	eP		08	36	12	
		Adriatic Sea.						
»	8	Ki	eP		10	46	11	
		Sk	iP		10	45	36	C
		Yugoslavia.						
»	8	Up	iP		13	10	02	
					μ	s		
			M	E	0.9	14		
			M	N	0.8	13		
			M	z	0.8	9		
		Ki	eP		13	11	15	
					μ	s		
			M	E	1.0	14		
			M	N	0.6	10		
			M	z	1.1	11		
		Sk	iP		13	10	42	D
		Aegean Sea.						
»	8	Sk	iP		15	45	27	
		Yugoslavia.						
»	8	Up	iSg		23	17	54	
		Sk	eSg		23	19	14	
		Västergötland, Sweden.						
		Origin time = 23 16 12.						
		Felt.						
»	9	Up	iP		03	16	53	C
			i		03	17	04	
			i		03	19	02	
			iS		03	21	12	

1956 July (cont.)	9		i		03	25	05	
					μ	s		
			P	E	40	14		
			P	N	130	14		
			P	z′	14	2.0		
			S	E	350	12		
			S	N	550	12		
			M	E	620	12		
			△ = 2650 km = 24°.					
		Ki	iP		03	18	01	C
			i		03	18	12	
			iPP		03	19	05	
			iS		03	23	28	
					μ	s		
			P	E	6.9	10		
			P	N	32	10		
			P	z	53	10		
			P	z′	7.5	2.0		
			PP	z	93	15		
			S	N	57	16		
			M	E	340	12		
			M	N	230	12		
			M	z	340	12		
		Sk	iP		03	17	32	
		Aegean Sea.						
		Magn. = 7.7 (Up, Ki).						
»	9	Up	iP		03	29	18	
					μ	s		
			P	z′	10	2.0		
		Ki	iP		03	30	26	
					μ	s		
			P	z′	3.8	2.0		
		Aegean Sea.						
		Magn. = 7.2 (Up, Ki).						
»	9	Up	eP		03	46	12	
		Ki	iP		03	47	16	
		Sk	iP		03	46	37	
»	9	Up	eP		04	00	15	
		Ki	eP		04	01	23	
»	9	Ki	iP		04	07	13	
		Sk	iP		04	06	45	
		(Aegean Sea).						
»	9	Up	iP		04	20	25	
		Ki	eP		04	21	20	
			i		04	21	34	
		Aegean Sea.						
»	9	Up	iP		04	38	35	
		Ki	iP		04	39	44	
		Sk	iP		04	39	17	
		Aegean Sea.						
»	9	Up	iP		04	49	52	
»	9	Ki	eP		05	20	29	
		Sk	iP		05	20	07	
		Aegean Sea.						

1956 July	9	Sk	iP		06	12	03	
»	9	Up	iP		06	24	19	
			i		06	24	32	
			eS		06	28	39	
					μ	s		
			P	z′	0.4	1.6		
		Ki	iP		06	25	29	
					μ	s		
			P	z′	0.1	1.0		
		Sk	iP		06	25	01	
		Aegean Sea.						
		Magn. = 5.7 (Up, Ki).						
»	9	Up	iP		06	28	00	
			eS		06	32	17	
					μ	s		
			P	z′	0.2	1.5		
			S	E	1.8	7		
			M	E	2.6	10		
			M	N	4.2	15		
			M	z	2.6	11		
			△ = 2650 km = 24°.					
		Ki	iP		06	29	09	
					μ	s		
			P	z′	0.1	1.0		
			M	E	5.1	15		
			M	N	1.6	13		
			M	z	2.7	11		
		Sk	iP		06	28	40	
		Aegean Sea.						
		Magn. = 5.6 (Up, Ki).						
»	9	Up	iP		07	02	42	
»	9	Up	iP		07	41	43	
					μ	s		
			P	z′	0.1	1.5		
		Ki			—			
					μ	s		
			M	E	0.8	14		
			M	N	0.7	12		
			M	z	0.8	11		
		Sk	eP		07	42	22	
		Aegean Sea.						
»	9	Up	iP		08	10	40	
»	9	Sk	iP		08	14	58	
»	9	Up	iP		09	50	25	
			eS		09	54	38	
					μ	s		
			P	z′	0.1	1.5		
			S	N	0.5	7		
			M	E	0.6	10		
			M	N	0.7	11		
			M	z	0.7	11		
		Ki			—			
					μ	s		
			M	E	1.8	16		

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1956
July 9 (cont.)

		M	N	0.4	11	
		M	Z	0.5	11	
✓	Sk	iP		09	51	01

Aegean Sea.
Magn. = 5.2 (Up).

» ✓ 9	Up	iP		10	07	41 D
		iPP		10	10	21
		iS		10	17	07
		i!		10	17	26
		e		10	18	04

		μ	s
P	E	0.8	3
P	N	0.4	3
P	Z	2.8	3
P	Z′	1.6	1.5
PP	Z	0.7	3
PP	Z′	1.0	2.3
S	N	1.2	7
M	E	5.3	20
M	N	5.6	20
M	Z	8.5	21

△ ~ 8000 km ~ 72°.

✓	Ki	iP		10	07	40 D
		iS		10	17	05
		e		10	17	19
		i!		10	17	26

		μ	s
P	E	1.5	5
P	N	0.4	5
P	Z	2.9	5
S	N	1.4	8
M	E	15	25
M	N	8.3	24
M	Z	12	23

△ ~ 8000 km ~ 72°.

✓	Sk	iP		10	07	23
		iPP		10	09	58
		ePKKP		10	35	19

△ = 7650 km = 69°.
Near coast of Haiti.
Magn. = 6.9 (Up, Ki).

» ✓ 9	Up	eP		10	24	56
✓	Sk	eP		10	25	33

(Aegean Sea).

» ✓ 9	Up	iP		11	36	06
✓	Sk	iP		11	36	49

Aegean Sea.

» ✓ 9	Up	iP		13	25	28
» ✓ 9	Up	eP		14	32	22
» ✓ 9	Up	e(Sg)		15	23	18
✓	Sk	e(Sg)		15	25	01

Local?

» ✓ 9	Sk	i(P)		16	12	35

1956
July ✓ 9

	Up	iPn		17	53	15
		iSg		17	53	58

△ = 290 km = 2.6°.

✓	Ki	e		17	56	21
		iSg		17	56	54

△ = 890 km = 8.0°.

✓	Sk	eSn		17	55	23
		iSg		17	55	59

△ = 710 km = 6.4°.
Southwest of Finland, 59.8°N, 22.8°E.
Origin time = 17 52 31.

» ✓ 9	Up	iP		20	15	39
✓	Ki	iP		20	16	47
	Sk	iP		20	16	20

Aegean Sea.

» ✓ 9	Up	iP		20	19	08
		eS		20	23	19
		i		20	23	30

		μ	s
P	Z′	0.1	1.4
S	E	0.7	8
S	N	0.5	7
M	E	3.1	12
M	N	1.7	14
M	Z	1.8	12

△ = 2600 km = 23½°.

✓	Ki	iP		20	20	16

		μ	s
P	Z′	0.1	1.0
M	E	5.9	14
M	N	0.9	13
M	Z	1.3	13

✓	Sk	iP		20	19	48

Aegean Sea.
Magn. = 5.4 (Up, Ki).

» ✓ 9	Ki	eP		20	48	02

Off coast of southern Sumatra.

» ✓ 9	Up	iP		20	53	21

		μ	s
M	E	1.1	12
M	N	0.7	13

✓	Ki	iP		20	54	25

		μ	s
M	E	2.1	14
M	N	0.4	11
M	Z	0.5	11

✓	Sk	iP		20	53	58

Aegean Sea.

» ✓ 9	Up	iP		21	33	57
		eS		21	38	13

		μ	s
P	Z′	0.1	1.4
S	E	0.5	7
S	N	0.4	7
M	E	0.6	11
M	N	1.0	11

1956
July 9 (cont.)

		M	Z	0.8	9	

△ = 2650 km = 24°.

✓	Ki	iP		21	35	04

		μ	s
M	E	1.4	15
M	N	0.5	14
M	Z	0.7	12

✓	Sk	iP		21	34	36

Aegean Sea.
Magn. = 5.2 (Up).

» ✓ 9	Up	iP		23	02	15
✓	Ki	iP		23	01	21
✓	Sk	iP		23	01	48

» ✓ 10	Up	iP		00	33	49

Aegean Sea.

» ✓ 10	Up	iP		02	04	53
		iS		02	09	15

		μ	s
S	N	0.5	6
M	E	0.5	14
M	N	1.0	11
M	Z	1.3	11

✓	Ki	iP		02	06	02

		μ	s
P	Z′	0.1	1.0
M	E	0.6	13
M	N	0.5	12
M	Z	0.6	12

✓	Sk	iP		02	05	35

Aegean Sea.

» ✓ 10	Up	iP		03	06	39 C
		iS		03	10	53

		μ	s
P	E	0.3	5
P	N	0.8	6
P	Z	0.9	5
P	Z′	0.4	1.7
S	E	1.1	7
S	N	1.6	7
M	E	2.8	11
M	N	8.4	11
M	Z	8.8	10

△ = 2600 km = 23½°.

✓	Ki	iP		03	07	48 C
		eS		03	12	59

		μ	s
P	Z′	0.1	1.1
S	N	0.7	12
M	E	5.9	14
M	N	2.5	10
M	Z	3.8	10

△ = 3500 km = 31½°.

✓	Sk	iP		03	07	19

Aegean Sea.
Magn. = 5.7 (Up, Ki).

» ✓ 10	Up	iP		09	36	05
✓	Ki	iP		09	35	40

1956
July 10 (cont.)

				μ	s
		M	E	0.3	14
		M	N	0.2	14
		M	Z	0.3	15

» ✓ 10	Up	iP		13	39	51
✓	Ki	iP		13	40	29
» ✓ 10	Ki	e(PKP)		15	37	53
» ✓ 10	Up	iPn		17	14	20
		iSg		17	15	03
✓	Ki	iSg		17	17	59
✓	Sk	eSn		17	16	27
		iSg		17	17	05

Aftershock of earthquake SW of Finland on July 9, 1956, at 17 52 31. Epicentre at 59.8°N, 22.8°E. Origin time = 17 13 36.

» ✓ 10	Up	i(P)		20	19	14
» ✓ 10	Up	iP		22	16	03
		i		22	17	37
✓	Ki	iP		22	16	11
✓	Sk	iP		22	16	28

Hindu Kush (h ~ 100 km).

» ✓ 11	Up	i(P)		05	30	55
» ✓ 11	Up	eP		19	00	39
✓	Ki	eP		19	00	59

		μ	s
M	E	0.7	19
M	N	0.4	19

	Sk	eP		19	01	07

Indian Ocean.

» ✓ 12	Ki	eP		00	28	35

Indian Ocean.

» ✓ 12	Up	iP		02	58	13

Aleutian Islands.

» ✓ 12	Ki	iP		06	24	08

		μ	s
M	E	0.6	15
M	N	0.2	14

Aegean Sea.

» ✓ 12	Up	iP		15	11	52
		i		15	13	39
		iPP		15	14	15
		e(Pa)		15	15	50
		iS		15	20	22
		iScS		15	21	40

		μ	s
P	E	0.2	2
P	Z	0.8	2
P	Z′	0.6	1.0
S	E	0.3	4
S	N	0.2	4

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1956							
July 12		M	E	1.7	25		
(cont.)		M	N	1.1	15		
		M	Z	2.2	25		
		△=7050 km=63½°.					
	Ki	iP		15	11	47	
		iS		15	20	13	
				μ	s		
		P	E	0.4	5		
		P	Z	0.4	5		
		P	Z′	0.6	1.2		
		S	E	0.8	10		
		S	N	0.5	10		
		M	E	1.7	15		
		M	N	1.0	13		
		M	Z	2.4	15		
		△=7000 km=63°.					
	Sk	iP		15	12	08	
		iPcP		15	12	33	
	Burma.						
	Magn.=6.3 (Up, Ki).						
» 12	Up			—			
				μ	s		
		M	E	1.4	21		
		M	N	2.0	20		
		M	Z	3.1	20		
	Ki	e		17	21	58	
		e		17	30	50	
				μ	s		
		M	E	2.3	22		
		M	N	0.8	19		
		M	Z	3.8	23		
	South Pacific Ocean.						
» 13	Up	e(PP)		13	55	06	
	Northern Chile.						
» 13	Up	iP		14	16	43	
	Ki	iP		14	16	24	
	Sk	iP		14	16	49	
» 13	Ki	iP		16	58	30	
» 14	Up	iP		00	22	18	
		iPP		00	23	57	
				μ	s		
		PP	Z′	0.1	1.2		
	Ki	iP		00	22	27	
		i		00	22	59	
		iPP		00	24	05	
	Sk	eP		00	22	43	
		iPP		00	24	35	
	Hindu Kush.						
» 14	Ki	eP		00	47	45	
» 14	Ki	iP		03	40	42	
	Sk	iP		03	41	12	
	Ryukyu Islands.						
» 14	Sk	eP		03	51	12	
	Mexico.						

1956							
July 14	Up	eP		12	35	57	
	Ki	eP		12	36	40	
	Sk	eP		12	36	38	
» 14	Up	eP		12	41	14	
	Ki	iP		12	42	22	
	Sk	eP		12	42	41	
		i		12	43	32	
		i		12	47	52	
» 14	Sk	iP		12	52	33	
» 14	Ki	iP		13	46	40	
» 14	Up	iP		15	47	53	
» 14	Up	iP		19	05	49	
		iS		19	09	31	
		e		19	11	32	
				μ	s		
		M	E	1.0	16		
		M	N	1.0	18		
		M	Z	1.4	16		
	Ki	eP		19	06	57	
		e		19	12	07	
				μ	s		
		M	E	1.3	12		
		M	N	0.5	13		
		M	Z	0.7	13		
	Sk	iP		19	06	34	
		i		19	11	27	
	Turkey.						
» 14	Up	iP		22	17	51	
				μ	s		
		P	Z′	0.1	1.0		
	Ki	iP		22	17	31	
	Sk	iP		22	17	56	
	Off north coast of Luzon, Philippine Islands.						
» 15	Up	iP		13	03	40	
		iS		13	13	01	
				μ	s		
		P	Z′	0.1	0.9		
		S	E	0.5	3		
		S	N	0.7	3		
	Ki	e		13	11	25	
		iS		13	12	00	
				μ	s		
		S	E	0.3	8		
		S	N	0.7	8		
	Sk	iP		13	03	38	
		eS		13	12	58	
	Bonin Islands region.						
	Deep (h ~ 500 km).						
» 15	Up	iP		18	50	28	
				μ	s		
		P	Z′	0.1	1.5		
	Sk	iP		18	50	21	
	Off coast of northern Honshu, Japan.						

1956							
July 16	Up	iP		00	27	19	
» 16	Up	iP		05	25	32	
	Ki	iP		05	26	07	
		eScS		05	36	14	
				μ	s		
		M	E	0.2	15		
		M	N	0.4	15		
		M	Z	0.3	15		
	Iran.						
» 16	Up	iP		09	34	55	
	Ki	iP		09	34	00	
	Near east coast of Kamchatka.						
» 16	Up	iP		13	43	14	
		i		13	44	05	
» 16	Up	iP		15	17	45	
		i		15	17	48	
		i		15	17	54	
		i		15	19	39	
		iPP		15	20	07	
		iPa		15	21	53	
		iS		15	26	24	
		iScS		15	27	45	
		iSa		15	33	45	
				μ	s		
		P	E	0.6	3		
		P	Z	1.7	3		
		P	Z′	0.6	1.1		
		PP	Z′	0.3	1.2		
		S	E	12	22		
		S	N	9.0	20		
		M	E	62	15		
		M	N	200	22		
		M	Z	110	15		
		△=7150 km=64½°.					
	Ki	iP		15	17	39C	
		i		15	17	45	
		i		15	18	54	
		iPa		15	21	41	
		iS		15	26	18	
		ePS		15	26	36	
		iScS		15	27	37	
		iSa		15	33	36	
				μ	s		
		P	E	2.0	7		
		P	N	0.3	7		
		P	Z	3.3	7		
		P	Z′	2.5	2.5		
		S	E	23	20		
		S	N	12	20		
		M	E	120	14		
		M	N	160	18		
		M	Z	150	14		
		△=7100 km=64°.					
	Burma. Magn.=6.9 (Up, Ki).						
	P is multiple at both stations. Pa is extremely clear on Grenet Z′ at Kiruna.						

1956							
July 16	Up	iP		18	04	54	
» 16	Up	iP		20	51	00	
	Ki	iP		20	50	53C	
	Burma.						
» 16	Up	iP		21	45	04	
		i!		21	45	19	
		eS		21	54	07	
				μ	s		
		P	Z′	0.2	1.0		
		M	N	0.5	20		
		M	Z	0.7	20		
		△=7650 km=69°.					
	Ki	iP		21	44	11	
		i!		21	44	27	
		eS		21	52	18	
		eP′P′		22	13	28	
				μ	s		
		i!	Z′	0.1	1.4		
		M	E	0.7	19		
		M	N	0.5	19		
		M	Z	1.1	19		
	Aleutian Islands.						
» 16	Up	iP		23	58	28	
» 17	Up	iP		03	24	23C	
		eS		03	28	23	
				μ	s		
		M	N	0.4	12		
		△ ~ 2450 km ~ 22°.					
	Ki	iP		03	25	36	
				μ	s		
		M	E	0.4	14		
		M	N	0.4	14		
	Near west coast of Greece.						
» 17	Ki	iP		04	49	01	
		i		04	49	15	
	Marianas Islands.						
» 17	Up	iP		07	47	30D	
		ipP		07	49	10	
		i		07	50	25	
		i		07	51	43	
		ipPP		07	53	30	
		iSKS		07	57	23	
		i!		07	58	06	
		iSP		08	00	22	
		eSS		08	06	17	
				μ	s		
		P	Z′	0.1	1.0		
		SKS	E	4.4	10		
		SKS	N	1.1	6		
		M	E	5.3	20		
		M	N	4.7	20		
		M	Z	5.2	20		
		△ ~ 11650 km ~ 105°.					
	Ki	iP		07	47	15	
		i		07	47	18	

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1956 July 17 (cont.)

	ipP		07	48	59
	i		07	50	35
	iPP		07	51	37
	iSKS		07	57	09
	i!		07	57	49
	iS		07	58	13
	iPKKP		08	03	18
	iSS		08	05	36
			μ		s
	P	z′	0.3		1.2
	SKS	E	7.2		11
	SKS	N	1.2		10
	S	E	3.0		8
	S	N	1.9		11
	PKKP	z′	0.2		1.5
	M	E	9.3		18
	M	N	7.5		22

△=11350 km=102°.
Banda Sea. h=460 km (Ki).
Magn.=6.9 (Up, Ki).

» 17	Up	i(P)	12	11	42
» 17	Ki	iP	15	26	51

Azores region.

» 17	Ki	eP	17	18	05

Marianas Islands.

» 17	Up	e(P)	20	46	16
		i	20	46	36
» 17	Ki	i(P)	22	08	55
			μ		s
		(P) z′	0.1		1.0

Seismic?

» 18	Up	iPKP	00	46	12
		e	00	47	11
			μ		s
		M E	1.0		25
		M N	0.6		22
		M Z	1.1		21
	Ki	iPKP	00	46	00
		ePS	00	56	11
			μ		s
		M E	0.9		20
		M N	0.7		25
		M Z	1.7		23

New Britain.

» 18	Up	iP	04	48	25
» 18	Ki	ePKP	05	37	35

Loyalty Islands.

» 18	Up	iP	06	33	27C
		i	06	36	41
		iPKP	06	37	24
		i	06	37	44
		iPP	06	37	56

1956 July 18 (cont.)

	ipPP		06	38	33
	iSKS		06	43	54
	e		06	44	49
	eSP		06	46	50
	ipPS		06	47	37
	i!		06	48	44
	iPKKP		06	49	12
			μ		s
	P	z	1.3		5
	P	z′	0.6		1.1
	PP	E	1.1		3
	PP	z	3.0		4
	PP	z′	2.3		1.8
	PKKP	z′	0.2		1.5
	M	E	34		24
	M	N	45		22
	M	z	46		24

△~11650 km~105°.

	Ki	iP	06	33	12C
		i	06	33	19
		ipP	06	33	50
		iPP	06	37	29
		ipPP	06	38	04
		iSKS	06	43	38
		iS	06	44	37
			μ		s
	P	E	0.8		6
	P	z	1.7		5
	P	z′	1.3		1.0
	PP	E	3.2		8
	PP	z	5.2		8
	PP	z′	0.7		1.5
	S	E	17		11
	S	N	4.7		10
	M	E	43		20
	M	N	34		21
	M	z	46		20

△=11300 km=101½°.
Banda Sea. h=140 km (Ki).
Magn.=7.3 (Up, Ki).

» 18	Up	iP	09	51	26
		i	09	51	39
	Ki	eP	09	52	43
			μ		s
		M E	0.6		14
		M N	0.3		14

Near west coast of Turkey.

» 18	Up	e(P)	11	32	41
» 18	Up	iP	21	20	31
» 19	Up	i(P)	00	32	52
» 19	Up	iP	20	01	43
	Sk	iP	20	02	23

Ionian Islands.

» 19	Up	iP	20	53	21

1956 July 19 (cont.)

	i		20	53	39
	iS		21	03	34
			μ		s
	P	z′	0.4		1.0
	S	E	0.3		4
	S	N	0.2		4
	M	E	1.9		18
	M	N	1.4		17
	M	z	2.5		18

△=9200 km=83°.

	Ki	iP	20	53	04C
		i	20	53	22
		iS	21	03	00
			μ		s
		P E	0.3		6
		P z	0.7		5
		P z′	0.1		1.0
		S E	1.0		8
		S N	0.3		8
		M E	3.8		20
		M N	1.1		16
		M z	6.1		20

△=8850 km=79½°.

	Sk	iP	20	53	27C
		i	20	53	38

Near west coast of Luzon, Philippine Islands.
Magn.=6.0 (Up, Ki).

» 19	Ki	iP	21	12	44
		i	21	13	01

Possibly aftershock of preceding earthquake.

» 19	Up	iP	23	39	16D
		e(S)	23	50	07
			μ		s
		P z′	0.2		1.2
		(S) N	0.3		6
		M E	1.4		18
		M N	1.3		18
		M z	2.3		19
	Ki	iP	23	39	11
		i	23	39	19
		eSKS	23	49	30
		eS	23	49	46
			μ		s
		P z′	0.4		1.5
		SKS E	0.4		9
		M E	1.7		17
		M N	1.1		17
		M z	2.2		17

△=9650 km=87°.

	Sk	iP	23	39	00
		i	23	39	07

Near coast of Costa Rica.
Magn.=6.2 (Up, Ki).

» 19	Up	eP	23	50	54
		eSKS	00	01	15

1956 July 19 (cont.)

			μ		s
	M	E	1.6		18
	M	N	1.4		18
	M	z	2.5		18
Ki	eP		23	50	49
	e(SKS)		00	01	15
			μ		s
	(SKS)	E	0.5		10
	(SKS)	N	0.3		11
	M	E	1.9		18
	M	N	1.3		17
	M	z	2.4		17
Sk	iP		23	50	38

Near coast of Costa Rica.
Magn.=6.2 (Up, Ki).

» 20	Up	eP	02	08	18
» 20	Up	iP	11	58	23
			μ		s
	M	E	0.9		14
	M	N	0.5		14
	M	z	1.2		14
Ki	iP		11	57	57
			μ		s
	M	E	0.7		17
	M	N	0.4		16
	M	z	0.7		15

» 20	Up	i(P)	15	11	08
» 20	Up	iP	17	46	27
	Ki	iP	17	46	12
		eS	17	57	22
			μ		s
		M E	0.8		20
		M N	0.3		17
		M z	0.9		20

△=10500 km=94½°.
Halmahera region.

» 20	Ki	eP	17	59	30

Bikini (H-bomb).

» 21	Up	iP	00	19	31
		eS	00	28	31
			μ		s
		S N	0.6		14
		M E	1.2		18
		M N	1.1		20
		M z	1.2		18

△=7550 km=68°.

	Ki	iP	00	20	11
		eS	00	29	45
			μ		s
		S N	0.4		13
		M E	1.1		16
		M N	0.8		20
		M z	1.2		18

△=8300 km=74½°.

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1956 July 21 (cont.)	Sk	iP		00	19	37
		Mid-Atlantic Ocean. Magn. = 5.6 (Up, Ki).				
» 21	Up	iPn		09	45	16
		iSg		09	46	00
		△ = 300 km = 2.7°.				
	Ki	e		09	47	44
		iSg		09	48	49
		△ = 870 km = 7.8°.				
	Sk	eSn		09	47	21
		iSg		09	47	58
		△ = 700 km = 6.3°.				
		Finland. Epicentre at 60.0° N, 23.0° E. Origin time = 09 44 30. Aftershock of earthquake on July 9 at 17 52 31.				
» 21	Up	iPn		09	56	20
		iSg		09	57	07
	Ki	eSg		09	59	53
	Sk	eSn		09	58	31
		iSg		09	59	06
		Finland. Same epicentre as for the preceding shock. Origin time = 09 55 37.				
» 21	Up	iPn		12	41	43 C
		iP*		12	41	50
		iSg		12	42	42
		△ = 390 km = 3.5°.				
	Ki	eSn		12	45	23
		iSg		12	46	37
		△ = 1180 km = 10.6°.				
	Sk	eSn		12	44	13
		iSg		12	44	58
		△ = 840 km = 7.6°.				
		Southern Baltic, 57° N, 21° E. Origin time = 12 40 45. Location and time determined by combination with the record at Copenhagen. Well developed surface waves (period about 2 sec) on Grenet Z′ at Uppsala.				
» 21	Up	iP		15	00	37 D
		i		15	01	07
		ipP		15	02	43
		iS		15	08	18
		iScS		15	09	24
				μ		s
		P	z′	0.1		0.9
		S	E	0.3		3
		△ = 7100 km = 64°.				
	Ki	iP		14	59	50 D
		ipP		15	01	47
		iS		15	06	50
		eScS		15	08	30
				μ		s
		P	z′	0.1		0.9
		S	E	0.7		8
		S	N	0.2		8
		△ = 6200 km = 56°.				

1956 July 21 (cont.)	Sk	iP		15	00	25 D
		epP		15	02	26
		iS		15	08	10
		△ ~ 7000 km ~ 63°.				
		Sea of Okhotsk. h = 640 km (Up, Ki, Sk). Magn. = 5.4 (Up, Ki).				
» 21	Up	iP		15	28	17
	Sk	iP		15	28	57
» 21	Up	iP		15	41	34 C
		i		15	41	43
		iPP		15	43	33
		iS		15	48	53
		i		15	52	42
				μ		s
		P	E	1.0		2
		P	N	0.3		2
		P	Z	2.5		2
		P	z′	1.6		1.0
		PP	E	0.4		3
		PP	N	0.2		3
		PP	Z	0.6		3
		S	E	2.3		8
		S	N	1.9		8
		S	Z	2.2		10
		M	E	18		14
		M	N	7.4		15
		M	Z	23		15
		△ = 5700 km = 51½°.				
	Ki	iP		15	41	52 C
		i		15	41	59
		iPcP		15	42	58
				μ		s
		P	E	1.1		10
		P	N	0.6		10
		P	Z	2.7		10
		P	z′	0.9		1.0
		△ = 6000 km = 54°.				
	Sk	iP		15	42	01 C
		i		15	42	09
		Western India. Magn. = 6.7 (Up, Ki).				
» 21	Ki	iP		21	08	53
		Marianas Islands region.				
» 22	Up	iP		03	34	10
		eS		03	38	29
				μ		s
		P	N	0.2		5
		P	Z	0.4		5
		P	z′	0.1		1.0
		S	E	0.3		7
		S	N	0.4		8
		S	Z	0.5		7
		M	E	0.7		11
		M	N	1.9		10
		M	Z	2.2		11
		△ = 2700 km = 24½°.				

1956 July 22 (cont.)	Ki	iP		03	35	20
		eS		03	40	27
				μ		s
		P	z′	0.2		0.9
		S	N	0.2		8
		M	E	1.4		13
		M	N	0.6		13
		M	Z	0.9		12
		△ = 3450 km = 31°.				
	Sk	iP		03	34	51 D
		Aegean Sea. Magn. = 5.6 (Up, Ki).				
» 22	Ki	ePP		09	43	46
		eSKS		09	49	55
				μ		s
		SKS	E	0.4		12
	Sk	iPP		09	43	15
		Northern Chile.				
» 23	Up	i(P)		02	09	16
» 23	Up	iSKP		03	53	14
	Ki	iSKP		03	52	50
		Fiji Islands. Deep (h ~ 600 km).				
» 23	Sk	e(P)		06	20	54
» 23	Ki	e(P)		07	53	32
» 23	Up	iP		07	55	17
	Ki	iP		07	54	20
		iPeP		07	55	28
				μ		s
		M	E	0.8		13
		M	N	0.4		12
		M	Z	1.1		19
	Sk	eP		07	55	00
		Near east coast of Kamchatka.				
» 23	Up	i		08	41	38
		i(Sg)		08	41	57
	Ki	e(Sg)		08	40	37
		Local?				
» 23	Ki	i(P)		12	53	20
		i		12	54	23
» 23	Ki	iP		19	04	10
	Sk	iP		19	04	21
» 23	Up	i(PP)		19	47	14
		i!		19	47	33
		ePKS		19	48	44
				μ		s
		M	E	2.0		19
		M	N	1.4		16
		M	Z	1.8		17
	Ki	iPKP		19	45	12
		iPP		19	47	09
		ePKS		19	48	29
		e		19	49	35

1956 July 23 (cont.)		PKP	z′	0.1		1.5
		PP	E	0.3		8
		PP	N	0.3		8
		PP	Z	0.6		8
		PP	z′	0.1		2.0
		PKS	E	0.4		8
		M	E	3.8		23
		M	N	3.0		23
		M	Z	7.4		24
	Sk	iPKP		19	45	11
		iPP		19	47	11
		Easter Island region. Magn. = 6.3 (Up, Ki).				
» 24	Up	iP		02	24	27
	Ki	iP		02	24	18
				μ		s
		M	N	0.5		19
	Sk	iP		02	24	43
		Tibet.				
» 24	Up	iPKP		07	23	18
		Tonga Islands.				
» 24	Ki	iP		07	28	14
	Sk	iP		07	27	47
» 24	Ki	eP		07	40	02
	Sk	eP		07	39	38
» 24	Up	iP		13	11	26 C
		i		13	12	12
		iPP		13	14	30
		iS		13	20	38
				μ		s
		P	z′	0.7		1.0
		S	N	0.3		3
	Ki	iP		13	10	53 C
		iPP		13	13	38
		iS		13	19	37
				μ		s
		S	N	0.4		7
	Sk	iP		13	11	23
		iPP		13	14	23
		South of Honshu, Japan. Deep (h ~ 500 km).				
» 24	Up	iP		14	12	29 C
	Ki	eP		14	11	52
	Sk	iP		14	12	24
		Off south coast of Honshu, Japan.				
» 24	Ki	iP		15	58	16
		i		15	58	30
	Sk	iP		15	59	02
» 24	Up	i(P)		18	30	56
		i(Sg)		18	31	57
	Ki	e(Sg)		18	28	51
	Sk	e(Sg)		18	31	43
		Local.				

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1956 July 24	Up	eP		19	10	12	
		eSKS		19	20	44	
		eS		19	21	27	
				μ	s		
		SKS	E	0.4	6		
		M	E	1.9	24		
		M	N	1.4	25		
		M	Z	2.1	24		
		△ = 10700 km = 96½°.					
	Ki	iP		19	09	57	
		eSKS		19	20	25	
		eS		19	20	56	
				μ	s		
		P	z′	0.1	1.1		
		SKS	E	0.5	7		
		S	N	0.4	13		
		M	E	2.0	23		
		M	N	1.3	20		
		M	Z	3.0	22		
		△ = 10300 km = 92½°.					
	Sk	iP		19	10	19	
	Molucca Passage. Magn. = 5.8 (Up, Ki).						
» 24	Sk	iP		21	47	40	
» 25	Up	i(P)		03	19	35	
» 26	Ki	iP		06	23	48 C	
	Sk	iP		06	24	40	
	Off east coast of Honshu, Japan.						
» 26	Ki	e(P)		06	30	23	
» 26	Up	iP		08	08	38	
» 26	Up	iP		10	04	58	
	Ki	iP		10	04	25 D	
	Nevada, U.S.A.						
» 26	Ki	iP		10	11	03	
» 26	Ki	iP		11	10	54	
» 26	Up	iP		11	55	28	
» 26	Ki	e(P)		16	29	33	
» 26	Up	iPKP		18	07	41 D	
				μ	s		
		PKP	z′	0.2	0.8		
	Ki	iPKP		18	07	30	
		iSKP		18	10	08	
	Sk	iPKP		18	07	34	
	Kermadec Islands region. Deep (h ~ 650 km).						
» 26	Up	iPKP		18	22	41	
				μ	s		
		PKP	z′	0.1	1.2		

1956 July 26 (cont.)	Ki	eSKP		18	25	14	
	Kermadec Islands region. Deep (h ~ 650 km).						
» 26	Up	iP		18	56	04	
		i		18	56	28	
» 27	Up	iP		04	42	29	
» 27	Ki	eP		06	58	17	
» 27	Up	iP		08	49	55	
				μ	s		
		P	z′	0.2	1.0		
» 27	Ki	iP		14	00	16	
	Sk	iP		14	00	53	
	Kamchatka.						
» 27	Up	iP		23	37	27	
	Ki	eP		23	36	47	
	Marianas Islands.						
» 28	Ki	eS		00	16	45	
				μ	s		
		M	E	1.4	19		
		M	Z	1.5	20		
	Sk	iP		00	05	55 D	
	Mexico.						
» 28	Up	iP		07	13	30	
	Sk	eP		07	14	03	
» 28	Ki	iP		10	58	18	
» 28	Ki	iP		11	22	01	
	Sk	eP		11	22	40	
	Marianas Islands.						
» 28	Up	eP		15	24	37	
	Ki			—			
				μ	s		
		M	E	1.1	16		
		M	N	0.3	14		
	Aegean Sea.						
» 28	Up	iP		21	07	31	
		e		21	11	33	
		e		21	13	35	
	Sk	iP		21	07	58	
		i		21	12	08	
		i		21	14	50	
» 28	Up	i(P)		21	47	05	
» 28	Sk	eP		22	06	58	
» 29	Up	ePKP		03	49	15	
	Sk	iPKP		03	49	05 D	
	Kermadec Islands.						
» 29	Up	iP		06	42	04	

1956 July 29	Up	iP		07	26	29	
	Ki	eS		07	37	21	
				μ	s		
		M	E	0.6	15		
		M	N	0.3	15		
		M	Z	0.6	16		
	Sk	iP		07	26	47 C	
	Indian Ocean.						
» 29	Up	iP		13	41	30	
	Sk	eP		13	41	10	
	Guatemala.						
» 29	Up	iP		22	37	48	
» 30	Up	iP		00	56	29	
» 30	Up	iP		05	46	23	
		i		05	46	28	
		eS		05	50	50	
				μ	s		
		S	E	2.8	11		
		M	E	9.2	12		
		M	N	4.8	11		
		M	Z	4.1	12		
		△ = 2800 km = 25°.					
	Ki	iP		05	47	29	
		i		05	47	38	
	Sk	iP		05	47	00	
	Aegean Sea. P is multiple.						
» 30	Up	iP		05	52	31	
	Ki	iP		05	53	37	
		i		05	53	46	
	Sk	iP		05	53	14	
	Aegean Sea.						
» 30	Up	eP		06	39	48	
	Ki	eP		06	40	55	
	(Aegean Sea).						
» 30	Up	iP		09	20	20	
		i		09	20	36	
		iPP		09	20	49	
		i		09	21	35	
		iS		09	24	36	
		i		09	24	41	
				μ	s		
		P	z′	0.8	1.4		
		PP	z′	0.7	1.5		
		S	E	4.4	10		
		S	N	5.2	12		
		S	Z	3.1	10		
		M	E	34	12		
		M	N	13	11		
		M	Z	16	12		
		△ = 2700 km = 24°.					
	Ki	iP		09	21	24	
		i		09	21	29	
				μ	s		
		P	z′	0.2	1.0		

1956 July 30 (cont.)		M	N	43	15		
		M	Z	14	11		
	Sk	iP		09	20	56	
		i		09	21	03	
	Aegean Sea. Magn. = 6.1 (Up, Ki). P is multiple.						
» 30	Up	iP		09	26	38	
				μ	s		
		P	z′	0.2	1.5		
	Ki	iP		09	27	46	
				μ	s		
		P	z′	0.1	1.5		
	Sk	iP		09	27	18	
	Aegean Sea. It is a remarkable fact that this shock occurred 6m 20s after the previous, larger shock and that the shock at 05.52 came 6m 08s after the one at 05.46, a mere coincidence?						
» 30	Ki	iP		10	44	32	
» 30	Up	eP		10	45	15	
		i		10	45	23	
		i		10	45	31	
		eS		10	49	40	
				μ	s		
		P	z′	0.1	1.3		
		S	E	1.0	10		
		S	N	2.1	12		
		S	Z	1.4	10		
		M	E	4.9	12		
		M	N	3.6	13		
		M	Z	4.7	11		
		△ = 2800 km = 25°.					
	Ki	iP		10	46	25	
		i		10	46	31	
	Sk	iP		10	45	57	
		i		10	46	13	
	Aegean Sea. Magn. = 5.4 (Up). P is multiple.						
» 30	Up	iP		11	35	50	
				μ	s		
		M	E	2.1	16		
		M	N	1.1	15		
		M	Z	2.2	16		
	Ki	eP		11	35	21	
		e		12	06	21	
				μ	s		
		M	E	1.0	13		
		M	N	0.6	13		
		M	Z	1.3	13		
	Ryukyu Islands region.						
» 30	Up	iP		12	13	20	
» 30	Up	iP		13	10	19	

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1956 July 30 (cont.)	Ki	eP		13	11	17	
	Aegean Sea.						
» 30	Up	iP		14	55	45	D
	Ki	iP		14	55	24	
	Near north coast of Luzon, Philippine Islands.						
» 31	Sk	eP		05	39	21	
» 31	Ki	eP		06	36	11	
		i		06	36	17	
				μ		s	
		P	z′	0.1		1.5	
		M	E	0.9		15	
		M	N	0.4		19	
» 31	Up	eP		06	46	43	
	Ki	eP		06	47	33	
	(Aegean Sea).						
» 31	Up	iPKP		10	53	09	C
	Kermadec Islands.						
	Deep (h ~ 400 km).						
» 31	Up	iP		16	51	53	
	Ki	iP		16	51	47	C
				μ		s	
		P	z′	0.1		1.0	
	Sk	iP		16	52	07	
	Halmahera Island.						
» 31	Up	i(P)		18	23	43	
		i		18	24	09	
	Local?						
» 31	Ki	iP		21	38	30	
Aug 1	Up	iP		01	57	39	
	Ki	iP		01	56	42	
	Yukon, Canada.						
» 1	Up	iP		09	42	26	
	Ki	iP		09	42	31	
	Sk	iP		09	42	50	
		e		09	44	27	
» 1	Ki	eP		10	01	18	
	Sk	iP		10	01	45	
» 1	Up	iP		11	47	41	
		i(Sg)		11	48	10	
	Sk	e(Sg)		11	48	51	
	Local.						
» 1	Up	i(Sg)		11	57	26	
	Local.						
» 1	Sk	e(Sg)		17	05	26	
	Local?						

1956 Aug 1	Ki	iP		20	27	46	
» 1	Ki	iP		20	40	00	D
	Sk	iP		20	39	43	
	Dominican Republic.						
» 1	Up	eL		21	42		
				μ		s	
		M	E	0.5		20	
		M	N	1.6		22	
		M	Z	1.6		22	
	Ki	eL		21	40		
				μ		s	
		M	E	0.8		20	
		M	N	0.6		18	
		M	Z	1.5		20	
» 2	Ki	iP		07	23	56	C
		i(pP)		07	24	24	
	Sk	iP		07	23	42	
	Colombia.						
» 2	Up	iP		07	29	14	
				μ		s	
		P	z′	0.1		1.0	
	Ki	iP		07	28	29	
	Sk	iP		07	29	05	
	Off east coast of Hokkaido, Japan.						
» 2	Ki	eP		17	58	04	
				μ		s	
		M	E	0.6		17	
		M	N	0.4		16	
		M	Z	0.6		16	
	(Hindu Kush region).						
» 2	Up	iP		18	52	24	
» 2	Ki	e(PP)		20	24	08	
		e(PKS)		20	25	09	
				μ		s	
		M	E	0.5		22	
		M	N	0.3		21	
		M	Z	0.7		21	
	South of Tonga Islands.						
» 2	Up	e(P)		22	06	38	
		e(Sg)		22	07	09	
	Local?						
» 3	Ki	iP		00	59	37	
	Sk	iP		00	55	02	
» 3	Up	iP		05	29	38	
» 3	Ki	eP		07	44	47	
	Aleutian Islands.						
» 3	Ki	e(P)		13	39	17	
» 3	Up	iPKP		17	56	31	

1956 Aug 3 (cont.)		M	N	μ 0.5		s 19	
	Ki	e(PKP)		17	56	33	
				μ		s	
		M	E	0.4		21	
		M	N	0.3		20	
		M	Z	0.6		20	
	Sandwich Islands.						
» 3	Sk	iP		19	28	38	
» 4	Up	iP		03	26	32	
» 4	Up	ePP		10	08	23	
		i(SS)		10	23	39	
				μ		s	
		M	E	2.6		20	
		M	N	2.0		20	
		M	Z	4.2		20	
	Ki	ePP		10	07	47	
		e		10	14	04	
		ePS		10	17	03	
				μ		s	
		M	E	3.2		22	
		M	N	1.6		21	
		M	Z	4.9		22	
	Sk	i(PKP)		10	07	21	
	New Britain.						
	Intermediate depth.						
» 4	Sk	iP		10	37	47	
» 4	Up	iP		13	38	51	
	Ki	iP		13	37	57	
		i		13	38	14	
	Sk	iP		13	38	34	
	Kamchatka.						
» 4	Up	i(P)		14	26	18	
» 5	Up	iP		05	46	54	
	Ki	eP		05	46	51	
	Near south coast of Sumatra.						
» 5	Up	iP		09	20	22	
		i		09	20	32	
				μ		s	
		M	E	0.7		18	
		M	N	0.6		17	
	Ki	iP		09	19	41	
		eS		09	28	14	
		eScS		09	29	35	
				μ		s	
		S	E	0.3		12	
		M	E	1.5		23	
		M	N	0.6		18	
		M	Z	1.2		18	
	△ = 7050 km = 63½°.						
	Sk	eP		09	20	15	
	Off east coast of Hokkaido, Japan.						
	Magn. = 5.4 (Up, Ki).						

1956 Aug 5	Sk	iP		16	17	00	
» 5	Up	e(P)		17	15	27	
	Sk	eP		17	16	14	
» 5	Up	iP		20	08	40	
» 6	Up	eP		02	07	18	
» 6	Sk	eP		13	28	34	
	Off coast of Guatemala.						
» 6	Up	iP		14	56	55	
	Ki	iP		14	56	15	
	Sk	iP		14	56	49	
» 6	Ki	e(P)		15	46	03	
» 6	Ki	eP		17	09	07	
» 6	Up	iP		17	34	39	D
				μ		s	
		M	E	1.0		19	
		M	N	0.5		20	
		M	Z	1.0		19	
	Ki	iP		17	34	10	
				μ		s	
		M	E	0.3		18	
	Sk	iP		17	34	40	
	Ryukyu Islands.						
» 7	Up	iP		00	40	13	D
		i!		00	40	30	
				μ		s	
		i!	z′	0.1		1.0	
	Ki	iP		00	40	09	
		i!		00	40	24	
				μ		s	
		P	z′	0.1		1.5	
	Sk	iP		00	40	29	D
		i!		00	40	46	
	Burma.						
» 7	Ki	iP		04	57	42	
» 7	Ki	eP		06	38	51	
» 7	Up	i(P)		08	44	00	
» 8	Up	iP		02	21	34	
» 8	Up	eP		02	29	18	
» 8	Ki	iP		05	30	11	
	Sk	eP		05	30	22	
		i		05	30	38	
» 8	Up	iP		09	20	33	
» 8	Up	iP		11	44	56	D

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1956							
Aug 8					μ	s	
(cont.)		P	z′		0.1	1.0	
	Ki	iP		11	45	36	D
		P	z′		0.1	1.2	
	Sk	iP		11	45	32	
	Iran.						
» 8	Up	iP		20	47	11	
» 8	Up	i(P)		21	47	40	
» 8	Up	iP		23	10	12	
					μ	s	
		M	E		1.5	16	
		M	N		3.5	16	
		M	z		1.4	16	
	Ki	iP		23	10	30	
		i		23	12	45	
		e(ScS)		23	20	36	
					μ	s	
		M	E		1.9	13	
		M	N		1.3	15	
		M	z		2.3	13	
	Sk	iP		23	10	40	
		i		23	10	45	
	Southern Afghanistan.						
» 9	Up	iP		03	42	28	
		i		03	42	31	
		i		03	42	44	
		e(S)		03	47	03	
					μ	s	
		M	E		0.8	13	
		M	N		0.5	12	
		M	z		0.9	13	
	Ki	eP		03	43	32	
					μ	s	
		M	E		1.2	15	
	Aegean Sea.						
» 9	Up	i(P)		10	17	53	
		i		10	18	05	
		iSg		10	18	10	
	Local. Seismic?						
» 9	Ki	iP		13	55	31	
	Hokkaido, Japan.						
» 9	Up	i(P)		15	27	28	
» 9	Ki	iP		20	41	30	D
	Sk	eP		20	41	55	
» 9	Up	iPKP		22	05	27	
		iPKP2		22	05	34	
					μ	s	
		PKP	z′		0.1	1.0	
		PKP2	z′		0.2	1.0	
		M	N		0.9	21	
		M	z		1.2	22	

1956							
Aug 9	Ki	iPKP		22	05	13	
(cont.)					μ	s	
		M	E		0.8	18	
		M	N		0.7	20	
		M	z		1.5	20	
	Sk	iPKP		22	05	23	
		iPKP2		22	05	31	
	Kermadec Islands.						
» 9	Up	i(PKP)		23	19	21	
		iPKP		23	19	33	
		ipPKP		23	20	46	
		iPP		23	22	10	
		iSKP		23	22	40	
		iPKS		23	23	06	
		i!		23	24	16	
		i		23	28	34	
					μ	s	
		PKP	z		1.3	5	
		PKP	z′		1.4	2.5	
		PP	z		0.7	4	
		SKP	z		0.9	4	
		SKP	z′		1.2	2.5	
		PKS	E		0.7	4	
		PKS	N		1.4	4	
		M	E		1.6	20	
		M	N		2.0	22	
		M	z		3.1	22	
		△ ~ 14900 km ~ 134°.					
	Ki	e(PKP)		23	19	10	
		iPKP		23	19	18	
		iPKP		23	19	20	
		iPKS		23	22	36	
		i!		23	23	48	
		i!		23	27	49	
		iSS		23	38	06	
					μ	s	
		PKP	z′		0.2	0.8	
		PKS	E		1.1	6	
		PKS	N		1.4	7	
		M	E		3.4	22	
		M	N		1.4	20	
		M	z		3.4	21	
		△ ~ 14000 km ~ 126°.					
	Sk	i(PKP)		23	19	17	
		iPKP		23	19	29	
		ipPKP		23	20	43	
		iSKP		23	22	31	
		△ ~ 14500 km ~ 130½°.					
	Samoa Islands region.						
	Intermediate depth (h ~ 250 km).						
	The small-amplitude phase (PKP), arriving about 12 sec earlier than the computed arrival time of PKP, is noteworthy.						
» 9	Up	iP		23	31	52	
» 10	Ki	iP		02	29	54	
	Sk	iP		02	29	43	
	Costa Rica.						

1956							
Aug 10	Ki	eP		06	00	07	
» 10	Ki	iP		13	41	27	
» 10	Up	iP		19	17	57	
		i		19	18	30	
» 10	Up	iP		22	05	50	
	Ki	iP		22	05	19	
	Northern Luzon, Philippine Islands.						
» 11	Up	iP		01	59	38	
» 11	Up	iP		16	23	54	
		iSg		16	24	34	
	Local.						
» 11	Up	iP		16	46	28	
» 12	Up	iP		00	05	04	
					μ	s	
		M	N		1.1	24	
	Ki	iP		00	04	11	
					μ	s	
		M	E		0.8	18	
		M	N		0.5	17	
		M	z		1.1	17	
	Sk	iP		00	04	46	
	Aleutian Islands.						
» 12	Up	ePKP		00	44	34	
		i		00	46	19	
		ePP		00	47	36	
					μ	s	
		PP	z′		0.2	1.7	
	Ki	iPKP		00	44	31	
		iSKP		00	47	37	
					μ	s	
		PKP	z′		0.1	1.5	
		SKP	z′		0.1	1.5	
	Sk	ePKP		00	44	40	
	Tonga Islands.						
	Intermediate depth (h ~ 200 km).						
» 12	Up	eP		05	43	35	
» 12	Sk	iPKP		05	58	36	
	Northern New Britain.						
	Intermediate depth (h ~ 150 km).						
» 12	Up	iP		10	35	15	
» 12	Up	iP		16	42	49	
» 12	Up	iP		16	58	07	
	Ki	iP		16	57	31	
	Sk	iP		16	58	04	
	Off south coast of Honshu, Japan.						
» 12	Up	iP		17	11	15	
		iPP		17	14	02	

1956							
Aug 12		e		17	17	18	
(cont.)		eS		17	20	48	
		eSS		17	25	22	
					μ	s	
		P	z		0.6	3	
		P	z′		0.4	1.8	
		PP	z′		0.1	1.5	
		S	E		1.0	8	
		S	N		1.4	8	
		M	E		21	19	
		M	N		20	18	
		M	z		12	17	
		△ = 8250 km = 74½°.					
	Ki	iP		17	10	37	
		iPP		17	13	09	
		iS		17	19	41	
		eSS		17	23	51	
					μ	s	
		P	z′		0.1	1.0	
		PP	z′		0.2	1.5	
		S	E		1.0	7	
		S	N		1.6	7	
		M	E		35	18	
		M	N		36	19	
		M	z		29	20	
		△ ~ 7600 km ~ 68½°.					
	Sk	iP		17	11	11	
		iPP		17	13	55	
		△ = 8150 km = 73½°.					
	Near south coast of Honshu, Japan.						
	Magn. = 6.3 (Up, Ki).						
» 13	Up	e(P)		04	47	18	
		i(Sg)		04	47	39	
	Local?						
» 13	Up	eP		08	44	33	
» 13	Up	iPKP		09	27	23	
					μ	s	
		PKP	z′		0.1	1.5	
	Sk	iPKP		09	27	16	D
	Kermadec Islands region.						
» 13	Up	iP		12	50	06	
	Ki	e(P)		12	49	22	
» 13	Up	iP		15	11	43	
					μ	s	
		P	z′		0.1	1.0	
» 13	Up	iP		15	29	35	C
» 13	Up	e(P)		18	24	54	
		i(Sg)		18	25	22	
	Local?						
» 14	Up	e!		03	19	07	
					μ	s	
		M	E		2.8	18	
		M	N		5.4	20	

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1956						
Aug 14		M	z	7.0	20	
(cont.)	Ki	iPKP		03	08	59C
		ePKS		03	12	44
		e(PKKP)		03	20	22
				μ	s	
		PKS	z	0.3	9	
		M	E	2.5	16	
		M	N	2.6	22	
		M	z	5.3	22	
	South Indian Ocean.					
	Magn. = 6.5 (Up, Ki).					
» 14	Ki	iP		05	46	55
	Sk	iP		05	47	14
» 14	Up	iPKP		12	07	44C
	Ki	ePKP		12	07	23
	Kermadec Islands region.					
» 14	Ki	i(P)		12	48	04
» 14	Ki	iP		12	56	04
	Near southwest coast of Sumatra.					
» 14	Up	iP		20	50	31
		i		20	51	17
		i		20	51	57
» 14	Up	iPKP		23	52	50
	Ki	iPKP		23	52	43
		iSKP		23	55	19
	Sk	iSKP		23	55	35
	Fiji Islands.					
	Deep (h ~ 550 km).					
» 15	Up	i(P)		05	13	15
		i(Sg)		05	13	50
	Local?					
» 15	Up	iP		05	32	54 D
		i		05	33	27
		iPP		05	36	21
		iSKS		05	42	48
		iS		05	43	04
				μ	s	
		P	z	0.8	3	
		P	z′	0.7	1.0	
		PP	z′	0.2	1.5	
		SKS	E	2.3	6	
		SKS	N	0.6	5	
		S	E	3.1	6	
		S	N	2.4	7	
		M	E	1.6	24	
		M	N	1.5	21	
		M	z	1.7	20	
	△ ~ 9700 km ~ 87°.					
	Ki	iP		05	32	53 D
		i		05	33	27
		iPP		05	36	19
		iSKS		05	42	45
		iS		05	43	02

1956						
Aug 15		iSP		05	44	01
(cont.)		ePS		05	44	42
				μ	s	
		P	E	0.5	7	
		P	z	1.4	6	
		P	z′	1.2	1.0	
		PP	E	0.4	7	
		PP	z′	0.3	1.7	
		SKS	E	2.7	8	
		S	E	5.3	10	
		S	N	5.1	8	
		S	z	0.9	8	
		M	E	0.8	17	
		M	N	0.6	16	
		M	z	1.1	16	
	△ ~ 9700 km ~ 87°.					
	Sk	iP		05	33	07 D
		iPP		05	36	45
	Sumatra. Deep (h ~ 300 km).					
	Magn. = 6.4 (Up, Ki).					
» 15	Up	i(P)		05	43	05
				μ	s	
		(P)	z′	0.4	1.8	
	Ki	i(P)		05	43	10
				μ	s	
		(P)	z′	0.1	1.0	
	Sk	i(P)		05	43	31
» 15	Up	eP		11	04	46
		iPP		11	08	45
		i		11	09	20
		iSKS		11	15	07
		iS		11	15	54
				μ	s	
		PP	E	0.7	6	
		PP	z	1.2	6	
		PP	z′	0.1	1.2	
		SKS	E	1.2	4	
		S	E	0.8	5	
		M	E	2.6	20	
		M	N	5.3	23	
		M	z	3.1	18	
	Ki	iP		11	04	26
		i(pP)		11	04	52
		iPP		11	08	23
		e		11	12	07
		iSKS		11	14	51
		iS		11	15	24
		iPKKP		11	21	26
				μ	s	
		P	z	0.6	6	
		P	z′	0.1	1.3	
		PP	E	0.7	6	
		PP	z	1.0	6	
		PP	z′	0.2	1.7	
		SKS	E	2.6	5	
		S	E	1.9	7	
		S	N	0.9	7	
		M	E	4.1	22	
		M	N	5.8	22	

1956						
Aug 15		M	z	4.8	20	
(cont.)		△ = 10450 km = 94°.				
	Sk	iP		11	04	49
		i(pP)		11	05	11
		iPP		11	08	48
		△ = 10700 km = 96½°.				
	Northern Celebes.					
	h = 85 km (Ki, Sk).					
	Magn. = 6.3 (Up, Ki).					
» 15	Up	iP		12	06	49C
		i		12	06	54
		iS		12	10	00
		iLg1		12	11	32
		i(Lg1)		12	11	49
		iLg2		12	12	15
		i		12	12	23
				μ	s	
		P	N	1.8	4	
		P	z	2.8	4	
		P	z′	1.5	1.5	
		S	E	1.2	8	
		S	N	0.7	3	
		M	E	7.7	13	
		M	N	15	10	
		M	z	20	10	
		△ = 1850 km = 16½°.				
	Ki	iP		12	08	18C
		eS		12	12	36
		iLg2		12	16	26
		eRg		12	17	22
		e		12	18	17
				μ	s	
		P	N	0.9	5	
		P	z	1.0	5	
		P	z′	0.6	1.0	
		S	E	1.3	14	
		S	N	1.6	13	
		S	z	1.4	12	
		M	E	8.0	13	
		M	N	17	11	
		M	z	25	11	
		△ = 2700 km = 24½°.				
	Sk	iLg1		12	13	19
	Near coast of Yugoslavia.					
	Magn. = 6.0 (Up, Ki).					
	Lg2 is extremely clear at Uppsala and Kiruna.					
» 15	Ki	iP		12	34	03
» 15	Ki	iP		13	22	00
» 15	Up	iP		13	23	12C
		eS		13	32	06
		ePS		13	32	22
		e		13	33	25
				μ	s	
		P	N	0.4	3	
		P	z	1.0	4	
		P	z′	0.7	1.5	

1956						
Aug 15		S	N	1.1	13	
(cont.)		M	E	12	20	
		M	N	12	17	
		M	z	12	18	
		△ = 7550 km = 68°.				
	Ki	iP		13	22	24
		i		13	22	29
		e		13	26	24
		eS		13	30	36
		iScS		13	32	15
				μ	s	
		P	E	0.3	7	
		P	N	0.3	6	
		P	z	1.1	8	
		P	z′	0.4	1.5	
		S	N	1.3	17	
		M	E	15	16	
		M	N	12	19	
		M	z	24	20	
		△ = 6650 km = 60°.				
	Sk	iP		13	22	59
		i		13	23	02
		iPcP		13	23	34
	Kurile Islands.					
	Magn. = 6.3 (Up, Ki).					
» 15	Ki	e(P)		13	57	22
» 15	Up	iP		14	43	24
	Ki	eP		14	44	37
	Sk	eP		14	44	02
	Off south coast of Greece.					
» 15	Ki	iP		15	12	17C
» 15	Ki	iP		16	58	26
» 15	Ki	i(Sg)		17	38	04
	Local?					
» 15	Up	i(P)		20	42	27
» 15	Up	iP		21	39	55
				μ	s	
		P	z′	0.1	1.1	
	Ki	iP		21	39	08C
				μ	s	
		P	z′	0.1	1.0	
		M	E	0.8	18	
		M	N	0.6	20	
		M	z	1.2	20	
	Sk	iP		21	39	43
	Kurile Islands.					
» 15	Up	e(P)		22	19	47
		i(Sg)		22	20	27
	Local?					
» 15	Up	iP		22	48	47 D
» 16	Up	iP		00	43	49

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1956						
Aug 16 (cont.)		i		00	43	56
		e		00	47	52
		eS		00	48	02
				μ		s
		P	z′	0.1		0.9
		M	E	9.3		16
		M	N	3.6		20
		M	z	4.8		14
		△ = 2650 km = 24°.				
	Ki	eP		00	45	02
		e		00	49	54
		eS		00	50	13
				μ		s
		M	E	9.1		20
		M	N	2.1		17
		M	z	2.7		13
		△ = 3550 km = 32°.				
	Sk	iP		00	44	27
		i		00	44	35
	About 200 km off south coast of Greece.					
	Magn. = 5.4 (Up, Ki).					
» 16	Up	iP		02	15	41
		e		02	25	04
		e(Lg2)		02	25	47
				μ		s
		M	E	0.8		13
		M	N	1.1		13
		M	z	1.8		13
	Ki	iP		02	16	40
		e(SS)		02	24	11
				μ		s
		M	E	0.9		18
		M	N	1.2		24
		M	z	1.1		17
	Sk	eP		02	15	53
	Near southwest coast of Portugal.					
» 16	Ki	eP		08	40	30
	Sk	iP		08	39	46
	Italy.					
» 16	Sk	iP		15	36	27
» 16	Ki	iP		23	48	29
	Sk	iP		23	48	00
» 17	Up	iP		01	29	07
		e		01	34	19
				μ		s
		M	E	1.5		19
		M	N	1.8		20
		M	z	2.3		19
	Ki	iP		01	29	12
		ePP		01	30	15
		iPcP		01	32	18
		eS		01	34	08
				μ		s
		PP	E	0.3		8
		S	N	0.3		8

1956						
Aug 17 (cont.)		M	E	1.1		16
		M	N	0.4		14
		M	z	1.3		16
		△ = 3300 km = 29½°.				
	Sk	eP		01	28	35
		i		01	28	43
		i		01	31	44
	North Atlantic Ocean.					
» 17	Up	iP		02	05	34C
				μ		s
		M	E	1.2		19
		M	N	1.1		20
		M	z	1.7		20
	Ki	eP		02	05	34
		e		02	06	09
				μ		s
		M	E	1.0		17
		M	N	0.6		18
		M	z	1.3		17
	Sk	iP		02	05	04
	North Atlantic Ocean.					
» 17	Up	iP		05	14	21
		i		05	14	42
» 17	Ki	eL		15	08	
				μ		s
		M	E	0.9		20
		M	N	0.6		21
		M	z	1.1		19
	New Britain region.					
» 17	Ki			—		
				μ		s
		M	E	0.6		15
		M	N	0.4		13
		M	z	0.5		13
	Sk	iP		18	53	59
» 17	Ki	iP		22	07	14
» 18	Ki	eP		04	43	20
				μ		s
		P	z′	0.1		1.5
	Sk	iP		04	44	18
» 18	Up	iP		06	09	02
	Ki	eP		06	09	41
				μ		s
		M	E	0.2		11
		M	N	0.2		11
» 19	Up	iPKP		05	36	52
				μ		s
		PKP	z′	0.1		1.0
		M	E	0.6		24
		M	N	0.9		20
		M	z	1.4		20
	Ki	ePKP		05	36	35

1956						
Aug 19 (cont.)				μ		s
		M	E	0.6		20
		M	N	0.9		22
		M	z	1.2		20
	Fiji Islands region.					
	Intermediate depth (h ~ 150 km).					
» 19	Up	iPKP		09	08	07
	Ki	iPKP		09	08	02
	Sk	iPKP		09	08	12
	Tonga Islands.					
	Intermediate depth (h ~ 100 km).					
» 19	Up	iP		11	40	41
	Sk	iP		11	40	31
» 19	Up	e(P)		14	51	07
» 19	Up	e(P)		22	49	29
» 20	Up	iP		01	06	39
		i		01	07	08
	Ki	iP		01	05	50
	Northwest Pacific. Deep.					
» 20	Up	iP		05	46	36
		eSKS		05	56	53
		eS		05	57	12
				μ		s
		P	z′	0.4		2.0
		SKS	N	0.3		4
		S	E	0.6		9
		M	E	1.8		23
		M	N	1.1		20
		M	z	2.9		23
		△ = 9700 km = 87½°.				
	Ki	iP		05	46	35
		eSKS		05	56	57
		eS		05	57	07
				μ		s
		P	z′	0.3		1.8
		S	N	0.5		8
		M	E	1.7		20
		M	N	0.9		21
		M	z	2.3		22
		△ = 9650 km = 87°.				
	Sk	iP		05	46	22
	Near south coast of Panama.					
	Magn. = 6.3 (Up, Ki).					
» 20	Ki	i(Sg)		10	09	46
	Local?					
» 20	Up	iP		18	57	03
» 21	Up	eL		00	51	
				μ		s
		M	N	0.5		20
	Ki	eL		00	52	
				μ		s
		M	E	0.9		20

1956						
Aug 21 (cont.)		M	N	0.7		22
		M	z	1.5		20
» 21	Up	iP		02	37	06 D
» 21	Ki	e(PP)		02	53	45
	Tonga Islands region.					
» 21	Up	eP		11	36	47
				μ		s
		M	E	0.8		21
		M	N	1.1		21
		M	z	1.4		20
	Ki	iP		11	35	56
				μ		s
		M	E	1.0		19
		M	N	0.5		19
		M	z	2.6		25
	Kurile Islands.					
» 21	Up	e(P)		14	40	47
» 21	Up	i(P)		15	26	35
» 21	Ki	iP		16	28	15C
» 21	Up	iP		18	31	29
» 22	Up	iPKP		11	45	20
	Ki	iPKP		11	45	05
	Sk	iPKP		11	45	17
	New Hebrides.					
» 22	Ki	e(P)		13	10	41
» 22	Up	iSn		14	45	29
		iSg		14	46	01
		△ = 620 km = 5.6°.				
	Ki	eSn		14	45	19
		i		14	45	44
		iSg		14	45	47
		△ = 580 km = 5.2°.				
	Sk	iP(g)		14	43	23 D
		i		14	43	29
		iSg		14	43	41
		△ = 160 km = 1.4°.				
	Off coast of central Norway, 64.7° N, 10.0° E.					
	Origin time = 14 42 55.					
» 22	Up	eP		15	07	21
	Ki	eP		15	08	10
	Off east coast of Rhodes.					
» 22	Up	iP		16	12	34
		i		16	12	42
	Ki	iP		16	12	21
		i		16	12	29
	Sk	iP		16	12	49
» 22	Ki	iP		17	26	15
	Molucca Passage.					

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1956							
Aug. 22	Up	iP		18	08	53	
» 22	Up	iP		18	59	50	
	Ki	iP		18	59	12	
		i		18	59	28	
	Sk	iP		18	59	55	
» 22	Up	iP		19	46	41 C	
				μ		s	
		P	z′	0.1		1.1	
	Ki	iP		19	46	31	
	Sk	iP		19	46	55	
Foreshock of following earthquake.							
» 22	Up	iP		19	50	22	
		i		19	50	25	
		eS		19	58	33	
				μ		s	
		P	z′	0.4		0.9	
		S	N	0.1		3	
		M	E	0.9		17	
		M	N	3.1		19	
		M	z	0.8		15	
		△ = 6650 km = 60°.					
	Ki	iP		19	50	12	
		i		19	50	15	
		eS		19	58	18	
				μ		s	
		P	z′	0.1		1.0	
		S	N	0.2		8	
		M	E	0.8		14	
		M	N	1.2		18	
		M	z	0.8		14	
		△ = 6550 km = 59°.					
	Sk	iP		19	50	38	
		i		19	50	40	
		i		19	50	52	
Assam. Magn. ~ 5.8 (Up, Ki). P is clearly multiple.							
» 23	Up	iP		01	02	11	
» 23	Up	iP		10	33	25	
» 23	Up	iP		13	15	00	
	Ki	iP		13	14	06 C	
Unimak Island region.							
» 23	Up	ePKP		14	06	07	
		ePP		14	06	22	
		e		14	07	21	
		iSKS		14	12	47	
		i		14	13	23	
		ePS		14	15	19	
				μ		s	
		PP	E	0.2		6	
		PP	z	0.4		5	
		SKS	E	1.0		8	
		SKS	N	0.2		6	
		M	E	5.3		20	
		M	N	2.2		20	

1956							
Aug. 23 (cont.)		M	z	5.2		20	
		△ ~ 11200 km ~ 101°.					
	Ki	eP		14	02	34	
		ePKP		14	06	28	
		e(PP)		14	06	36	
		eSKS		14	13	00	
		eS		14	14	11	
				μ		s	
		P	E	0.1		6	
		P	z	0.3		6	
		(PP)	E	0.3		6	
		SKS	E	0.7		9	
		S	E	0.5		9	
		S	N	0.4		9	
		M	E	5.6		23	
		M	N	2.8		21	
		M	z	13		23	
		△ ~ 11450 km ~ 103°.					
Bolivia. Intermediate depth (h ~ 100 km). Magn. = 6.6 (Up, Ki).							
» 23	Up	iP		22	16	46	
	Ki	iP		22	16	07	
		i		22	16	19	
				μ		s	
		M	E	0.4		16	
		M	N	0.2		16	
		M	z	0.9		17	
	Sk	eP		22	16	41	
Near east coast of Honshu, Japan.							
» 23	Up	iP		23	30	56 D	
	Ki	iP		23	30	42	
	Sk	iP		23	31	09	
Szechwan Province, China.							
» 24	Ki	iP		00	12	26 C	
Near east coast of Kamchatka.							
» 24	Up	iP		04	01	58	
				μ		s	
		M	E	0.8		20	
		M	N	1.0		22	
		M	z	0.8		22	
	Ki	iP		04	01	12	
				μ		s	
		M	E	0.8		18	
		M	N	0.7		20	
		M	z	1.5		20	
	Sk	iP		04	01	48	
Kurile Islands.							
» 24	Up	iP		04	38	21 C	
		i		04	38	35	
		ePa		04	42	26	
		i(S)		04	46	59	
		iS		04	47	07	
		eP′P′		05	06	54	
				μ		s	
		P	E	1.0		15	

1956							
Aug. 24 (cont.)		P	N	3.7		14	
		P	z	5.3		12	
		P	z′	0.5		1.0	
		S	E	3.3		13	
		S	N	4.4		12	
		S	z	2.0		12	
		P′P′	z′	0.1		1.5	
		M	E	13		21	
		M	N	13		19	
		M	z	14		17	
		△ = 7350 km = 66°.					
	Ki	iP		04	37	27 C	
		i		04	37	41	
		i		04	38	00	
		ePa		04	41	09	
		eS		04	45	24	
		eP′P′		05	07	21	
				μ		s	
		P	E	0.9		15	
		P	N	1.9		10	
		P	z	4.8		10	
		P	z′	0.4		1.0	
		S	E	5.2		14	
		S	N	2.1		12	
		P′P′	z′	0.1		2.0	
		M	E	17		22	
		M	N	18		21	
		M	z	41		21	
		△ = 6450 km = 58°.					
	Sk	iP		04	38	02 C	
		eP′P′		05	07	06	
		△ = 7000 km = 63°.					
Aleutian Islands. Magn. = 6.6 (Up, Ki).							
» 24	Up	iP		05	00	45 C	
				μ		s	
		P	z′	0.1		1.2	
	Ki	iP		04	59	51 C	
				μ		s	
		P	z′	0.1		0.9	
	Sk	iP		05	00	26	
Aleutian Islands.							
» 24	Up	iP		05	10	11	
		i		05	10	16	
		i		05	10	27	
				μ		s	
		P	z′	0.1		1.4	
	Ki	iP		05	09	21	
	Sk	iP		05	10	02	
Kurile Islands.							
» 24	Ki	iPKP		08	46	53	
	Sk	iPKP		08	47	04	
Loyalty Islands.							
» 24	Up	iP		08	51	59	
		i!		08	52	09	
		eS		09	00	28	

1956							
Aug. 24 (cont.)				μ		s	
	i!	z′		0.2		1.7	
	M	N		0.5		18	
	M	z		0.8		15	
	△ = 7000 km = 63°.						
	Ki	iP		08	51	05	
		i		08	51	16	
				μ		s	
	P	z′		0.1		1.3	
	M	E		0.9		19	
	M	N		0.4		16	
	M	z		1.1		17	
	Sk	iP		08	51	42	
		i		08	51	52	
Kamchatka.							
» 24	Up	i(P)		18	31	07	
» 24	Up	eP		19	25	56	
	Ki	iP		19	25	03 C	
				μ		s	
	P	z′		0.1		1.3	
	Sk	eP		19	25	33	
	i!			19	26	18	
Aleutian Islands.							
» 25	Ki	iP		00	36	12	
Halmahera Island region.							
» 25	Ki	eP		11	14	16	
	Sk	iP		11	13	48	
Off south coast of Greece.							
» 25	Ki	e(P)		16	09	23	
				μ		s	
	M	E		0.4		14	
	M	N		0.2		15	
	M	z		0.5		15	
Lower California.							
» 25	Up	iP		19	44	33	
				μ		s	
	P	z′		0.2		1.2	
	Ki	iP		19	43	40 C	
				μ		s	
	P	z′		0.2		1.0	
	Sk	iP		19	44	14	
Aleutian Islands.							
» 25	Ki	iPKP		22	21	59	
	Sk	iPKP		22	22	10	
Santa Cruz Islands. Intermediate depth (h ~ 200 km).							
» 26	Up	iPg		08	10	37	
		i		08	10	50	
		iSn		08	11	01	
		iSg		08	11	07	
		△ = 260 km = 2.3°.					
	Ki	e(Pn)		08	11	25	
		eSn		08	12	30	

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1956
Aug 26 (cont.)
iSg 08 13 00
△=630 km=5.7°.
Sk iPg 08 10 41
i 08 10 44
i 08 10 59
iSg 08 11 14
△=280 km=2.5°.
Near the Baltic coast of Sweden, 62.2°N, 17.0°E.
Origin time=08 09 51.
Felt in the area of Hälsingland-Medelpad.

» 26 Sk iP 11 03 51

» 26 Up iP 13 05 10

» 26 Up iP 13 41 05

» 26 Up iP 16 59 08
Ki iP 16 58 14
μ s
P z′ 0.1 1.0
Sk iP 16 58 48
Aleutian Islands.

» 26 Ki i(P) 17 14 44

» 26 Up eL 22 07
μ s
M E 1.2 16
M N 0.7 16
M Z 1.8 17
Ki eL 22 07
μ s
M E 0.6 15
M N 0.6 18
M Z 1.1 17

» 27 Up iP 01 40 19

» 27 Ki iP 15 36 42

» 27 Up iP 15 42 45C
μ s
P z′ 0.1 1.0
Ki eP 15 43 16
iPP 15 43 58
iPcS 15 50 08
Sk iP 15 43 28
i 15 43 43
Northern Caucasus.

» 27 Ki eP 18 09 40
Sk eP 18 10 10
Alaska.

» 28 Up iP 01 34 21
iS 01 38 03
i 01 38 44

1956
Aug 28 (cont.)
μ s
P z′ 0.2 1.2
M N 0.8 17
M Z 1.4 16
△=2200 km=20°.
Ki iP 01 35 28
i 01 35 47
i 01 41 05
μ s
M E 1.3 16
M N 0.5 15
M Z 1.0 15
Sk iP 01 35 08
iPP 01 35 37
i 01 40 28
Near north coast of Turkey.

» 28 Up i(P) 08 47 14

» 28 Up iPKP 10 07 38C
Ki iPKP 10 07 29
Sk ePKP 10 07 30
Tonga Islands region.
Deep (h ~ 600 km).

» 28 Up eP 13 47 00

» 28 Up iP 13 55 00
μ s
P z′ 0.1 1.2

» 29 Up iP 03 14 59
μ s
P z′ 0.1 1.0
M E 1.6 24
M N 1.3 24
M Z 1.8 21
Ki iP 03 14 04
μ s
M E 1.0 21
M N 0.6 19
M Z 0.7 18
Sk iP 03 14 41C
Near east coast of Kamchatka.

» 29 Up iP 18 07 44D
Ki eP 18 07 31
Sk iP 18 07 58

» 29 Sk i(P) 18 12 59

» 30 Up iP 04 35 15C
e(S) 04 44 18
μ s
P N 0.4 4
P Z 0.7 4
P z′ 0.3 1.3
M E 2.4 18
M N 2.6 22
M Z 4.1 21
Ki iP 04 34 22C

1956
Aug 30 (cont.)
eS 04 42 27
e 04 42 40
μ s
P N 0.4 8
P Z 0.8 8
P z′ 0.3 1.2
S E 0.7 13
M E 2.5 18
M N 2.6 15
M Z 4.8 16
△=6550 km=59°.
Sk iP 04 34 50C
Aleutian Islands.
Magn.=6.2 (Up, Ki).

» 30 Up iP 05 36 37
eS 05 46 15
μ s
S N 1.2 14
M E 1.2 18
M N 1.3 18
M Z 2.0 19
△=8400 km=75½°.
Ki iP 05 35 57
iS 05 45 02
ePPS 05 45 31
μ s
S N 0.6 10
M E 1.6 18
M N 1.2 18
M Z 3.1 18
△=7650 km=69°.
Sk iP 05 36 11
Off coast of northern California.
Magn.=5.8 (Up, Ki).

» 30 Up i 06 26 05
μ s
M E 1.2 15
M Z 1.1 11
Ki iP 06 12 08
μ s
M E 0.4 10
M N 0.6 16
M Z 0.6 11
Sk iP 06 12 40

» 30 Ki eP 10 19 10

» 30 Ki e(P) 13 15 52
i 13 17 00
i(Sg) 13 17 17
Local?

» 30 Up iP 18 17 45
Ki iP 18 17 50
Sk iP 18 17 12
i 18 17 20
North Atlantic Ocean.

» 30 Up i(P) 20 47 45

1956
Aug 30 (cont.)
i 20 48 27
i(Sg) 20 48 54
Local?

» 31 Up iPKP 00 30 26
Solomon Islands.
Intermediate depth (h ~ 100 km).

» 31 Up i(P) 02 41 25
i(Sg) 02 41 58
Local?

» 31 Sk iP 03 00 27
Lesser Antilles.

» 31 Ki e(Sg) 08 17 41
Local?

» 31 Sk i(P) 10 34 22

» 31 Up i(Sn) 10 50 21
iSg 10 50 47
△=610 km=5.5°.
Ki ePg 10 48 38
iSg 10 49 12
μ s
Sg z′ 0.2 0.5
△=290 km=2.6°.
Sk ePg 10 48 44
iSg 10 49 23
i 10 49 27
△=330 km=3.0°.
Swedish Lapland, 65.5°N, 18.3°E.
Origin time=10 47 45. Felt.

» 31 Ki eP 15 44 22

» 31 Up iP 18 32 17

» 31 Ki iP 22 16 20
Sk iP 22 16 44
Marianas Islands region.

» 31 Ki eP 23 19 34
Sk iP 23 20 02
Marianas Islands region.

Sep 1 Up —
μ s
M N 0.7 20
Ki iP 00 34 33C
eSKS 00 45 08
μ s
SKS E 0.4 11
M E 0.7 17
M N 0.5 16
M Z 1.2 18
Sk iP 00 34 57
Marianas Islands region.

» 1 Up i(P) 04 21 22

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1956						
Sep	1	Ki	iP	08	19	21
»	1	Up	iP	16	04	48 C
				μ	s	
			M N	0.9	20	
		Ki		—		
				μ	s	
			M N	0.5	16	
		Sk	iP	16	05	04 C
»	1	Up	iP	18	07	29
		Ki	iP	18	06	35 D
		Sk	iP	18	07	05
		Alaska.				
»	1	Ki	i(P)	20	51	31
»	2	Ki	iP	14	13	08
			i	14	14	11
			i(P)	14	19	23
		Two shocks?				
»	3	Up	eP	15	08	45
		Ki	iP	15	08	26
		South of Formosa.				
»	3	Up	iP	18	46	09 C
				μ	s	
			P z′	0.1	1.0	
		Ki	iP	18	47	21
		Sk	iP	18	46	48
		Near south coast of Greece.				
»	4	Up	i(P)	01	20	19
»	4	Up	iP	02	15	16 D
		Ki	iP	02	14	51
»	4	Up	e(P)	15	25	39
»	5	Ki	iP	03	23	18
»	5	Up	i(P)	13	02	25
»	5	Up	eL	14	20	
				μ	s	
			M E	0.7	11	
			M N	0.7	15	
			M z	1.3	15	
		Ki	eL	14	25	
				μ	s	
			M E	0.7	10	
			M N	0.5	11	
		Yugoslavia-Hungary border region.				
»	5	Ki	e(P)	21	04	33
»	6	Up	ePKP	00	17	16
		Sk	iPKP	00	17	05
		South Pacific Ocean.				

1956						
Sep	6	Up	e(P)	00	56	13
»	6	Up	i(P)	02	27	59
»	6	Up	iP	04	47	30
»	6	Ki	i(P)	08	30	57
»	6	Ki	eP	10	49	57
		Aleutian Islands.				
»	6	Up	iP	11	52	00
			i	11	52	09
			iS	11	56	21
				μ	s	
			P z′	0.1	1.0	
			S E	1.5	10	
			S N	1.7	10	
			S z	1.7	10	
			M E	9.2	11	
			M N	5.3	11	
			M z	5.1	12	
		△ = 2700 km = 24½°.				
		Ki	iP	11	52	59
			i	11	53	16
				μ	s	
			M E	15	15	
			M N	6.8	13	
			M z	9.7	12	
		Sk	iP	11	52	37
			i	11	53	04
			i	11	53	17
		Dodecanese Islands region.				
		Magn. = 5.6 (Up, Ki).				
»	6	Up	eP	13	04	01
			i	13	04	13
			iPP	13	04	35
			eS	13	08	30
				μ	s	
			PP z′	0.1	1.3	
			S N	0.5	10	
			M E	1.5	12	
			M N	0.7	13	
			M z	1.0	12	
		△ = 2800 km = 25°.				
		Ki	eP	13	05	04
				μ	s	
			M E	2.3	15	
			M N	1.0	12	
			M z	1.4	12	
		Sk	iP	13	04	38
		Dodecanese Islands.				
»	6	Up	eP	15	18	53
			i	15	19	14
»	6	Up	e(P)	15	50	10
»	6	Up	i(P)	15	52	20
			i(Sg)	15	52	46

1956						
Sep	6	Sk	e(P)	15	52	13
(cont.)			e(Sg)	15	54	37
		Local?				
»	6	Ki	iP	17	40	17
»	6	Up	iP	22	31	26
»	7	Ki	iPKP	04	12	58
		Sk	iPKP	04	13	08
		Fiji Islands region.				
		Intermediate depth (h ~ 250 km).				
»	7	Ki	eP	05	58	32
		Sk	eP	05	58	40
»	7	Ki	eL	15	28	
				μ	s	
			M E	0.7	17	
			M N	0.4	13	
»	7	Ki	iP	15	33	05
»	7	Ki	eP	20	00	11
»	8	Ki	iP	12	45	30
				μ	s	
			P z′	0.1	1.5	
»	8	Up	iP	15	47	18
		Ki	iP	15	47	28
		Sk	iP	15	47	44
»	8	Ki	iP	16	13	30
		Off south coast of Kamchatka.				
»	8	Up	eP	18	11	53
			iPP	18	12	13
			i!	18	15	35
				μ	s	
			M E	1.1	17	
			M N	1.2	15	
			M z	1.8	17	
		Ki	iP	18	10	30
			iPP	18	10	36
			eT	18	18	58
				μ	s	
			PP z′	0.1	1.0	
			M E	3.4	19	
			M N	2.3	18	
			M z	3.2	19	
		Sk	iP	18	11	23
			iPP	18	11	30
		Arctic Ocean, west of Spitsbergen.				
»	9	Up	iPKP	01	53	06
		Sk	ePKP	01	53	00
		Kermadec Islands region.				
»	9	Up	iPKP	15	38	09
				μ	s	
			PKP z′	0.1	1.0	

1956						
Sep	9	Ki	iPKP	15	37	59
(cont.)			i	15	40	40
		Fiji Islands region.				
		Deep (h ~ 550 km).				
»	9	Up	eP	17	48	35
				μ	s	
			M E	1.2	18	
			M N	1.1	20	
			M z	1.0	19	
		Ki	iP	17	48	19
			eS	17	59	06
				μ	s	
			P z′	0.1	1.0	
			M E	1.9	20	
			M N	1.1	20	
			M z	1.6	19	
		Sk	iP	17	48	41
		Halmahera.				
		Intermediate depth (h ~ 150 km).				
»	9	Sk	iP	18	01	42
»	9	Ki	iP	18	17	36
			i	18	22	12
		Sk	iP	18	17	57
»	10	Up		—		
				μ	s	
			M E	1.2	19	
			M N	1.1	20	
			M z	1.6	18	
		Ki		—		
				μ	s	
			M E	1.1	18	
			M N	0.6	18	
			M z	1.8	20	
		Sk	iPKP	02	27	33
»	10	Ki	iP	07	15	54
»	10	Up	iP	10	55	41
»	10	Up	iP	12	44	14 D
			eSKS	12	54	13
			iS	12	54	28
				μ	s	
			P z′	0.2	1.0	
			SKS E	0.2	3	
			SKS N	0.1	2	
			S N	0.1	3	
		Ki	iP	12	44	13 D
			i	12	44	28
			iSKS	12	54	12
			iS	12	54	26
				μ	s	
			P z′	0.3	1.0	
			SKS E	0.4	5	
			S E	0.3	7	
			S N	0.5	7	

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1956								
Sep 10	Sk	iP		12	44	27	D	
(cont.)	Sumatra. Intermediate depth (h ~ 250 km).							
	Magn. = 6.2 (Up, Ki).							
» 10	Up	eSS		14	36	00		
				μ		s		
		M	E	1.2		19		
		M	N	0.9		20		
		M	Z	1.6		18		
	Ki	eSS		14	35	10		
				μ		s		
		M	E	1.8		23		
		M	N	0.9		23		
		M	Z	2.8		24		
	Sk	eP		14	17	45		
	Pacific Ocean, south of Mexico.							
» 10	Up	iP		21	06	40	C	
» 11	Up	iPKP		00	11	22		
		i		00	11	34		
		ePP		00	14	38		
				μ		s		
		PKP	N	0.2		6		
		PKP	Z	0.6		6		
		PKP	Z′	0.2		1.0		
		PP	N	0.3		6		
		M	N	0.9		24		
	Ki	iPKP		00	11	11		
		ePP		00	13	53		
		e(PS)		00	24	05		
				μ		s		
		PP	N	0.2		7		
		PP	Z	0.4		7		
	Sk	e(PKP)		00	11	31		
	Tonga Islands region.							
» 11	Up	iP		00	12	17		
		e(PP)		00	15	50		
	Ki	iP		00	12	14		
		e(PP)		00	15	53		
				μ		s		
		P	Z′	0.1		1.5		
		(PP)	N	0.4		4		
	Sk	iP		00	12	02		
	Costa Rica-Panama.							
» 11	Up	e(P)		00	37	34		
» 11	Up	iP		01	07	27		
» 11	Up	iP		01	13	52	D	
» 11	Up	iP		01	18	44		
» 11	Up	iP		02	34	44		
» 11	Up	ePKP		02	51	54		
		ePP		02	54	20		
		iPKS		02	55	20		

1956								
Sep 11								
(cont.)		PKP	Z′	μ 0.2		s 2.0		
		PP	N	0.3		6		
		PP	Z	0.5		7		
		PKS	E	0.4		7		
		PKS	N	0.5		7		
		M	E	1.7		25		
		M	N	2.0		24		
		M	Z	2.1		24		
	Ki	iPKP		02	51	40		
		ePP		02	53	32		
				μ		s		
		PP	N	0.2		7		
		PP	Z	0.4		7		
		M	E	1.0		21		
		M	N	1.2		22		
		M	Z	2.9		23		
	Sk	ePKP		02	51	46		
	Fiji Islands.							
	Magn. = 6.3 (Up, Ki).							
» 11	Up	iP		03	47	27		
	Ki	eP		03	46	42		
» 11	Up	iP		03	57	16	C	
» 11	Up	iP		04	20	18		
	Ki	iP		04	18	45		
		iT		04	23	48		
	Sk	iP		04	19	22		
		iS		04	21	07		
	△ = 1000 km = 9°.							
	Northeast of Jan Mayen.							
» 11	Up	eP		07	40	21		
				μ		s		
		M	E	0.8		12		
		M	N	0.5		13		
	Ki	eP		07	41	08		
				μ		s		
		M	E	1.5		19		
		M	N	0.7		13		
		M	Z	1.1		12		
	Region north of Crete.							
» 11	Up	iP		10	07	20		
		eS		10	17	43		
				μ		s		
		P	Z	0.4		5		
		S	E	0.8		11		
		S	N	0.4		10		
		M	E	1.5		22		
		M	N	0.7		16		
		M	Z	2.0		23		
	Ki	eP		10	07	11		
		iS		10	17	36		
		e		10	18	39		
				μ		s		
		P	E	0.3		7		
		P	N	0.2		6		
		P	Z	0.8		8		

1956								
Sep 11		S	E	1.1		8		
(cont.)		S	N	0.5		8		
		M	E	3.0		20		
		M	N	1.8		19		
		M	Z	3.8		22		
	Sk	iP		10	07	01		
	Guatemala. Intermediate depth (h ~ 100 km).							
	Magn. = 6.1 (Up, Ki).							
» 11	Up	iPKS		16	06	59		
				μ		s		
		M	N	1.3		24		
		M	Z	1.2		18		
	Ki	ePKP		16	03	09		
		i		16	03	15		
				μ		s		
		PKP	Z′	0.1		1.5		
		M	E	1.7		20		
		M	N	0.8		21		
		M	Z	1.9		22		
	New Hebrides.							
» 11	Ki	eP		17	40	02		
» 11	Ki	eP		21	03	51		
		e		21	05	23		
		i		21	05	40		
» 11	Up	iP		21	14	43		
		iPcP		21	15	16		
		ePa		21	18	47		
		eS		21	23	15		
				μ		s		
		P	Z	0.8		8		
		S	E	1.0		13		
		S	N	0.9		10		
		M	E	11		23		
		M	N	19		23		
		M	Z	25		23		
	△ = 7200 km = 65°.							
	Ki	iP		21	13	53		
		ePa		21	17	29		
		eS		21	21	50		
		e		21	22	11		
				μ		s		
		P	Z	0.9		9		
		S	E	0.9		9		
		M	E	11		22		
		M	N	6.4		19		
		M	Z	24		25		
	△ = 6450 km = 58°.							
	Sk	iP		21	14	30		
	Kurile Islands.							
	Magn. = 6.1 (Up, Ki).							
» 12	Up	i(P)		02	56	22		
» 12	Ki	iP		10	32	53		
	Aleutian Islands.							

1956								
Sep 12	Sk	iP		13	38	13		
	Marianas Islands region.							
» 12	Up	iP		20	10	33		
	Kurile Islands.							
» 12	Up	iP		22	20	02		
» 13	Ki	eP		14	20	05		
	Sk	eP		14	20	14		
» 13	Ki	iPKP		14	50	04		
				μ		s		
		PKP	Z′	0.2		1.8		
	Sk	iPKP		14	50	10		
	About 800 km south of Tasmania.							
» 13	Sk	iP		14	52	42		
	Yugoslavia.							
» 13	Up	eP		17	33	20		
	Ki	iP		17	33	52		
	Sk	iP		17	33	54		
» 13	Ki	iP		19	29	44		
» 13	Up	iP		20	00	38		
	Ki	iP		19	59	46		
» 13	Up	iP		21	57	06	C	
» 14	Ki	iP		06	29	35		
	Sk	iP		06	29	26		
	Off coast of Chiapas, Mexico.							
» 14	Up	i(P)		14	45	06		
	Seismic?							
» 14	Up	i(P)		15	23	21		
	Seismic?							
» 14	Up	i(P)		15	44	43		
	Seismic?							
» 14	Ki	iP		20	29	16		
» 15	Ki	i(P)		10	30	56		
	Seismic?							
» 15	Up	iP		22	25	14		
» 16	Up	iP		08	45	19	C	
		iPP		08	46	57		
		iS		08	51	33		
		i		08	53	59		
		i!		08	54	27		
				μ		s		
		P	Z	2.7		6		
		P	Z′	0.6		1.2		
		PP	N	1.2		5		
		PP	Z	4.0		5		
		PP	Z′	1.1		1.8		
		S	N	4.8		9		
		M	E	46		12		
		M	N	54		11		

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1956
Sep 16 (cont.)

	M	z	76	17	
	△ = 4650 km = 42°.				
Ki	iP		08	45	30
	iPP		08	47	11
	iS		08	52	02
	eSS		08	55	06
	i		08	55	21
	iScS		08	55	28
	iSSS		08	56	12
	i		08	57	20
	iLg1		09	00	30
	iLg2		09	01	54
			μ	s	
	P	E	1.7	6	
	P	N	0.8	6	
	P	Z	1.9	6	
	P	Z′	0.4	1.0	
	PP	E	2.3	6	
	PP	N	1.2	6	
	PP	Z	2.5	5	
	PP	Z′	0.5	1.5	
	S	E	4.3	9	
	S	N	2.5	10	
	M	E	71	10	
	M	N	38	11	
	M	Z	70	10	
	△ = 4900 km = 44°.				
Sk	iP		08	45	34
	i		08	45	45
	iPP		08	47	24
	i		08	47	39

Afghanistan.
Magn. = 6.7 (Up, Ki).

» 16 Ki iPKP 13 45 23
Tonga Islands.
Intermediate depth (h ~ 200 km).

» 16 Up iP 14 31 18

	μ	s	
M	E	2.4	20
M	N	1.9	11
M	Z	3.1	20

Ki i(P) 14 31 20
i 14 31 39
iPP 14 33 16

	μ	s	
M	E	1.6	11
M	N	1.6	11
M	Z	2.5	11

Sk iP 14 31 45
Afghanistan.

» 16 Up iP 18 12 58
e(S) 18 17 33

	μ	s	
(S)	E	0.8	7
M	E	1.4	11
M	N	1.0	11
M	Z	1.0	12

△ ~ 2750 km ~ 25°.

1956
Sep 16 (cont.)

Ki	iP		18	14	05
			μ	s	
	M	E	2.1	14	
	M	N	0.9	14	
	M	Z	1.8	14	
Sk	iP		18	13	38

Aegean Sea.

» 16 Up iP 20 36 22
Near south coast of Kamchatka.

» 17 Sk iP 05 36 25

» 17 Up iP 20 30 59
Ki iP 20 30 59
i 20 31 16
Sk iP 20 31 12
Near north coast of Sumatra. Intermediate depth (h ~ 150 km).

» 18 Ki e(P) 05 45 46

» 18 Up iP 09 55 50
Ki eP 09 56 29
Azores Islands.

» 18 Sk i(P) 10 34 01

» 18 Up iP 16 14 18
Ki eP 16 13 46
Off south coast of Honshu, Japan.

» 19 Up iP 01 22 00
Ki iP 01 21 56
Sk iP 01 22 16
Burma.

» 19 Up iP 23 58 07C
iS 00 06 28
isS 00 07 22

	μ	s	
P	Z′	0.6	1.0
S	N	0.4	4
M	Z	1.4	16

△ = 7100 km = 64°.

Ki iP 23 58 01C
ipP 23 58 28
i! 00 02 30
iS 00 06 18
esS 00 07 08

	μ	s	
P	Z′	0.4	1.0
S	E	1.8	7
S	Z′	0.6	2.5
M	E	2.8	17
M	N	3.1	21
M	Z	4.9	19

△ = 7050 km = 63½°.

Sk iP 23 58 23C
ipP 23 58 49
i 23 59 30

1956
Sep 19 (cont.)

eS		00	06 58
i		00	07 11

△ = 7400 km = 66½°.
Burma. h = 120 km (Up, Ki, Sk).
Magn. = 6.3 (Up, Ki).

» 20 Ki i(P) 07 18 13

» 20 Up iP 11 22 05

	μ	s	
P	Z′	0.1	1.3

(South Atlantic Ocean).

» 20 Up iP 14 05 23
Ki iP 14 04 30

	μ	s	
P	Z′	0.1	1.0

Sk iP 14 04 57
Alaska.

» 20 Ki eP 16 12 16

» 20 Up iPg 16 25 28
iSg 16 25 32
Rock-burst in the Dannemora mines, situated about 40 km NNE of Uppsala.

» 20 Up iP 20 16 49C
i 20 16 56

	μ	s	
P	N	0.2	2
P	Z	0.4	2
P	Z′	0.6	1.3
M	E	1.0	15
M	N	1.5	17
M	Z	2.8	16

Ki iP 20 15 57C
i 20 16 27

	μ	s	
P	Z′	0.3	1.0
M	E	1.5	16
M	N	0.7	15
M	Z	1.7	15

Sk iP 20 16 33C
Near south coast of Kamchatka.

» 20 Up iP 22 02 39C
iS 22 11 17

	μ	s	
P	E	0.3	2
P	N	1.0	2
P	Z	2.3	2
P	Z′	2.7	1.5
S	E	1.3	10
S	N	1.2	9
M	E	5.2	15
M	N	6.9	17
M	Z	9.9	16

△ = 7150 km = 64½°.

Ki iP 22 01 46C

1956
Sep 20 (cont.)

eS		22	09 43

	μ	s	
P	Z	1.6	4
P	Z′	1.2	1.4
S	E	1.0	13
M	E	7.4	16
M	N	3.8	19
M	Z	7.3	17

△ = 6350 km = 57°.

Sk iP 22 02 22C
i 22 03 47
Near south coast of Kamchatka.
Magn. = 6.9 (Up, Ki).

» 20 Up iP 22 11 57
Ki iP 22 11 05

» 20 Up i(P) 23 14 29

	μ	s	
(P)	Z′	0.1	1.5
M	E	3.2	19
M	N	4.0	18
M	Z	6.6	19

Ki eP 23 14 52

	μ	s	
M	E	5.1	23
M	N	5.2	24
M	Z	5.6	22

Sk iP 23 14 23
i 23 14 37
Atlantic Ocean.

» 21 Up iP 03 45 25C
Ki iP 03 44 32
Near south coast of Kamchatka.

» 21 Up iP 05 54 19
Ki iP 05 53 26

» 21 Ki iP 09 00 08

	μ	s	
M	N	0.9	15

» 21 Up ePP 09 32 30
Mexico.

» 21 Ki eP 12 45 41

» 21 Ki eP 14 28 18

» 21 Ki iP 15 11 39

» 21 Up iP 18 19 44
i 18 20 16
Ki i(P) 18 18 57

» 21 Up i(P) 18 46 18

» 21 Ki iPKP 19 29 30
Argentina.
Deep (h ~ 600 km).

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1956							
Sep 21	Up	iP		23	06	46	
				μ	s		
		P	z′	0.1	0.8		
	Ki	iP		23	05	59	
	Sk	iP		23	06	35	
	Kurile Islands.						
» 22	Up	iP		03	23	57	
		i		03	24	00	
	Sk	iP		03	24	39	
	Italy.						
» 22	Up	iP		04	01	25C	
» 22	Up	ePKP		07	11	35	
	Ki	ePKP		07	11	27	
		iSKP		07	14	01	
	Sk	iPKP		07	11	30	
	Fiji Islands region.						
	Deep (h ~ 650 km).						
» 22	Up	iP		14	09	54	
	Ki	eP		14	10	03	
				μ	s		
		M	E	0.4	11		
		M	N	0.7	13		
		M	z	0.6	11		
	Sk	eP		14	10	20	
	Tadzhik, USSR.						
» 22	Up	iP		16	01	49	
		ePP		16	03	09	
		e		16	10	47	
		iLg2		16	15	23	
				μ	s		
		P	z′	0.2	1.5		
		PP	z′	0.1	1.4		
		M	E	1.9	15		
		M	N	1.6	9		
		M	z	3.3	16		
	Ki	iP		16	01	58	
		iPP		16	03	34	
		e		16	10	41	
		eLg1		16	15	55	
				μ	s		
		P	z′	0.2	1.4		
		PP	z′	0.1	1.2		
		M	E	3.5	11		
		M	N	1.9	7		
		M	z	3.2	10		
	Sk	iP		16	02	16	
		i(PP)		16	04	08	
	Tadzhik, USSR.						
	Magn. = 5.8 (Up, Ki).						
» 22	Up	iP		18	29	24	
		i(pP)		18	29	36	
				μ	s		
		P	z′	0.1	1.0		
		M	E	0.9	17		
		M	N	0.8	17		

1956							
Sep 22 (cont.)		M	z	1.1	16		
	Ki	iP		18	28	36	
		i(pP)		18	28	49	
				μ	s		
		P	z′	0.1	1.0		
		M	E	1.4	17		
		M	N	0.7	18		
		M	z	1.4	18		
	Sk	iP		18	29	12 D	
		i(pP)		18	29	25	
	Kurile Islands.						
» 22	Up	e(P)		23	19	19	
» 23	Up	iPg		02	09	12	
		iSg		02	09	16	
				μ	s		
		Sg	z′	0.2	0.8		
	Rock-burst in the Dannemora mines, situated about 40 km NNE of Uppsala.						
» 23	Up	iP		02	54	13	
» 23	Up	iP		03	13	13	
		i(pP)		03	13	26	
	Ki	iP		03	12	26	
				μ	s		
		P	z′	0.1	1.0		
	Sk	iP		03	13	02 D	
	Kurile Islands.						
» 23	Up	iP		10	54	17	
» 23	Up	iP		15	51	39	
	Sk	iP		15	51	27	
» 24	Sk	e(P)		00	31	30	
» 24	Up	eL		07	06		
				μ	s		
		M	N	1.0	22		
		M	z	2.2	25		
	Ki	eL		07	01		
				μ	s		
		M	E	1.3	20		
		M	N	0.8	20		
	Samoa Islands.						
» 24	Up			—			
				μ	s		
		M	N	1.1	21		
		M	z	1.7	20		
	Ki	iPKP		07	21	25	
				μ	s		
		M	E	1.1	20		
		M	N	1.2	24		
	Sk	iPKP		07	21	40	
	Fiji Islands region.						
» 24	Up	iP		10	28	33	

1956							
Sep 24 (cont.)		iPP		10	30	10	
		iS		10	34	55	
		i		10	37	31	
		eSS		10	38	09	
				μ	s		
		P	E	0.2	2		
		P	z	0.6	3		
		P	z′	0.4	1.4		
		PP	E	1.1	4		
		PP	N	0.4	4		
		PP	z	0.9	4		
		PP	z′	0.4	1.2		
		S	E	0.4	4		
		S	N	0.6	5		
		M	E	11	20		
		M	N	9.1	11		
		M	z	13	19		
	△ = 4750 km = 43°.						
	Ki	iP		10	28	46	
		iPP		10	30	28	
		i		10	31	26	
		iSS		10	38	26	
		eLg1		10	43	58	
		eLg2		10	44	52	
				μ	s		
		P	z′	0.2	1.5		
		PP	z′	0.3	1.5		
		M	E	9.7	10		
		M	N	6.8	11		
	△ = 4950 km = 44½°.						
	Sk	iP		10	29	01	
		i		10	29	33	
		iPP		10	30	56	
	Afghanistan.						
	Magn. = 6.2 (Up, Ki).						
» 24	Sk	iP		14	47	32	
» 24	Up	iP		18	02	47	
» 25	Up	iPKP		02	20	39	
	Kermadec Islands region.						
» 25	Up	eP		16	33	07	
	Sk	iP		16	33	38	
	Pakistan-Afghanistan border.						
» 25	Up	iP		18	40	17	
	Sk	iP		18	40	02	
	Costa Rica-Panama.						
» 25	Up	iP		20	50	50	
	Sk	iP		20	51	32	
	Yugoslavia.						
» 26	Up	eP		00	34	18	
» 26	Up	eP		02	29	28	
» 26	Up	iP		05	16	09	
				μ	s		
		P	z′	0.1	1.5		

1956							
Sep 26 (cont.)	Ki	eP		05	15	33	
				μ	s		
		M	E	1.7	19		
		M	N	1.0	15		
	Sk	iP		05	16	05	
	Off south coast of Honshu, Japan.						
» 26	Up	iP		13	11	17 D	
	Ki	eP		13	11	48	
	Sk	iP		13	11	51	
» 26	Up	iP		13	57	36C	
		ipP		13	58	08	
				μ	s		
		P	z′	0.4	0.8		
	Ki	iP		13	56	42	
				μ	s		
		P	z′	0.1	0.8		
	Sk	iP		13	57	16	
	Aleutian Islands.						
	h = 130 km (Up).						
» 27	Ki	e(Sg)		14	11	13	
	Sk	e(Sg)		14	12	23	
	Local?						
» 27	Ki	e(Sg)		14	18	03	
	Sk	i(Sg)		14	18	32	
	Local?						
» 27	Ki	eP		15	38	35	
	Sk	iP		15	37	42	
» 27	Up	iP		19	25	56	
» 27	Up	iP		19	33	30 D	
» 27	Up	e(P)		23	01	30	
» 28	Up	i(P)		04	57	43	
	Ki	iP		04	57	27	
» 28	Ki	eP		05	03	56	
	Sk	iP		05	04	29	
» 28	Ki	iP		06	47	31	
» 28	Ki	iP		12	34	55	
» 28	Up	eP		15	05	48	
				μ	s		
		P	z′	0.1	1.3		
	Ki	iP		15	04	12C	
		i!		15	04	18	
				μ	s		
		P	z′	0.2	1.4		
		M	E	0.8	14		
		M	N	0.5	15		
		M	z	1.2	14		
	Sk	iP		15	05	03	
		i!		15	05	08	

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1956 Sep 28 (cont.)		i			15	05	30
	Off west coast of Spitsbergen.						
» 28	Ki	e(P)			17	16	15
» 29	Ki	eP			04	08	18
	Northern Celebes.						
	Deep (h ~ 300 km).						
» 29	Sk	iP			07	16	26
» 29	Up	iP			09	15	34
		i!			09	15	42
					μ	s	
		P	z′		0.1	1.0	
		i!	z′		0.5	1.2	
		M	E		3.7	19	
		M	N		3.8	21	
		M	Z		5.5	21	
	Ki	iP			09	15	34
		i!			09	15	42
		iS			09	25	30
					μ	s	
		P	z′		0.1	1.0	
		i!	z′		0.4	1.5	
		S	N		1.4	7	
		M	E		5.3	19	
		M	N		5.5	22	
		M	Z		6.7	18	
	Sk	eP			09	15	47
		i!			09	15	57
	Nicobar Islands.						
	Magn. = 6.3 (Up, Ki).						
» 29	Up	iP			15	34	59
	Ki	iP			15	34	59
» 29	Up	iP			21	32	14
					μ	s	
		P	z′		0.3	1.0	
		M	N		2.3	17	
	Ki	iP			21	31	33
					μ	s	
		P	z′		0.2	0.9	
		M	E		3.4	20	
		M	N		2.2	15	
		M	Z		3.8	16	
	Sk	iP			21	32	07
	Honshu, Japan.						
	Magn. = 6.2 (Up, Ki).						
» 29	Ki	iP			22	36	02
	Off north coast of Halmahera.						
» 29	Up	iPn			23	03	47
		e			23	05	47
		iSg			23	06	38
					μ	s	
		Sg	z′		0.2	1.2	
		△ = 1060 km = 9.5°.					
	Ki	iPn			23	02	16

1956 Sep 29 (cont.)		iPg			23	02	23
		i			23	02	35
		iSg			23	03	07
		i			23	03	21
					μ	s	
		Pn	z′		0.1	0.5	
		Pg	z′		0.2	1.0	
		Sg	z′		0.5	1.0	
		M	N		1.5	10	
		M	Z		2.8	9	
		△ = 340 km = 3.1°.					
	Sk	iPn			23	02	51
	△ = 620 km = 5.6°.						
	Off coast of northern Norway, 69.3°N, 13.1°E.						
	Origin time = 23 01 25.						
» 29	Up	iP			23	32	22C
		iPP			23	35	06
					μ	s	
		P	N		0.4	1.0	
		P	Z		2.0	1.0	
		P	z′		2.2	1.2	
		PP	z′		0.3	1.3	
		△ = 8050 km = 72½°.					
	Ki	iP			23	31	44C
		i			23	31	53
		iPP			23	34	09
					μ	s	
		P	z′		0.9	1.0	
		PP	z′		0.3	1.2	
		M	E		3.4	18	
		M	N		1.9	23	
		M	Z		2.7	20	
		△ ~ 7350 km ~ 66°.					
	Sk	iP			23	32	17C
		i			23	32	26
	Honshu, Japan.						
	Deeper than normal.						
	Magn. = 7.0 (Up, Ki).						
» 30	Up	iP			04	47	57
» 30	Up	iP			10	21	15
	Off south coast of Hokkaido, Japan.						
» 30	Sk	i(P)			13	53	23
» 30	Sk	i(P)			14	09	35
» 30	Up	iP			14	55	01C
	Ki	iP			14	54	34
	Sk	iP			14	54	59
	Marianas Islands.						
	Intermediate depth (h ~ 100 km).						
Oct 1	Up	i(P)			00	12	56
» 1	Up	iP			11	57	55
» 1	Up	iP			18	16	35

1956 Oct 1 (cont.)		P	z′		μ 0.1	s 0.7	
	Ki	iP			18	16	31
		P	z′		μ 0.1	s 1.2	
	Sk	iP			18	16	17
	Jamaica.						
» 2	Ki	e(P)			02	26	28
		i(Sg)			02	27	24
	Local?						
» 2	Ki	eP			13	03	13
» 2	Up	iP			15	06	51C
		i			15	06	59
		ipP			15	07	09
		iS			15	15	18
					μ	s	
		P	N		0.3	2	
		P	Z		1.1	3	
		P	z′		0.9	1.5	
		S	N		0.5	5	
		M	E		4.1	25	
		M	N		2.8	25	
		M	Z		3.5	22	
		△ = 7100 km = 64°.					
	Ki	iP			15	05	58
		iPcP			15	06	57
		iS			15	13	36
					μ	s	
		P	z′		0.1	1.0	
		M	E		3.2	22	
		M	N		2.9	24	
		M	Z		2.6	22	
		△ = 6200 km = 56°.					
	Sk	iP			15	06	36C
		iPcP			15	07	01
		△ = 6900 km = 62°.					
	Near southeast coast of Kamchatka.						
	h ~ 70 km (Up).						
	Magn. = 6.3 (Up, Ki).						
» 3	Up	iPKP			08	37	05
		i			08	38	15
	Northern Chile.						
	Intermediate depth (h ~ 150 km).						
» 3	Ki	iPKP			15	12	20
	Off south coast of South Island, New Zealand.						
» 3	Up	iPKP			21	39	07
	Sk	iPKP			21	38	39
		i			21	39	12
	South of Fiji Islands.						
» 3	Up	iP			23	50	07
	Ki	iP			23	49	31
	Sea of Japan.						
	Deep (h ~ 500 km).						
» 4	Up	eP			02	42	44

1956 Oct 4	Up	iP			02	55	49C
	Ki	iP			02	56	59
	Aegean Sea.						
» 4	Up	iSg			14	24	59
	Ki	e			14	27	01
		i(Sg)			14	27	48
	Sk	eSg			14	26	54
	The Gulf of Finland.						
	Origin time = 14 22 55.						
» 4	Up	iSg			14	32	46
	Ki	e(Sg)			14	35	29
	Sk	eSg			14	34	43
	The Gulf of Finland.						
	Origin time = 14 30 43.						
» 4	Up	eSn			14	40	56
		eSg			14	41	15
		△ = 420 km = 3.8°.					
	Ki	eSg			14	43	47
		△ = 930 km = 8.4°.					
	Sk	eSg			14	43	09
		△ = 800 km = 7.2°.					
	The Gulf of Finland, 59.7°N, 25.0°E.						
	Origin time = 14 39 09.						
» 4	Up	iP			17	28	16
	Ki	iP			17	28	41
	Sk	iP			17	27	57
	Near coast of Oaxaca, Mexico.						
» 4	Up	iP			20	14	49
	Off west coast of Luzon.						
» 5	Up	iSg			11	07	54
	Sk	iSg			11	09	50
	The Gulf of Finland.						
	Origin time = 11 05 50.						
» 5	Up	iP			18	30	35
» 5	Up	iPKP			22	02	16D
	Ki	iPKP			22	02	01
					μ	s	
		PKP	z′		0.1	0.9	
	Sk	iPKP			22	02	13D
	New Hebrides Islands.						
	Intermediate depth (h ~ 100 km).						
» 5	Ki	i(P)			23	56	57
» 6	Ki	iP			06	29	17
					μ	s	
		P	z′		0.1	1.1	
	Molucca Passage.						
» 6	Up				—		
					μ	s	
		M	N		1.5	17	
		M	Z		1.4	17	

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1956							
Oct 6	Ki	iP		07	30	59	
(cont.)		i		07	31	22	
		iT		07	36	23	
		i		07	36	55	
				μ		s	
		M	E	1.7		19	
		M	N	1.2		18	
		M	Z	3.4		18	
	Sk	iP		07	31	33	
		i		07	31	41	
		iS		07	33	21	
		△ = 1050 km = 9½°.					
		Arctic Ocean.					
» 6	Up	iP		15	33	30	
	Ki	iP		15	32	37	
		Near east coast of Kamchatka.					
» 7	Up	iP		01	45	53	
	Ki	eP		01	45	19	
		Sea of Japan.					
» 7	Up	iPKP		19	53	33	
				μ		s	
		PKP	Z′	0.1		1.0	
		Fiji Islands region.					
		Intermediate depth (h ~ 200 km).					
» 7	Up	—					
				μ		s	
		M	E	1.3		24	
		M	N	1.1		21	
		M	Z	1.6		22	
	Ki	ePKP		21	46	35	
	Sk	iPKP		21	46	48	
		New Hebrides Islands.					
		Intermediate depth (h ~ 100 km).					
» 8	Ki	iP		04	42	09	
				μ		s	
		P	Z′	0.1		1.1	
	Sk	iP		04	42	36	
		Marianas Islands region.					
» 8	Ki	iP		05	08	02	
» 8	Up	eL		16	10		
				μ		s	
		M	N	1.6		20	
		M	Z	1.7		20	
	Ki	eL		16	06		
				μ		s	
		M	E	2.0		23	
		M	N	1.4		20	
		M	Z	3.7		22	
		Tonga Islands.					
» 9	Ki	eP		17	03	49	
	Sk	iP		17	04	23	
		Marianas Islands.					

1956							
Oct 9	Up	i(P)		23	57	40	
» 10	Up	e(Sg)		00	44	54	
		Local?					
» 10	Up	i(P)		01	16	56	
	Sk	iP		01	16	49	
» 10	Sk	i(P)		10	02	46	
» 10	Up	iP		15	40	41 D	
		i		15	40	47	
				μ		s	
		P	Z′	0.4		1.0	
		M	E	2.2		17	
		M	N	1.6		18	
	Ki	iP		15	40	49 D	
		i		15	40	54	
				μ		s	
		P	Z′	0.3		0.9	
	Sk	iP		15	41	05 D	
		i		15	41	10	
		Northern India.					
		Magn. = 6.4 (Up, Ki).					
» 10	Ki	e(Sg)		16	24	09	
		Local?					
» 10	Up	i(P)		19	17	35	
» 10	Up	eP		22	20	13	
» 10	Ki	e(Sg)		23	12	01	
		Local?					
» 11	Up	iP		00	19	51	
» 11	Up	iP		02	35	23 C	
		ipP		02	35	52	
		i		02	36	33	
		i		02	40	08	
		iS		02	44	08	
		i(sS)		02	45	10	
		eP′P′		03	03	30	
		i		03	03	42	
		i		03	04	14	
				μ		s	
		P	E	5.4		6	
		P	N	8.9		6	
		P	Z	19		6	
		P	Z′	2.8		0.9	
		S	E	22		10	
		S	N	16		12	
		M	E	85		18	
		M	N	150		24	
		M	Z	130		23	
		△ = 7650 km = 69°.					
	Ki	iP		02	34	35 C	
		ipP		02	35	03	
		isP		02	35	18	
		iS		02	42	41	

1956							
Oct 11		i		02	43	17	
(cont.)		iScS		02	44	15	
		iSS		02	46	48	
		eP′P′		03	03	45	
		i		03	04	30	
				μ		s	
		P	E	10		7	
		P	N	14		7	
		P	Z	34		7	
		P	Z′	2.0		1.0	
		S	E	20		7	
		S	N	10		8	
		S	Z	20		12	
		M	E	120		16	
		M	N	140		23	
		M	Z	100		20	
		△ = 6800 km = 61½°.					
	Sk	iP		02	35	11 C	
		ipP		02	35	38	
		i		02	37	14	
		Kurile Islands. h = 110 km (Up, Ki, Sk).					
		Magn. = 7.3 (Up, Ki).					
» 11	Up	iP		02	55	10	
	Sk	iP		02	55	06	
		(Kurile Islands).					
» 11	Up	iP		03	12	13	
	Sk	i(P)		03	10	36	
» 11	Up	iP		05	24	18	
» 11	Up	e(P)		05	48	49	
» 11	Up	iP		17	00	36	
		iS		17	10	12	
		i		17	10	19	
				μ		s	
		P	Z′	0.6		1.2	
		S	E	1.8		7	
		S	N	2.1		6	
		M	E	11		24	
		M	N	15		22	
		M	Z	18		23	
		△ = 8400 km = 75½°.					
	Ki	iP		16	59	55	
		i		17	00	46	
		iS		17	09	05	
		eP′P′		17	28	12	
		i		17	30	49	
				μ		s	
		P	Z	2.3		5	
		P	Z′	0.5		1.6	
		S	E	3.8		8	
		S	N	4.4		14	
		M	E	12		17	
		M	N	7.0		16	
		M	Z	17		17	
		△ = 7800 km = 70°.					

1956							
Oct 11	Sk	iP		17	00	06	
(cont.)		Off Cape Mendocino, California.					
		Magn. = 6.6 (Up, Ki).					
» 11	Up	iP		20	00	58	
» 11	Up	iPKP		21	15	43	
				μ		s	
		PKP	Z′	0.1		0.6	
	Ki	iPKP		21	15	15	
	Sk	iPKP		21	15	44	
		South Pacific Ocean.					
» 12	Sk	e(P)		00	55	29	
» 12	Up	eL		03	17		
				μ		s	
		M	E	2.7		25	
		M	N	1.7		19	
		M	Z	5.7		23	
	Ki	eL		03	22		
				μ		s	
		M	E	2.7		19	
		M	N	1.4		22	
		Near coast of Peru.					
» 12	Up	iP		12	33	54 C	
		i		12	34	06	
				μ		s	
		P	Z′	0.4		0.9	
		M	E	5.3		17	
		M	N	4.8		18	
		M	Z	8.1		18	
	Ki	iP		12	33	10 C	
		i		12	33	23	
				μ		s	
		P	Z′	0.3		1.0	
		M	E	5.2		22	
		M	N	3.6		19	
		M	Z	6.0		17	
	Sk	iP		12	33	45	
		Near southeast coast of Hokkaido, Japan.					
		Deeper than normal.					
		Magn. = 6.4 (Up, Ki).					
» 12	Up	iP		13	33	00 D	
	Ki	eP		13	32	16	
		Near southeast coast of Hokkaido, Japan.					
» 13	Ki	eP		04	59	03	
		Off north coast of South America.					
» 13	Ki	eP		05	16	58	
				μ		s	
		P	Z′	0.6		1.1	
		Western Venezuela.					
» 13	Up	iP		08	28	50 D	
		i(pP)		08	29	20	

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1956							
Oct 13		iPP		08	30	27	
(cont.)				μ	s		
		P	z′	0.1	1.0		
		PP	z′	0.2	1.1		
	Ki	iP		08	28	58	D
		iPP		08	30	33	
				μ	s		
		P	z′	0.2	0.8		
		PP	z′	0.2	1.1		
	Sk	iP		08	29	15	D
	Afghanistan.						
	Magn. = 6.1 (Up, Ki).						
» 13	Ki	iP		15	22	21	
	Kurile Islands.						
» 13	Up	eL		19	52		
				μ	s		
		M	E	2.5	23		
		M	z	3.5	22		
	New Britain.						
» 14	Up	iP		00	42	22	C
	Honshu, Japan.						
» 14	Ki	iP		10	55	22	
	Marianas Islands.						
	Deep (h ~ 400 km).						
» 14	Ki	i(PP)		11	23	28	
» 14	Up	iP		21	16	58	
	Ki	iP		21	16	19	C
				μ	s		
		M	E	1.1	18		
		M	N	0.6	19		
		M	z	1.1	19		
	Off east coast of Honshu, Japan.						
» 15	Ki	iPKP		04	08	26	
				μ	s		
		PKP	z′	0.1	1.3		
	Sk	iPKP		04	08	39	
		i		04	08	54	
	New Zealand.						
» 15	Ki			—			
				μ	s		
		M	E	0.8	13		
		M	N	0.3	14		
		M	z	0.4	17		
	Sk	iP		07	40	28	C
	Aegean Sea.						
» 15	Up	iP		07	58	38	
		i(S)		08	09	33	
				μ	s		
		P	z′	0.1	1.0		
		M	E	1.3	20		
		M	N	1.1	20		
		M	z	1.4	20		

1956							
Oct 15	Ki	iP		07	58	19	
(cont.)		i		07	58	32	
		i!		08	08	54	
				μ	s		
		P	z′	0.1	1.0		
		M	E	1.1	20		
		M	N	1.1	23		
		M	z	0.9	19		
	Sk	iP		07	58	41	D
	Near east coast of Samar, Philippine Islands.						
	Intermediate depth (h ~ 200 km).						
	Magn. = 5.8 (Up, Ki).						
» 15	Up	iP		11	33	37	
	Ki	iP		11	33	37	D
	Sk	iP		11	33	53	D
» 15	Up	iP		23	14	50	
		i		23	16	37	
	Ki	iP		23	14	59	
		eLg2		23	29	15	
		eRg		23	32	03	
	Sk	iP		23	15	16	
	Tadzhik, USSR.						
» 15	Up	iPKP		23	35	55	
	Ki	iPKP		23	35	36	
				μ	s		
		PKP	z′	0.1	1.0		
	Sk	iPKP		23	35	51	C
	New Zealand area.						
» 16	Up	iP		03	13	10	
	Philippine Islands.						
» 16	Up	iP		04	49	57	
» 16	Up	e(Sg)		09	50	39	
	Local?						
» 16	Ki	i(Sg)		13	38	21	
	Local?						
» 16	Up	iP		16	30	21	
» 16	Ki	e(Sg)		16	57	49	
	Local?						
» 16	Up	iP		17	39	58	D
	Near east coast of Honshu, Japan.						
» 16	Ki	i(P)		19	56	20	
» 17	Up	iP		01	12	10	
	Ki	iP		01	12	10	
» 17	Up	iP		01	22	13	
		isP		01	23	20	
	Ki	iP		01	22	23	
	Afghanistan.						
	Intermediate depth (h ~ 200 km).						

1956							
Oct 17	Up	e(P)		02	41	44	
» 17	Up	iP		03	38	32	
» 17	Up	e(P)		03	42	32	
» 17	Up	e(Sg)		08	45	11	
	Local?						
» 17	Up	e(Sg)		12	34	24	
	Local?						
» 17	Ki	eL		20	25		
				μ	s		
		M	N	0.8	14		
» 17	Up	eP		22	59	47	
» 18	Up	iP		03	40	28	
	Ki	iP		03	40	12	
	Near north coast of Mindanao.						
» 18	Ki	e(Sg)		10	57	11	
	Local?						
» 18	Up	i(PKP)		17	44	25	
» 18	Up	e(Sg)		18	20	11	
	Local?						
» 18	Up	i(PKP)		18	24	10	
» 19	Up	eP		03	35	53	
		i		03	36	44	
» 19	Up	eP		05	44	06	
» 19	Ki	i(P)		10	57	52	
		i		11	00	36	
» 19	Up	iPKP		12	18	50	D
		iSKP		12	21	36	
		i		12	21	57	
				μ	s		
		PKP	z′	0.2	1.0		
		SKP	z′	0.2	1.3		
	Ki	iPKP		12	18	31	
		i		12	18	42	
		iSKP		12	21	13	
				μ	s		
		PKP	z′	0.2	1.4		
		SKP	z′	0.6	1.3		
	Fiji Islands.						
	Deep (h ~ 650 km).						
» 19	Up	iP		14	09	28	
» 19	Up	eL		15	23		
				μ	s		
		M	E	6.0	19		
		M	N	4.9	21		

1956							
Oct 19		M	z	7.3	19		
(cont.)	Ki	eL		15	22		
				μ	s		
		M	E	3.8	20		
		M	N	3.6	19		
		M	z	5.8	18		
	South Pacific Ocean.						
» 19	Ki	e(P)		20	53	04	
» 19	Up	iP		20	58	27	
		i		20	59	22	
		iS		21	07	00	
				μ	s		
		P	z′	0.7	1.2		
		S	E	3.9	6		
		S	N	2.6	6		
		M	E	11	17		
		M	N	14	20		
		M	z	19	21		
	△ = 7500 km = 67°.						
	Ki	iP		20	57	34	
		iS		21	05	34	
		iSS		21	09	38	
				μ	s		
		P	z′	0.3	1.2		
		S	E	8.1	11		
		S	N	2.4	9		
		M	E	20	17		
		M	N	7.6	16		
		M	z	25	17		
	△ = 6600 km = 59°.						
	Aleutian Islands.						
	Magn. = 6.6 (Up, Ki).						
» 19	Up	iP		21	38	44	
	Ki	iP		21	37	50	
	Aleutian Islands.						
» 20	Up	iP		03	42	30	
				μ	s		
		P	z′	0.1	1.0		
	Ki	iP		03	41	37	C
				μ	s		
		P	z′	0.1	1.0		
	Aleutian Islands.						
» 20	Up	iP		04	36	43	
» 20	Up	iPKP		06	51	10	D
		i		06	51	22	
	Kermadec Islands region.						
» 21	Up	i(P)		13	12	02	
» 21	Ki	iP		22	53	01	
» 22	Ki	e(Sg)		04	33	01	
	Local?						
» 22	Ki	eP		07	36	19	
	Aleutian Islands.						

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1956
Oct 22 Up iP 07 42 24
» 22 Up i 12 54 22
μ s
M E 3.1 26
M N 4.2 23
M Z 3.5 20
Ki —
μ s
M E 6.9 22
M N 2.8 20
M Z 6.1 20
Near southeast coast of New Guinea.

» 23 Up iP 08 51 25
μ s
P Z' 0.1 0.8

» 23 Up iP 08 53 49
i 08 54 06
ipP 08 54 14
iS 09 04 13
ipS 09 04 36
i 09 05 36
μ s
P Z' 0.3 0.8
S N 1.2 9
M E 6.6 20
M N 5.2 25
M Z 7.0 20
Ki iP 08 53 31
ipP 08 53 53
iPP 08 56 51
iS 09 03 37
μ s
P Z' 0.2 0.9
PP Z' 0.9 2.5
S N 1.6 12
M E 9.2 22
M N 6.2 21
M Z 11 20
△ = 9300 km = 83½°.
Mindoro Island, Philippine Islands.
h = 90 km (Up, Ki).
Magn. = 6.2 (Up, Ki).

» 23 Up iP 10 44 03
Ki iP 10 43 39
Off southeast coast of Formosa.

» 23 Up e(Pg) 11 47 29
eSg 11 48 18
Local.

» 24 Up i(P) 01 16 34
Ki iP 01 16 06
Marianas Islands region.

» 24 Ki iP 01 27 00

» 24 Up e(P) 05 53 18

1956
Oct 24 Up iP 09 55 38 C
μ s
P Z' 0.1 0.7

» 24 Up iP 13 12 06
μ s
P Z' 0.1 0.9

» 24 Up iP 14 54 56
i 14 55 11
iPP 14 58 23
eSKS 15 05 29
eS 15 05 39
μ s
P Z' 0.1 1.2
PP E 1.3 6
PP Z 4.1 8
PP Z' 0.3 1.4
M E 89 23
M N 32 18
M Z 130 24
△ = 9650 km = 87°.
Ki iP 14 54 49
i1 14 55 00
i2 14 55 24
iPP 14 58 11
eS 15 05 16
μ s
P E 1.6 7
P Z 3.6 8
P Z' 0.1 0.9
i1 Z' 0.4 1.7
i2 Z' 1.0 2.2
PP Z 2.7 7
S E 5.3 10
M E 130 19
M N 52 18
M Z 140 19
△ = 9500 km = 85½°.
Near coast of Nicaragua.
Magn. = 7.1 (Up, Ki).

» 25 Up —
μ s
M E 6.8 24
M N 2.6 18
M Z 9.5 24
Ki eP 05 34 09
μ s
M E 9.3 18
M N 4.8 17
M Z 11 18
Near coast of Nicaragua.
Magn. = 6.3 (Up, Ki).

» 25 Up i(P) 09 26 43
μ s
(P) Z' 0.1 0.9

» 25 Up iP 12 31 48
μ s
P Z' 0.1 0.8

1956
Oct 26 Up i(P) 04 45 34

» 26 Up iP 09 08 45
Ki iP 09 08 29
Banda Sea. Intermediate depth (h ~ 200 km).

» 26 Up iPKP 23 09 31
iPKS 23 12 53
ePPS 23 23 27
μ s
PKP Z' 0.1 1.0
M E 7.2 21
M N 12 22
M Z 20 22
△ ~ 14350 km ~ 129°.
Ki iPKP 23 09 17
i 23 09 21
μ s
PKP Z' 0.2 1.0
M E 11 25
M N 4.7 21
M Z 13 20
△ ~ 13550 km ~ 122°.
New Hebrides Islands.
Magn. = 6.5 (Up, Ki).

» 27 Up iP 00 54 38 D
μ s
P Z' 0.1 1.0
Ki iP 00 54 16
Kansu Province, China.

» 27 Up i(P) 05 45 21

» 27 Ki iP 23 12 44
e 23 17 49
e 23 18 05

» 28 Up iPKP 03 14 17
Fiji Islands.
Deep (h ~ 400 km).

» 28 Up iPKP 03 48 26
i 03 48 32
iPP 03 52 16
i 04 02 51
iPPS 04 05 24
μ s
PKP Z' 1.0 1.0
PP Z 1.5 4
M E 11 24
M N 21 25
M Z 29 24
Ki iPKP 03 48 10
i 03 49 08
i 03 53 08
μ s
PKP Z' 1.1 2.0
M E 18 24
M N 11 22

1956
Oct. 28 M Z 17 22
(cont.) Kermadec Islands.
Magn. = 6.8 (Up, Ki).

» 28 Up iPKP 05 42 52 D
iPKP2 05 43 13
Kermadec Islands region.

» 28 Ki e(P) 06 22 51

» 28 Up iP 10 57 46
i 10 58 25
iPP 11 00 54
μ s
P Z' 0.9 1.5
M E 3.5 18
M N 9.5 21
Ki iP 10 57 29
i 10 57 34
e 11 08 20
μ s
P Z' 0.5 1.4
M E 8.3 21
M N 9.0 22
M Z 14 21
Luzon, Philippine Islands.
Magn. = 6.4 (Up, Ki).

» 28 Up eP 13 40 13
Luzon, Philippine Islands.

» 28 Up i(P) 18 56 19

» 29 Up e(P) 07 40 33
μ s
M E 2.8 18
Ki eP 07 41 26
μ s
M E 3.8 16
M N 2.4 14
M Z 3.0 13
Dodecanese Islands.

» 29 Ki eP 13 52 08
Near north coast of Iceland.

» 29 Ki iP 16 24 39
μ s
M E 1.4 12
M N 1.9 14
M Z 2.2 17
Near north coast of Iceland.

» 29 Ki i(P) 21 31 55

» 29 Up iPKP 22 52 48
i 22 56 49
Ki ePKP 22 52 31
i 22 55 43
Tonga Islands region.
Intermediate depth (h ~ 200 km).

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1956							
Oct 30	Up				—		
					μ	s	
		M	E		1.8	14	
		M	N		2.1	17	
		M	Z		1.7	16	
	Ki	iP			00 14	33	
		i			00 14	42	
		iS			00 17	14	
					μ	s	
		P	Z′		0.2	1.0	
		M	E		1.8	12	
		M	N		2.2	13	
		M	Z		4.3	18	
		△=1650 km=15°.					
		Near north coast of Iceland.					
» 30	Up	iP			00 54	35	
	Ki	iP			00 54	12	
		Off north coast of Panay, Philippine Islands.					
» 30	Ki	i			03 13	45	
		Seismic?					
» 30	Up	i			03 18	22	
		i(Sg)			03 18	59	
		Local?					
» 30	Up	i(P)			10 06	57	
» 30	Ki	i(P)			22 57	05	
» 31	Ki	iP			01 09	08	
» 31	Up	iP			14 11	30 D	
		iPP			14 13	11	
		iS			14 17	37	
					μ	s	
		P	Z′		0.7	1.3	
		PP	E		4.3	12	
		PP	Z		4.1	10	
		S	E		8.6	12	
		S	N		11	11	
		M	E		23	15	
		M	N		31	14	
		M	Z		22	12	
		△=4550 km=41°.					
	Ki	iP			14 12	05	
		iPP			14 13	53	
		iS			14 18	47	
		i(SS)			14 21	59	
		i			14 22	26	
					μ	s	
		P	Z′		0.8	1.0	
		PP	E		2.2	6	
		PP	N		1.9	6	
		PP	Z′		1.3	1.5	
		S	E		5.5	6	
		S	N		9.5	13	
		M	E		75	15	
		M	N		33	14	

1956							
Oct 31		M	Z		53	13	
(cont.)		△=5050 km=45½°.					
		Southern Iran.					
		Magn.=6.7 (Up, Ki).					
» 31	Up	iP			14 30	09	
		i			14 32	05	
		iS			14 36	22	
					μ	s	
		P	Z′		0.3	1.0	
		△=4600 km=41½°.					
	Ki	iP			14 30	43 C	
					μ	s	
		P	Z′		0.4	1.0	
		Southern Iran.					
» 31	Ki	eP			17 40	50	
» 31	Up	iP			22 31	40	
					μ	s	
		P	Z′		0.1	0.7	
	Ki	iP			22 31	38	
					μ	s	
		P	Z′		0.1	1.0	
		Northeastern India.					
» 31	Up	iP			23 40	36	
	Ki	eP			23 41	07	
		Southern Iran.					
Nov 1	Up	iP			06 00	21	
					μ	s	
		P	Z′		0.2	0.9	
	Ki	iP			06 00	54	
		i			06 01	13	
					μ	s	
		P	Z′		0.2	1.0	
		Southern Iran.					
» 1	Ki	i(P)			07 19	18	
		Seismic?					
» 1	Up	iP			10 49	38	
» 1	Ki	e(P)			14 35	37	
» 1	Ki	iP			16 22	27	
» 1	Ki	i(P)			17 36	04	
» 1	Ki	eP			17 40	33	
		Kamchatka.					
» 1	Up	e(Sg)			22 43	25	
		Local?					
» 2	Up	e(Sg)			00 47	48	
		Local?					
» 2	Up	e(Pg)			01 07	25	
		e(Sg)			01 07	45	
		Local?					

1956							
Nov 2	Up	i(P)			14 19	18	
» 2	Up	iP			16 09	16 D	
		i			16 09	21	
		iS			16 13	12	
					μ	s	
		P	N		0.6	3	
		P	Z		0.8	3	
		P	Z′		0.3	0.6	
		S	N		0.7	4	
		M	E		6.6	17	
		M	N		2.5	9	
		M	Z		2.7	9	
		△=2350 km=21°.					
	Ki	iP			16 10	31	
		iPP			16 11	09	
					μ	s	
		P	Z′		0.1	1.3	
		M	E		3.8	12	
		M	N		2.3	12	
		M	Z		3.6	12	
		Greece. Magn.=5.9 (Up, Ki).					
» 3	Up	iP			02 32	20	
» 3	Up	iP			05 35	55 C	
	Ki	iP			05 35	01	
					μ	s	
		P	Z′		0.1	0.8	
		Southern Yukon, Canada.					
» 3	Up	iP			10 14	41	
		i			10 15	33	
					μ	s	
		P	Z′		0.2	1.1	
	Ki	iP			10 13	48	
					μ	s	
		P	Z′		0.2	1.0	
		Near south coast of Kamchatka.					
» 3	Up	iPKP			18 20	38	
					μ	s	
		PKP	Z′		0.1	0.8	
	Ki	ePKP			18 20	12	
		iSKP			18 23	12	
		South of Fiji Islands.					
		Deep (h ~ 500 km).					
» 4	Up	iP			00 50	13	
» 4	Up	iP			01 27	21	
		iPP			01 27	35	
	Ki	eP			01 28	50	
		i			01 34	36	
		Rumania. Intermediate depth (h ~ 125 km).					
» 4	Up	iP			05 48	44 C	
		i			05 49	00	
					μ	s	
		P	Z′		0.1	0.6	

1956							
Nov 4	Ki	iP			05 48	08	
(cont.)					μ	s	
		P	Z′		0.1	0.6	
		Near east coast of Honshu, Japan.					
» 4	Up	iPKP			07 25	05	
		i			07 25	41	
					μ	s	
		PKP	Z′		0.1	0.8	
		M	E		2.2	24	
		M	N		5.5	23	
		M	Z		7.3	23	
	Ki	iPKP			07 24	47	
		i			07 25	16	
		iPKS			07 28	31	
					μ	s	
		PKS	Z′		1.6	2.5	
		Tonga Islands.					
		Magn.=6.4 (Up).					
» 4	Up	iP			21 50	49 D	
	Ki	iP			21 49	57 D	
					μ	s	
		P	Z′		0.1	1.0	
		Yukon, Canada.					
» 4	Ki	iP			22 30	29	
» 5	Up	i(P)			12 59	05	
	Ki	iP			12 58	33	
» 5	Up	i(P)			18 26	23 C	
		iSg			18 26	54	
		Local.					
» 5	Ki	eP			19 50	16	
		The Alps, in the Italy-Austria border region.					
» 6	Ki	iP			14 26	39	
					μ	s	
		P	Z′		0.1	1.5	
		Banda Sea.					
» 6	Ki	iP			19 02	50	
» 6	Up	iP			23 25	22	
		Aleutian Islands.					
» 7	Ki	i(P)			05 56	51	
» 7	Up	i(Sg)			12 24	29	
					μ	s	
		(Sg)	Z′		0.2	0.5	
		Local?					
» 7	Up	i(Sg)			13 43	32	
					μ	s	
		(Sg)	Z′		0.1	0.5	
		Local?					

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1956
Nov 7 Up iP 16 42 55C
μ s
P z′ 0.1 0.6
Ki eP 16 42 43
i 16 42 47
μ s
P z′ 0.1 0.6
Sk iP 16 43 09

» 7 Up iP 17 14 56D
Ki iP 17 15 31
Sk iP 17 15 32
Northeastern Iran.

» 7 Ki i(P) 19 48 33C
μ s
(P) z′ 0.1 1.0

» 8 Up iPKP 04 04 19C
Ki iPKP 04 04 09
Sk ePKP 04 04 13
Fiji Islands region.
Deep (h ~ 550 km).

» 8 Ki iP 07 37 38

» 8 Up i(Sg) 10 18 46
μ s
(Sg) z′ 0.2 0.5
Local?

» 8 Up i(Sg) 11 52 22
μ s
(Sg) z′ 0.1 0.5
Local?

» 8 Ki i(P) 15 03 34

» 8 Up i 16 11 30
i 16 25 24
μ s
M E 1.3 20
M N 3.2 22
Ki iP 15 57 42
μ s
M E 1.6 18
M N 2.4 22
Mindanao, Philippine Islands.

» 8 Up i(PKP) 17 24 47
Sk e(PKP) 17 24 52
South Pacific Ocean.

» 8 Up iP 23 02 40

» 9 Up iP 06 09 38
Ki iP 06 10 04
μ s
P z′ 0.2 1.0
Sk iP 06 09 27
North Atlantic Ocean.

1956
Nov 9 Ki i(P) 11 08 06

» 9 Up iP 13 18 38D
ipP 13 19 16
iS 13 28 49
i 13 29 03
isS 13 29 46
μ s
P z 5.2 5
P z′ 0.3 0.5
S E 7.4 9
S N 4.4 10
M E 6.5 22
M N 6.7 23
M z 9.6 21
△ = 9450 km = 85°.
Ki iP 13 18 25
ipP 13 19 05
isP 13 19 28
iS 13 28 34
isS 13 29 23
μ s
P z′ 2.7 1.5
S E 28 12
S N 10 10
M E 14 24
M N 11 26
M z 3.2 17
△ = 9350 km = 84°.
Sk iP 13 18 19
ipP 13 18 55
isP 13 19 19
i(PP) 13 22 01
Southern Mexico.
h = 150 km (Up, Ki, Sk).
Magn. = 6.7 (Up, Ki).

» 9 Up iPKP 18 15 27
ipPKP 18 16 57
PKP z′ 0.1 0.6
Sk iPKP 18 15 20
Kermadec Islands. Deep.

» 9 Up i(P) 22 20 08

» 10 Up iP 00 27 43

» 10 Up iP 08 26 52
Ki iP 08 27 26
μ s
P z′ 0.1 0.9
Sk iP 08 27 27

» 10 Up i(Pg) 10 09 44
i(Sg) 10 10 29
Local.

» 10 Up iP 14 52 21C
i 14 52 40
μ s
P z′ 0.2 0.5

1956
Nov 10 (cont.) M E 3.1 17
M N 3.6 20
M z 3.1 18
Ki iP 14 52 03C
i 14 52 27
μ s
P z′ 0.5 1.4
M E 2.1 19
M N 5.8 22
M z 3.4 21
Sk iP 14 52 26C
Luzon, Philippine Islands.
Magn. = 6.2 (Up, Ki).

» 10 Up iP 15 51 14
ipP 15 51 43
μ s
P z′ 0.1 0.5
Ki iP 15 51 07C
μ s
P z′ 0.2 1.0
Sk iP 15 51 29C
ipP 15 51 58
India-Burma border.
h = 120 km (Up, Sk).

» 11 Up iPKP 03 32 02
iSKP 03 34 35
Ki iPKP 03 31 45
iSKP 03 34 09
μ s
SKP z′ 0.2 1.3
Fiji Islands.
Deep (h ~ 650 km).

» 11 Up iP 04 48 16
Ki iP 04 48 50

» 11 Up iP 13 04 09
Ki iP 13 04 14
Pamir.

» 11 Up iP 13 09 48
iPP 13 11 19
Ki iP 13 09 51
Sk ePP 13 11 46
Pamir.

» 11 Up iP 16 10 50
Ki iP 16 09 56
Aleutian Islands.

» 11 Up iP 19 26 26C
iPcP 19 26 51
μ s
P z′ 0.2 0.5
M E 2.5 19
M N 1.8 20
M z 3.5 20
Ki iP 19 25 39

1956
Nov 11 (cont.) μ s
P z′ 0.1 0.6
M E 1.9 18
M N 0.8 16
M z 2.1 18
Sk iP 19 26 15
Kurile Islands.

» 12 Up i(P) 02 09 30

» 12 Up iP 07 28 07
Ki iP 07 27 13
Aleutian Islands.

» 12 Ki eP 08 46 46
Molucca Passage.

» 12 Ki iP 09 59 25
iS 10 00 38
eT 10 04 25
i 10 04 54
i 10 05 07
△ = 700 km = 6½°.
Sk iP 10 00 03
iS 10 01 50
△ = 1050 km = 9½°.
Northeast of Jan Mayen.
Origin time = 09 57 43.

» 12 Up iPKP 10 09 52
Ki ePKP 10 09 41
Sk iPKP 10 09 44
i 10 10 00
Kermadec Islands.

» 12 Up iP 11 25 36
Ki iP 11 25 56
(Atlantic Ocean).

» 12 Ki iP 17 33 43
iS 17 34 56
eT 17 38 36
i 17 38 54
i 17 39 23
△ = 700 km = 6½°.
Sk iP 17 34 19
iS 17 36 07
eT 17 41 11
△ = 1050 km = 9½°.
Northeast of Jan Mayen.
Origin time = 17 32 00.

» 12 Sk i(P) 19 11 37

» 12 Up iP 21 00 53
μ s
M N 0.8 18
Ki iP 20 59 18
i 20 59 23
iS 21 00 31
iT 21 04 11

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1956						
Nov 12		i		21	04	43
(cont.)		i		21	04	58
				μ	s	
		P	z′	0.1	0.9	
		M	E	0.8	17	
		M	N	0.5	16	
		M	z	0.9	14	
		△=700 km=6½°.				
	Sk	iP		20	59	56
		iS		21	01	43
		eT		21	06	39
		△=1050 km=9½°.				
		Northeast of Jan Mayen.				
		Origin time=20 57 36.				
» 12	Up	iP		21	47	17
	Ki	iP		21	47	11
		Near north coast of Java.				
		Deep (h ~ 350 km).				
» 13	Up	iP		03	02	04
		iS		03	04	34
		iT		03	09	39
				μ	s	
		M	N	0.9	15	
		M	z	1.5	17	
		T phase remarkable.				
	Ki	iP		03	00	20
		i		03	00	25
		iS		03	01	33
		iT		03	05	19
		i		03	05	53
				μ	s	
		P	z′	0.1	0.9	
		M	E	0.8	16	
		M	N	0.8	19	
		M	z	2.4	20	
		△=700 km=6½°.				
	Sk	iP		03	00	58
		i		03	01	03
		iS		03	02	42
		eT		03	07	24
		△=1050 km=9½°.				
		Northeast of Jan Mayen.				
		Origin time=02 58 37.				
		There is a certain remarkable regularity in the origin times of the shocks in this series. Explosions?				
» 13	Up	iP		03	33	06
	Ki	iP		03	33	03
		i		03	33	19
				μ	s	
		P	z′	0.1	1.0	
	Sk	iP		03	33	18
		Java.				
» 13	Ki	eP		05	04	53
		(Southern Iran).				
» 13	Ki	ePKP		08	00	05
		Loyalty Islands region.				

1956						
Nov 13	Up	iPKP		10	15	01
		iPP		10	17	41
				μ	s	
		M	E	2.0	24	
		M	N	1.4	25	
		M	z	2.0	24	
	Ki	ePKP		10	14	55
				μ	s	
		M	E	3.0	22	
		M	N	1.0	22	
		M	z	3.8	22	
	Sk	iPKP		10	14	59
		Indian Ocean.				
» 13	Up	i(P)		12	48	06
» 13	Ki	i(Sg)		13	30	44
		Seismic?				
» 13	Up	iP		14	51	27C
				μ	s	
		P	z′	0.3	1.4	
		M	E	1.1	21	
		M	N	0.9	25	
	Ki	iP		14	51	07
				μ	s	
		P	z′	0.1	0.9	
		M	E	0.7	15	
		M	N	0.4	13	
	Sk	iP		14	51	32
		Near east coast of Luzon.				
» 13	Ki	iPg		15	49	55
		iSg		15	50	21
	Sk	eSg		15	52	31
		Local.				
» 14	Up	iP		00	59	04 D
		iPP		01	00	45
		i		01	05	07
				μ	s	
		P	z′	0.4	0.5	
		PP	E	2.1	3	
		PP	z	2.2	3	
		M	E	7.1	18	
		M	N	12	18	
		M	z	4.7	17	
	Ki	iP		00	59	12 D
		iPP		01	00	51
		eS		01	05	04
		e		01	05	23
		i(sS)		01	06	12
				μ	s	
		P	z′	0.7	1.0	
		PP	E	1.6	9	
		PP	z	1.6	4	
		PP	z′	0.6	1.2	
		M	E	4.5	10	
		M	N	3.5	10	
		M	z	4.7	11	
	Sk	iP		00	59	29 D

1956						
Nov 14		ipP		01	00	12
(cont.)		iPP		01	01	14
		△=4900 km=44°.				
		Hindu Kush. h=210 km (Sk).				
		Magn.=6.5 (Up, Ki).				
» 14	Up	i(P)		01	12	49
	Sk	i(P)		01	11	35C
» 14	Up	i(P)		02	34	40
		i		02	35	33
		i(Sg)		02	35	57
		Local.				
» 14	Up	i(Pg)		18	31	50
		i(Sg)		18	33	20
		Local.				
» 15	Up	i(P)		12	05	38
» 15	Up	iP		20	38	51 D
	Ki	iP		20	38	49
» 16	Up	iP		04	59	24 D
» 16	Ki	iP		09	02	04C
				μ	s	
		P	z′	0.1	1.0	
		New Guinea. Intermediate depth (h ~ 150 km).				
» 16	Up	iP		11	56	15
				μ	s	
		P	z′	0.1	0.9	
		M	E	4.4	17	
		M	N	1.8	17	
		M	z	3.3	19	
	Ki	iP		11	55	55
				μ	s	
		P	z′	0.2	1.4	
		M	E	4.2	21	
		M	N	2.1	16	
	Sk	eP		11	56	02
		Southern Luzon.				
» 16	Up	iP		12	06	22 D
				μ	s	
		P	z′	0.1	1.0	
	Ki	iP		12	06	22
				μ	s	
		P	z′	0.3	1.2	
	Sk	iP		12	06	10
		Northwestern Venezuela.				
» 16	Up	eP		14	11	50
	Ki	iP		14	12	28
				μ	s	
		P	z′	0.1	0.9	
	Sk	eP		14	12	27
		Iran.				

1956						
Nov 16	Up	i(P)		18	28	23
» 17	Up	i(P)		01	10	12
» 17	Up	iP		19	26	36
	Ki	iP		19	26	08 D
	Sk	eP		19	26	37
		Ryukyu Islands region.				
		Intermediate depth (h ~ 150 km).				
» 17	Up	iP		20	37	50 D
		i		20	37	55
				μ	s	
		P	z′	0.3	1.0	
		M	E	2.6	20	
		M	N	5.4	16	
		M	z	4.2	20	
	Ki	iP		20	37	01
				μ	s	
		P	z′	0.3	1.3	
		M	E	4.1	15	
		M	N	2.2	13	
		M	z	4.8	15	
	Sk	iP		20	37	21
		Queen Charlotte Islands region.				
		Magn.=6.1 (Up, Ki).				
» 18	Up	iP		01	59	38 D
				μ	s	
		P	z′	0.1	0.6	
	Ki	iP		01	59	03
	Sk	iP		01	59	34
		Off south coast of Honshu, Japan.				
		Intermediate depth (h ~ 280 km).				
» 18	Up	iP		05	27	15
				μ	s	
		M	E	4.6	12	
		M	N	2.5	14	
		M	z	4.1	12	
	Ki	iP		05	27	12
				μ	s	
		P	z′	0.1	1.0	
		M	E	2.1	12	
		M	N	1.3	12	
		M	z	2.4	12	
	Sk	iP		05	27	36
		Sinkiang, China.				
» 18	Up	iPKP		10	06	30 D
		Kermadec Islands region.				
» 18	Up	iP		16	05	55C
	Ki	eP		16	07	19
		i		16	07	24
	Sk	iP		16	06	48
		Rumania. Intermediate depth (h ~ 160 km).				
» 18	Up	iPKP		18	36	04 D
		i		18	36	25
		Kermadec Islands region.				

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1956 Nov 18	Up	i(Sg)		18	39	03
	Sk	i(P)		18	36	44
		iSg		18	37	19
	Local.					
» 18	Up	iP		19	25	48
» 18	Up	iP		20	36	30C
	Sk	iP		20	37	09
» 18	Up	eP		21	34	26
				μ	s	
	M	E		2.4	17	
	M	N		1.5	15	
	M	Z		3.4	18	
	Ki	iP		21	33	55
				μ	s	
	M	E		1.0	14	
	M	N		0.9	16	
	M	Z		3.9	20	
	Sk	iP		21	34	26
	Ryukyu Islands.					
» 18	Up	e(Pg)		22	36	29
		i(Sg)		22	36	57
	Local.					
» 19	Up			—		
				μ	s	
	M	E		1.4	18	
	M	N		1.6	20	
	M	Z		1.6	18	
	Ki	eP		12	15	12
				μ	s	
	M	E		1.5	16	
	M	N		1.3	17	
	M	Z		3.0	17	
	Marianas Islands.					
	Intermediate depth (h ~ 150 km).					
» 19	Ki	eP		15	10	16
» 19	Up	iP		15	17	20
» 19	Up	iP		15	53	57
	Ki	iP		15	53	12
	Off east coast of Hokkaido, Japan.					
» 20	Up	iP		12	12	16
	Ki	iP		12	12	02
				μ	s	
	P	Z′		0.1	1.2	
	Sk	iP		12	12	23
	Near east coast of Celebes.					
	Intermediate depth (h ~ 200 km).					
» 20	Up	iP		14	49	22
	Ki	iP		14	49	17
	Sk	iP		14	49	38
» 20	Up	i(P)		15	01	32

1956 Nov 20	Ki	eP		17	19	24
» 20	Up	iP		19	01	13
	Sk	iP		19	01	05 D
» 20	Up	iP		23	25	38
		iPP		23	25	57
		i		23	28	43
		iPcS		23	33	29
				μ	s	
	M	E		7.0	15	
	M	N		5.5	13	
	M	Z		8.3	16	
	Ki	iP		23	26	50
				μ	s	
	P	Z′		0.1	1.0	
	M	E		3.8	12	
	M	N		1.5	11	
	M	Z		1.7	11	
	Sk	iP		23	26	24
	Aegean Sea.					
» 21	Ki	i(P)		05	10	03
		i		05	12	40
» 21	Up	iP		06	32	36
	Ki	iP		06	31	48
	Off west coast of Sakhalin.					
» 21	Up	iPKP		07	32	19
				μ	s	
	PKP	Z′		0.1	0.8	
	Sk	iPKP		07	32	12C
	Kermadec Islands.					
	Deep (h ~ 300 km).					
» 21	Up	iP		07	44	50C
				μ	s	
	P	Z′		0.2	0.6	
	M	E		7.1	18	
	M	Z		9.4	18	
	Ki	iP		07	44	10C
		iPP		07	46	32
		iPS		07	53	13
		iSS		07	57	13
				μ	s	
	P	Z′		0.3	1.0	
	PP	Z′		0.2	1.6	
	M	E		6.1	16	
	M	N		2.7	17	
	M	Z		8.0	16	
	Sk	iP		07	44	44C
	Near east coast of Honshu, Japan.					
	Deeper than normal.					
	Magn. = 6.2 (Up, Ki).					
» 22	Ki	iP		04	34	27
	Iran.					
» 22	Ki	ePKP		08	35	22

1956 Nov 22 (cont.)		PKP	Z′	μ 0.1	s 1.4	
	New Zealand.					
» 22	Up	i(P)		10	12	21
» 23	Up	iP		08	27	15
	Sk	iP		08	27	29
» 23	Up	iP		10	11	51 D
	Ki	iP		10	10	58
	Sk	eP		10	11	28
	Aleutian Islands.					
» 23	Ki	i(Sg)		12	48	31
	Local? Seismic?					
» 23	Up	iP		15	18	13
» 23	Ki	i(Sg)		16	17	33
	Local?					
» 23	Ki	eP		18	18	40
» 24	Up	i(Sg)		13	32	59
	Seismic?					
» 24	Up	i(P)		16	10	58
		(P)	Z′	μ 0.1	s 1.0	
	Ki	i(P)		16	10	56
		(P)	Z′	μ 0.1	s 1.0	
» 24	Up	i(P)		17	01	12
» 24	Up	iPKP		21	01	41
		i		21	01	51
	Kermadec Islands region.					
» 24	Ki	i(P)		23	01	07
» 25	Up	iP		11	35	52
	Ki	eP		11	34	58
		i		11	35	09
		P	Z′	μ 0.1	s 1.2	
	Unimak Island region.					
» 25	Up	iP		15	24	22
	North Atlantic Ocean.					
» 25	Ki	iPKP		18	26	30
	Sk	iPKP		18	26	42
	New Hebrides Islands.					
	Intermediate depth (h ~ 100 km).					
» 25	Up	i(P)		20	45	10
	Ki	iP		20	45	57
» 26	Up	iP		03	12	02

1956 Nov 26 (cont.)		P	Z′	μ 0.1	s 0.8	
	Ki	iP		03	11	31
		P	Z′	μ 0.1	s 1.0	
	Bonin Islands.					
» 26	Up	i(P)		05	35	48
	(Arctic Ocean).					
» 26	Up	i(P)		13	09	36
» 26	Up	iPKP		23	49	10
		PKP	Z′	μ 0.1	s 1.0	
		M	E	4.2	20	
		M	N	5.4	20	
		M	Z	7.0	20	
	Ki	iPKP		23	48	51
		PKP	Z′	μ 0.2	s 1.2	
		M	E	5.3	20	
		M	N	4.8	22	
		M	Z	13	23	
	Sk	iPKP		23	49	04
	Loyalty Islands.					
	Magn. = 6.5 (Up, Ki).					
» 27	Ki	e(PKP)		01	10	57
	Loyalty Islands.					
» 27	Up	iP		02	45	14
	Ki	eP		02	46	11
» 27	Up	iP		08	10	56
	Off north coast of Hokkaido, Japan.					
» 27	Sk	i		12	29	35
	Seismic?					
» 27	Ki	ePKP		13	38	18
	Loyalty Islands.					
» 27	Up	i(P)		19	51	03
» 27	Up	iSn		23	55	47
		iSg		23	56	36
		△ = 910 km = 8.2°.				
	Ki	iPn		23	53	08
		iPg		23	53	23
		iSn		23	53	55
		iSg		23	54	16
		Sg	Z′	μ 0.1	s 0.6	
		△ = 440 km = 4.0°.				
	Sk	iS*		23	54	02
		iSg		23	54	06
		△ = 410 km = 3.7°.				
	Off central coast of Norway, 67.3° N, 10.0° E.					
	Origin time = 23 52 05.					

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1956
Nov 28 Up iPKP 15 31 22 C
μ s
PKP z′ 0.2 0.8
Ki iPKP 15 31 06
μ s
PKP z′ 0.2 1.5
Sk iPKP 15 31 16 C
i 15 31 38
Kermadec Islands.

» 28 Up iP 16 57 42

» 28 Up iP 19 37 59 C
iPcP 19 38 39
i 19 41 08
iPcS 19 42 37
iS 19 46 40
iPS 19 47 05
iP′P′ 20 06 33
μ s
P z′ 0.2 0.7
M E 11 20
M N 27 22
M z 34 24
△=7350 km=66°.
Ki iP 19 37 08 C
i 19 37 21
e 19 41 00
μ s
P z′ 0.3 1.3
M E 22 22
M N 14 20
M z 32 18
Sk iP 19 37 49
i 19 38 11
i! 19 39 00
Northern Kurile Islands.
Probably deeper than normal.
Magn.=6.4 (Up, Ki).

» 29 Up iPKP 04 32 37
i 04 35 58
Ki iPKP 04 32 40
iPP 04 35 37
South Orkney Islands region.

» 29 Ki eP 07 27 50
Bonin Islands.

» 29 Up iP 09 27 40 D
iPP 09 30 54
iS 09 37 48
iScS 09 38 12
i 09 38 32
iSS 09 43 15
μ s
P z 1.2 5
S N 1.2 7
M E 11 14
M N 12 13
M z 32 13

1956
Nov 29 (cont.) M z 9.6 16
△=9100 km=82°.
Ki iP 09 27 02
iPcP 09 27 15
i 09 27 46
eScS 09 37 13
iSa 09 46 50
μ s
P z′ 0.1 1.0
M E 16 16
M N 13 16
M z 19 16
△=8400 km=75½°.
Sk iP 09 27 36 D
Bonin Islands.
Magn.=6.3 (Up, Ki).

» 29 Ki i(P) 14 05 06

» 30 Ki i(P) 11 09 14
Seismic?

» 30 Up iP 15 01 09
Ki iP 15 01 08
Sk eP 15 01 22

» 30 Up iPKP 19 48 52
Ki iPKP 19 49 07 D
San Juan Province, Argentina.

Dec 1 Up i(P) 03 39 08
Local?

» 1 Up i(P) 06 57 01

» 1 Up i(P) 12 23 47

» 1 Ki i(P) 12 32 04
i 12 32 09
Local blast?

» 2 Ki iP 02 13 06

» 2 Up iP 03 10 56
μ s
P z′ 0.1 1.0
Ki iP 03 10 03
μ s
P z′ 0.2 1.0
Sk iP 03 10 33
Aleutian Islands.

» 3 Ki ePP 04 05 02
Prince Edward Island region, Indian Ocean.

» 3 Ki eP 07 22 48
μ s
P z′ 0.1 1.0
Aleutian Islands.

1956
Dec 3 Up iP 07 31 07
μ s
M N 2.7 20
M z 3.5 20
Ki iP 07 30 12 D
i 07 30 19
eScS 07 40 16
μ s
P z′ 0.2 1.0
M E 3.8 20
M N 1.6 17
M z 4.2 20
Sk iP 07 30 46
Aleutian Islands.

» 3 Up iP 07 51 28
i! 07 52 57
Ki i 07 54 13

» 3 Up iP 07 55 55
iPP 07 58 09
μ s
P z′ 0.1 0.9
PP z′ 0.2 1.0
Ki iP 07 55 01 C
i 07 56 03
iPP 07 57 15
μ s
P z′ 0.3 1.0
PP z′ 0.1 1.0
Sk iP 07 55 32
Aleutian Islands.

» 3 Ki iP 08 02 48
μ s
P z′ 0.1 1.0
Aleutian Islands.

» 3 Ki iP 21 06 47
Aleutian Islands.

» 4 Up iP 08 55 10
μ s
M E 1.6 20
M N 3.0 22
M z 4.7 22
Ki iP 08 54 20 D
μ s
P z′ 0.1 1.0
Sk iP 08 54 56
Kurile Islands.

» 4 Ki iP 09 00 19
Kurile Islands.

» 4 Up iPKP 10 27 29
μ s
PKP z 2.1 5
PKP z′ 0.2 0.6
Ki iPKP 10 27 32 D

1956
Dec 4 (cont.)
μ s
PKP z′ 1.4 1.8
Sk ePKP 10 27 26
South Pacific Ocean.

» 4 Up iP 10 53 08
μ s
P z′ 0.1 1.0
Ki iP 10 52 15 C
μ s
P z′ 0.2 1.0
Sk iP 10 52 46
Aleutian Islands.

» 4 Ki iP 11 02 59

» 4 Up i(Pg) 16 10 02
iSg 16 10 44
Local.

» 4 Up iP 21 11 36 D
Ki eP 21 11 07
Ryukyu Islands.
Intermediate depth (h ~ 100 km).

» 4 Up iP 23 14 07
μ s
M E 3.3 21
M N 2.2 24
M z 5.5 22
Ki iP 23 13 56
eS 23 24 19
μ s
M E 3.2 22
M N 1.1 19
M z 4.7 21
Guatemala. Intermediate depth (h ~ 100—150 km).

» 5 Up iP 15 15 12
μ s
P z′ 0.1 0.7

» 5 Up iP 18 07 54
Ki eP 18 07 29

» 5 Up e(Sg) 20 55 41
Local?

» 6 Up e(P) 03 41 24
e(Sg) 03 44 00
Local?

» 6 Ki iP 05 27 07

» 6 Up iP 20 37 44
Hindu Kush.
Intermediate depth (h ~ 200 km).

» 6 Up i(P) 22 47 28

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1956
Dec. 7 Up iP 11 34 01
μ s
P z′ 0.1 0.6
Ki iP 11 33 45
μ s
P z′ 0.1 0.7
Near west coast of Luzon.

» 7 Sk i 12 23 44
Seismic?

» 7 Sk iP 13 45 01

» 7 Up iP 14 43 28C
Ki iP 14 43 27C
μ s
P z′ 0.1 1.0
Sk iP 14 43 42C
Southeastern Sumatra.
Intermediate depth (h ~ 100 km).

» 7 Ki eP 18 30 48
i 18 31 03
Southeastern Sumatra.

» 8 Up iP 01 12 18
Ki iP 01 11 55

» 8 Sk i 12 42 47
Seismic?

» 8 Up iP 16 21 29C
iS 16 30 20
μ s
P z′ 0.6 0.8
S N 2.0 5
M E 24 20
M N 21 21
M z 22 21
△ = 7500 km = 67½°.
Ki iP 16 20 36C
iS 16 28 48
μ s
P z 4.2 10
P z′ 0.4 0.8
S E 4.1 15
S N 2.7 12
M E 18 16
M N 15 17
M z 39 20
△ = 6700 km = 60½°.
Sk iP 16 21 10D
Aleutian Islands.
Magn. = 6.6 (Up, Ki).

» 8 Up iP 16 27 34
μ s
P z′ 0.3 0.9
Ki iP 16 26 40
μ s
P z′ 0.2 1.1

1956
Dec. 8 Sk eP 16 27 13
(cont.) Aleutian Islands.

» 8 Up iP 16 29 21
μ s
P z′ 0.1 1.0
Ki iP 16 28 29
Sk e(P) 16 28 59
Aleutian Islands.

» 8 Up iP 16 34 32

» 8 Up iP 17 11 33
μ s
P z′ 0.1 0.7

» 8 Up e(P) 18 25 43
e 18 26 41

» 9 Up iP 00 24 26
Molucca Passage.

» 9 Up iP 05 30 06
μ s
P z′ 0.1 1.0
Ki iP 05 29 12D
μ s
P z′ 0.1 1.0
Sk iP 05 29 44
Aleutian Islands.

» 9 Up iP 17 11 20
Ki eP 17 10 26
Off east coast of Kamchatka.

» 10 Up iP 08 41 51
Ki iP 08 40 58
Aleutian Islands.

» 10 Up eP 13 33 37

» 10 Up iPKP 17 06 54
New Britain.

» 10 Up e(Sg) 23 11 08
Local?

» 11 Up i(P) 01 09 34

» 11 Up iP 05 09 10

» 11 Up iP 06 41 53
Ki iP 06 41 06
Northern Kurile Islands.

» 11 Up eP 08 53 15
Ki iP 08 52 58
μ s
P z′ 0.1 1.0
Philippine Islands.

1956
Dec. 11 Up iP 17 03 31C
Arabian Sea.

» 11 Up i(P) 17 19 41
Ki i(P) 17 19 20

» 11 Up iP 19 37 33

» 11 Ki i(P) 23 07 19

» 12 Up iP 12 57 10

» 12 Up iP 21 04 56
i 21 05 14
Ki iP 21 04 40
Formosa. Intermediate depth (h ~ 150 km).

» 13 Up iP 13 08 06

» 13 Ki iP 13 27 33
Lower California.

» 13 Ki iP 15 05 26
μ s
P z′ 0.1 1.2
Molucca Passage.

» 13 Up iP 15 53 44
μ s
P z′ 0.1 1.0

» 13 Up eP 19 47 58
Ki iP 19 47 31
i! 19 47 46
μ s
i! z′ 0.2 1.1
Marianas Islands.

» 15 Up iP 10 21 45D

» 15 Up iP 14 04 18
Ki iP 14 04 02C
μ s
P z′ 0.1 1.0
Halmahera. Intermediate depth (h ~ 150 km).

» 15 Up iPKP 17 43 17D
μ s
PKP z′ 0.2 1.2
Ki iPKP 17 43 04C
μ s
PKP z′ 0.2 1.0
Sk iPKP 17 43 14C
New Hebrides Islands.
Intermediate depth (h ~ 150 km).

» 15 Up iPKP 20 25 14D
Tonga Islands region.

» 16 Up i 01 04 56
Seismic?

1956
Dec. 16 Up iP 01 54 41D
eS 02 05 16
iPS 02 06 15
μ s
P z′ 0.1 1.0
△ = 9650 km = 87°.
Ki iP 01 54 42D
iSKS 02 05 02
iS 02 05 22
μ s
P z′ 0.5 1.6
SKS E 3.6 10
S N 2.0 7
△ = 9650 km = 87°.
Sk iP 01 54 27D
Near west coast of Colombia.

» 16 Up iPKP 22 26 21
μ s
PKP z′ 0.1 0.8
Ki ePKP 22 26 01
Sk iPKP 22 26 15
Kermadec Islands.

» 17 Up i(P) 14 18 43

» 18 Up iP 00 13 01

» 18 Up iP 02 26 38
Ki iP 02 26 12
Bonin Islands.

» 18 Up ePP 02 50 12
i 02 50 33
i(S) 02 57 34
e 02 59 42
μ s
(S) E 3.7 9
M E 29 22
M N 14 20
M z 33 21
△ ~ 12200 km ~ 110°.
Ki i(PKP) 02 49 56
i 02 58 45
iSKSP 03 00 16
e(PKKP) 03 00 31
μ s
M E 30 24
M N 17 24
△ ~ 12450 km ~ 112°.
Sk ePP 02 50 11
Chile-Argentina border.
Magn. = 7.0 (Up, Ki).

» 18 Up iP 17 59 11
i 17 59 32
iPP 18 00 14
μ s
PP z′ 0.2 1.5
M E 1.2 16
M N 1.7 16
M z 3.3 19

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1956
Dec. 18 (cont.)

Ki	iP		18	00	17
			μ	s	
	P	z′	0.4	1.7	
	M	E	2.6	20	
	M	N	1.7	17	
Sk	iP		17	59	59

Israel-Jordan border region.
Magn. = 6 (Up, Ki).

» 18 Up	eL		20	04	
			μ	s	
	M	E	2.4	18	
	M	N	1.8	20	
	M	Z	3.1	22	
Ki	eL		20	10	
			μ	s	
	M	E	2.0	17	
	M	N	1.1	16	

South Indian Ocean.

» 18 Up	iP		21	24	19C
			μ	s	
	P	z′	0.2	1.2	
Ki	iP		21	23	42
			μ	s	
	P	z′	0.1	1.0	
Sk	iP		21	24	16

Near south coast of Honshu, Japan.
Intermediate depth (h ~ 100 km).

» 19 Up	iP		01	28	49
			μ	s	
	P	z′	0.1	1.0	
Ki	iP		01	27	57 D
			μ	s	
	P	z′	0.1	0.5	
Sk	iP		01	28	34

Southern Kamchatka.

» 19 Up	iP		04	47	39 D
			μ	s	
	P	z′	0.2	1.0	
Ki	iP		04	47	07
Sk	eP		04	47	37

Bonin Islands region.
Deep (h ~ 450 km).

» 19 Up	iP		13	44	22 D
			μ	s	
	P	z′	0.2	1.1	

» 20 Up	iPKP		11	19	38C
			μ	s	
	PKP	z′	0.2	0.8	
	M	N	2.0	22	
	M	Z	1.8	17	
Ki	ePKP		11	19	18
			μ	s	
	M	N	1.0	22	
Sk	iPKP		11	19	36

Kermadec Islands.

1956
Dec. 20

Up	i(P)		19	05	28
» 20 Up	iP		19	58	48
			μ	s	
	P	z′	0.1	0.7	
Ki	iP		19	58	02
			μ	s	
	P	z′	0.1	1.0	

Kurile Islands.

» 20 Up	iP		21	26	45
Ki	iP		21	26	45
			μ	s	
	P	z′	0.1	1.0	
Sk	iP		21	26	59

Near west coast of Sumatra.

» 21 Up	iP		00	08	04C
			μ	s	
	P	z′	0.2	1.2	
Ki	iP		00	07	10C
			μ	s	
	P	z′	0.1	0.7	
Sk	iP		00	07	47

Kamchatka.

» 21 Up	iP		03	38	01C
			μ	s	
	P	z′	0.1	0.7	
	M	E	1.0	19	
	M	N	4.4	22	
Ki	iP		03	37	52C
			μ	s	
	P	z′	0.1	1.0	
	M	E	1.1	20	
	M	N	2.3	18	
Sk	iP		03	38	15

Burma-India border.

» 21 Up	e(PKP)		08	49	48
Sk	i(PKP)		08	49	47 D

(Fiji Islands).

» 21 Up	iP		09	09	44C
	iS		09	18	33
	eSS		09	22	43
			μ	s	
	P	N	1.5	5	
	P	Z	1.9	5	
	P	z′	0.4	1.2	
	S	E	4.3	13	
	S	N	1.4	8	
	M	E	20	17	
	M	N	26	21	
	M	Z	30	18	
	△ = 7450 km = 67°.				
Ki	iP		09	08	58
	iPa		09	12	30
	iS		09	17	12
	iScS		09	18	44

1956
Dec. 21 (cont.)

			μ	s	
P	N		1.5	6	
P	z′		1.0	2.0	
S	E		7.0	12	
S	N		1.8	10	
M	E		22	17	
M	N		21	17	
△ = 6700 km = 60½°.					
Sk	iP		09	09	15

Queen Charlotte Islands.
Magn. = 6.6 (Up, Ki).

» 21 Up	iP		10	43	24

Off south coast of Honshu, Japan.

» 21 Ki	i(Sg)		14	04	18

Local?

» 21 Up	iP		18	22	52
			μ	s	
	P	z′	0.1	1.0	
Ki	iP		18	22	16
			μ	s	
	P	z′	0.1	1.0	
	M	E	1.9	18	
	M	N	0.5	14	
Sk	eP		18	22	48

Off south coast of Honshu, Japan.

» 21 Up	iP		20	21	48
			μ	s	
	P	z′	0.6	1.6	
	M	E	4.4	17	
	M	N	2.8	13	
	M	Z	2.7	13	
Ki	iP		20	21	11C
	i		20	21	18
	iPP		20	23	46
			μ	s	
	P	z′	0.2	1.0	
	PP	z′	1.0	3.0	
	M	E	9.3	18	
	M	N	5.8	18	
	M	Z	5.7	16	
Sk	iP		20	21	49

Off south coast of Honshu, Japan.
Magn. = 6.3 (Up, Ki).

» 22 Up	iPg		08	38	24
	iSg		08	39	05
			μ	s	
	Sg	z′	0.1	0.5	
	△ = 360 km = 3.2°.				
Ki	eSg		08	41	50
	△ = 910 km = 8.2°.				
Sk	eSg		08	41	04
	△ = 760 km = 6.8°.				

The Gulf of Finland, 59.8°N, 23.8°E.
Origin time = 08 37 19.

» 22 Up	iP		11	37	46

1956
Dec. 22 (cont.)

Ki	eP		11	37	25

Philippine Islands.

» 22 Up	iP		12	05	37
» 22 Up	iPKP		22	57	56C
	iPKP2		22	58	05
			μ	s	
	PKP	z′	0.1	1.0	
	PKP2	z′	0.3	0.7	
Ki	ePKP		22	57	32
Sk	iPKP		22	57	50C

Kermadec Islands.

» 22 Up	iP		23	24	21
	iS		23	33	55
			μ	s	
	P	z′	0.2	1.1	
	M	E	6.9	20	
	M	N	7.4	15	
	M	Z	7.8	22	
	△ = 8350 km = 75°.				
Ki	iP		23	23	42
			μ	s	
	P	z′	0.1	1.1	
	M	E	17	18	
	M	N	15	19	
	M	Z	12	18	
Sk	iP		23	24	21

Off south coast of Honshu, Japan.
Magn. = 6.2 (Up, Ki).

» 23 Up	iP		08	50	08
			μ	s	
	P	z′	0.2	1.1	
Ki	iP		08	49	38
	epP		08	50	02
			μ	s	
	P	z′	0.2	1.0	
Sk	iP		08	50	05
	ipP		08	50	26
	iPP		08	53	58

Marianas Islands region.
h = 90 km (Ki, Sk).

» 23 Ki	eL		18	07	
			μ	s	
	M	E	0.8	16	
	M	N	1.2	18	

Volcano Islands.

» 24 Up	i		18	35	04
	iSg		18	35	12
			μ	s	
	Sg	z′	0.1	0.5	
	△ = 800 km = 7.2°.				
Ki	iP*		18	32	16
	iPg		18	32	24
	i(S*)		18	33	57
	iSg		18	33	07

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1956
Dec 24 (cont.)

		Sg		z′	μ 0.3	s 0.5
		△ = 380 km = 3.4°.				
	Sk	eSn			18	34 12
		iSg			18	34 52
		△ = 730 km = 6.6°.				
		Northern Finland, 65.6°N, 27.0°E.				
		Origin time = 18 31 15.				
»	24 Up	iP			18	51 41
					μ	s
		P		z′	0.3	1.5
	Ki	iP			18	51 23C
					μ	s
		P		z′	0.2	1.1
	Sk	iP			18	51 46
		Near east coast of Mindanao.				
»	25 Up	iP			01	06 32C
	Sk	iP			01	07 14
		Ionian Islands.				
»	25 Sk	eP			03	04 29
		North Atlantic Ocean.				
»	25 Up	iPKP			04	48 50
	Ki	iPKP			04	48 42
		Tonga Islands.				
		Intermediate depth (h ~ 200 km).				
»	25 Up	iP			09	39 31
		i!			09	39 37
		iPP			09	40 28
		iS			09	44 21
					μ	s
		P	E		1.1	4
		P	Z		1.3	4
		P	Z′		0.8	1.6
		PP	Z		0.6	3
		S	E		1.6	5
		S	N		0.9	5
		M	E		5.7	13
		M	N		14	17
		M	Z		6.9	18
		△ = 3150 km = 28½°.				
	Ki	iP			09	39 53
		i!			09	39 59
		iPP			09	40 47
		iS			09	45 02
		i			09	45 19
		iPcS			09	46 38
					μ	s
		P	E		0.7	4
		P	Z′		0.5	1.8
		PP	E		1.6	6
		S	E		2.3	10
		S	N		1.2	9
		M	E		13	18
		M	N		4.5	15
		M	Z		14	18
		△ = 3450 km = 31°.				

1956
Dec 25 (cont.)

	Sk	iP			09	39 14
		i!			09	39 20
		North Atlantic Ocean.				
		Magn. = 6.0 (Up, Ki).				
»	25 Up	iPKP			13	56 16C
	Sk	iPKP			13	56 18C
		Tonga Islands region.				
»	26 Up	iP			03	43 26C
	Sk	iP			03	43 22
»	26 Sk	iPKP			08	05 23
		Santa Cruz Islands.				
»	27 Up	iPKP			00	33 15
		ipPKP			00	34 40
		iPP			00	36 42
		i			00	43 14
		iSP			00	46 40
		iSS			00	54 30
					μ	s
		PKP		z′	0.8	1.3
		PP	N		1.8	4
		PP	Z		1.2	2
		PP	Z′		3.3	2.2
		M	E		16	26
		M	N		14	25
		M	Z		13	22
		△ ~ 15800 km ~ 142°.				
	Ki	iPKP			00	32 56
		iPKP			00	33 05
		ipPKP			00	34 29
		iPP			00	35 37
		i!			00	36 22
		ipPP			00	36 47
		isPKS			00	38 26
		i			00	42 14
		i			00	42 45
		iSP			00	45 41
		iSS			00	53 07
					μ	s
		PKP	Z		2.6	5
		PKP	Z′		0.5	1.2
		pPKP	Z′		0.8	2.0
		PP	Z		2.6	5
		M	E		8.2	19
		M	N		7.8	21
		M	Z		18	23
		△ ~ 15000 km ~ 135°.				
	Sk	iPKP			00	33 07
		iSKP			00	36 33
		Tonga Islands region.				
		Deep (h ~ 300 km).				
		Magn. = 7.2 (Up, Ki).				
		The first PKP at Ki has very small amplitude.				
»	27 Up	iP			10	13 34
		iPP			10	14 15

1956
Dec 27 (cont.)

		P		z′	μ 0.1	s 1.0
		PP		z′	0.1	1.2
		M	E		3.1	17
		M	N		2.4	15
		M	Z		2.1	15
		△ = 2800 km = 25°.				
	Ki	iP			10	14 41 D
					μ	s
		M	E		1.8	16
		M	N		0.6	16
		M	Z		1.0	15
	Sk	iP			10	14 15
		Near south coast of Rhodes Island.				
»	27 Up	i(Sg)			18	24 50
		Local?				
»	27 Up	iP			21	44 43
					μ	s
		P		z′	0.1	1.0
		M	E		1.5	27
		M	N		4.6	25
		M	Z		1.7	24
	Ki	iP			21	44 24
					μ	s
		P		z′	0.1	1.2
		M	E		1.0	16
		M	N		2.3	23
		M	Z		2.4	18
	Sk	eP			21	44 45
		Mindanao, Philippine Islands.				
»	28 Up	iP			01	02 33
»	28 Up	iP			02	31 31
	Ki	iP			02	31 40C
	Sk	eP			02	31 59
		Northern Afghanistan.				
»	28 Ki	iP			13	54 10
		Near south coast of Mindanao, Philippine Islands.				
»	28 Up	ePKP			14	44 44
		i(pPKP2)			14	45 23
					μ	s
		M	E		5.6	21
		M	N		8.4	21
		M	Z		9.4	22
		△ ~ 17350 km ~ 156°.				
	Ki	iPKP			14	44 12
		ipPKP			14	44 50
					μ	s
		PKP		z′	0.1	1.1
		pPKP		Z	3.3	5
		pPKP		z′	0.3	1.1
		M	E		4.6	21
		M	N		3.4	22
		M	Z		9.0	22
		△ ~ 16450 km ~ 148°.				

1956
Dec 28 (cont.)

	Sk	iPKP			14	44 25
		i			14	44 57
		ipPKP			14	45 07
		Near coast of North Island, New Zealand.				
		h = 160 km (Ki, Sk).				
»	28 Sk	i			15	19 28
		i(Sg)			15	19 57
		Local?				
»	28 Up	iP			16	45 55
	Sk	iP			16	45 48
»	28 Up	—				
					μ	s
		M	E		3.0	22
		M	N		2.4	22
		M	Z		4.3	24
	Ki	iP			19	34 05
					μ	s
		M	E		1.7	17
		M	N		1.9	23
		M	Z		4.3	20
		Off south coast of Lower California.				
»	29 Up	e			01	03 11
		i			01	03 45
		e(Sg)			01	05 45
		Local?				
»	29 Up	iP			09	48 00
	Ki	eP			09	47 09
		Near south coast of Kamchatka.				
»	29 Up	e(Sg)			13	37 57
	Ki	e(Sg)			13	39 18
	Sk	e(Sg)			13	39 25
		Local.				
»	29 Up	iPKP			19	45 32
	Ki	iPKP			19	45 24
	Sk	iPKP			19	45 27
		Fiji Islands.				
		Deep (h ~ 600 km).				
»	29 Up	eL			21	38
					μ	s
		M	E		1.1	21
		M	N		2.4	19
		M	Z		4.5	18
	Ki	eL			21	32
					μ	s
		M	E		2.5	21
		M	N		2.2	21
		M	Z		8.1	21
		Tonga Islands.				
»	29 Up	e(Sg)			22	51 40
		Local?				

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1956							
Dec 30	Up	iP		09	50	28	
		i		09	50	47	
	Ki	iP		09	49	53	
	Off south coast of Honshu, Japan.						
» 30	Up	iP		18	29	18	
		i		18	29	33	
				μ	s		
		P	z′	0.2	1.0		
	Ki	iP		18	30	34	
				μ	s		
		P	z′	0.1	1.0		
	Sk	iP		18	29	58	
	Ionian Islands.						
» 30	Up	iP		22	09	38	
				μ	s		
		P	z′	0.2	0.7		
		M	E	2.8	18		
		M	N	1.4	20		
		M	Z	4.0	17		
	Ki	iP		22	09	32 C	
				μ	s		
		P	z′	0.2	0.5		
		M	E	3.1	18		
		M	N	2.3	20		
1956							
Dec 30		M	Z	5.8	18		
(cont.)	Sk	iP		22	09	54 C	
	India-Burma border.						
» 31	Up	iPn		04	45	17	
		iSn		04	47	20	
		i		04	48	25	
				μ	s		
		Sn	z′	0.2	1.0		
	△=1310 km=11.8°.						
	Ki	iPn		04	43	36 D	
		i		04	44	03	
		iSn		04	44	22	
		iS*		04	44	34	
		iSg		04	44	46	
		i		04	45	15	
				μ	s		
		Pn	z′	0.4	0.5		
		Sn	z′	1.2	0.5		
	△=470 km=4.2°.						
	Sk	iPn		04	44	29 D	
		i		04	45	30	
		iSn		04	45	54	
	△=890 km=8.0°.						
	Off north coast of Norway.						
» 31	Up	iP		06	06	35	