SEISMOLOGICAL INSTITUTE
BOX 517
751 20 UPPSALA 1
SWEDEN

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

S E I S M O L O G I C A L B U L L E T I N

U P P S A L A, K I R U N A, S K A L S T U G A N, U M E Å, U D D E H O L M and D E L A R Y

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

J A N U A R Y 1 - 31, 1976

1976
Jan. 1 Up iP 00 08 28.5
micr sec
P Z' 0.1 0.9
Ki iP 00 08 01.4
micr sec
P Z' 0.1 0.9
Um iP 00 08 12.3
Ud iP 00 08 34.6
Mariana Islands (h = 580 km).
m = 5.6 (Up,Ki).

" 1 Up iP 00 08 53.4
micr sec
P Z' 0.1 0.7
Sk iP 00 09 36.5
Um iP 00 09 32.5
Ud iP 00 09 00.0
ipP 00 09 06.3
De iP 00 08 36.1
Greece.
h = 25 km (Ud).

" 1 Ki iP 00 36 04.8
iS 00 38 39.2
i 00 38 54.2
Um ipP 00 36 27.7
Ud ipP 00 36 18.8
Iceland (h = N).

" 1 Up iPKPl 01 49 14.4
i 01 49 15.5
micr sec
PKPl Z' 1.4 1.0
Mx E 26 29
Mx N 66 29
Mx Z 64 26
Ki iPKPl 01 48 56.1
i 01 49 01.9
i 01 49 14.1
(cont.)

1976
Jan. 1 (cont.)
Ki micr sec
PKPl Z' 0.2 1.0
i Z' 0.5 1.0
Mx E 35 24
Mx N 52 23
Mx Z 64 24
Sk iPKPl 01 49 07.6
i 01 49 10.9
Um iPKPl 01 49 04.0
i 01 49 06.0
Ud iPKPl 01 49 16.5
De iPKP 01 49 20.8
iPKPl 01 49 24.0
Kermadec Islands (h = 60 km).
M = 7.3 (Up,Ki).
Multiple event with
successively increasing
amplitudes.

" 1 Up iPKPl 02 01 15.7
micr sec
PKPl Z' 0.1 0.8
Ud iPKPl 02 01 17.5
Kermadec Islands.

" 1 Up iPKPl 02 04 59.0
micr sec
PKPl Z' 0.1 1.0
Sk iPKPl 02 04 52.9
Um iPKPl 02 04 46.2
Ud iPKPl 02 05 00.6
De iPKPl 02 05 09.5
i 02 05 23.2
Kermadec Islands.

" 1 Up iPKPl 02 09 00.2
micr sec
PKPl Z' 0.1 0.7
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 1 (cont.)

Um	iPKPl	02 08 50.7	
Ud	iPKPl	02 09 02.5	
De	iPKPl	02 09 10.5	

Kermadec Islands.

" 1	Up	iPKPl	02 15 25.8	C
			micr	sec
		PKPl Z'	0.1	1.0
	Sk	iPKPl	02 15 18.9	
	Ud	iPKPl	02 15 27.9	
	De	iPKPl	02 15 36.6	

Kermadec Islands.

" 1	Up	iPKPl	02 18 51.3	
	Ud	iPKPl	02 18 52.7	
	De	iPKPl	02 19 01.8	

Kermadec Islands.

" 1	Up	iP	02 24 04.8	
	Ud	iP	02 24 14.1	

Greece (h = N).

" 1	Up	iPKPl	02 26 14.7	
			micr	sec
		PKPl Z'	0.1	0.9
	Sk	iPKPl	02 26 07.0	
		i	02 26 22.2	
	Um	iPKPl	02 26 01.8	
	Ud	iPKPl	02 26 15.9	
		i	02 26 31.3	
	De	iPKPl	02 26 26.1	
		i	02 26 40.3	

Kermadec Islands.

" 1	Up	iPKPl	02 40 47.3	C
			micr	sec
		PKPl Z'	0.1	0.8
	Sk	iPKPl	02 40 40.6	C
	Um	iPKPl	02 40 35.7	C
	Ud	iPKPl	02 41 48.7	C
	De	iPKPl	02 40 58.4	C

Kermadec Islands (h = 50 km).

" 1	Ud	iP	02 54 58.6	
" 1	Ud	iP	03 49 03.4	
" 1	Up	iP	04 22 34.2	
	Ud	iP	04 22 28.4	

Vancouver Island (h = 20 km).

" 1	Up	iPKPl	07 22 29.8	
		i	07 22 36.5	

(cont.)

1976
Jan. 1 (cont.)

Up	i	07 22 43.6	
Sk	iPKPl	07 22 22.7	
Um	iPKPl	07 22 17.2	
Ud	iPKPl	07 22 31.5	
	i	07 22 37.9	
De	iPKPl	07 22 39.9	
	i	07 22 54.1	

Kermadec Islands (h = N).

" 1	Ud	iP	08 00 59.6	
" 1	Ud	iP	08 10 32.7	
" 1	Ud	iP	09 06 07.0	
" 1	Up	iPKPl	09 53 35.0	C
			micr	sec
		PKPl Z'	0.1	0.7
	Sk	iPKPl	09 53 28.0	
	Um	iPKPl	09 53 22.8	
	Ud	iPKPl	09 53 36.9	C
	De	iPKPl	09 53 46.0	C

Kermadec Islands.

" 1	Up	iPKPl	14 46 46.2	
	Sk	ePKPl	14 46 41	
	Ud	iPKPl	14 46 46.5	
	De	iPKPl	14 46 55.1	

Kermadec Islands (h = 50 km).

" 1	Up	iP	15 44 41.6	
			micr	sec
		P Z'	0.1	1.0
	Ki	iP	15 44 08.3	
	Sk	iP	15 44 38.3	
	Um	iP	15 44 22.6	
	Ud	iP	15 44 49.5	

Japan (h = 390 km).

" 1	Up	iPKPl	16 35 00.7	
		ipPKPl	16 35 54.3	
			micr	sec
		PKPl Z'	0.4	1.0
	Ki	i(PKP)	16 34 43.3	
		iPKP	16 34 46.9	
	Sk	iPKPl	16 34 52.3	
	Um	i(PKP)	16 34 48.0	
		iPKPl	16 34 50.3	
	Ud	iPKPl	16 35 03.2	
		ipPKPl	16 35 56.1	
	De	iPKPl	16 35 12.5	
		iPKP2	16 35 17.2	

Tonga-Kermadec Islands.
h ≐ 200 km (Up,Ud).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Jan.	1	Ki	iPKP		19 02 37.7
			i		19 02 46.7
		Um	iPKP		19 02 45.3
		New Hebrides Islands (h = 25 km).			
"	1	Up	iPKPl		19 23 04.8 C
					micr sec
			PKPl	Z'	0.1 0.8
		Ki	ePKPl		19 22 49
		Sk	iPKPl		19 22 57.6 C
		Um	iPKPl		19 22 52.5
		Ud	iPKPl		19 23 06.9 C
		De	iPKPl		19 23 15.5 C
		Kermadec Islands (h = 60 km).			
"	2	Up	iPKPl		01 28 08.9
					micr sec
			PKPl	Z'	0.1 1.0
		Sk	iPKPl		01 28 01.9
		Um	iPKPl		01 27 57.3
		Ud	iPKP		01 28 07.8
			iPKPl		01 28 11.4
		De	iPKPl		01 28 20.5
		Kermadec Islands (h = 45 km).			
"	2	Ud	iP		02 18 45.8
		Iceland (h = 10 km).			
"	2	Ud	iP		02 38 44.2
"	2	Up	iP		02 57 33.7
		Ki	iP		02 56 45.6
		Um	iP		02 57 07.5
		Ud	iP		02 57 38.9
		Kurile Islands (h = 55 km).			
"	2	Ud	iP		03 47 05.6
		Vancouver Island (h = 25 km).			
"	2	Up	iPKPl		04 29 50.5
		Ki	iPKPl		04 29 32.9
		Sk	iPKPl		04 29 42.4
		Ud	iPKPl		04 29 51.9
		De	iPKPl		04 30 00.8
		Kermadec Islands (h = 60 km).			
"	2	Ud	iP		04 38 02.0
		Persian Gulf (h = N).			
"	2	Ki	iPn		04 51 29.5
			iSn		04 52 31.5
			i		04 52 44.3
		Sk	iP		04 51 59.8
		(cont.)			

1976					
Jan.	2	(cont.)			
		Sk	iS		04 53 28.5
		Um	iP		04 52 12.0
			iS		04 53 48.6
			i		04 54 17.0
		Ud	iP		04 52 47.4
			iS		04 54 54.4
		Norwegian Sea, near 71 1/4°N, 7°E.			
		Origin time = 04 50 05.			
"	2	Up	iPKPl		06 08 12.4
					micr sec
			PKPl	Z'	0.1 1.2
		Sk	iPKPl		06 08 06.0
		Ud	iPKPl		06 08 14.6
		De	iPKPl		06 08 23.4
			i		06 08 34.2
		Kermadec Islands (h = N).			
"	2	Up	iP		06 35 23.9
		Ki	iP		06 35 33.0
		Um	iP		06 35 22.8
		Ud	iP		06 35 42.2
		Afghanistan-USSR (h = 90 km).			
"	2	Ki	iP		06 37 13.3
			ipP		06 37 18.4
		Um	ipP		06 37 32.8
		Ud	ipP		06 37 24.9
		Iceland. h = 25 km (Ki).			
"	2	Up	iP		06 59 02.1
			i		06 59 11.6
					micr sec
			P	Z'	0.2 1.2
		Ki	iP		06 58 16.7
					micr sec
			P	Z'	0.1 1.2
		Um	iP		06 58 37.0
		Ud	iP		06 59 08.3 C
			i		06 59 19.7
		Kurile Islands (h = 40 km). m = 5.9 (Up,Ki).			
"	2	Up	i		07 38 41.9
			iSgl		07 39 07.7
			i		07 39 13.4
		Ki	eSg2		07 41 10
		Sk	iSn		07 37 51.5
			iSgl		07 38 14.0
		Um	iSn		07 39 08.0
			iSgl		07 39 54.7
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 2 (cont.)
Ud iPn 07 36 54.4
iSn 07 37 41.3
iSgl 07 38 07.3
De iSgl 07 39 01.7
West coast of Norway,
60.6°N, 5.0°E.
Origin time = 07 35 51.
M_L = 2.9 (Up,Um,Ud).
Felt.

" 2 Up iP 08 58 54.9
Ud iP 08 58 40.8

" 2 Up iPKP1 11 00 45.1
Sk iPKP1 11 00 38.0
Ud iPKP1 11 00 46.8
De iPKP1 11 00 55.7
Kermadec Islands.

" 2 Ki iP 13 54 21.1
Ud iP 13 54 34.9
De iP 13 54 34.5
Tadzhik-Sinkiang (h = N).

" 2 Ud iP 15 16 54.5

" 2 De iP 16 42 22.6
Indian Ocean (h = N).

" 2 Ud iP 16 46 16.8
Indian Ocean (h = N).

" 2 Ud iP 19 06 14.5

" 2 Ki iP 21 46 21.1
Kamchatka (h = N).

" 2 Up iPKP1 22 16 10.3
micr sec
PKP1 Z' 0.2 1.4
Sk iPKP1 22 16 03.0
Um iPKP1 22 15 57.6
Ud iPKP1 22 16 11.8
De iPKP1 22 16 20.8
Kermadec Islands (h = 30 km).

" 2 Up iP1 22 49 31.9
iP2 22 49 34.9
micr sec
P2 Z' 0.1 0.9
Sk iP1 22 50 14.3
Um iP2 22 50 12.0
Ud iP1 22 49 39.4
Greece (h = 40 km).

1976
Jan. 3 Up iPKP2 01 49 26.4
Um iPKP1 01 49 11.4
Ud iPKP2 01 49 28.8
Kermadec Islands (h = N).

" 3 Up iP 03 10 22.0
micr sec
P Z' 0.1 1.0
Ki iP 03 09 53.1
Sk iP 03 10 22.4
Um iP 03 10 04.5
Ud iP 03 10 30.7
Ryukyu Islands (h = 20 km).

" 3 Up iP 05 03 31.7

" 3 Ud ipP 05 59 36.9
Greece (h = 25 km).

" 3 Up iPKP1 06 02 55.0
i 06 03 06.6
Ud iPKP1 06 02 57.4

" 3 Ki iP 11 08 18.2
Mariana Islands (h = 400 km).

" 3 Up iP 13 21 16.3
Um ipP 13 21 58.0
Ud iP 13 21 24.9
Greece (h = 15 km).

" 3 Up iP 15 08 40.6
Greece (h = 35 km).

" 3 Up iPKP1 18 28 27.2
Ud iPKP1 18 28 30.8
Kermadec Islands.

" 3 Up iP 19 26 48.3 C
micr sec
P Z' 0.4 1.0
Ki iP 19 26 13.8 C
micr sec
P Z' 0.3 0.9
Sk iP 19 26 22.0 C
Um iP 19 26 33.4 C
Ud iP 19 26 40.0 C
Nevada.
m = 6.5 (Up,Ki).
Underground explosion.

" 4 Ki iP 04 10 33.0
ipP 04 10 45.7
Ud iP 04 10 44.2
ipP 04 10 58.3
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 4 (cont.)
Ud iPP 04 14 56.7
South of Java.
h = 45 km (Ki,Ud).

" 4 Up iP 04 33 22.8
micr sec
P Z' 0.5 1.7
Ki iP 04 32 53.1
iS 04 35 25.1
micr sec
P Z' 0.6 1.9
Mx N 2.6 12
Sk iP 04 32 25.3
iS 04 34 46.6
Um iP 04 33 09.1
Ud iP 04 33 00.8
iS 04 35 39.6
Iceland (h = N).
m = 5.7 (Up,Ki).

" 4 Up iP 08 55 04.2
micr sec
P Z' 0.1 1.2
Ki iP 08 54 10.7
micr sec
P Z' 0.1 1.0
Sk iP 08 54 40.9
Um iP 08 54 38.0
Ud iP 08 55 02.9
De iP 08 55 25.5
Aleutian Islands (h = 40 km).
m = 5.8 (Up,Ki).

" 4 Up iSgl 15 10 56.7
Ki iSgl 15 10 19.3
Sk iSgl 15 10 30.1
Um iPgl 15 08 43.6 C
iSgl 15 08 51.2
Ud iSgl 15 10 23.6
Västerbotten, Sweden,
64.3°N, 20.9°E.
Origin time = 15 08 33.
M_L = 2.6 (Ki,Um,Ud).

" 4 Ud iP 15 32 44.5

" 4 Um iPgl 20 57 32.1
iSgl 20 57 42.8
Regional event.
Origin time = 20 57 18.
M_L = 1.8 (Um).

" 4 Um iP 21 52 49.9

1976
Jan. 4 Up iPKP2 22 30 35.5
Um iPKP1 22 30 22.1
Ud iPKP1 22 30 32.6
Kermadec Islands.

" 5 Um iP 00 36 16.2

" 5 Ki iP 02 45 30.4
Peru (h = 100 km).

" 5 Ki iP 06 34 40.3
New Mexico (h = 25 km).

" 5 Ud iP 10 10 00.6

" 5 Ki iP1 12 43 58.2
iP2 12 44 06.2
Um iP2 12 44 18.0
Iceland (h = 5 km).

" 5 Ki iP 12 49 45.8
Formosa (h = 50 km).

" 6 Um i(P) 08 41 23.2

" 6 Ki iP 08 53 28.6
i 08 53 36.0
micr sec
P Z' 0.1 1.0
i Z' 0.1 0.8
Mx N 1.0 10
Sk iP 08 53 00.3
iS 08 55 13.4
Um iP 08 53 42.9
i 08 53 45.0
i 08 53 47.8
Ud iP 08 53 33.4
i 08 53 37.4
Iceland (h = 10 km).

" 6 Ud iP 10 36 16.0

" 6 Ki iP 14 28 06.7
i 14 28 16.6
Sk eP 14 27 40
Um iP 14 28 21.7
i 14 28 30.2
Iceland (h = N).

" 6 Up iP 19 38 55.4
micr sec
P Z' 0.1 1.3
Ki iP 19 38 00.6
Ud iP 19 38 59.1
Kamchatka (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Jan.	6	Up	iP		20 02 14.1		
					micr	sec	
			P	Z'	0.1	1.1	
		Ki	iP		20 01 19.3		
		Ud	iP		20 02 16.9		
		Kamchatka (h = N).					
"	6	Um	iP		20 03 18.5		
"	6	Um	iP		20 52 30.0		
"	6	Up	iP		21 07 47.9		
					micr	sec	
			P	Z'	0.3	1.2	
		Ki	iP		21 06 55.5		
			ipP		21 07 02.2		
					micr	sec	
			P	Z'	0.3	1.3	
		Sk	iP		21 07 32.7		
		Um	iP		21 07 19.3		
			ipP		21 07 27.0		
		Ud	iP		21 07 51.8		
		De	iP		21 08 12.9		
		Kamchatka.					
		h = 25 km (Ki,Um).					
		m = 6.3 (Up,Ki).					
"	6	Up	iP		21 18 54.9	C	
			iS		21 27 33.5		
					micr	sec	
			P	Z'	2.7	1.5	
			Mx	E	13	17	
			Mx	N	21	17	
			Mx	Z	33	16	
		Ki	iP		21 18 02.6	C	
			i		21 18 03.9		
			iS		21 25 57		
					micr	sec	
			P	Z'	1.3	1.5	
			Mx	E	13	15	
			Mx	N	9.2	12	
			Mx	Z	16	17	
		Sk	iP		21 18 38.9	C	
		Um	iP		21 18 26.9	C	
			i		21 18 27.6		
			iS		21 26 48		
		Ud	iP		21 18 59.0	C	
		De	iP		21 19 19.9	C	
			iPP		21 21 50.8		
		Kamchtka (h = N).					
		m = 6.9, M = 6.4 (Up,Ki).					
"	6	Up	iP		21 34 18.9		
		(cont.)					

1976 Jan.	6	(cont.)					
		Up			micr	sec	
			P	Z'	0.1	1.1	
		Ki	iP		21 33 28.0		
					micr	sec	
			P	Z'	0.1	0.9	
		Um	iP		21 33 53.2		
		Ud	iP		21 34 24.6		
		De	iP		21 34 45.6		
		Kamchatka (h = N).					
		m = 5.9 (Up,Ki).					
"	6	Up	iP		21 45 56.6		
		Ki	iP		21 45 04.2		
		Um	iP		21 45 28.7		
		Ud	iP		21 46 00.8		
		Kamchatka (h = N).					
"	6	Um	i(P)		21 48 06.7		
"	6	Up	iP		21 56 00.1	C	
			i		21 56 07.0		
			i		21 56 13.6		
					micr	sec	
			P	Z'	0.3	1.0	
			i	Z'	0.8	1.0	
			Mx	E	2.4	13	
			Mx	N	3.7	14	
			Mx	Z	3.8	12	
		Ki	iP		21 55 08.0	C	
			i		21 55 14.4		
					micr	sec	
			P	Z'	0.3	1.0	
			i	Z'	0.7	1.0	
			Mx	E	4.0	13	
			Mx	N	5.7	14	
			Mx	Z	3.3	13	
		Sk	iP		21 55 44.1		
		Um	iP		21 55 32.5	C	
			i		21 55 38.6		
		Ud	iP		21 56 04.3		
			i		21 56 10.9		
		De	iP		21 56 24.7	C	
			i		21 56 31.7		
			iPP		21 58 59.5		
		Kamchatka (h = N).					
		m = 6.7, M = 5.9 (Up,Ki).					
		Double P, the second larger onset arriving 6.6 sec after the first one.					
"	6	Up	iPKPl		22 13 50.4		
		Sk	iPKPl		22 13 43.1		
		(cont.)					

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 6 (cont.)

Um	iPKP1		22 13 38.4		
Ud	iPKP1		22 13 52.7		
De	iPKP2		22 14 07.8		

" 6

Up	iP		22 20 29.4		
Ud	iP		22 20 33.6		

Kamchatka.

" 6

Up	iP		22 28 23.1		C
	iS		22 37 02.0		
			micr	sec	
	P	Z'	1.2	1.1	
	Mx	E	3.7	14	
	Mx	N	9.1	19	
	Mx	Z	11	16	
Ki	iP		22 27 30.5		C
			micr	sec	
	P	Z'	0.8	0.8	
	Mx	E	5.4	16	
	Mx	N	5.1	14	
	Mx	Z	6.4	16	
Sk	iP		22 28 06.7		C
Um	iP		22 27 55.6		C
Ud	iP		22 28 26.5		C
De	iP		22 28 47.9		C

Kamchatka (h = N).
m = 6.9, M = 6.0 (Up,Ki).

" 6

Up	iP		22 34 49.8		
Ki	iP		22 33 57.1		
Um	iP		22 34 22.2		
Ud	iP		22 34 53.5		
De	iP		22 35 14.6		

Kamchatka (h = N).

" 6

Ki	iP		23 04 57.2		
	iS		23 07 30.7		
			micr	sec	
	P	Z'	0.7	2.3	
	Mx	N	2.3	12	
Sk	eP		23 04 32		
	iS		23 06 50.2		
Um	iP		23 05 17.6		
	iS		23 08 03.1		
Ud	iP		23 05 02.6		
De	iP		23 05 38.3		

Iceland (h = N).

" 6

Up	iP		23 31 04.6		
Um	iP		23 30 37.4		
Ud	iP		23 31 09.7		

Kamchatka (h = N).

1976
Jan. 6

Up	iP		23 44 40.3		
Um	iP		23 44 25.7		
Ud	iP		23 44 54.0		

Tsinghai, China (h = N).

" 7

Ud	iP		00 08 08.5		

Peru-Bolivia (h = 80 km).

" 7

Up	iP		00 23 23.1		
Ki	iP		00 23 08.9		
Um	iP		00 23 13.8		
	i		00 23 29.0		
Ud	iP		00 23 31.9		
De	iP		00 23 36.9		

Molucca Sea (h = 80 km).

" 7

Up	iP		00 33 17.1		C
	i		00 33 22.1		
	iPP		03 35 05.2		
			micr	sec	
	P	Z'	0.1	1.0	
	i	Z'	0.1	1.1	
	Mx	N	0.8	12	
Ki	iP		00 33 22.5		C
	i		00 33 30.2		
			micr	sec	
	P	Z'	0.1	1.0	
	Mx	E	1.9	11	
	Mx	N	1.7	12	
	Mx	Z	1.6	11	
Sk	iP		00 33 40.8		C
Um	iP		00 33 14.1		C
	i		00 33 19.2		
Ud	iP		00 33 32.9		C
	i		00 33 38.5		
De	iP		00 33 29.5		

Kashmir-India (h = 50 km).
m = 5.7, M = 5.1 (Up,Ki).

" 7

Up	iP		01 02 29.3		
Ki	iP		01 01 36.4		
Ud	iP		01 02 32.2		

Kamchatka.

" 7

Ki	iP		01 40 35.1		
Ud	iP		01 41 31.7		

Kamchatka.

" 7

Up	iP		02 07 36.5		
	i		02 07 49.4		
			micr	sec	
	P	Z'	0.7	1.4	
	Mx	N	2.7	11	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 7 (cont.)

Ki	iP		02 06 43.7	
			micr	sec
	P	Z'	0.4	1.4
	Mx	E	1.8	14
	Mx	N	2.0	15
	Mx	Z	2.5	14
Sk	eP		02 07 21	
Um	iP		02 07 08.6	
Ud	iP		02 07 40.7	
De	iP		02 08 01.2	

Kamchatka (h = N).
m = 6.4, M = 5.6 (Up,Ki).

" 7

Up	iP		02 13 27.7	
Ki	iP		02 12 34.2	
Ud	iP		02 13 32.4	

" 7

Up	iP		04 43 31.8	
			micr	sec
	P	Z'	0.2	1.0
Ki	iP		04 42 38.9	
	ipP		04 42 49.8	
			micr	sec
	P	Z'	0.2	1.0
Sk	eP		04 43 16	
Um	iP		04 43 03.7	
	ipP		04 43 24.5	
Ud	iP		04 43 35.3	
De	iP		04 43 56.2	

Kamchatka.
h = 35 km (Ki,Um).
m = 6.2 (Up,Ki).

" 7

Up	iPKP2		07 19 34.4	
Ki	iPKP1		07 19 01.7	
Ud	iPKP2		07 19 40.0	

South Island, New Zealand
(h = N).

" 7

Up	iP		08 01 57.0	
	ipP		08 02 05.9	
Ki	iP		08 01 16.2	
Um	iP		08 01 34.2	
Ud	iP		08 02 04.2	
De	iP		08 02 20.8	

Japan.
h = 30 km (Up).

" 7

Up	iP		08 09 35.6 C	
			micr	sec
	P	Z'	0.1	1.0
Ki	iP		08 08 43.0	
			micr	sec
	P	Z'	0.1	0.9

(cont.)

1976
Jan. 7 (cont.)

Um	iP		08 09 08.2	
Ud	iP		08 09 38.7	
	i		08 09 40.4	

Kamchatka (h = N).
m = 5.9 (Up,Ki).

" 7

Up	iP1		08 10 49.7	
Ki	iP1		08 09 57.0	
Um	iP1		08 10 21.8	
Ud	iP1		08 10 52.9	
	iP2		08 11 05.0	
De	iP2		08 11 26.2	

Kamchatka.

" 7

Up	iP		08 14 22.6	
Um	iP		08 13 54.7	
	i		08 14 05.7	
Ud	iP		08 14 26.0	

Kamchatka (h = N).

" 7

Up	iPKP1		08 17 56.9	
	i		08 18 12.3	
			micr	sec
	PKP1	Z'	0.1	0.6
Sk	iPKP1		08 17 50.0	
Um	iPKP1		08 17 45.1	
Ud	iPKP1		08 17 59.2	
	i		08 18 13.2	
De	iPKP1		08 18 07.9	
	i		08 18 22.3	

Kermadec Islands (h = N).

" 7

Um	iP		09 04 13.2	

Japan (h = 50 km).

" 7

Ud	iP		09 08 02.6	

Ryukyu Islands (h = 70 km).

" 7

Ki	iP		10 30 29.3	

" 7

Up	iP		10 56 59.5	
			micr	sec
	P	Z'	0.2	1.1
Ki	iP		10 56 07.0	
			micr	sec
	P	Z'	0.1	1.0
Um	iP		10 56 32.1	
Ud	iP		10 57 03.9	

Kamchatka (h = N).
m = 6.0 (Up,Ki).

" 7

Ki	iP		10 59 50.9	

" 7

Ki	iP		13 08 01.8	

Kamchatka (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Jan.	7	Up	iP		13 20 41.5	
		Ki	iP		13 20 43.9	
		Ud	iP		13 20 54.0	
		Sumatra (h = 55 km).				
"	7	Up	iP		13 47 34.4	
					micr	sec
			P	Z'	0.2	1.2
		Ki	iP		13 46 41.7	
					micr	sec
			P	Z'	0.2	1.1
		Sk	iP		13 47 18.8	
		Um	iP		13 47 06.7	
		Ud	iP		13 47 38.1	
		Kamchatka (h = 60 km).				
		m = 6.1 (Up,Ki).				
"	7	Ki	iP		18 43 30.6	
		Ud	iP		18 44 08.0	
			i		18 44 25.1	
		Ryukyu Islands (h = 60 km).				
"	7	Up	iP		23 44 59.4 C	
			iS		23 53 36	
					micr	sec
			P	Z'	1.0	1.0
			Mx	E	6.6	16
			Mx	N	15	16
			Mx	Z	24	18
		Ki	iP		23 44 06.5 C	
					micr	sec
			P	Z'	0.8	1.0
			Mx	E	8.5	14
			Mx	N	8.7	14
			Mx	Z	11	16
		Sk	iP		23 44 43.0 C	
		Um	iP		23 44 31.5 C	
			iS		23 52 45	
		Ud	iP		23 45 03.1 C	
		De	iP		23 45 23.9 C	
		Kamchatka (h = N).				
		m = 6.8, M = 6.2 (Up,Ki).				
"	8	Up	iP		00 29 51.4	
		Ki	iP		00 28 58.7	
		Um	iP		00 29 23.9	
		Ud	iP		00 29 54.8	
		Kamchatka (h = N).				
"	8	Ki	iP		03 44 11.7	
		Ud	iP		03 45 08.2	
		Kamchatka (h = N).				
"	8	Up	iP		06 32 46.5	
		Ki	iP		06 32 55.0	
		(cont.)				
1976 Jan.	8	(cont.)				
		Sk	iP		06 33 12.2	
		Um	iP		06 32 44.8	
		Ud	iP		06 33 03.1	
		Hindu Kush (h = 120 km).				
"	8	Up	iP		10 41 17.4	
			i		10 41 22.9	
			i		10 41 34.7	
					micr	sec
			P	Z'	0.1	1.0
			i	Z'	1.2	1.3
			Mx	E	2.5	15
			Mx	N	4.2	15
			Mx	Z	11	18
		Ki	iP		10 40 27.3	
			i		10 40 30.6	
			i		10 40 39.7	
					micr	sec
			P	Z'	0.6	1.1
			Mx	E	3.4	14
			Mx	N	4.0	17
			Mx	Z	4.8	17
		Sk	iP		10 41 06.6	
		Um	iP		10 40 52.1	
			i		10 40 55.9	
		Ud	iP		10 41 24.2	
			i		10 41 27.4	
			i		10 41 37.4	
		De	eP		10 41 46	
			i		10 41 47.9	
			i		10 41 57.8	
		Kamchatka (h = N).				
		m = 6.7, M = 5.8 (Up,Ki).				
"	8	Ki	iP		14 29 37.7	
		Um	iP		14 30 02.5	
		Ud	iP		14 30 34.2	
		Kamchatka (h = N).				
"	8	Up	iP		16 00 49.0 C	
			i		16 01 00.8	
					micr	sec
			P	Z'	0.5	1.1
		Ki	iP		15 59 56.6 C	
			i		16 00 08.2	
					micr	sec
			P	Z'	0.4	1.1
			Mx	E	2.5	16
			Mx	N	3.0	15
		Sk	iP		16 00 32.9	
		Um	iP		16 00 21.3 C	
			i		16 00 32.8	
		Ud	iP		16 00 53.1	
		De	iP		16 01 13.9	
		Kamchatka (h = N).				
		m = 6.5 (Up,Ki).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Jan.	8	Ki	iP		19 42 23.9
"	8	Up	iP		22 42 48.9
		Ki	iP		22 42 55.0
		Sk	iP		22 43 13.5
		Um	iP		22 42 46.9
		Ud	iP		22 43 05.7
		Kashmir-India (h = N).			
"	9	Ki	iP		01 29 55.2
		Um	iP		01 30 19.4
		Ud	eP		01 30 53
		Kamchatka (h = N).			
"	9	Ki	iP		03 50 16.9
			i		03 50 19.8
			i		03 50 26.9
			iS		03 52 53.8
					micr sec
			P	Z'	0.1 1.1
			i	Z'	0.2 1.4
		Um	iP		03 50 38.9
		Ud	iP		03 50 31.4
		Iceland (h = N).			
"	9	Ki	iS		06 15 21.5
		Um	iP		06 13 07.2
		Iceland (h = 10 km).			
"	9	Ki	iP		06 48 49.5
			iS		06 51 24.9
					micr sec
			P	Z'	0.2 1.5
		Um	iP		06 49 08.6
		Iceland (h = N).			
"	9	Up	iP		21 45 37.8
		Ki	iP		21 45 34.9
					micr sec
			P	Z'	0.2 1.0
		Sk	iP		21 45 49.8
		Um	iP		21 45 34.0
		Ud	iP		21 45 46.8
		De	iP		21 45 46.1
		Java (h = 100 km).			
"	10	Up	ePKP		00 13 27
			iPP		00 15 44.0
			iSKPl		00 16 36.5
					micr sec
			SKPl	Z'	3.0 2.4
		Ki	iPKP		00 13 11.8
					micr sec
			PKP	Z'	0.2 0.9
		Um	iPKP		00 13 16.4
		(cont.)			

1976					
Jan.	10	(cont.)			
		Um	i		00 13 19.8
			ipPKP		00 14 04.4
			iSKPl		00 16 24.3
		Ud	iPKP		00 13 28.7
			iPP		00 15 53.0
			iSKPl		00 16 40.9
		De	iPKP		00 13 36.7
			iSKPl		00 16 50.3
		New Hebrides Islands.			
		h = 170 km (Um).			
"	10	Up	iP		03 48 00.7
					micr sec
			P	Z'	0.1 1.1
		Ki	iP		03 47 07.5
					micr sec
			P	Z'	0.1 0.9
		Sk	iP		03 47 44.3
		Um	iP		03 47 32.0
		Ud	iP		03 48 03.8
		De	iP		03 48 25.2
		Kamchatka (h = N).			
		m = 5.9 (Up,Ki).			
"	10	Ud	iP		07 16 44.1
		De	iP		07 16 07.9
		Dodecanese Islands (h = 30 km).			
"	10	Up	ePl		09 10 13
			iP2		09 10 17.9
			ipP		09 10 21.6
					micr sec
			P2	Z'	0.1 1.1
			pP	Z'	0.2 1.0
			Mx	E	2.2 27
			Mx	N	3.0 32
		Ki	iPl		09 09 31.9
			iP2		09 09 37.3
			ipP		09 09 40.2
					micr sec
			P2	Z'	0.1 1.0
			pP	Z'	0.2 1.5
			Mx	E	2.2 16
			Mx	N	1.6 21
		Sk	iP2		09 09 51.0
			ipP		09 09 54.8
		Um	iP2		09 09 59.3
			ipP		09 10 02.8
			iS		09 19 05
		Ud	iPl		09 10 11.1
			iP2		09 10 16.1
			ipP		09 10 20.1
		De	ePl		09 10 28
			ipP		09 10 34.3
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 10 (cont.)
Oregon.
h = 30 km (Up,Ki,Ud).
m = 5.8, M = 5.5 (Up,Ki).

"	10	Up	iP	12 59 22.5	C
			iS	13 06 06	
				micr sec	
			P Z'	0.3 0.9	
			Mx E	36 10	
			Mx N	6.9 11	
			Mx Z	34 10	
		Ki	iP	12 59 11.8	C
			iLgl	13 13 27.7	
				micr sec	
			P Z'	0.1 0.9	
			Mx E	9.6 11	
			Mx N	9.0 11	
			Mx Z	9.3 10	
		Sk	iP	12 59 39.7	
		Um	iP	12 59 10.8	C
			iS	13 05 21	
			iLgl	13 13 22.7	
		Ud	iP	12 59 38.4	C
		De	iP	12 59 43.1	

Sinkiang, China (h = 35 km).
m = 5.9, M = 6.3 (Up,Ki).

"	10	Up	iPKPl	13 44 46.1	C
				micr sec	
			PKPl Z'	0.2 1.0	
		Ki	e(PKP)	13 44 23	
		Sk	iPKPl	13 44 38.5	C
		Um	e(PKP)	13 44 30	
			iPKPl	13 44 35.8	
		Ud	iP	13 44 48.0	C
		De	iP	13 44 56.9	C

Kermadec Islands (h = N).

"	10	Ud	iP	15 19 06.5

Sinkiang, China (h = N).

"	10	Ki	iP	22 52 51.8

Kamchatka (h = N).

"	10	Up	iP	23 01 58.4	
				micr sec	
			P Z'	0.1 1.1	
		Ki	iP	23 01 06.4	
				micr sec	
			P Z'	0.1 1.0	
		Um	iP	23 01 31.7	
		Ud	iP	23 02 04.5	

Kamchatka (h = N).
m = 5.8 (Up,Ki).

1976
Jan. 11

Up	iP	10 59 34.5	
		micr sec	
	P Z'	0.1 1.0	
Ki	iP	10 58 41.2	
Ud	iP	10 59 38.2	

Kamchatka (h = 60 km).

"	11	Up	iP	18 44 58.8
		Ki	iP	18 45 06.6
		Um	iP	18 44 56.8
		Ud	iP	18 45 15.0
		De	iP	18 45 12.3

Afghanistan-USSR (h = 180 km).

"	12	Up	iP	04 47 03.6
		Ki	iP	04 46 10.7
		Ud	iP	04 47 06.8

Kamchatka (h = N).

"	12	Ud	iPKPl	07 14 41.6
		De	iPKPl	07 14 53.1

Fiji Islands (h = 630 km).

"	12	Up	iP	12 50 57.9	
			i	12 51 12.9	
				micr sec	
			i Z'	0.2 1.3	
		Ki	iP	12 50 26.1	C
			i	12 50 42.9	
				micr sec	
			P Z'	0.1 0.7	
			i Z'	0.1 0.8	
		Um	iP	12 50 39.0	C
			i	12 50 56.0	
		Ud	iP	12 51 02.8	
			i	12 51 19.4	

Volcano Islands (h = 110 km).
m = 5.6 (Up,Ki).

"	12	Up	eP	17 56 08
		Ki	iP	17 57 08.8
		Um	iP	17 56 36.0
		Ud	iP	17 56 18.4

Cyprus (h = N).

"	12	Um	iPKPl	18 44 40.6
		Ud	iPKP2	18 44 57.6

Kermadec Islands (h = N).

"	12	Up	iPKPl	19 55 07.7	
			i	19 55 31.4	
				micr sec	
			i Z'	0.1 1.1	
		Um	iPKPl	19 54 57.0	
		Ud	iPKPl	19 55 11.4	

Kermadec Islands (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 12 Ki iP 20 26 41.9
Ud iP 20 25 51.6
De iP 20 25 25.7
Cyprus (h = 20 km).

" 12 Ud iP 22 47 41.1
Turkey (h = 35 km).

" 13 Ki iP1 04 37 55.8
iP2 04 38 05.5
micr sec
P2 Z' 0.6 1.8
Um eP1 04 38 11
iP2 04 38 18.1
Ud iP2 04 38 11.0
Iceland (h = N).

" 13 Ud iPKP1 11 35 40.5
Kermadec Islands (h = N).

" 13 Up iP 13 33 08.3 D
iS 13 36 24
micr sec
P Z' 14 2.1
Mx E 80 15
Mx N 59 17
Mx Z 87 15
Ki iP 13 32 37.7 D
iS 13 35 26
micr sec
P Z' 15.3 1.7
Mx E 139 12
Mx N 223 12
Mx Z 153 15
Sk iP 13 32 12.9 D
Um iP 13 32 53.6
Ud iP 13 32 43.3
De iP 13 33 18.3
Iceland (h = N).
m = 7.1 (Up,Ki).

" 13 Ki eP1 16 29 41
ipP 16 29 48.2
Um ipP 16 30 01.5
Iceland (h = N).

" 13 Ki iP 17 03 37.1
i 17 03 44.1
Um iP 17 03 58.3
Probably Iceland.

" 14 Up iPKP1 08 44 51.3
Sk iPKP1 08 44 45.1
Ud iPKP1 08 44 52.6
De iPKP1 08 45 02.1

1976
Jan. 14 Up iPKP1 08 47 44.2 C
micr sec
PKP1 Z' 0.3 1.0
Ki iPKP1 08 47 25.4
Sk iPKP1 08 47 37.2
Um iPKP1 08 47 31.9
Ud iPKP1 08 47 46.1 C
De iPKP1 08 47 54.9 C
Kermadec Islands (h = 60 km).

" 14 Ki eP 09 08 33
Sk eP 09 08 04
Um iP 09 08 44.5
Ud iP 09 08 33.8
Iceland (h = 10 km).

" 14 Up iP 10 35 52.4
i 10 35 57.4
Ki iP 10 37 06.1
Sk iP 10 36 33.1
Um iP 10 36 30.9
Ud iP 10 36 01.1
Greece (h = 40 km).

" 14 Up iP 11 05 29.9
micr sec
P Z' 0.1 1.1
Ki iP 11 06 08.2
Sk iP 11 06 02.6
Um iP 11 05 46.4
i 11 05 58.4
Ud iP 11 05 41.9
De iP 11 05 23.5
Gulf of Aden (h = N).

" 14 Up iP 11 56 41.0
i 11 57 26.1
iS 11 58 45.1
iLg2 12 00 03.1
Ki iLg2 12 04 05.2
Sk iLg2 12 02 28.9
Um iS 12 00 11.6
iLg2 12 01 48.4
Ud iLg2 12 00 36.2
De iP 11 56 16.2
East-central Europe.
Origin time = 11 54 01.

" 14 Ud iSg1 13 28 59.2
Coast of southwest Norway, 58.3°N, 6.3°E.
Origin time = 13 26 49.
M_L = 2.1 (Ud).
By combination with Bergen and Kongsberg readings.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
Jan.	14	Up	iP		15 41 06.1	
					micr	sec
			P	Z'	0.1	0.9
		Ki	iP		15 40 31.9	
					micr	sec
			P	Z'	0.1	0.9
		Sk	iP		15 41 03.2	
		Um	iP		15 40 46.5	C
		Ud	iP		15 41 13.7	C
		De	iP		15 41 26.7	

Japan (h = 410 km).
m = 5.4 (Up,Ki).

"	14	Ud	iP		16 13 27.8	
"	14	Up	iPKPl		16 14 00.6	
		Sk	iPKPl		16 13 52.8	
		Ud	iPKPl		16 14 02.0	
		De	iPKPl		16 14 22.6	
"	14	Ki	iPKP		16 15 35.5	
		Um	iPKP		16 15 43.0	

Tonga Islands (h = N).

"	14	Up	iPdiff		16 14 06	
			iPKPl		16 16 08.6	
			i		16 16 13.4	
			i		16 16 21.5	
					micr	sec
			PKPl	Z'	0.1	0.9
			i	Z'	0.3	0.9
			i	Z'	5.6	1.2
			Mx	E	164	20
			Mx	N	179	22
		Ki	iPKPl		16 15 51.7	
			i		16 16 00.6	
			i		16 16 08.7	
			i		16 16 38.9	
			iSKP		16 19 44.5	
					micr	sec
			PKPl	Z'	0.2	0.9
			i	Z'	0.4	1.0
			i	Z'	1.6	1.4
		Sk	iPKPl		16 16 00.4	
			i		16 16 06.0	
			i		16 16 13.5	
		Um	iPKPl		16 15 55.9	
			i		16 16 01.0	
			i		16 16 08.9	
		Ud	iPKPl		16 16 10.4	
		De	iPKPl		16 16 18.6	
			i		16 16 23.6	

Kermadec Islands (h = 70 km).
M = 8.0 (Wiechert Up).
Multiple event with successively increasing amplitudes.

1976						
Jan.	14	Up	iP		16 24 33.5	
"	14	Up	iPKPl		16 26 40.1	
					micr	sec
			PKPl	Z'	0.2	1.0
		Sk	iPKPl		16 26 32.3	
			i		16 26 43.0	
		Um	iPKPl		16 26 28.1	
		Ud	iPKPl		16 26 40.3	
		De	iPKPl		16 26 48.6	
			i		16 27 01.0	

Kermadec Islands.

"	14	Up	iX		16 28 08.0	
			i		16 28 16.2	
					micr	sec
			X	Z'	0.6	1.5
			i	Z'	0.6	1.4
		Sk	iPKPl		16 27 53.4	
			i		16 28 04.1	
		Um	iPKPl		16 27 50.9	
			i		16 28 00.6	
		Ud	iPKPl		16 28 02.7	
			iX		16 28 11.9	
		De	iPKPl		16 28 09.6	

Kermadec Islands.

"	14	Up	iP		16 30 00.2	
		Sk	iPKPl		16 29 54.6	
		Ud	iPKPl		16 30 04.0	
		De	iPKPl		16 30 11.4	

Kermadec Islands.

"	14	Up	iPKPl		16 31 48.3	
					micr	sec
			PKPl	Z'	0.8	1.4
		Sk	iPKPl		16 31 41.2	
		Um	iPKPl		16 31 36.2	
		Ud	iPKPl		16 31 49.9	
		De	iPKPl		16 31 56.4	

Kermadec Islands.

"	14	Ud	iPKPl		16 36 51.1	
		De	iPKPl		16 36 59.9	

Kermadec Islands.

"	14	Sk	iPKPl		16 40 52.4	

Kermadec Islands.

"	14	Sk	ePKPl		16 42 38	

Kermadec Islands.

"	14	Up	iPKPl		16 45 22.9	
		Sk	iPKPl		16 45 15.3	
			i		16 45 28.6	
		Um	iPKPl		16 45 10.3	
		Ud	iPKPl		16 45 24.4	
		De	iPKPl		16 45 33.5	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Jan.	14	Up	iPKPl		16 46	51.0
		Ud	iPKPl		16 46	52.9
		De	iPKPl		16 47	01.2
		Kermadec Islands.				
"	14	Sk	iPKPl		16 47	38.0
		Um	iPKPl		16 47	32.9
		Ud	iPKPl		16 47	46.6
		De	iPKPl		16 47	54.1
		Kermadec Islands.				
"	14	Up	ePKPl		16 50	20
		Sk	iPKPl		16 50	12.4
		Ud	iPKPl		16 50	21.0
		De	iPKPl		16 50	30.0
		Kermadec Islands.				
"	14	Sk	iPKPl		17 04	20.4
			i		17 04	30.4
		Ud	iPKPl		17 04	28.9
		De	iPKPl		17 04	37.6
		Kermadec Islands.				
"	14	Up	iPKPl		17 07	10.5
			i		17 07	12.7
			i		17 07	18.5
			iPP		17 10	51.8
					micr	sec
			PKPl	Z'	0.1	0.7
			i	Z'	0.2	0.8
			i	Z'	2.9	1.1
			Mx	E	64	20
			Mx	N	139	22
		Ki	iPKP		17 06	54.1
					micr	sec
			PKP	Z'	0.2	1.0
		Sk	iPKPl		17 07	03.0
			i		17 07	10.9
		Um	i(PKP)		17 06	57.8
			i		17 07	05.7
		Ud	iPKPl		17 07	12.4
			i		17 07	14.3
			i		17 07	19.6
		De	iPKPl		17 07	20.0
		Kermadec Islands (h = N).				
		M = 7.8 (Wiechert Up).				
"	14	Up	iPKPl		17 14	28.6
			i		17 14	34.4
					micr	sec
			PKPl	Z'	0.1	0.9
			i	Z'	0.1	0.8
		Sk	iPKPl		17 14	21.4
		Ud	iPKPl		17 14	29.8
		De	iPKPl		17 14	39.6
		Kermadec Islands.				

1976 Jan.	14	Up	iPKPl		17 20	58.5
			i		17 21	03.6
		Sk	iPKPl		17 20	53.4
			i		17 21	04.6
		Ud	iPKPl		17 21	00.8
		De	iPKPl		17 21	08.3
		Kermadec Islands.				
"	14	Up	iPKPl		17 23	09.8
					micr	sec
			PKPl	Z'	0.1	0.9
		Sk	iPKPl		17 23	02.6
			i		17 23	15.3
		Um	iPKPl		17 22	57.9
		Ud	iPKPl		17 23	11.4
		De	iPKPl		17 23	20.4
			i		17 23	31.8
		Kermadec Islands.				
"	14	Up	iPKPl		17 26	16.7
		Ud	iPKPl		17 26	18.9
		Kermadec Islands.				
"	14	Up	iPKPl		17 30	21.6
			i		17 30	30.5
		Sk	iPKPl		17 30	13.9
			i		17 30	25.0
		Um	iPKPl		17 30	07.4
		Ud	iPKPl		17 30	23.2
			i		17 30	32.7
		Kermadec Islands.				
"	14	Up	iPKPl		17 31	22.2
		Sk	iPKPl		17 31	14.0
		Um	iPKPl		17 31	10.2
		Ud	iPKPl		17 31	23.9
		De	iPKPl		17 31	33.3
		Kermadec Islands.				
"	14	Up	i		17 35	26.7
		Sk	iPKPl		17 35	14.4
		Ud	iPKPl		17 35	23.3
			i		17 35	31.7
		Kermadec Islands.				
"	14	Sk	iPKPl		17 37	41.2
		Um	iPKPl		17 37	37.0
		Ud	iPKPl		17 37	49.8
		Kermadec Islands.				
"	14	Up	iPKP		17 38	13.4
		Ud	iPKP		17 38	14.0
"	14	Up	iPKPl		17 39	47.0
			i		17 39	58.1

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 14 (cont.)

Up			micr	sec
	i	Z'	0.1	1.1
Sk	iPKPl		17 39	39.3
Um	iPKPl		17 39	35.3
Ud	iPKPl		17 39	48.7
De	iPKPl		17 39	56.9
Kermadec Islands.				

" 14

Up	i		17 43	06.3
Ud	iPKPl		17 43	04.8
De	iPKPl		17 43	12.6
Kermadec Islands.				

" 14

Up	iPKPl		17 47	23.8
Sk	iPKPl		17 47	16.9
Um	iPKPl		17 47	12.8
Ud	iPKPl		17 47	25.5
Kermadec Islands.				

" 14

Sk	iPKPl		17 57	19.1
Ud	iPKPl		17 57	28.8
Kermadec Islands.				

" 14

Up	iPKP		17 58	56.5
	i		17 59	00.7
			micr	sec
	PKP	Z'	0.1	0.6
Sk	iPKPl		17 58	48.6
Um	iPKPl		17 58	45.9
Ud	iPKPl		17 58	58.2
	i		17 59	08.6
De	iPKPl		17 59	06.6
Kermadec Islands.				

" 14

Up	iPKPl		18 02	04.6
Ud	iPKPl		18 02	06.5
Kermadec Islands.				

" 14

Up	iPKPl		18 04	02.2
Sk	ePKPl		18 03	55
De	iPKPl		18 04	11.8
Kermadec Islands.				

" 14

Up	iPKPl		18 04	59.2
	i		18 05	12.3
			micr	sec
	PKPl	Z'	0.1	0.9
	i	Z'	0.7	1.1
Ki	iPKPl		18 04	38.6
	iPKP		18 04	43.5
Sk	iPKPl		18 04	52.7
	i		18 05	05.6
Um	iPKPl		18 04	47.5
Ud	iPKP		18 04	58.0

(cont.)

1976
Jan. 14 (cont.)

Ud	iPKPl		18 05	01.9
De	iPKPl		18 05	09.0
	i		18 05	22.2
Kermadec Islands (h = N).				

" 14

Up	iPKPl		18 08	19.0
	i		18 08	23.4
			micr	sec
	PKPl	Z'	0.1	1.0
	i	Z'	0.2	0.9
Ki	iPKP		18 08	02.3
Sk	iPKPl		18 08	11.8
Um	iPKPl		18 08	06.5
Ud	iPKPl		18 08	20.6
	i		18 08	24.6
De	iPKPl		18 08	29.6
Kermadec Islands.				

" 14

Up	iPKPl		18 12	34.4
Sk	iPKPl		18 12	27.1
Ud	iPKPl		18 12	35.7
Kermadec Islands.				

" 14

Sk	iP		18 16	08.7

" 14

Up	iPKPl		18 17	39.0
			micr	sec
	PKPl	Z'	0.1	1.0
Ki	ePKP		18 17	22
Sk	iPKPl		18 17	30.7
Um	iPKPl		18 17	26.4
Ud	iPKPl		18 17	40.5
De	iPKPl		18 17	49.2
Kermadec Islands.				

" 14

Sk	iPKPl		18 23	39.2
Ud	iPKPl		18 23	47.4
De	iPKPl		18 23	55.9
Kermadec Islands.				

" 14

Sk	iPKPl		18 26	28.4
Ud	ePKPl		18 26	40
Kermadec Islands.				

" 14

Ud	iP		18 32	31.6

" 14

Up	i		18 35	22.1
Sk	ePKPl		18 35	06.3
Ud	iPKPl		18 35	15.7
Kermadec Islands.				

" 14

Up	iPKPl		18 36	40.2
			micr	sec
	PKPl	Z'	0.2	0.8

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 14 (cont.)

Ki	iPKPl	18 36 18.8
	iPKP	18 36 22.9
Sk	iPKPl	18 36 33.5
Um	iPKPl	18 36 28.5
	i	18 36 37.9
Ud	iPKP	18 36 40.1
	iPKPl	18 36 42.6
De	iPKPl	18 36 51.4

Kermadec Islands.

" 14

Sk	iPKPl	18 45 48.9
Ud	ePKPl	18 45 59

Kermadec Islands.

" 14

Up	i	18 47 49.3
	iX	18 47 59.0
Sk	iPKPl	18 47 33.6
	i	18 47 39.3
Um	ePKPl	18 47 30
Ud	iPKPl	18 47 42.7
	iX	18 48 00.3
De	iX	18 48 10.0

Kermadec Islands.

" 14

Up	iPKPl	18 50 44.6
Ud	iPKPl	18 50 45.6

Kermadec Islands.

" 14

Up	iPKPl	18 54 15.0
Sk	iPKPl	18 54 07.9
Ud	iPKPl	18 54 17.3

Kermadec Islands.

" 14

Up	iPKPl		18 54 28.9
			micr sec
	PKPl	Z'	0.3 1.0
Ki	ePKP		18 54 16
Sk	iPKPl		18 54 21.2
Um	iPKPl		18 54 16.9
	i		18 54 25.0
Ud	iPKPl		18 54 30.4
De	iPKPl		18 54 39.9

Kermadec Islands (h = 35 km).

" 14

Ud	iP	18 58 57.0
	i	18 59 12.9

" 14

Up	ePKPl	19 04 14
Ud	iPKPl	19 04 15.2

Kermadec Islands.

" 14

Up	iPKP	19 10 06.2
	iPKPl	19 10 08.4

(cont.)

1976
Jan. 14 (cont.)

Up			micr sec
	PKPl	Z'	0.3 1.3
Ki	ePKPl		19 09 47
	i		19 10 05.9
Sk	iPKPl		19 10 01.4
	i		19 10 12.1
Um	iPKPl		19 09 56.9
	i		19 10 06.7
Ud	iPKP		19 10 07.2
	iPKPl		19 10 10.7
	i		19 10 22.3
De	iPKPl		19 10 18.9

Kermadec Islands (h = N).

" 14

Up	i	19 13 48.3
Sk	iPKPl	19 13 34.4
Um	i	19 13 37.5
Ud	iPKPl	19 13 43.2

Kermadec Islands.

" 14

Sk	iPKPl	19 17 49.6
Um	ePKPl	19 17 46
Ud	ePKPl	19 17 59

Kermadec Islands.

" 14

Up	iPKPl		19 19 44.9
	i		19 20 01.6
			micr sec
	i	Z'	0.1 1.1
Sk	iPKPl		19 19 37.3
	i		19 19 53.5
Um	iPKPl		19 19 32.3
Ud	iPKPl		19 19 46.3
	i		19 20 02.7
De	iPKPl		19 19 55.0

Kermadec Islands.

" 14

Up	iX1	19 22 21.3
	iX2	19 22 32.2
Sk	iPKPl	19 22 11.0
Um	iX1	19 22 10.5
Ud	iPKPl	19 22 20.7
De	iX2	19 22 40.1

Kermadec Islands.

" 14

Up	iPKPl		19 41 32.7
			micr sec
	PKPl	Z'	0.1 1.0
Ki	ePKP		19 41 15
Sk	iPKPl		19 41 25.1
Um	iPKPl		19 41 20.8
Ud	iPKPl		19 41 33.7
De	iPKPl		19 41 41.2

Kermadec Islands.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 14 Ud iP 19 47 04.7
i 19 47 06.2

" 14 Ud iP 19 56 01.7

" 14 Ud iP 20 06 03.8

" 14 Up iPKPl 20 07 02.6
micr sec
PKPl Z' 0.1 1.0
Ki ePKPl 20 06 42
Sk iPKPl 20 06 55.7
Um iPKPl 20 06 50.4
Ud iPKPl 20 07 04.7
De iPKPl 20 07 13.1
Kermadec Islands (h = N).

" 14 Up iPKPl 20 10 12.4
Sk iPKPl 20 10 04.2
Um iPKPl 20 09 58.0
i 20 10 08.8
Ud iPKPl 20 10 14.3
i 20 10 24.9
De iPKPl 20 10 23.7
Kermadec Islands.

" 14 Ud iP 20 23 11.3
i 20 23 24.3

" 14 Up iPKP2 20 27 38.5
Sk iPKPl 20 27 28.0
Ud iPKPl 20 27 38.0
De iPKPl 20 27 46.6
Kermadec Islands.

" 14 Up iPKPl 20 30 08.8
micr sec
PKPl Z' 0.1 1.1
Ki ePKPl 20 29 47
Sk iPKPl 20 30 01.7
Um iPKPl 20 29 55.5
i 20 30 05.2
Ud iPKPl 20 30 10.0
De iPKPl 20 30 18.4
Kermadec Islands (h = N).

" 14 Up iPKPl 20 40 15.6
micr sec
PKPl Z' 0.1 0.9
Ki iPKPl 20 39 50.4
Sk iPKPl 20 40 08.2
Um iPKPl 20 40 02.9
Ud iPKPl 20 40 17.7
De iPKPl 20 40 26.3
Kermadec Islands (h = N).

1976
Jan. 14 Sk ePKPl 20 46 31
Ud iPKPl 20 46 40.3
Kermadec Islands.

" 14 Ud iP 20 50 57.3

" 14 Up iPKPl 21 10 56.7
Sk iPKPl 21 10 50.6
Um iPKPl 21 10 43.8
Ud iPKPl 21 10 58.2
i 21 11 11.0
i 21 11 25.5
De iPKPl 21 11 07.6
Kermadec Islands (h = N).

" 14 Ud iP 21 14 56.1

" 14 Up iPKP 21 15 42.4
Ud iPKP 21 15 46.6
Kermadec Islands.

" 14 Ud iPKPl 21 19 00.1
De ePKPl 21 19 10
Kermadec Islands.

" 14 Up iPKP2 21 51 14.4
i 21 51 23.6
Sk iPKPl 21 51 01.3
Um iPKPl 21 50 58.5
Ud iPKPl 21 51 12.5
De iPKPl 21 51 21.4
Kermadec Islands (h = N).

" 14 Up iPKPl 21 53 02.2
Sk i 21 53 08.0
Um iPKPl 21 52 50.9
Ud iPKPl 21 53 04.6
Kermadec Islands.

" 14 Um i 21 55 17.2
Ud iP 21 55 43.9
Japan (h = 50 km).

" 14 Ud iPKPl 21 57 24.9
De iPKPl 21 57 34.7
Kermadec Islands.

" 14 Up iPKPl 22 04 28.3
micr sec
PKPl Z' 0.1 1.0
Sk iPKPl 22 04 23.0
Um iPKPl 22 04 17.5
Ud iPKPl 22 04 30.6
De iPKPl 22 04 40.7
Kermadec Islands.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Jan.	14	Up	iPKPl		22 06 01.6	
		Sk	iPKPl		22 05 53.4	
		Um	iPKPl		22 05 48.2	
		Ud	iPKPl		22 06 02.4	
		Kermadec Islands.				
"	14	Sk	ePKPl		22 12 37	
		Ud	iPKPl		22 12 42.3	
		Kermadec Islands.				
"	14	Um	iPKPl		22 39 29.6	
		Ud	iPKPl		22 39 43.7	
		Kermadec Islands.				
"	14	Ud	iPKPl		22 42 57.8	
		De	iPKPl		22 43 06.0	
		Kermadec Islands.				
"	14	Sk	iPKPl		22 44 36.2	
		Um	iPKPl		22 44 31.4	
		Ud	iPKPl		22 44 43.6	
		Kermadec Islands.				
"	14	Up	iPKPl		22 47 30.9	
					micr	sec
			PKPl	Z'	0.1	1.0
		Ki	iPKPl		22 47 08.4	
		Sk	iPKPl		22 47 22.9	
		Um	iPKPl		22 47 18.0	
		Ud	iPKPl		22 47 31.8	
		De	iPKPl		22 47 40.5	
		Kermadec Islands.				
"	14	Up	ePKPl		22 55 21	
		Sk	iPKPl		22 55 13.6	
		Um	iPKPl		22 55 08.4	
		Ud	iPKPl		22 55 22.0	
		De	iPKPl		22 55 31.7	
		Kermadec Islands.				
"	14	Up	iPKPl		23 03 21.6	
			i		23 03 26.3	
			i		23 03 34.9	
			iPP		23 06 57.2	
					micr	sec
			PKPl	Z'	0.1	1.1
			i	Z'	0.2	1.0
			i	Z'	0.3	1.0
			Mx	E	3.2	17
			Mx	N	4.1	19
			Mx	Z	6.6	21
		Ki	ePKPl		23 03 02	
					micr	sec
			Mx	E	3.7	20
			Mx	N	4.8	19
			Mx	Z	5.8	21
		(cont.)				

1976 Jan.	14	(cont.)		
		Sk	iPKPl	23 03 14.9
			i	23 03 26.3
		Um	iPKPl	23 03 10.0
			iPP	23 06 34.3
		Ud	iPKP	23 03 16.5
			iPKPl	23 03 24.2
		De	iPKPl	23 03 33.5
			i	23 03 44.7
		Kermadec Islands (h = 30 km).		
		M = 6.4 (Up,Ki).		
"	14	Ud	iPKPl	23 14 32.8
		De	iPKPl	23 14 41.6
		Kermadec Islands.		
"	14	Up	iPKPl	23 16 47.5
		Sk	iPKPl	23 16 40.2
		Um	iPKPl	23 16 35.1
		Ud	iPKPl	23 16 49.1
		Kermadec Islands.		
"	14	Up	iPKPl	23 24 16.7
		Sk	iPKPl	23 24 09.0
		Um	iPKPl	23 24 05.2
		Ud	iPKPl	23 24 18.3
		De	iPKPl	23 24 27.6
		Kermadec Islands.		
"	14	Up	iPKP2	23 33 24.3
		Sk	iPKPl	23 33 13.1
		Um	iPKPl	23 33 08.8
			i	23 33 12.7
		Ud	iPKPl	23 33 21.8
		De	iPKP2	23 33 40.4
		Kermadec Islands.		
"	14	Up	iPKPl	23 51 41.0
		Sk	il	23 51 55.5
		Um	iPKPl	23 51 27.0
		Ud	iPKPl	23 51 42.3
			il	23 52 04.7
		De	il	23 52 14.0
		Kermadec Islands.		
"	15	Up	iP	00 05 07.6
		Ud	ePKPl	00 05 20
			il	00 05 29.1
		De	il	00 05 37.3
		Kermadec Islands.		
"	15	Ki	eP	00 19 18
			iS	00 21 53.0
		Sk	eP	00 18 52
		Um	iP	00 19 32.3
		Iceland (h = 10 km).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 15 Up il 00 48 18.8
Sk ePKPl 00 48 05
Um iPKPl 00 47 57.9
Ud iPKPl 00 48 11.8
il 00 48 20.8
De il 00 48 29.1
Kermadec Islands.

" 15 Up iPKPl 01 05 38.0
i 01 05 58.6
micr sec
i Z' 0.2 1.2
Mx E 1.2 20
Mx N 2.1 20
Mx Z 4.3 21
Ki micr sec
Mx E 1.1 20
Mx N 1.1 20
Sk iPKPl 01 05 31.5
Um iPKPl 01 05 26.5
Ud iPKPl 01 05 40.9
iPKP2 01 05 44.0
De iPKP2 01 05 54.1
i 01 06 04.7
Kermadec Islands (h = N).
M = 5.9 (Up,Ki).

" 15 Sk iPKPl 01 20 36.9
Um iPKPl 01 20 32.9
Ud iPKPl 01 20 45.9
De iPKPl 01 20 54.8
Kermadec Islands.

" 15 Sk ePKPl 01 22 42
Um ePKPl 01 22 39
Ud iPKPl 01 22 50.7
De iPKPl 01 22 58.3
Kermadec Islands.

" 15 Up iPKPl 01 36 29.8
Sk iPKPl 01 36 22.1
Um iPKP 01 36 17.1
Ud iPKPl 01 36 31.6
De iPKPl 01 36 41.0
Kermadec Islands.

" 15 Up ePKPl 01 43 12
Sk iPKPl 01 43 03.5
Um iPKPl 01 42 58.7
Ud iPKPl 01 43 12.6
De iPKPl 01 43 21.3
Kermadec Islands.

" 15 Up iPKP 01 53 47.2
(cont.)

1976
Jan. 15 (cont.)
Sk iPKPl 01 53 41.9
Um iPKPl 01 53 37.3
Ud iPKPl 01 53 51.9
Kermadec Islands.

" 15 Up iPKPl 02 14 29.4
micr sec
PKPl Z' 0.3 1.5
Sk iPKPl 02 14 23.0
Um iPKPl 02 14 17.3
Ud iPKPl 02 14 31.6
De iPKPl 02 14 40.7
Kermadec Islands (h = N).

" 15 Up iPKPl 02 16 11.1
Sk iPKPl 02 16 02.0
Um iPKPl 02 15 59.8
Ud iPKPl 02 16 13.4
De iPKPl 02 16 19.5
Kermadec Islands.

" 15 Up iPKPl 02 19 50.6
i 02 20 07.9
micr sec
i Z' 0.1 1.0
Mx N 2.7 19
Mx Z 3.4 18
Ki micr sec
Mx N 2.3 19
Mx Z 1.7 19
Sk iPKPl 02 19 43.9
Um iPKPl 02 19 39.3
i 02 19 53.5
Ud iPKPl 02 19 53.6
i 02 20 08.3
De iPKPl 02 20 02.3
i 02 20 14.0
Kermadec Islands (h = N).
M = 6.1 (Up,Ki).

" 15 Sk iPKPl 02 22 44.8
Um ePKPl 02 22 40
Kermadec Islands.

" 15 Up iPKPl 02 24 53.2
i 02 25 08.3
Sk iPKPl 02 24 43.3
Um iPKPl 02 24 40.2
Ud iPKPl 02 24 54.9
i 02 25 16.3
De iPKPl 02 25 03.8
Kermadec Islands (h = N).

" 15 Up iPKPl 02 53 28.0
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 15 (cont.)

Sk	iPKPl	02 53 22.6	
Um	iPKPl	02 53 17.8	
Ud	iPKPl	02 53 31.8	
De	iPKPl	02 53 40.5	
	i	02 53 50.9	

Kermadec Islands.

" 15

Sk	iPKPl	03 05 13.8	
Um	iPKPl	03 05 08.8	
Ud	ePKPl	03 05 24	

Kermadec Islands.

" 15

Sk	iPKPl	03 26 23.2	
Um	ePKPl	03 26 18	
Ud	iPKPl	03 26 32.1	

Kermadec Islands.

" 15

Up	i	03 45 03.7	
Sk	ePKPl	03 44 36	
Um	i(PKP)	03 44 29.1	
Ud	iPKPl	03 44 46.0	

Kermadec Islands.

" 15

Up	iPKPl	03 46 18.3	
Sk	ePKPl	03 46 13	
Um	iPKPl	03 46 06.8	
Ud	iPKPl	03 46 20.2	

Kermadec Islands.

" 15

Up	iPKPl	03 49 51.6	
		micr	sec
	PKPl	Z' 0.1	1.2
	Mx	E 1.6	17
	Mx	N 3.2	20
	Mx	Z 5.4	20
Ki	ePKP	03 49 34	
		micr	sec
	Mx	E 1.8	18
	Mx	N 3.5	19
	Mx	Z 3.4	19
Sk	iPKPl	03 49 42.9	
Um	iPKPl	03 49 38.3	
Ud	iPKPl	03 49 52.7	
	i	03 49 58.0	
De	iPKPl	03 50 01.1	

Kermadec Islands (h = N).
M = 6.2 (Up,Ki).

" 15

Ud	iP	03 58 45.0	

" 15

Up	iPKPl	03 59 46.3	
Sk	iPKPl	03 59 39.2	
Um	ePKPl	03 59 37	
Ud	iPKPl	03 59 48.5	

Kermadec Islands.

1976
Jan. 15

Up	iPKP	04 01 29.5	
	i	04 01 33.6	
		micr	sec
	Mx	E 2.6	18
	Mx	N 1.4	17
	Mx	Z 3.1	17
Ki		micr	sec
	Mx	E 1.5	16
	Mx	N 4.3	20
	Mx	Z 4.8	18
Sk	iPKPl	04 01 24.8	
Um	iPKPl	04 01 19.3	
	i	04 01 20.4	
Ud	iPKPl	04 01 34.0	
De	iPKPl	04 01 43.3	

Kermadec Islands (h = N).
M = 6.2 (Up,Ki).

" 15

Up	iPKPl	04 08 15.7	
	i	04 08 23.3	
		micr	sec
	PKPl	Z' 0.2	0.9
	Mx	E 2.1	16
	Mx	N 2.5	16
	Mx	Z 2.8	15
Ki	iPKP	04 07 59.9	
		micr	sec
	Mx	E 1.6	15
	Mx	N 3.6	20
	Mx	Z 2.2	14
Sk	iPKPl	04 08 08.2	
	i	04 08 18.4	
Um	iPKPl	04 08 03.3	
Ud	iPKPl	04 08 17.0	
De	iPKPl	04 08 25.8	
	i	04 08 36.3	

Kermadec Islands (h = N).
M = 6.2 (Up,Ki).

" 15

Up	iPKPl	04 21 15.0	
	i	04 21 23.7	
	i	04 21 30.2	
		micr	sec
	PKPl	Z' 0.1	1.1
Sk	iPKPl	04 21 06.9	
Um	iPKPl	04 21 01.3	
Ud	iPKPl	04 21 15.0	
	i	04 21 35.4	
De	iPKPl	04 21 23.5	
	i	04 21 32.6	

Kermadec Islands (h = N).

" 15

Um	iPKPl	04 25 57.1	
Ud	ePKPl	04 26 09	

Kermadec Islands.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 15 Sk iPKPl 04 28 18.4
Ud iPKPl 04 28 27.7
De iPKPl 04 28 34.6
Kermadec Islands.

" 15 Up iP 04 53 52.9
iPP 04 55 10.5
Ki iP 04 53 37.3 C
micr sec
P Z' 0.1 0.7
Sk iP 04 54 08.4
Um iP 04 53 37.9 C
Ud iP 04 54 09.6
iPn 04 55 13.4
De iP 04 54 16.7
Eastern Kazakh SSR.
Underground explosion.

" 15 Up iPKP 05 00 03.2
Ki iPKP 04 59 48.0
micr sec
PKP Z' 0.1 1.0
Sk iPKP 04 59 59.8
Um iPKP 04 59 55.6
Ud iPKP 05 00 05.3
De iPKP 05 00 11.8
New Hebrides Islands
(h = 130 km).

" 15 Up iPKPl 05 01 58.1
i 05 02 11.3
micr sec
PKPl Z' 0.1 1.0
i Z' 0.1 1.1
Ki iPKP 05 01 42.4
Sk iPKPl 05 01 51.2
i 05 02 03.2
Um iPKPl 05 01 46.1
Ud iPKPl 05 02 00.3
i 05 02 12.6
De iPKPl 05 02 09.1
i 05 02 21.5
Kermadec Islands.

" 15 Up iP 05 03 16.4

" 15 Um iP 05 36 06.1

" 15 Sk ePKPl 05 58 19
Um iPKPl 05 58 14.6
Ud iPKPl 05 58 28.8
Kermadec Islands.

" 15 Up iPKPl 06 04 44.4
(cont.)

1976
Jan. 15 (cont.)
Up i 06 04 47.1
micr sec
PKPl Z' 0.1 0.9
Ki ePKP 06 04 23
Sk i(PKP) 06 04 34.3
iPKPl 06 04 35.6
Um i(PKP) 06 04 28.8
iPKPl 06 04 31.8
Ud iPKPl 06 04 46.8
i 06 04 57.7
De iPKPl 06 04 55.8
Kermadec Islands (h = N).

" 15 Sk i 06 09 22.1
Ud iP 06 09 20.4

" 15 Sk ePKPl 06 10 19
Ud iPKPl 06 10 28.7
i 06 10 36.6
Kermadec Islands.

" 15 Up iPKPl 06 26 30.0
micr sec
Mx N 4.1 19
Mx Z 4.1 19
Ki iPKP 06 26 11.7
micr sec
Mx N 2.4 17
Mx Z 2.8 16
Sk ePKPl 06 26 22
i 06 26 24.4
Um iPKPl 06 26 17.3
i 06 26 20.2
Ud iPKPl 06 26 31.0
i 06 26 33.6
De iPKPl 06 26 38.9
i 06 26 42.0
Kermadec Islands (h = N).
M = 6.1 (Up,Ki).

" 15 Um iP 06 31 03.3
Ud iP 06 31 12.8

" 15 Sk ePKPl 06 34 47
Um iPKPl 06 34 41.9
i 06 34 50.6
Kermadec Islands.

" 15 Up iPKPl 06 48 02.7
i 06 48 08.6
micr sec
PKPl Z' 0.1 1.0
i Z' 0.2 1.1
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 15 (cont.)

Up			micr	sec
	Mx	E	2.7	20
	Mx	N	4.2	17
	Mx	Z	4.1	19
Ki	i(PKP)		06 47 33.1	
			micr	sec
	Mx	E	5.0	19
	Mx	N	4.3	15
	Mx	Z	4.7	20
Sk	iPKPl		06 47 54.1	
Um	iPKPl		06 47 49.4	
Ud	iPKPl		06 48 03.4	
	i		06 48 06.6	
De	iPKPl		06 48 12.2	

Kermadec Islands (h = N).
M = 6.4 (Up,Ki).

" 15 Um iP 07 05 03.0

" 15 Up iPKPl 07 22 00.9
i 07 22 07.8

			micr	sec
	PKPl	Z'	0.2	1.4
	Mx	E	2.7	18
	Mx	Z	4.8	17
Ki	ePKP		07 21 43	
			micr	sec
	Mx	E	3.3	18
	Mx	N	1.4	14
	Mx	Z	2.6	19
Sk	iPKPl		07 21 52.9	
	i		07 22 02.0	
Um	iPKPl		07 21 48.4	
	i		07 21 57.5	
Ud	iPKPl		07 22 01.8	
	il		07 22 14.8	
De	il		07 22 23.3	

Kermadec Islands (h = N).
M = 6.4 (Up,Ki).

" 15 Sk iPKPl 07 31 05.4
Um iPKPl 07 31 02.0
Kermadec Islands.

" 15 Sk ePKPl 07 52 52
i 07 53 01.5
Um iPKPl 07 52 48.8
Ud iPKPl 07 53 01.4
Kermadec Islands.

" 15 Ud iP 08 34 48.4
De iP 08 34 55.9

" 15 Up iPKPl 08 36 36.0
(cont.)

1976
Jan. 15 (cont.)

Sk iPKPl 08 36 28.6
i 08 36 39.0
Um iPKPl 08 36 26.7
Ud iPKPl 08 36 37.8
De iPKP2 08 36 53.1
Kermadec Islands (h = N).

" 15 Up iPKPl 08 49 35.5
il 08 49 37.2

			micr	sec
	il	Z'	0.1	1.0
Ki	ePKPl		08 49 15	
			micr	sec
	Mx	E	1.7	16
	Mx	Z	1.3	19
Sk	ePKPl		08 49 28	
	il		08 49 30.2	
	i		08 49 38.8	
Um	iPKPl		08 49 23.8	
	il		08 49 25.1	
Ud	iPKPl		08 49 37.1	
	il		08 49 38.6	
De	il		08 49 47.0	

Kermadec Islands (h = 45 km).
Double PKPl phases, small and large, in average 1.5 sec apart.

" 15 Up iPKPl 08 56 28.6
Ki ePKPl 08 56 05
Sk iPKPl 08 56 19.0
Um iPKPl 08 56 14.9
Ud iPKPl 08 56 29.1
De iPKPl 08 56 37.5
i 08 56 47.2
Kermadec Islands (h = N).

" 15 Up iPKPl 08 58 57.2
Sk ePKPl 08 58 53
Ud iPKPl 08 58 59.3
Kermadec Islands.

" 15 Sk iPKPl 09 16 24.9
Ud iPKPl 09 16 32.4
Kermadec Islands.

" 15 Sk iPKPl 09 39 17.4
Um iPKPl 09 39 12.1
Ud iPKPl 09 39 25.8
Kermadec Islands.

" 15 Up il 09 49 14.7
Sk iPKPl 09 48 56.8
il 09 49 07.7
Ud il 09 49 15.3
Kermadec Islands (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 15 Sk iPKPl 10 09 46.7
Ud i 10 10 05.5
De i 10 10 12.3
Kermadec Islands.

" 15 Up iPKPl 10 21 12.4
i 10 21 19.0
Sk ePKPl 10 21 04
Um iPKPl 10 21 01.8
Ud iPKPl 10 21 14.1
Kermadec Islands.

" 15 Up iPKPl 10 29 30.5
micr sec
PKPl Z' 0.4 1.3
Ki ePKPl 10 29 15
Sk iPKPl 10 29 22.8
Um iPKPl 10 29 18.9
Ud iPKPl 10 29 32.3 C
De iPKP 10 29 33.9
iPKPl 10 29 40.2 C
Kermadec Islands (h = N).

" 15 Up iPKPl 10 35 28.5
Sk iPKPl 10 35 23.3
i 10 35 35.6
Um iPKPl 10 35 16.1
Ud iPKPl 10 35 32.5
De iPKPl 10 35 39.6
Kermadec Islands (h = 50 km).

" 15 Sk ePKPl 10 37 29
Ud iPKPl 10 37 39.5
Kermadec Islands.

" 15 Ud iP 10 47 42.4

" 15 Ki iP 10 48 33.5
Sk eP 10 48 08
Iceland (h = 10 km).

" 15 Sk iPKPl 10 51 28.7
Ud iPKPl 10 51 37.0
Kermadec Islands.

" 15 Up ePKPl 11 35 24
Sk iPKPl 11 35 17.0
Ud iPKPl 11 35 26.4
De iPKPl 11 35 36.2
Kermadec Islands (h = N).

" 15 Up iSgl 12 17 04.3
Sk iSgl 12 16 17.3
Ud iSn 12 15 36.4
iSgl 12 15 58.2
Off coast of southwest Norway, 60.0°N, 4.5°E.
(cont.)

1976
Jan. 15 (cont.)
M_L = 2.5 (Ud).
Origin time = 12 13 35.
By combination with Bergen and Kongsberg readings.

" 15 Up iPKPl 12 18 49.2
Sk iPKPl 12 18 42.6
i 12 18 54.4
Um iPKPl 12 18 37.2
Ud iPKPl 12 18 50.7
De i 12 19 04.8
Kermadec Islands (h = N).

" 15 Sk ePKPl 12 28 16
Ud iPKPl 12 28 24.4
Kermadec Islands (h = N).

" 15 Ud iP 12 48 51.6

" 15 Sk iPKPl 12 51 36.0
Ud iPKPl 12 51 45.3
Kermadec Islands (h = N).

" 15 Up iPKPl 13 18 59.5
micr sec
PKPl Z' 0.1 1.3
Sk iPKPl 13 18 50.9
Um iPKPl 13 18 47.2
i 13 19 07.2
Ud iPKPl 13 19 01.0
i 13 19 13.6
De iPKPl 13 19 10.0
Kermadec Islands (h = N).

" 15 Sk ePKPl 13 21 29
i 13 21 43.3
Um iPKPl 13 21 26.4
Ud iPKPl 13 21 39.6
i 13 21 56.1
Kermadec Islands.

" 15 Up iPKP2 13 22 31.6
Sk iPKPl 13 22 20.0
Um iPKPl 13 22 14.9
Ud iPKPl 13 22 29.1
Kermadec Islands.

" 15 Ud iP 13 24 32.9

" 15 Up iPKPl 13 39 01.4
Sk iPKPl 13 38 53.9
Ud iPKPl 13 39 02.9
De iPKPl 13 39 11.6
Kermadec Islands.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Jan.	15	Up	iPKPl		13 47 38.8
			il		13 47 49.7
		Sk	iPKPl		13 47 30.4
			il		13 47 41.8
		Um	iPKPl		13 47 26.3
		Ud	iPKPl		13 47 40.4
			il		13 47 51.6
		De	il		13 48 00.4
		Kermadec Islands.			
"	15	Up	iPKPl		13 55 23.5
		Sk	iPKPl		13 55 15.6
		Ud	iPKPl		13 55 24.8
		Kermadec Islands.			
"	15	Up	iPKPl		14 08 57.4
			i		14 09 06.0
					micr sec
			PKPl	Z'	0.1 0.9
		Sk	iPKPl		14 08 49.7
		Um	iPKPl		14 08 45.6
		Ud	iPKPl		14 08 58.5
			i		14 09 10.3
		De	iPKPl		14 09 07.2
			i		14 09 18.5
		Kermadec Islands (h = N).			
"	15	Up	iPKPl		14 10 02.2
			il		14 10 15.1
		Sk	ePKPl		14 09 54
		Um	il		14 10 04.0
		Ud	iPKPl		14 10 04.0
			il		14 10 16.9
		De	iPKPl		14 10 11.9
			il		14 10 26.0
		Kermadec Islands.			
"	15	Ki	iP		14 31 27.8
		Ud	iP		14 31 41.7
"	15	De	iP		15 17 08.0
"	15	Sk	iPKPl		15 26 54.9
		Ud	iPKPl		15 27 04.2
		Kermadec Islands.			
"	15	Ud	iP		16 26 34.9
"	15	Up	iPKPl		16 32 05.8
			i		16 32 20.3
					micr sec
			PKPl	Z'	0.1 1.1
			i	Z'	0.2 1.2
			Mx	N	1.1 20
			Mx	Z	2.6 19
		(cont.)			

1976					
Jan.	15	(cont.)			
		Ki	ePKP		16 31 50
					micr sec
			Mx	E	3.3 19
			Mx	N	1.3 19
			Mx	Z	3.4 18
		Sk	iPKPl		16 31 59.0
			i		16 32 14.5
		Um	iPKPl		16 31 53.6
		Ud	iPKPl		16 32 07.2
			i		16 32 25.6
		De	iPKPl		16 32 15.5
		Kermadec Islands (h = N).			
		M = 5.9 (Up,Ki).			
"	15	Up	iPKPl		16 45 22.8
		Ud	iPKPl		16 45 24.9
			i		16 45 35.5
		De	i		16 45 42.1
		Kermadec Islands.			
"	15	Up	iPKPl		17 19 40.7
		Sk	ePKPl		17 19 33
		Um	iPKPl		17 19 29.9
		Ud	iPKPl		17 19 42.8
		De	iPKPl		17 19 51.8
			i		17 20 03.5
		Kermadec Islands.			
"	15	Up	iPKPl		17 41 46.8
					micr sec
			PKPl	Z'	0.1 1.0
		Sk	iPKPl		17 41 38.9
		Um	iPKPl		17 41 34.4
		Ud	iPKPl		17 41 47.9
		De	iPKPl		17 41 57.1
		Kermadec Islands (h = N).			
"	15	Up	i		17 49 06.7
		Sk	iPKPl		17 48 52.3
		Um	iPKPl		17 48 47.2
		Ud	iPKPl		17 49 02.0
		De	iPKPl		17 49 10.8
		Kermadec Islands.			
"	15	Up	iPKPl		17 51 48.7
		De	iPKPl		17 51 59.8
		Kermadec Islands.			
"	15	Up	iPKPl		18 12 40.0
		Sk	iPKPl		18 12 31.7
		Um	iPKPl		18 12 26.3
		Ud	iPKPl		18 12 41.1
		De	iPKPl		18 12 49.9
		Kermadec Islands (h = N).			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Jan.	15	Um	iPKP1		18 13 45.9	
		Ud	iPKP1		18 13 58.0	
		Kermadec Islands.				
"	15	Up	iPKP1		18 21 52.5	
		Sk	iPKP1		18 21 43.3	
		Um	iPKP1		18 21 40.0	
		Ud	iPKP1		18 21 54.0	
		De	iPKP1		18 22 03.4	
		Kermadec Islands (h = N).				
"	15	Up	iP		18 32 18.3	
		Um	iP		18 31 58.2	
			i		18 32 07.4	
		Ud	iP		18 32 26.4	
"	15	Up	il		18 42 22.2	
		Sk	ePKP1		18 42 06	
		Um	ePKP1		18 42 03	
		Ud	iPKP1		18 42 15.0	
			il		18 42 23.9	
		De	il		18 42 32.7	
		Kermadec Islands (h = N).				
"	15	Ud	iP		18 59 04.2	
"	15	Ud	iP		19 42 46.1	
"	15	Up	iPKP1		19 45 05.9	
					micr	sec
			PKP1	Z'	0.1	1.0
		Sk	iPKP1		19 44 58.3	
			i		19 45 08.7	
		Um	ePKP2		19 44 58	
		Ud	iPKP2		19 45 10.9	
			i		19 45 21.1	
		De	iPKP1		19 45 12.9	
		Kermadec Islands (h = N).				
"	15	Ud	iPKP		19 50 45.5	
		De	iPKP		19 50 57.6	
"	15	De	iP		20 04 30.1	
"	15	Ud	iPKP1		20 10 00.6	
		De	iPKP1		20 10 09.6	
		Kermadec Islands (h = N).				
"	15	Um	iP		20 23 49.1	
"	15	Um	iP		21 22 19.4	
"	15	Sk	ePKP1		21 34 19	
		Ud	iPKP1		21 34 27.2	
		Kermadec Islands.				

1976 Jan.	15	Up	iPKP2		22 06 44.1	
					micr	sec
			PKP2	Z'	0.1	1.0
			Mx	N	1.9	18
			Mx	Z	4.4	23
		Sk	il		22 06 41.1	
		Ud	iPKP1		22 06 41.2	
			iPKP2		22 06 45.9	
			il		22 06 51.1	
		De	iPKP1		22 06 49.4	
			il		22 07 00.3	
		Kermadec Islands (h = 40 km).				
"	15	Up	iPKP1		22 09 18.9	
					micr	sec
			PKP1	Z'	0.1	1.1
		Sk	iPKP1		22 09 10.7	
			il		22 09 22.0	
		Um	iPKP1		22 09 05.3	
		Ud	iPKP1		22 09 20.2	
			il		22 09 30.9	
		De	il		22 09 38.4	
		Kermadec Islands.				
"	15	Up	iPKP1		22 16 03.4	
		Sk	ePKP1		22 15 54	
		Ud	iPKP1		22 16 04.7	
		Kermadec Islands.				
"	15	Ki	iP		22 28 29.5	
"	15	Up	iP		22 44 55.8	
		Sk	eP		22 44 49	
		Um	iP		22 44 36.9	
		Ud	iP		22 45 02.9	
		Bonin Islands (h = N).				
"	15	Ud	iP		23 11 04.4	
"	15	Up	iPKP1		23 36 48.6	
		Ud	iPKP1		23 36 50.8	
			il		23 36 57.6	
		De	il		23 37 04.5	
		Kermadec Islands.				
"	16	Up	iPKP1		00 40 34.1	
		Sk	i(PKP)		00 40 24.6	
		Ud	iPKP1		00 40 35.9	
		De	iPKP1		00 40 45.0	
		Kermadec Islands (h = 25 km).				
"	16	Ud	iP		00 57 00.9	
"	16	Ud	eP		01 06 50	
"	16	Up	iP		02 21 17.3	
			i		02 21 47.8	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976

Jan.	16	Um	iPKP1	03 10 05.6	
		Ud	iPKP1	03 10 19.0	
		Kermadec Islands.			
"	16	Up	il	03 12 59.5	
		Sk	iPKP1	03 12 40.1	
		Um	iPKP1	03 12 35.4	
		Ud	iPKP1	03 12 49.1	
			il	03 13 00.1	
		De	i	03 13 02.1	
			il	03 13 09.9	
		Kermadec Islands.			
"	16	Um	iP	03 19 30.4	
"	16	Up	iPKP1	04 31 02.1	
				micr sec	
			PKP1 Z'	0.1 1.0	
		Sk	iPKP1	04 30 55.4	
		Um	iPKP1	04 30 50.4	
		Ud	iPKP1	04 31 03.6	
			i	04 31 08.3	
		De	iPKP1	04 31 12.4	
		Kermadec Islands (h = N).			
"	16	Up	iP	05 43 26.6	
		Ki	iP	05 44 05.8	
		Sk	iP	05 44 02.4	
		Um	iP	05 43 42.7	
		Ud	iP	05 43 41.6	
		De	iP	05 43 24.9	
		Iran (h = 30 km).			
"	16	Up	iPKP1	05 56 49.4	
				micr sec	
			PKP1 Z'	0.1 1.1	
		Sk	iPKP1	05 56 41.4	
		Ud	iPKP1	05 56 50.4	
		De	iPKP1	05 56 59.2	
		Kermadec Islands.			
"	16	Up	iP	08 42 58.6	C
				micr sec	
			P Z'	0.2 1.1	
		Ki	iP	08 42 06.1	C
				micr sec	
			P Z'	0.2 1.0	
		Um	iP	08 42 31.1	C
		Ud	iP	08 43 02.7	
		De	iP	08 43 23.6	
		Kamchatka (h = 60 km).			
		m = 6.1 (Up,Ki).			
"	16	Up	iPKP1	09 14 17.0	
		Kermadec Islands (h = N).			

1976

Jan.	16	Ud	iP	10 52 21.8	
		Tadzhik SSR (h = 35 km).			
"	16	Up	iPKP1	11 04 49.6	C
		Ki	iSKP1	11 07 24.8	
		Um	iSKP1	11 07 35.7	
		Ud	iPKP1	11 04 52.2	C
		De	iPKP1	11 05 02.3	C
		Tonga-Kermadec Islands			
		(h = 490 km).			
"	16	Ki	iPKP	11 13 34.2	
		Um	iPKP	11 13 40.1	
		Ud	iPKP	11 13 49.0	
		De	i(PKP)	11 13 47.5	
		Loyalty Islands (h = N).			
"	16	Ud	iP	12 15 20.7	
"	16	Up	iPKP1	12 20 33.7	
		Sk	iPKP1	12 20 25.9	
		Um	iPKP1	12 20 20.8	
		Ud	iPKP1	12 20 34.6	
			il	12 20 38.7	
		De	el	12 20 49	
		Kermadec Islands.			
"	16	Up	iPKP2	12 23 29.9	
		Sk	i(PKP)	12 23 16.8	
		Ud	iPKP1	12 23 29.9	
		Kermadec Islands.			
"	16	Up	iPKP1	13 15 17.1	
				micr sec	
			PKP1 Z'	0.1 1.0	
		Sk	iPKP1	13 15 09.7	
		Um	iPKP1	13 15 04.2	
		Ud	iPKP1	13 15 18.7	
			i	13 15 22.9	
		De	iPKP1	13 15 27.3	
		Kermadec Islands (h = N).			
"	16	Up	iPKP1	13 38 56.9	
			i	13 39 00.2	
			i	13 39 09.3	
				micr sec	
			i Z'	0.1 1.0	
		Sk	ePKP1	13 38 50	
		Um	iPKP1	13 38 45.8	
		Ud	iPKP1	13 38 59.1	
		Kermadec Islands (h = N).			
"	16	Up	iPKP1	14 25 32.0	
		Sk	i	14 25 32.3	
		Um	iPKP1	14 25 21.0	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 16 (cont.)

Ud	iPKPl	14 25 33.1	
Kermadec Islands.			
" 16 Up	iPKPl	15 22 22.2	
Um	iPKPl	15 22 10.2	
Ud	iPKPl	15 22 23.9	
De	i	15 22 38.7	
Kermadec Islands.			
" 16 Up	iPKPl	15 42 47.6	
Sk	iPKPl	15 42 40.8	
Um	iPKPl	15 42 35.7	
Ud	iPKPl	15 42 48.7	
De	iPKPl	15 43 07.9	
Kermadec Islands (h = N).			
" 16 Up	iPKPl	15 47 51.9	
		micr	sec
	PKPl	Z' 0.1	0.9
Sk	iPKP2	15 47 46.6	
Um	iPKPl	15 47 39.2	
Ud	iPKP2	15 47 56.1	
De	ePKPl	15 48 04	
	i	15 48 14.6	
Kermadec Islands (h = N).			
" 16 Um	iP	16 01 24.5	
Japan (h = 70 km).			
" 16 Up	iPKPl	16 45 06.9	
	i	16 45 14.2	
De	iPKPl	16 45 18.1	
Kermadec Islands (h = N).			
" 16 Up	iPKPl	17 17 39.2	
Sk	iPKPl	17 17 31.0	
Ud	iPKPl	17 17 40.1	
Kermadec Islands.			
" 16 Ki	iP	17 17 54.1	
Um	iP	17 17 44.9	
Ud	iP	17 18 04.5	
Afghanistan-USSR (h = 30 km).			
" 16 Up	iPKPl	17 27 20.1	
Ud	iPKPl	17 27 24.3	
Kermadec Islands.			
" 16 Ud	iP	18 59 03.4	
" 16 Up	iP	20 04 40.3	
" 16 Up	iPKPl	22 06 03.5	
	i	22 06 12.0	

(cont.)

1976
Jan. 16 (cont.)

Up		micr	sec
	PKPl	Z' 0.3	1.4
	i	Z' 0.3	1.0
Ki	iPKPl	22 05 43.5	
Sk	iPKPl	22 05 57.2	
Um	iPKPl	22 05 51.6	
Ud	iPKPl	22 06 05.4	
	i	22 06 11.8	
De	iPKPl	22 06 13.0	
	i	22 06 21.7	
Kermadec Islands (h = N).			
" 16 Ud	iP	22 42 08.8	
Kurile Islands (h = N).			
" 16 Up	iPKPl	23 51 48.9	C
		micr	sec
	PKPl	Z' 0.4	1.0
Ki	iPKPl	23 51 26.5	
	iPKP .	23 51 31.9	
Sk	iPKPl	23 51 42.1	C
Um	iPKPl	23 51 37.0	C
Ud	iPKPl	23 51 50.8	C
De	iPKPl	23 51 59.6	
Kermadec Islands (h = 50 km).			
" 17 Ud	iP	00 12 40.0	
" 17 Up	i(P)	01 16 42.7	
" 17 Up	iP	02 33 06.3	
	i	02 33 11.0	
Ud	iP	02 33 03.1	
	i	02 33 11.0	
" 17 Ki	iP	02 48 12.9	
Um	iP	02 48 27.4	
Iceland (h = 10 km).			
" 17 Up	iPKPl	03 45 51.5	
Sk	ePKPl	03 45 42	
Ud	iPKPl	03 45 52.3	
Kermadec Islands (h = 30 km).			
" 17 Up	ePKPl	04 45 10	
Ud	iPKPl	04 45 12.9	
Tonga-Kermadec Islands (h = 550 km).			
" 17 Up	i(P)	06 09 07.3	
Sk	i(P)	06 08 55.7	
Um	i(P)	06 08 44.1	
Ud	i(P)	06 09 04.5	
	i	06 09 08.8	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Jan.	17	Up	iPKPl		06 09 43.3	
			i		06 09 58.0	
					micr	sec
			PKPl	Z'	0.3	1.5
			i	Z'	0.3	1.3
		Ki	iPKP		06 09 24.7	
		Sk	iPKP2		06 09 40.5	
		Um	iPKPl		06 09 33.0	
		Ud	iPKPl		06 09 45.6	
		De	iPKP2		06 10 07.0	
		South of Kermadec Islands (h = N).				
"	17	Up	iPKPl		06 47 57.0	
					micr	sec
			PKPl	Z'	0.1	1.3
		Sk	ePKPl		06 47 52	
		Um	iPKPl		06 47 44.9	
		Ud	iPKPl		06 47 58.0	
		South of Kermadec Islands (h = N).				
"	17	Up	iPKPl		06 49 21.9	
					micr	sec
			PKPl	Z'	0.2	1.5
		Sk	iPKPl		06 49 17.7	
			i		06 49 38.3	
		Um	iPKPl		06 49 13.5	
		Ud	iPKPl		06 49 25.6	
		De	iPKP2		06 49 47.5	
		South of Kermadec Islands.				
"	17	Up	il		07 25 36.3	
		Sk	iPKPl		07 25 22.8	
		Um	iPKPl		07 25 19.3	
		Ud	iPKPl		07 25 32.8	
			il		07 25 39.0	
		Kermadec Islands (h = 40 km).				
"	17	Up	ePKPl		09 35 14	
			i		09 35 23.5	
		Um	iPKPl		09 35 00.3	
		Ud	ePKPl		09 35 15	
		Kermadec Islands (h = 70 km).				
"	17	Up	iPKPl		10 16 05.3	
					micr	sec
			PKPl	Z'	0.1	1.0
		Um	iPKPl		10 15 52.9	
		Ud	iPKPl		10 16 07.1	
			i		10 16 23.1	
		De	iPKPl		10 16 16.1	
		Kermadec Islands (h = 55 km).				
"	17	Um	iP		10 28 08.6	

1976 Jan.	17	Up	i		10 42 26.5	
			i		10 42 33.0	
		Um	iPKPl		10 42 06.6	
		Ud	ePKPl		10 42 20	
		Kermadec Islands (h = 230 km).				
"	17	Ki	iP		11 54 35.1	
		Sk	iP		11 54 06.6	
		Um	ipP		11 55 54.2	
		Iceland (h = N).				
"	17	Ki	iP		12 28 52.5	
		Um	iP		12 29 05.6	
		Ud	ipP		12 29 01.3	
		Iceland (h = N).				
"	17	Up	iPKPl		13 51 42.8	
		Um	iPKPl		13 51 31.8	
		Ud	iPKPl		13 51 43.9	
		Kermadec Islands.				
"	17	Up	iPKPl		14 12 26.3	
			il		14 12 28.1	
					micr	sec
			il	Z'	0.1	1.0
		Sk	il		14 12 21.6	
		Um	iPKPl		14 12 15.0	
			il		14 12 17.4	
		Ud	iPKPl		14 12 27.7	
			il		14 12 29.9	
		South of Kermadec Islands (h = N).				
"	17	Up	iPKPl		14 14 33.2	
			i		14 14 40.1	
		Sk	ePKPl		14 14 28	
		Um	iPKPl		14 14 22.8	
		Ud	iPKPl		14 14 35.1	
		Kermadec Islands.				
"	17	Um	iP		14 37 58.7	
"	17	Um	iP		16 39 10.9	
"	17	Up	ePKPl		18 15 09	
		Um	iPKPl		18 14 55.4	
		Ud	iPKPl		18 15 09.7	
			i		18 15 24.3	
		Kermadec Islands.				
"	17	Um	iP		19 21 16.3	
		Ud	iP		19 21 21.0	
"	17	Ki	iP		23 19 16.0	
		Sk	iP		23 18 51.0	
		Um	iP		23 19 34.2	
		Ud	iP		23 19 25.0	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 17 Up iPKP1 23 49 30.9
Um iPKP1 23 49 17.8
Ud iPKP1 23 49 32.1
Kermadec Islands.

" 18 Up iPKP1 00 29 07.2
Sk iPKP1 00 28 59.6
i 00 29 10.8
Um iPKP1 00 28 54.5
Ud iPKP1 00 29 09.0
i 00 31 32.1
Kermadec Islands (h = 140 km).

" 18 Up iPKP1 00 47 41.0
Sk iPKP1 00 47 33.5
Ud iPKP1 00 47 42.2
i 00 47 46.8
De iPKP1 00 47 50.0
Kermadec Islands.

" 18 Up iP 01 15 59.2
Ud iP 01 16 04.7

" 18 Um iPKP1 01 54 19.3
Ud iPKP1 01 54 33.8
Kermadec Islands.

" 18 Um eP 02 00 26
Ud eP 02 00 33

" 18 Up iPKP1 02 29 36.9
i 02 29 44.8
Sk ePKP2 02 29 34
Um iPKP1 02 29 26.5
Ud i(PKP) 02 29 32.9
iPKP1 02 29 39.7
Kermadec Islands.

" 18 Up iPKP1 02 37 16.6
iPKP2 02 37 19.6
micr sec
PKP2 Z' 0.1 0.8
Sk iPKP1 02 37 09.4
Um iPKP1 02 37 03.1
Ud iPKP1 02 37 18.1
iPKP2 02 37 22.8
De iPKP1 02 37 27.2
Kermadec Islands (h = N).

" 18 Up iPKP1 02 40 13.0
i 02 40 19.1
micr sec
PKP1 Z' 0.1 1.4
Sk iPKP1 02 40 06.3
(cont.)

1976
Jan. 18 (cont.)
Um iPKP1 02 40 01.8
Ud iPKP1 02 40 15.0
De iPKP1 02 40 24.6
Kermadec Islands.

" 18 Up iPKP1 04 08 10.8
i 04 08 18.9
Sk iPKP1 04 08 02.5
i 04 08 11.2
Um iPKP1 04 07 56.0
i 04 08 06.0
Ud iPKP1 04 08 11.7
i 04 08 20.0
De iPKP 04 08 18.5
i 04 08 29.2
Kermadec Islands.

" 18 Up ePKP1 04 42 00
Um iPKP1 04 41 45.6
Ud iPKP1 04 42 00.6
Kermadec Islands.

" 18 Up iP 04 50 29.0
iS 04 53 44
micr sec
P Z' 0.5 0.9
Mx E 39 14
Mx N 51 16
Mx Z 83 20
Ki iP 04 48 44.4
iS 04 50 56
micr sec
P Z' 1.3 0.9
Mx E 87 10
Mx N 34 11
Mx Z 28 8
Sk iP 04 49 45.6
i 04 49 48.3
Um iP 04 49 37.5
i 04 49 38.9
iS 04 52 06
Ud iP 04 50 28.2
De iP 04 51 09.1
Svalbard (h = N).
m = 6.4, M = 6.0 (Up,Ki).
Felt.

" 18 Up iPKP1 05 19 27.8
i 05 19 31.9
micr sec
PKP1 Z' 0.1 0.9
Ki ePKP1 05 19 08
Sk iPKP1 05 19 19.2
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 18 (cont.)

Um	iPKPl	05 19 14.8	
Ud	iPKPl	05 19 28.9	
De	iPKPl	05 19 38.2	

Kermadec Islands (h = 55 km).

" 18

Up	ePKPl	05 29 05	
Um	iPKPl	05 28 52.0	
Ud	iPKPl	05 29 05.5	

Kermadec Islands.

" 18

Ki	eP	05 35 06.4	

" 18

Up	i(P)	06 05 23.1	

" 18

Ki	iP	06 47 37.2	
Um	iP	06 48 31.8	

Svalbard.

" 18

Up	ePKPl	08 12 49	
Um	iPKPl	08 12 34.6	
Ud	ePKPl	08 12 50	

Kermadec Islands.

" 18

Sk	iP	08 21 03.0	
Um	iP	08 21 18.1	

Guatemala (h = 130 km).

" 18

Ki	iP	08 27 13.3	
		micr	sec
	P	Z' 0.1	1.0
	Mx	E 1.1	13
	Mx	N 1.8	14
	Mx	Z 1.1	11
Sk	iP	08 26 45.5	
Um	iP	08 27 29.1	
	i	08 27 32.7	
Ud	iP	08 27 17.8	
	i	08 27 23.8	

Iceland (h = N).

" 18

Up	iPKPl	13 43 12.8	
Ud	iPKPl	13 43 15.3	
De	iPKPl	13 43 25.0	

Kermadec Islands.

" 18

Up	iPKPl	13 49 20.6	
	i	13 49 28.9	
		micr	sec
	PKPl	Z' 0.1	0.9
	i	Z' 0.1	1.0
Ki	iPKPl	13 48 59.6	
Sk	iPKPl	13 49 13.5	
	i	13 49 18.0	
Um	iPKPl	13 49 09.2	

(cont.)

1976
Jan. 18 (cont.)

Um	i	13 49 11.4	
Ud	iPKPl	13 49 21.1	
De	iPKPl	13 49 31.2	

South of Kermadec Islands (h = 30 km).

" 18

Up	iPKPl	13 57 10.3	
	i	13 57 31.1	
Um	iPKPl	13 56 59.1	
Ud	iPKPl	13 57 10.7	
	i	13 57 32.0	

Kermadec Islands.

" 18

Up	iPKPl	14 38 47.8	
Sk	iPKPl	14 38 41.2	
Um	iPKPl	14 38 36.2	
Ud	iPKPl	14 38 49.6	
De	iPKPl	14 38 58.0	

Kermadec Islands.

" 18

Up	iP	15 15 14.5	C
	iS	15 19 07.0	
		micr	sec
	P	Z' 0.5	0.9
	Mx	E 7.0	13
	Mx	N 3.3	12
	Mx	Z 6.3	10
Ki	iP	15 16 30.0	C
		micr	sec
	P	Z' 0.2	1.3
	Mx	E 13	12
	Mx	N 5.1	12
	Mx	Z 4.9	12
Sk	iP	15 15 55.8	
Um	iP	15 15 53.7	C
	iS	15 20 26	
Ud	iP	15 15 20.7	C
	i	15 15 23.3	
	iS	15 19 18.4	
De	iP	15 14 41.4	
	i	15 14 44.2	

Greece (h = N).
m = 5.8, M = 5.5 (Up,Ki).

" 18

Up	iPKPl	15 28 57.1	
	i	15 29 03.7	
		micr	sec
	PKPl	Z' 0.1	1.0
Ki	i	15 28 43.9	
Sk	il	15 28 51.5	
Um	iPKPl	15 28 45.3	
	il	15 28 46.6	
Ud	iPKPl	15 28 58.1	
De	iPKP2	15 29 19.9	

South of Kermadec Islands (h = 170 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Jan.	18	Up	iP	15 54 15.5
		Ki	iP	15 53 46.6
		Um	iP	15 54 00.0
		Mariana Islands (h = 80 km).		
"	18	Up	iPKPl	16 02 58.1
			i	16 03 04.7
		Um	iPKPl	16 02 46.6
		Ud	iPKPl	16 02 59.8
		De	iPKPl	16 03 08.3
		Kermadec Islands.		
"	18	Ki	iP	16 34 56.1
		Um	iP	16 35 08.3
		Ud	iP	16 35 31.6
		Mariana Islands (h = 330 km).		
"	18	Um	iP	17 19 58.3
"	18	Up	iPKPl	18 45 32.5
			i	18 45 45.3
				micr sec
			PKPl Z'	0.3 1.8
			i Z'	0.2 1.0
		Sk	iPKPl	18 45 25.5
		Um	iPKPl	18 45 20.6
		Ud	iPKPl	18 45 34.2
			i	18 45 46.5
		De	iPKP	18 45 36.0
			iPKPl	18 45 42.6
			iPKP2	18 45 55.3
		Kermadec Islands (h = N).		
"	18	Up	iPKPl	19 07 27.8 C
		Sk	iPKP2	19 07 26.4
			i	19 07 39.1
		Um	iPKPl	19 07 17.3
			i	19 07 27.3
		Ud	iPKPl	19 07 29.2
		De	ePKPl	19 07 40
		South of Kermadec Islands (h = N).		
"	18	Up	iPKP	19 39 47.3
			iPKP2	19 39 54.4
		Sk	ePKPl	19 39 45
		Um	iPKPl	19 39 39.7
		Ud	iPKPl	19 39 53.2
			iPKP2	19 39 58.7
		De	ePKPl	19 40 02
		Kermadec Islands (h = 100 km).		
"	18	Up	iP	21 02 23.7
			i	21 02 35.9
			i	21 02 50.8
		Um	iP	21 02 21.1
			i	21 02 40.4
		Ud	iP	21 02 33.4

1976 Jan.	18	Up	iPKPl	21 06 06.5
			i	21 06 13.3
		Um	iPKPl	21 05 56.2
		Ud	iPKPl	21 06 08.3
			i	21 06 17.5
		Kermadec Islands.		
"	18	Up	i(P)	21 18 19.1
			i	21 18 28.8
"	18	Up	iPKPl	21 22 17.7
			i	21 22 26.3
		Sk	iPKPl	21 22 11.2
		Um	iPKPl	21 22 06.9
		Ud	iPKPl	21 22 19.7
		De	iPKPl	21 22 28.5
		Kermadec Islands.		
"	18	Up	iPKPl	21 25 02.2
		Ud	iPKPl	21 25 04.5
		De	iPKPl·	21 25 13.1
		Kermadec Islands.		
"	18	Up	iPgl	22 11 24.7
			i	22 11 32.1
			iSgl	22 12 32.2
			i	22 12 45.3
			i	22 13 15.0
		Ud	iPgl	22 11 02.6
			iSgl	22 11 53.8
			i	22 12 27.7
		De	iSgl	22 11 30.4
		Skagerrak, near 57 1/4°N, 8 1/2°E.		
		Origin time = 22 09 54.		
		M_L = 2.4 (Ud).		
		By combination with Bergen and Kongsberg readings.		
"	19	Um	iP	00 13 23.9
		Ud	iP	00 13 39.2
"	19	Um	iP	02 43 07.5
		Ud	iP	02 43 27.2
"	19	Up	i(P)	04 29 34.0
"	19	Up	iPKPl	07 51 46.2
			i	07 51 49.3
		Um	iPKPl	07 51 32.5
		Ud	iPKPl	07 51 47.2
			il	07 51 50.7
		De	il	07 51 59.9
		Kermadec Islands (h = N).		
"	19	Up	iP	09 26 44.4
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 19 (cont.)

Up			micr	sec
	P	Z'	0.3	1.5
Ki	iP		09 26	14.5
			micr	sec
	P	Z'	0.2	1.4
Sk	iP		09 25	46.9
	eS		09 28	09
Ud	iP		09 26	23.7
	i		09 26	25.8

Iceland (h = 10 km).
m = 5.4 (Up,Ki).

" 19	Up	il	10 23 44.8
	Sk	il	10 23 37.0
	Ud	iPKP1	10 23 37.1
		il	10 23 47.5

Kermadec Islands.

" 19	Up	iPKP1	11 04 49.4
		i	11 05 00.6
	Sk	iPKP1	11 04 40.5
	Um	iPKP1	11 04 36.6
	Ud	iPKP1	11 04 49.8

Kermadec Islands.

" 19	Up	iPKP1	14 43 03.1
	Ud	iPKP1	14 43 05.6

Kermadec Islands.

" 19	Um	iP	19 27 21.6
	Ud	iP	19 27 12.1
" 19	Sk	iPKP1	21 58 18.2
	Ud	iPKP1	21 58 26.7

Kermadec Islands.

" 19	Ud	iP	22 08 18.1
" 20	Up	iP	04 21 52.9
	Ki	iP	04 21 29.2
	Um	iP	04 21 40.2

Mariana Islands (h = 40 km).

" 20	Ud	iP	04 38 41.2
" 20	Ud	iP	04 44 17.6
" 20	Ki	ipP	04 49 18.7
	Sk	iP	04 49 42.6
	Um	ipP	04 49 30.3
	Ud	ipP	04 49 21.9

Iceland (h = N).

" 20	Ki	iP	06 52 09.0

Kamchatka (h = 15 km).

1976
Jan. 20

Ud	iPKP1	17 40 33.0

Fiji Islands (h = 540 km).

" 20	Ud	iPKP1	19 35 33.3
	De	iPKP1	19 35 45.2

Tonga Islands (h = N).

" 21	Um	iP	01 06 07.5
" 21	Ud	iPKP1	02 35 23.4
	De	iPKP1	02 35 33.4
" 21	Um	iP	04 15 59.3
" 21	Um	iP	04 24 33.8
" 21	Up	iPKP2	04 41 23.1
	Sk	iPKP1	04 41 13.7
	Um	iPKP1	04 41 08.2
	Ud	iPKP1	04 41 22.1
	De	iPKP1	04 41 32.7

Kermadec Islands (h = 50 km).

" 21	Up	iP	06 10 11.2	
			micr	sec
		P Z'	0.1	1.0
	Ki	iP	06 09 09.6	
			micr	sec
		P Z'	0.1	0.8
	Um	iP	06 09 37.3	
	Ud	iP	06 10 16.5	
	De	iP	06 10 40.9	

Siberia (h = N).
m = 5.6 (Up,Ki).

" 21	Up	iP	10 16 21.1	
		i	10 16 25.3	
		iS	10 25 32	
		iP'P'	10 44 47.9	
			micr	sec
		P Z'	0.5	1.4
		i Z'	1.0	1.0
		Mx E	79	17
		Mx N	87	18
		Mx Z	118	18
	Ki	iP	10 15 33.4	
		i	10 15 37.4	
		i	10 44 56.4	
		iP'P'	10 45 07.9	
			micr	sec
		P Z'	0.4	1.3
		Mx E	87	18
		Mx N	55	16
		Mx Z	99	18
	Sk	iP	10 16 11.3	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 21 (cont.)

Um	iP		10 15 55.6
	i		10 15 59.6
	iP'P'		10 45 00.4
Ud	iP		10 16 26.4
	i		10 16 29.8
De	iP		10 16 45.1
	i		10 16 48.5

Kurile Islands (h = 40 km).
m = 6.6, M = 7.1 (Up,Ki).

" 21

Up	iP		10 25 11.3
	i		10 25 25.8
			micr sec
	P	Z'	0.1 1.0
Ki	iP		10 24 22.9
			micr sec
	P	Z'	0.2 1.5
Sk	iP		10 25 02.8
Um	iP		10 24 46.5
Ud	iP		10 25 17.5
De	iP		10 25 35.3
	i		10 25 38.0

Kurile Islands (h = 50 km).
m = 5.9 (Up,Ki).

" 21

Up	iP		10 29 59.4
	ipP		10 30 10.1
			micr sec
	P	Z'	0.1 0.7
	pP	Z'	0.4 1.3
Ki	eP		10 29 18
Um	iP		10 29 34.2
	ipP		10 29 45.8
Ud	iP		10 30 04.9
	ipP		10 30 16.9
De	ipP		10 30 34.7

Kurile Islands.
h = 45 km (Up,Um,Ud).

" 21

Up	iP		10 33 47.2
			micr sec
	P	Z'	0.1 1.0
Ki	iP		10 33 02.0
Um	iP		10 33 22.2
Ud	iP		10 33 53.1
De	iP		10 34 11.5

Kurile Islands (h = 50 km).

" 21

Um	iP		10 36 29.6
Ud	iP		10 37 00.6

Kurile Islands (h = N).

" 21

Ud	iP		10 42 01.9

" 21

Up	iP		10 45 34.1
Ud	iP		10 45 40.2

Kurile Islands.

1976
Jan. 21

Up	iP		10 46 14.0
Ud	iP		10 46 21.4

Kurile Islands.

" 21

Up	iP		11 02 11.6
			micr sec
	P	Z'	0.2 0.9
Ki	iP		11 01 24.9
			micr sec
	P	Z'	0.1 1.0
Sk	eP		11 02 02
Um	iP		11 01 46.0
Ud	iP		11 02 18.2
De	iP		11 02 36.1

Kurile Islands (h = 55 km).
m = 6.0 (Up,Ki).

" 21

Up	iP		11 27 27.7
Um	iP		11 27 02.6
Ud	iP		11 27 33.6

Kurile Islands (h = 45 km).

" 21

Up	iP		11 39 36.6
			micr sec
	P	Z'	0.1 1.0
Um	iP		11 39 11.4
Ud	iP		11 39 42.8
De	iP		11 40 00.8

Kurile Islands (h = 30 km).

" 21

Up	iP		12 58 52.1 C
	ipP		12 59 00.3
			micr sec
	P	Z'	0.1 0.9
	pP	Z'	0.2 1.0
Ki	iP		12 58 04.1
			micr sec
	P	Z'	0.1 1.0
Um	iP		12 58 27.4
	ipP		12 58 35.4
Ud	iP		12 58 57.7
	ipP		12 59 06.4
De	ipP		12 59 23.5

Kurile Islands.
h = 30 km (Up,Um,Ud).
m = 5.9 (Up,Ki).

" 21

Up	iP		13 05 58.6
Ud	iP		13 06 06.4

Kurile Islands (h = 60 km).

" 21

Ud	iP		13 15 33.4

" 21

Up	iP		13 25 19.1 C
			micr sec
	P	Z'	0.2 1.0
Ki	iP		13 24 34.0

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 21 (cont.)

Um	iP	13 24 54.6	
Ud	iP	13 25 25.6	C
De	iP	13 25 44.3	

Kurile Islands (h = 45 km).

" 21

Up	iP	13 28 41.6	
Ud	iP	13 28 47.9	

Kurile Islands.

" 21

Up	iP	13 42 57.3	
Ud	iP	13 43 04.4	

Kurile Islands.

" 21

Up	iPKP1	13 51 53.4	
	iPKP2	13 52 01.5	
		micr	sec
	PKP2	Z' 0.1	0.9
Ki	iPKP1	13 51 31.2	
Sk	iPKP2	13 51 48.1	
Um	iPKP1	13 51 41.1	
Ud	iPKP1	13 51 55.3	
De	iPKP2	13 52 16.9	

South of Kermadec Islands
(h = 130 km).

" 21

Up	iP	14 05 04.8	
	i	14 05 17.8	
Um	iP	14 04 38.8	
Ud	iP	14 05 10.4	

Kurile Islands.
h = 50 km (Up).

" 21

Up	eP	14 23 02	
Ud	iP	14 23 06.9	

Kurile Islands (h = 50 km).

" 21

Ki	iP	14 35 43.0	
	iS	14 38 22.6	
Sk	iP	14 35 15.3	
Um	iP	14 36 00.2	
	i	14 36 02.9	
Ud	ipP	14 35 53.5	

Iceland (h = N).

" 21

Up	iP	15 00 20.9	
Ud	iP	15 00 27.0	

Kurile Islands (h = N).

" 21

Up	iP	15 03 55.0	C
	i	15 04 08.0	
Ud	iP	15 04 01.1	
	i	15 04 14.7	

Kurile Islands.
h = 50 km (Up,Ud).

1976
Jan. 21

Up	iP	15 29 57.1	
	i	15 30 35.7	
Um	iP	15 29 32.1	
Ud	iP	15 30 02.9	

Kurile Islands (h = 45 km).

" 21

Up	iP	15 55 41.0	
Ud	iP	15 55 48.8	

Kurile Islands (h = N).

" 21

Up	iP	16 02 41.5	
Um	iP	16 02 17.4	
	i	16 02 35.2	
Ud	iP	16 02 48.2	

Kurile Islands (h = 50 km).

" 21

Up	iPKP2	16 49 52.2	
Sk	iPKP1	16 49 42.9	
Um	iPKP1	16 49 38.6	
Ud	iPKP1	16 49 51.8	

" 21

Up	iP	16 53 08.1	
Ud	iP	16 53 14.1	

Kurile Islands.

" 21

Up	iP	18 07 19.7	
Ud	iP	18 07 26.4	

Kurile Islands (h = 40 km).

" 21

Up	iP	18 11 50.8	

" 21

Up	iP	18 12 03.4	
		micr	sec
	P	Z' 0.3	1.5
	Mx	E 6.1	18
Ki	iP	18 11 04.4	
		micr	sec
	P	Z' 0.2	1.3
	Mx	E 11	16
	Mx	N 9.5	15
	Mx	Z 10	15
Sk	iP	18 11 44.0	
Um	iP	18 11 33.2	
Ud	iP	18 12 05.2	

Kamchatka (h = N).
m = 6.0, M = 5.9 (Up,Ki).

" 21

Up	iP	18 28 37.6	
Ud	iP	18 28 43.5	

Kurile Islands (h = 45 km).

" 21

Up	iP	21 04 07.8	
Ud	iP	21 04 14.2	

Kurile Islands.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 21 Up iP 21 07 05.9
i 21 07 22.1
Ud iP 21 07 12.4
i 21 07 27.1
De iP 21 07 29.3
Kurile Islands (h = 40 km).

" 21 Ud iP 21 11 14.6

" 21 Up iP 21 11 44.3
micr sec
P Z' 0.1 0.8
Ki iP 21 10 58.1
Sk iP 21 11 33.7
Ud iP 21 11 50.0
De iP 21 12 08.8
Kurile Islands (h = 40 km).

" 21 Up iP 21 30 37.7 C
micr sec
P Z' 0.1 0.8
Ki iP 21 29 50.6
Ud iP 21 30 43.7
De eP 21 31 02
Kurile Islands (h = 45 km).

" 21 Ud iP 22 10 06.6
Kurile Islands (h = N).

" 21 Up iP 22 22 55.4
Sk epP 22 23 41
Ud iP 22 23 01.0
Greece (h = N).

" 22 Up iP 00 25 40.6
Ud iP 00 25 46.2
Kurile Islands (h = 55 km).

" 22 Up iP 02 31 11.0

" 22 Up iP 02 33 29.5
Ud iP 02 33 34.5
Kurile Islands (h = N).

" 22 Up iP 05 37 02.6
ipP 05 37 15.6
micr sec
P Z' 0.3 0.9
Ki iP 05 36 16.7
micr sec
P Z' 0.1 1.0
Sk iP 05 36 52.7
Ud iP 05 37 09.1
ipP 05 37 21.7
De iP 05 37 26.5
(cont.)

1976
Jan. 22 (cont.)
De ipP 05 37 39.4
Kurile Islands.
h = 45 km (Up,Ud,De).
m = 6.1 (Up,Ki).

" 22 Up iP 05 40 03.9
Ud iP 05 40 09.7
Kurile Islands.

" 22 Ud iP 06 00 32.5

" 22 Up iP 06 23 43.3
Ud iP 06 23 49.1
Kurile Islands (h = 50 km).

" 22 Up iP 06 45 08.9
i 06 45 13.5
micr sec
P Z' 0.1 0.9
Ki iP 06 44 11.5
micr sec
P Z' 0.1 1.0
Sk iP 06 44 49.9
Ud iP 06 45 11.8
Kamchatka (h = N).
m = 5.8 (Up,Ki).

" 22 Up iP 08 18 11.4
i 08 18 25.6
iS 08 27 08
micr sec
P Z' 0.2 0.9
Mx E 6.0 16
Mx N 10 19
Mx Z 15 18
Ki iP 08 17 25.1
micr sec
P Z' 0.1 1.0
Mx E 11 16
Mx N 9.5 15
Mx Z 10 15
Sk eP 08 18 03
Ud iP 08 18 17.8
De iP 08 18 34.6
i 08 18 49.8
Kurile Islands (h = 45 km).
m = 6.0, M = 6.2 (Up,Ki).

" 22 Up iP 08 20 30.3
micr sec
P Z' 0.1 1.0
Ud iP 08 20 36.4
Kurile Islands.

" 22 Up iP 08 26 37.9
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 22 (cont.)

Up	ipP		08 26 49.1	
			micr	sec
	P	Z'	0.1	1.0
Ud	iP		08 26 44.1	
	ipP		08 26 56.6	
De	iP		08 27 02.4	

Kurile Islands.
h = 45 km (Up,Ud).

" 22

Up	iP		08 29 38.1	
	ipP		08 29 50.9	
			micr	sec
	P	Z'	0.1	1.0
Ud	iP		08 29 44.3	
	ipP		08 29 57.0	
De	iP		08 30 02.3	

Kurile Islands.
h = 45 km (Up,Ud).

" 22

Up	iP		08 30 15.8	
			micr	sec
	P	Z'	0.1	0.9
Ud	iP		08 30 21.5	
De	iP		08 30 39.4	

Kurile Islands.

" 22

Up	iP		08 31 15.0	
Ud	iP		08 31 21.0	

Kurile Islands.

" 22

Up	iP		08 31 54.2	
Ud	iP		08 32 00.1	

Kurile Islands.

" 22

Ud	iP		08 34 53.5	

" 22

Up	iP		08 40 43.8	
De	iP		08 41 10.3	

" 22

Up	iP		09 11 54.5	
	i		09 11 56.5	
			micr	sec
	P	Z'	0.1	1.0
	Mx	E	4.5	17
Ki	iP		09 11 07.0	
			micr	sec
	Mx	E	4.6	17
	Mx	N	5.3	16
	Mx	Z	7.2	17
Sk	eP		09 11 46	
Ud	iP		09 11 59.9	
	i		09 12 02.9	
De	iP		09 12 19.1	

Kurile Islands (h = 55 km).
M = 5.8 (Up,Ki).

1976
Jan. 22

Ud	iP		09 50 20.4	

" 22

Ki	eP		10 09 02	
Sk	iP		10 08 30.7	
Ud	iP		10 09 07.1	

Iceland (h = N).

" 22

Up	iPKPl		10 26 33.4	
			micr	sec
	PKPl	Z'	0.1	0.9
Ud	iPKPl		10 26 34.8	
De	ePKPl		10 26 44	

" 22

Up	iP		10 49 59.2	
Ud	iP		10 50 06.2	

Kurile Islands (h = 50 km).

" 22

Up	iP		11 01 03.1	
	i		11 01 15.3	
			micr	sec
	P	Z'	0.2	1.3
	i	Z'	0.3	1.3
Ki	iP		11 00 10.1	
			micr	sec
	P	Z'	0.1	1.0
Ud	iP		11 01 07.8	
	ipP		11 01 13.0	
De	iP		11 01 28.4	

Kamchatka.
h = 20 km (Ud).
m = 5.9 (Up,Ki).

" 22

Up	iPKPl		11 18 45.7	
			micr	sec
	PKPl	Z'	0.1	0.6
Ud	iPKPl		11 18 47.8	
De	iPKPl		11 18 58.0	

Tonga-Kermadec Islands
(h = 460 km).

" 22

Up	iP		11 30 42.6	
Ud	iP		11 30 48.1	

Kurile Islands (h = 45 km).

" 22

Up	iP		11 53 03.3	C
	ipP		11 53 15.7	
			micr	sec
	P	Z'	0.1	0.8
Ki	iP		11 52 17.2	
			micr	sec
	P	Z'	0.1	1.0
Sk	iP		11 52 52.7	
Ud	iP		11 53 09.3	
	i		11 53 24.1	
De	iP		11 53 27.3	

Kurile Islands.
h = 45 km (Up).
m = 5.9 (Up,Ki).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 22 Ud iP 12 26 50.6

" 22 Ud iP 12 28 13.3

" 22 Up iP 15 14 59.6
micr sec
P Z' 0.1 0.8
Ki iP 15 14 14.3
Ud iP 15 15 05.9
De iP 15 15 24.2
Kurile Islands (h = 45 km).

" 22 Up iP 15 24 18.6
Ud iP 15 24 24.2
Kurile Islands (h = N).

" 22 Up iP 15 26 23.2 D
micr sec
P Z' 0.1 0.9
Ki iP 15 25 37.9
Ud iP 15 26 28.7
Kurile Islands (h = N).

" 22 Ud iP 15 28 39.3

" 22 Up iP 15 55 02.3
Ud iP 15 55 08.8
Kurile Islands (h = N).

" 22 Up iP 16 00 36.8
Sk iP 15 59 46.9
Ud iP 15 59 29.2

" 22 Up iP 16 17 22.7
Ki iP 16 17 02.1
Ud iP 16 17 32.8
Luzon (h = 30 km).

" 22 Up iP 16 32 14.5
micr sec
P Z' 0.1 1.0
Ki eP 16 31 28
Ud iP 16 32 19.9
De iP 16 33 37.7
Kurile Islands (h = 50 km).

" 22 Up iP 16 56 01.5
Ud iP 16 56 07.3
Kurile Islands (h = N).

" 22 Up iP 17 20 47.6
Ud iP 17 20 54.4
Kurile Islands (h = 30 km).

" 22 Up iP 17 37 15.9 C
i 17 37 27.1
(cont.)

1976
Jan. 22 (cont.)
Up
micr sec
i Z' 0.2 1.5
Mx E 2.6 17
Ki iP 17 36 29.8
micr sec
Mx E 2.4 18
Mx N 4.3 16
Sk eP 17 37 06
Ud iP 17 37 21.1
De iP 17 37 39.8
Kurile Islands (h = 50 km).
M = 5.6 (Up,Ki).

" 22 Up iP 18 00 02.7
ipP 18 00 15.9
micr sec
P Z' 0.2 0.9
Ki iP 17 59 17.4
micr sec
P Z' 0.1 1.0
Ud iP 18 00 09.1
ipP 18 00 21.1
De iP 18 00 26.7
Kurile Islands.
h = 45 km (Up,Ud).
m = 6.0 (Up,Ki).

" 22 Up iP 18 06 53.6

" 22 Up ipP 18 47 05.9
Ki iP 18 46 05.1
Ud iP 18 46 58.6
ipP 18 47 11.8
Kurile Islands.
h = 45 km (Ud).

" 22 Up iP 19 15 27.2
Ud iP 19 15 33.1
Kurile Islands (h = 45 km).

" 22 Up iP 19 23 32.6
micr sec
P Z' 0.1 1.3
Ud iP 19 23 14.3

" 22 Up iP 19 39 46.6
Ud iP 19 39 53.5
Kurile Islands (h = N).

" 22 Ki iP 20 59 19.3
i 20 59 30.5
Sk iP 20 58 52.1
Um iP 20 59 36.0
i 20 59 40.0
Ud i 20 59 31.0
Iceland (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 22 Um iP 23 32 04.1
Ud iP 23 32 35.7
Kurile Islands.

" 22 Up iP 23 39 16.1
Um iP 23 39 00.6
Ud iP 23 39 18.3
De iP 23 39 23.2
All phases are PKP phases, though no branch distinction is possible in this case.

" 23 Up iP 00 21 34.9
Um iP 00 21 10.4
Ud iP 00 21 40.4
Kurile Islands (h = 45 km).

" 23 Up iP 00 52 00.2
Um iP 00 51 31.8
Ud iP 00 52 06.2
Kurile Islands (h = N).

" 23 Up iP 01 02 29.8
Um iP 01 02 04.7
Ud iP 01 02 36.0
Kurile Islands (h = N).

" 23 Up iP 01 33 43.7
Um iP 01 34 40.9
Ud iP 01 33 58.2
i 01 34 00.4
De iP 01 33 57.2
Hindu Kush (h = 90 km).

" 23 Up ePKP 02 04 17
Um ePKP 02 04 07
Ud iPKP 02 04 20.7

" 23 Up iP 02 35 54.5
i 02 36 07.8
micr sec
P Z' 0.5 1.3
Ki iP 02 35 08.3
micr sec
P Z' 0.1 1.2
Um iP 02 35 29.3
Ud iP 02 36 00.2
De iP 02 36 19.1
Kurile Islands (h = N).
m = 6.1 (Up,Ki).

" 23 Up el 02 56 19
Um il 02 55 54.0
Ud iP 02 56 20.6
il 02 56 24.6
Kurile Islands (h = N).

1976
Jan. 23 Up iP 03 38 03.4
Um iP 03 37 37.4
Ud iP 03 38 09.0
Kurile Islands.

" 23 Up iP 05 58 22.1
i(PP) 06 02 24.8
iSKS 06 08 01.7
iSKKS 06 08 43.4
iSP 06 10 50.4
i 06 11 49.9
iPKKP 06 14 17.8
i 06 14 41.8
micr sec
P Z' 0.2 0.9
Ki iP 05 58 12.4
ipP 06 00 27.2
iSKS 06 07 52.7
iS 06 08 55.4
iPKKP 06 14 24.3
micr sec
P Z' 0.3 0.9
Sk iP 05 58 31.6
i(PP) 06 02 44.2
iPKKP 06 14 13.0
Um iP 05 58 14.5
iSKS 06 07 54.5
iS 06 08 55
iPKKP 06 14 28.9
Ud iP 05 58 31.4
i(PP) 06 02 42.7
iPKKP 06 14 05.7
i 06 14 34.5
De iP 05 58 34.4
i(PP) 06 02 44.6
iPKKP 06 14 12.9
i 06 14 33.6
Flores Sea.
h = 630 km (Ki).
m = 6.7 (Up,Ki).

" 23 Up iP 10 45 00.1
Ud iP 10 45 06.0
Kurile Islands (h = 55 km).

" 23 De iP 11 17 02.1

" 23 Ud iP 12 01 46.2
Afghanistan-USSR (h = 5 km).

" 23 Up iPKP1 12 54 45.6
Ud iPKP1 12 54 46.5

" 23 Sk i(P) 13 58 06.2

" 23 Ud iP 14 53 14.6

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Jan.	23	Up	iP		15 39 37.6
		Ud	iP		15 39 43.7
		Kurile Islands.			
"	23	Up	iP		16 25 21.7
"	23	Ki	iSn		17 06 37.2
			i		17 06 46.6
		Sk	iP		17 05 58.9
			iS		17 07 26.1
		Um	iS		17 07 46.9
		Ud	iP		17 06 46.3
			iS		17 08 52.9
		Norwegian Sea,			
		near 71 1/4°N, 6 1/2°E.			
		Origin time = 17 04 05.			
"	23	Up	ePKP1		18 10 32
		Sk	iPKP1		18 10 26.8
		Um	iPKP1		18 10 20.9
		Ud	iPKP1		18 10 32.6
		De	iPKP1		18 10 42.3
"	23	Up	iPKP		18 53 04.2
			i		18 53 08.6
			i		18 53 15.9
					micr sec
			PKP	Z'	0.2 1.5
			i	Z'	0.2 1.3
		Ki	iPKP1		18 53 05.4
					micr sec
			PKP1	Z'	0.4 1.5
		Sk	iPKP1		18 53 15.4
		Um	iPKP1		18 53 05.4
		Ud	iPKP1		18 53 14.0
			iPKP2		18 53 18.3
		De	ePKP		18 53 07
		South of Australia (h = N).			
"	23	Up	iP		23 36 41.7
		Ud	iP		22 36 48.6
		Kurile Islands.			
"	24	Up	iP		02 02 44.2 D
					micr sec
			P	Z'	0.1 1.1
		Ki	iP		02 01 59.2
			i		02 02 09.3
					micr sec
			P	Z'	0.1 1.1
		Sk	iP		02 02 34.8
		Um	iP		02 02 18.9
			ipP		02 02 30.1
		Ud	iP		02 02 49.9
			ipP		02 03 01.1
		(cont.)			

1976					
Jan.	24	(cont.)			
		De	iP		02 03 07.8
		Kurile Islands.			
		h = 40 km (Um,Ud).			
		m = 5.8 (Up,Ki).			
"	24	Ud	iP		02 06 21.3
"	24	Up	iP		02 11 17.1 C
			ipP		02 11 29.1
					micr sec
			P	Z'	0.2 1.2
		Ki	iP		02 11 33.3
					micr sec
			P	Z'	0.3 1.5
		Sk	iP		02 11 09.8
		Um	iP		02 10 53.1
			ipP		02 11 05.3
		Ud	iP		02 11 23.2
			ipP		02 11 35.6
		De	iP		02 11 42.6
		Kurile Islands.			
		h = 45 km (Up,Um,Ud).			
		m = 6.1 (Up,Ki).			
"	24	Up	iPKP1		02 20 49.5
			i		02 21 01.0
					micr sec
			PKP1	Z'	0.1 1.4
		Ud	iPKP1		02 20 50.5
			i		02 20 53.2
		Kermadec Islands (h = N).			
"	24	Ud	eP		02 59 30
"	24	Up	iP		03 31 40.7 C
					micr sec
			P	Z'	0.2 1.0
		Ki	iP		03 31 11.5 C
		Sk	iP		03 31 40.7 C
		Um	iP		03 31 23.0 C
		Ud	iP		03 31 49.6
		De	iP		03 32 00.2 C
		Ryukyu Islands (h = 55 km).			
"	24	Ud	iP		06 12 57.3
"	24	Up	iPKP1		07 14 44.7
					micr sec
			PKP1	Z'	0.1 1.0
		Sk	iPKP1		07 14 36.8
		Um	iPKP1		07 14 31.2
		Ud	iPKP1		07 14 45.9
		De	iPKP1		07 14 54.6
			i		07 15 04.1
		Kermadec Islands (h = N).			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Jan.	24	Ud	iP	07 50 14.2
		Kurile Islands (h = 45 km).		
"	24	Up	iP	09 55 04.4
		Um	iP	09 54 39.4
		Ud	iP	09 55 10.4
		De	eP	09 55 28
		Kurile Islands (h = 45 km).		
"	24	De	iP	10 10 18.1
"	24	Up	iP	10 52 28.8
		Um	iP	10 52 03.4
		Ud	iP	10 52 34.3
		Kurile Islands (h = N).		
"	24	Um	iP	11 00 42.5
		Ud	iP	11 01 13.6
		Kurile Islands (h = N).		
"	24	Um	iP	12 07 35.0
"	24	Up	iP	12 55 41.3
		Ud	iP	12 55 47.0
		Kurile Islands.		
"	24	Up	iP	13 32 58.8
		Ud	iP	13 33 05.3
		Kurile Islands (h = 40 km).		
"	24	Ud	iP	13 51 06.9
"	24	Up	iP	17 31 34.2
		Um	iP	17 31 08.5
		Ud	iP	17 31 40.0
		De	iP	17 31 58.2
		Kurile Islands (h = 35 km).		
"	24	Up	iPKPl	17 44 40.6
			i	17 44 49.8
		Um	i(PKP)	17 44 27.3
		Ud	iPKPl	17 44 43.0
"	24	Up	iPKP2	17 49 18.9
		Sk	iPKPl	17 49 09.1
		Ud	iPKPl	17 49 18.2
"	24	Ki	iP	19 14 14.4
		Um	iP	19 14 23.9
"	24	Up	iP	19 23 46.5
				micr sec
			P Z'	0.1 0.9
		Ki	iP	19 22 58.4
		Sk	iP	19 23 34.6
		Um	iP	19 23 21.0
		(cont.)		

1976				
Jan.	24	(cont.)		
		Ud	iP	19 23 52.0
		De	iP	19 24 10.4
		Kurile Islands (h = 50 km).		
"	24	Um	iP	19 40 13.1
		Ud	iP	19 40 43.6
		Kurile Islands (h = 40 km).		
"	24	Ud	iP	20 07 29.9
"	24	Up	iPKPl	20 20 49.9
		Ud	iPKPl	20 20 51.1
		De	i	20 21 11.5
"	24	Up	iP	21 11 14.1
		Um	iP	21 10 49.3
		Ud	iP	21 11 20.0
		Kurile Islands (h = 45 km).		
"	24	Up	iPKP	22 07 57.2
			iPKPl	22 07 59.3 C
			i	22 08 13.7
				micr sec
			PKPl Z'	1.9 1.3
		Ki	iPKPl	22 07 36.4
			i	22 07 46.1
				micr sec
			PKPl Z'	0.3 1.5
		Sk	iPKPl	22 07 51.5 C
		Um	iPKPl	22 07 46.7
		Ud	iPKP	22 07 58.0 C
			iPKPl	22 08 00.9 C
		De	iPKP	22 08 04.0 C
			iPKPl	22 08 10.3 C
		Kermadec Islands (h = 80 km).		
"	24	Up	iP	22 50 04.4
			i	22 50 17.2
				micr sec
			P Z'	0.1 0.9
		Ki	iP	22 49 19.2
		Sk	iP	22 49 55.2
		Um	iP	22 49 39.3
		Ud	iP	22 50 10.7
		De	iP	22 50 28.3
		Kurile Islands.		
		h = 45 km (Up).		
"	24	Up	iP	23 33 42.0
				micr sec
			P Z'	0.1 1.0
		Um	iP	23 33 16.3
		Ud	iP	23 33 47.0
		De	iP	23 34 05.5
			i	23 34 27.0
		Kurile Islands (h = 45 km).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Jan.	24	Um	iP		23 58 06.6
		Ud	iP		23 58 37.4
		Kurile Islands.			
"	24	Up	iP		23 58 57.2
		Um	iP		23 58 31.9
		Ud	iP		23 59 03.9
		Kurile Islands.			
"	24	Up	iP		23 59 12.0
		Um	iP		23 58 47.0
		Ud	i		23 59 17.7
		De	iP		23 59 35.1
		Kurile Islands.			
"	25	Up	iP		00 58 45.5
		Um	iP		00 58 20.4
		Ud	iP		00 58 51.0
		De	eP		00 59 11
		Kurile Islands (h = N).			
"	25	Up	iP		01 24 18.6
		Ki	iP		01 24 03.0
					micr sec
			P	Z'	0.1 1.1
		Um	iP		01 24 07.8
		Ud	iP		01 24 26.3
		Molucca Passage (h = N).			
"	25	Up	iP		01 42 06.9
		Ud	iP		01 42 12.9
		Kurile Islands (h = N).			
"	25	Ud	iP		02 13 02.2
"	25	Ki	iP		02 26 32.4
		Um	iP		02 27 25.4
			iS		02 30 07.6
		Ud	i		02 28 28.7
		Svalbard (h = N).			
"	25	Um	iP		05 23 09.4
"	25	De	iP		05 35 42.2
"	25	Up	iPgl		09 30 05.2
			i		09 30 24.2
			iRg		09 30 30.4
		Ud	iSgl		09 30 11.2
			iRg		09 30 15.9
		Central Sweden.			
		Near-surface event.			
"	25	Um	iP		11 12 22.8
		Ud	iP		11 12 15.6
		Guatemala (h = 100 km).			

1976					
Jan.	25	Up	iP		12 34 52.9
			ipP		12 35 06.4
			iS		12 44 00
					micr sec
			P	Z'	0.2 1.0
			Mx	E	11 16
			Mx	N	17 17
			Mx	Z	48 18
		Ki	iP		12 34 06.3
					micr sec
			P	Z'	0.2 1.0
			Mx	E	11 15
			Mx	N	18 15
			Mx	Z	15 15
		Sk	iP		12 34 42.4
		Um	iP		12 34 27.4
			i		12 34 29.3
			iS		12 43 14
		Ud	iP		12 34 58.3
			i		12 34 59.6
		De	iP		12 35 17.0
		Kurile Islands.			
		h = 50 km (Up).			
		m = 6.1, M = 6.4 (Up,Ki).			
"	25	Up	iP		13 06 59.6
					micr sec
			P	Z'	0.1 0.8
		Ki	iP		13 06 13.8
		Sk	iP		13 06 49.2
		Um	iP		13 06 34.5
		Ud	iP		13 07 05.5
		De	iP		13 07 23.2
		Kurile Islands (h = 45 km).			
"	25	Up	iP		14 40 19.2
		Ki	iP		14 39 31.5
		Um	iP		14 39 53.5
		Ud	iP		14 40 24.7
		Kurile Islands (h = 45 km).			
"	25	Ki	iP		15 41 03.0
		Um	eP		15 41 18
		Iceland (h = 10 km).			
"	25	Ki	iP		15 44 31.4
			iS		15 47 07.0
		Sk	i		15 47 19.3
		Um	iP		15 44 52.3
			i		15 47 06.4
			i		15 48 06.3
		Ud	iS		15 47 24.1
		De	eP		15 45 15
		Iceland (h = 10 km).			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 25 Up iP 17 04 42.6
Um iP 17 04 17.1
Ud iP 17 04 48.4
Kurile Islands (h = 45 km).

" 25 Up iP 17 57 07.2
micr sec
P Z' 0.1 1.0
Ki eP 17 56 19
Um iP 17 56 42.2
Ud iP 17 57 13.0
i 17 57 26.6
De iP 17 57 30.8
Kurile Islands (h = 55 km).

" 25 Ud iP 19 11 53.9
Kurile Islands (h = N).

" 25 Um iP 19 15 10.6
Japan (h = 50 km).

" 25 Up iP 19 16 19.7
Ud iP 19 16 24.9
Kurile Islands.

" 25 Up il 19 22 11.0
Ud iP 19 22 22.4
il 19 22 25.9
Tibet (h = N).

" 25 Up iP 19 25 39.8
micr sec
P Z' 0.1 1.0
Um iP 19 25 15.5
Ud iP 19 25 46.1
Kurile Islands (h = N).

" 25 Up iP 20 00 23.5
Ud iP 20 00 29.3
Kurile Islands (h = N).

" 25 Um iP 20 39 34.4
Ud iP 20 40 05.5
Kurile Islands.

" 25 Ki iP 22 00 56.4
Sk iP 22 00 29.2
Um iP 22 01 11.3
i 22 01 15.3
Ud i 22 01 06.6
Iceland (h = 10 km).

" 25 Up iP 22 15 44.4
Um iP 22 15 18.9
Ud iP 22 15 50.1
Kurile Islands (h = N).

1976
Jan. 26 Up iP 00 11 33.7
Um iP 00 11 08.2
Ud iP 00 11 39.5
Kurile Islands (h = N).

" 26 Up iP 02 09 31.6
Um iP 02 09 06.9
Ud iP 02 09 37.3
Kurile Islands.

" 26 De iP 02 21 43.2

" 26 Ud iP 02 38 08.2

" 26 Up iP 02 59 48.7 C
Ki iP 02 59 24.3 C
micr sec
P Z' 0.2 1.0
Sk iP 02 59 52.8
Um iP 02 59 33.5 C
Ud iP 02 59 58.4 C
De i(pP) 03 00 17.4
Ryukyu Islands (h = N).

" 26 Um iP 03 30 23.7
Ud iP 03 30 16.7
Guatemala (h = 70 km).

" 26 Up iP 05 33 34.7
Ud iP 05 33 40.5
Kurile Islands (h = N).

" 26 Up iSgl 05 52 15.0
Sk iSgl 05 51 20.6
Ud iSgl 05 51 16.1
Coast of southwest Norway, 60.6°N, 4.8°E.
Origin time = 05 48 57.
M_L = 2.8 (Ud).

" 26 Up iPKP 08 46 42.4
Um iPKP 08 46 39.8
Ud iPKP 08 46 44.8
De iPKP 08 46 51.5
Fiji Islands (h = 260 km).

" 26 De iP 09 42 00.9

" 26 Up iPKPl 10 59 09.8
Ud iPKPl 10 59 11.2
De iPKPl 10 59 20.8

" 26 Ud i(P) 15 09 15.9
De i(P) 15 08 42.8

" 26 Ud iP 15 23 48.4
Kurile Islands (h = 35 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Jan.	26	Ud	iP	16 27 35.1
		Kamchatka (h = N).		
"	26	Up	iP	17 21 43.9
		Um	iP	17 21 18.9
		Ud	iP	17 21 49.9
		Kurile Islands (h = N).		
"	26	Ud	iP	17 46 25.8
		Kurile Islands (h = N).		
"	26	Up	iPKPl	19 10 14.8
				micr sec
			PKPl Z'	0.2 1.4
		Ki	ePKP	19 10 03
		Sk	iPKPl	19 10 07.9
		Um	iPKPl	19 10 02.5
		Ud	iPKPl	19 10 16.6
		De	iPKPl	19 10 25.5
		Kermadec Islands (h = 60 km).		
"	26	Up	iPKPl	19 21 24.9
			i	19 21 40.8
		Ki	i	19 21 10.5
		Sk	iPKPl	19 21 17.2
			i	19 21 33.9
		Um	iPKPl	19 21 12.6
		Ud	iPKPl	19 21 26.3
			i	19 21 42.4
		De	iPKPl	19 21 35.7
		Kermadec Islands (h = 30 km).		
"	26	Ki	iP	19 53 34.2
"	26	Up	iP	20 55 04.1
		Um	iP	20 54 39.2
		Ud	iP	20 55 10.0
		Kurile Islands (h = N).		
"	26	Up	iP	21 09 40.6
		Um	iP	21 09 15.7
		Ud	iP	21 09 47.0
		Kurile Islands.		
"	26	Ki	iP	21 11 45.6
		Sk	iP	21 11 17.4
		Um	iP	21 11 59.8
			il	21 12 04.3
		Ud	el	21 11 55
		Iceland (h = 10 km).		
"	26	Up	iP	22 28 53.0
		Um	iP	22 28 27.7
		Ud	iP	22 28 59.3
		Kurile Islands (h = N).		

1976				
Jan.	26	Ud	iP	22 37 48.3
"	26	Up	iP	22 50 21.2
		Ki	iP	22 51 23.8
		Sk	iP	22 51 02.5
		Um	iP	22 50 49.9
		Ud	iP	22 50 31.9
		De	iP	22 50 04.2
		Cyprus (h = 80 km).		
"	26	Up	iPKPl	23 53 46.2
			i	23 54 01.9
				micr sec
			PKPl Z'	0.1 1.0
		Ki	ePKP	23 53 26
		Sk	iPKPl	23 53 38.8
		Um	iPKPl	23 53 33.4
		Ud	iPKPl	23 53 47.3
		De	iPKPl	23 53 56.6
		Kermadec Islands (h = N).		
"	27	Up	i	02 06 37.7
		Sk	e	02 06 27.9
		Um	iPKPl	02 06 08.7
		Ud	iPKPl	02 06 21.9
			i	02 06 44.2
"	27	Up	iPKPl	02 43 34.6
			i	02 43 45.3
		Sk	iPKPl	02 43 27.8
		Um	iPKPl	02 43 22.6
		Ud	iPKPl	02 43 35.4
		De	i	02 43 53.2
"	27	Ud	iP	02 48 37.6
"	27	Ki	i	02 54 20.7
		Um	i	02 55 01.4
"	27	Ud	iP	03 38 24.1
"	27	De	ePKP	04 20 00
		Solomon Islands (h = 40 km).		
"	27	Up	iPKPl	04 37 47.4
			i	04 38 00.3
				micr sec
			i Z'	0.1 0.9
		Ki	ePKPl	04 37 25.0
		Sk	iPKPl	04 37 39.7
			i	04 40 07.9
		Um	iPKPl	04 37 34.7
		Ud	iPKPl	04 37 48.8
			iPKP2	04 37 53.5

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Jan. 27 (cont.)

Ud	i	04 40 20.0
De	iPKPl	04 36 57.8

Kermadec Islands (h = 55 km).

" 27

Up	iP	04 58 38.4
Um	iP	04 58 13.2
Ud	iP	04 58 44.3
De	iP	04 59 02.7

Kurile Islands (h = 15 km).

" 27

Up	i	06 34 19.7
Sk	iPKPl	06 33 09.6
	i	06 34 06.8
Um	i	06 34 06.0
Ud	iPKPl	06 33 16.9
	i	06 34 18.6
De	i	06 34 27.4

Kermadec Islands (h = 50 km).

" 27 Ud iP 07 18 25.2

" 27 Ud iP 08 28 35.9

" 27 Ud iP 08 37 13.2

" 27 Ud iP 10 54 42.1

" 27 Ud iP 11 19 32.7

" 27

Up	iPKPl		11 28 33.6
	iPP		11 32 00.8
			micr sec
	PKPl	Z'	0.4 1.6
	Mx	E	1.2 20
	Mx	N	2.5 20
	Mx	Z	2.3 19
Ki	iPKPl		11 28 10.1
			micr sec
	Mx	E	0.9 18
	Mx	N	1.9 19
	Mx	Z	1.9 18
Sk	iPKPl		11 28 25.8
Um	iPKPl		11 28 20.8
Ud	iPKP		11 28 31.5
	iPKPl		11 28 35.6
De	iPKP		11 28 37.5
	iPKPl		11 28 44.5

Kermadec Islands (h = N).
M = 6.0 (Up,Ki).

" 27

Sk	e	11 39 05
Ud	iPKPl	11 39 04.5
De	iPKPl	11 39 13.9

1976
Jan. 27

Sk	iPKPl	11 57 25.4
Ud	iPKPl	11 57 34.3

" 27 Ud iP 12 27 56.8

" 27

Up	iPKPl	12 39 26.4
	i	12 39 32.6
Sk	iPKPl	12 39 20.4
Um	iPKPl	12 39 15.1
Ud	iPKPl	12 39 28.1

Kermadec Islands.

" 27

Up	iPKPl	12 58 07.4
Sk	iPKPl	12 57 59.0
Um	i	12 58 01.0
Ud	iPKPl	12 58 07.8
De	iPKPl	12 58 16.0

Kermadec Islands (h = N).

" 27

Up	iP		15 21 13.6
			micr sec
	P	Z'	0.1 1.0
Ki	ePKPl		15 20 54
Sk	iPKPl		15 21 05.5
Um	iPKPl		15 21 00.1
Ud	iPKPl		15 21 15.0
De	iPKPl		15 21 22.9

Kermadec Islands (h = 45 km).

" 27 Ud iP 16 02 48.9

" 27

Up	iP		16 18 16.2
	i		16 18 25.2
			micr sec
	P	Z'	0.1 1.0
Ki	iP		16 17 34.6
Sk	eP		16 17 49
Um	iP		16 17 58.1
	i		16 18 03.7
Ud	iP		16 18 08.9
	i		16 18 17.0

Oregon (h = N).

" 27 Ud iP 17 43 00.9

" 27

Up	iPKPl	17 46 05.4
Um	iPKPl	17 45 52.5
Ud	iPKPl	17 46 07.1
De	iPKPl	17 46 16.6

Kermadec Islands (h = 55 km).

" 27 Ud iP 17 57 31.6

" 27 Ud iP 18 00 08.9

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Jan.	27	Ud	iP	18 51 59.8
"	27	Ud	iP	19 32 00.1
		Kashmir-India (h = N).		
"	27	Sk	iP	19 38 44.4
"	27	Ki	i(P)	22 29 28.0
"	27	Ud	iP	23 26 30.7
		Greece (h = N).		
"	27	Up	iP	23 30 13.0
		Ud	iP	23 30 18.2
		Kurile Islands.		
"	27	Up	iP	23 39 29.8
		Ki	il	23 39 24.3
		Ud	iP	23 39 38.2
			il	23 40 06.2
		Japan (h = 390 km).		
"	28	Ud	iP	01 38 24.3
"	28	Up	iP	03 53 39.2
		Ud	iP	03 53 39.1
"	28	Up	iSgl	12 29 54.6
		Ki	iP	12 25 21.1
			iPgl	12 25 22.0
			i	12 25 40.3
			iSgl	12 25 43.0
		Sk	iSgl	12 28 37.8
		Um	i	12 26 14.4
			iPgl	12 26 32.0
			i	12 27 38.3
			iSgl	12 27 44.6
		Ud	iSgl	12 29 03.7
		North Norway,		
		69.1°N, 23.2°E.		
		Origin time = 12 24 54.		
		M_L = 3.0 (Up,Ki,Um,Ud).		
		By combination with Tromsoe and Finnish station readings.		
"	28	Up	iP	12 35 57.6
		Ud	iP	12 36 03.2
"	28	Up	iP	19 46 51.0
				micr sec
			P Z'	0.1 0.8
		Ki	iP	19 46 04.3
		Sk	iP	19 46 40.9
		Um	iP	19 46 25.8
			i	19 46 27.0
		(cont.)		

1976 Jan.	28	(cont.)		
		Ud	iP	19 46 57.4
		De	iP	19 47 14.8
		Kurile Islands (h = 50 km).		
"	28	Ud	eP	20 15 06
"	29	Up	iP	00 17 10.0
			i	00 17 13.0
			ipP	00 17 16.8
				micr sec
			P Z'	0.1 0.9
		Ki	eP	00 16 25
		Sk	ipP	00 17 06.4
		Um	iP	00 16 45.2
			ipP	00 16 51.9
		Ud	iP	00 17 16.9
			i	00 17 18.9
			ipP	00 17 23.0
		De	iP	00 17 34.5
		Kurile Islands.		
		h = 25 km (Up,Um,Ud).		
"	29	Up	eP	04 25 23
		Um	iP	04 25 36.0
		Ud	iP	04 25 40.4
		Caucasus (h = N).		
"	29	Ki	iP	09 45 51.7
		Ud	iP	09 46 18.5
		Philippine Islands (h = N).		
"	29	De	iP	10 06 32.5
"	29	Up	iP	14 27 55.1
				micr sec
			P Z'	0.1 0.9
		Ki	iP	14 27 09.5
		Um	iP	14 27 30.8
		Ud	iP	14 28 01.4
		De	iP	14 28 19.7
		Kurile Islands (h = 45 km).		
"	29	Up	iPKPl	17 38 41.8
		Sk	iPKPl	17 38 34.8
		Um	iPKPl	17 38 30.1
		Ud	iPKPl	17 38 43.1
		De	iPKPl	17 38 52.5
		Kermadec Islands (h = N).		
"	29	Up	iP	18 57 22.7
		Ki	iP	18 56 38.4
		Sk	i	18 57 00.2
		Um	iP	18 57 03.8
		Ud	iP	18 57 15.8
		De	iP	18 57 34.3
		Oregon (h = N).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Jan.	29	Up	iP	19 30 37.2
		Ud	iP	19 30 36.4
"	29	Um	iP	19 38 13.1
"	29	Up	eP	20 38 57
		Ud	eP	20 39 04
			i	20 39 13.1
		Kurile Islands (h = 45 km).		
"	29	Up	iP	23 36 47.9
		Um	iP	23 36 22.0
		Ud	iP	23 36 53.6
		Kurile Islands (h = 45 km).		
"	29	Up	iPKPl	23 44 21.7
			i	23 44 29.5
		Sk	ePKPl	23 44 15
		Um	iPKPl	23 44 09.6
		Ud	iPKPl	23 44 22.3
		Kermadec Islands.		
"	30	Up	iP	01 51 16.1
		Ud	iP	01 51 22.8
		Kurile Islands.		
"	30	Ki	iPKPl	03 20 33.0
			i	03 21 01.2
		Um	iPKPl	03 20 39.7
			i	03 20 47.0
		Ud	iPKP2	03 21 10.7
		North Island, New Zealand (h = 35 km).		
"	30	Up	iPKPl	11 07 02.6
		Ud	iPKPl	11 07 04.5
"	30	Ud	iP	12 04 47.4
"	30	Up	iP	13 59 51.3
		Ud	iP	13 59 57.6
		De	iP	14 00 15.8
		Kurile Islands (h = 15 km).		
"	30	Ud	iP	15 29 02.2
		Mindanao (h = 90 km).		
"	30	Ud	iP	18 04 15.9
"	30	Up	iP	20 53 14.1
		Ki	iP	20 53 23.3
		Um	iP	20 53 12.9
			i	20 53 53.9
		Ud	iP	20 53 31.0
			i	20 54 12.1
		De	iP	20 53 27.5
		Hindu Kush (h = 190 km).		

1976						
Jan.	31	Up	iP		00 36 33.6	
			ipP		00 36 46.3	
					micr	sec
			P	Z'	0.2	1.0
			pP	Z'	0.3	1.0
			Mx	E	1.7	18
			Mx	N	1.7	19
		Ki	iP		00 35 47.4	
			ipP		00 35 59.6	
					micr	sec
			P	Z'	0.2	1.0
			Mx	E	1.7	16
			Mx	N	2.2	15
		Sk	iP		00 36 23.5	
			ipP		00 36 35.3	
		Um	iP		00 36 08.4	
			ipP		00 36 20.5	
			i		00 36 29.8	
		Ud	iP		00 36 39.4	
			ipP		00 36 51.6	
			i		00 37 00.1	
		De	iP		00 36 57.5	
			ipP		00 37 09.9	
		Kurile Islands.				
		h = 45 km (Up,Ki,Sk,Um,Ud,De).				
		m = 6.2, M = 5.5 (Up,Ki).				
"	31	Up	iP		02 08 16.9	C
			i		02 08 21.5	
			ipP		02 08 28.8	
					micr	sec
			P	Z'	0.2	1.0
			Mx	E	1.7	18
		Ki	iP		02 07 30.3	
			ipP		02 07 42.2	
					micr	sec
			P	Z'	0.2	1.0
			Mx	E	0.7	15
			Mx	N	3.5	21
		Sk	iP		02 08 06.7	
			ipP		02 08 18.3	
		Um	iP		02 07 51.2	
			i		02 07 56.6	
			ipP		02 08 03.1	
		Ud	iP		02 08 22.0	
			ipP		02 08 34.5	
		De	iP		02 08 40.4	
			ipP		02 08 52.7	
		Kurile Islands.				
		h = 45 km (Up,Ki,Sk,Um,Ud,De).				
		m = 6.2, M = 5.4 (Up,Ki).				
"	31	Up	ePKPl		05 46 45	
		Um	iPKPl		05 46 32.4	
		Ud	iPKPl		05 46 45.9	
		De	iPKPl		05 46 54.9	
		Kermadec Islands (h = N).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Jan.	31	Up	iPKPl	08 40 17.7	
			iSKPl	08 43 04.0	
		Ki	iPKP	08 40 10.8	
			iSKPl	08 42 39.5	
		Sk	i(PKP)	08 40 11.3	
			iSKPl	08 42 56.8	
		Um	i(PKP)	08 40 06.1	
			iPKP	08 40 18.7	
			iSKPl	08 42 52.6	
		Ud	iPKPl	08 40 19.3	
			iSKPl	08 43 05.8	
		De	iPKPl	08 40 30.7	D
			iSKPl	08 43 14.3	
		Fiji Islands (h = 630 km).			
"	31	Up	iPKPl	09 36 00.8	
			i	09 36 15.6	
		Um	ePKPl	09 35 50	
			i	09 36 02.9	
		Ud	iPKPl	09 36 02.3	
		De	iPKPl	09 36 11.4	
		Kermadec Islands (h = 55 km).			
"	31	Ud	iP	13 35 35.4	
"	31	Ud	iP	20 31 27.3	
"	31	Up	iP	20 37 58.1	
		Ki	iP	20 37 39.5	
		Um	iP	20 37 45.3	
		Ud	iP	20 38 06.1	
		Mindanao (h = 80 km).			
"	31	Um	iP	21 34 37.4	
		Ud	i	21 35 07.7	
		Nicobar Islands (h = 80 km).			
"	31	Ud	iP	21 39 24.7	
"	31	Up	il	22 44 31.1	
		Ki	iP	22 43 56.0	
				micr	sec
			Mx E	1.7	13
			Mx N	1.4	11
			Mx Z	1.2	11
		Sk	iP	22 43 28.8	
		Um	iP	22 44 11.2	
			il	22 44 15.9	
		Ud	il	22 44 06.0	
		Iceland (h = 10 km).			

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November 10, 1977

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BOX 517
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S E I S M O L O G I C A L B U L L E T I N

U P P S A L A, K I R U N A, S K A L S T U G A N, U M E Å,

U D D E H O L M and D E L A R Y

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

F E B R U A R Y 1 - 29, 1976

1976 Feb.	1	Ud	iP		02 22 13.1	
"	1	Up	iPKPl		06 57 37.3	
					micr	sec
			PKPl	Z'	0.1	0.8
		Ki	iPKP		06 57 20.5	
		Sk	iPKPl		06 57 29.7	
		Um	iPKPl		06 57 24.5	
		Ud	iPKPl		06 57 38.9	C
		De	iPKPl		06 57 47.8	C
		Kermadec Islands (h = 60 km).				
"	1	De	iP		09 49 37.5	
"	1	Ud	iPKPl		09 54 59.0	
		De	iPKPl		09 55 09.6	
"	1	Ud	iP		10 52 20.8	
"	1	Ud	iP		11 07 17.1	
"	1	Ud	i(P)		11 24 13.0	
"	1	Up	iP		11 27 45.4	C
			i		11 27 52.7	
			iS		11 38 12	
					micr	sec
			P	Z'	0.1	1.0
			Mx	E	2.3	20
			Mx	N	1.4	19
			Mx	Z	4.1	20
		Ki	iP		11 27 27.8	C
			i		11 27 36.3	
					micr	sec
			P	Z'	0.1	1.0
			i	Z'	0.2	1.5
			Mx	E	1.0	10
		(cont.)				

1976 Feb.	1	(cont.)				
		Sk	iP		11 27 25.7	C
		Um	iP		11 27 38.9	C
			i		11 27 46.4	
			iS		11 38 05	
		Ud	iP		11 27 35.5	
		De	iP		11 27 44.5	C
			i		11 27 52.7	
		Mexico (h = 50 km).				
		m = 6.0, M = 5.6 (Up,Ki).				
"	1	Um	iSKPl		12 25 18.6	
		Ud	iPKPl		12 22 46.5	
		Fiji Islands (h = 640 km).				
"	1	De	iP		12 52 34.4	
"	1	Up	iP		12 55 46.1	
					micr	sec
			P	Z'	0.1	0.7
		Ki	iP		12 55 18.4	
					micr	sec
			P	Z'	0.1	0.5
		Sk	iP		12 55 43.5	
		Um	iP		12 55 30.0	
		Ud	iP		12 55 51.7	
		De	iP		12 56 03.4	
		Mariana Islands (h = 410 km).				
		m = 5.8 (Up,Ki).				
"	1	Up	iP		13 26 34.6	
		Sk	iP		13 27 16.5	
		Um	iP		13 27 13.5	
		Ud	iP		13 26 40.7	
			il		13 26 44.1	
		De	il		13 26 04.9	
		Greece (h = 40 km).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 1 Up iP 14 41 29.1
Ki iP 14 40 42.9
Um iP 14 41 02.0
Ud iP 14 41 34.5
Kurile Islands (h = 40 km).

" 1 Um iPP 14 44 29.0
Ud iPP 14 45 01.1
Timor (h = 15 km).

" 1 Up iP 14 51 15.1
Ki iP 14 52 25.6
Sk iP 14 51 52.1
Um eP 14 51 50
Ud iP 14 51 21.1 D
De iP 14 50 46.2 D
Greece (h = 70 km).

" 1 Um iP 15 48 53.4
Ud iP 15 49 14.0
Burma-India (h = 60 km).

" 1 Up iP 16 24 26.1
Ki iP 16 23 41.1
Um iP 16 24 00.8
Ud iP 16 24 31.8
De iP 16 24 52.1
Kurile Islands (h = 45 km).

" 1 Up iP 17 01 10.5
Um iP 17 00 44.4
Ud iP 17 01 16.2
Kurile Islands (h = 45 km).

" 1 Up iPKPl 18 15 10.8
ipPKPl 18 15 18.6
i 18 15 29.3
micr sec
pPKPl Z' 0.1 0.9
Sk ipPKPKl 18 15 11.4
i 18 15 18.9
Um iPKPl 18 14 58.7
Ud iPKPl 18 15 12.0
ipPKPKl 18 15 20.2
i 18 15 29.5
De iPKPl 18 15 21.4
ipPKPl 18 15 08.0
Kermadec Islands.
h = 25 km (Up,Ud,De).

" 1 Ud iP 20 37 10.6

" 1 Up iP 21 31 03.1
ipP 21 31 18.2
(cont.)

1976
Feb. 1 (cont.)
Um iP 21 30 42.4
ipP 21 30 57.2
Ud iP 21 31 11.6
ipP 21 31 26.7
Japan.
h = 55 km (Up,Um,Ud).

" 1 Up iP 22 08 48.9
Ud iP 22 08 54.5
Kurile Islands (h = 50 km).

" 1 Up iP 23 38 12.0
Ki iP 23 39 23.6
Sk iP 23 38 51.2
Um iP 23 38 48.6
i 23 38 52.5
Ud iP 23 38 18.3
De iP 23 37 43.3
Greece (h = 90 km).

" 2 Up iP 03 10 52.9 C
iS 03 19 35
micr sec
P Z' 1.0 1.2
Mx E 2.9 14
Mx N 4.2 17
Mx Z 7.0 16
Ki iP 03 10 00.9 C
micr sec
P Z' 0.9 1.4
Mx E 3.7 16
Mx N 2.8 15
Mx Z 3.4 16
Sk iP 03 10 37.0 C
Um iP 03 10 25.0 C
iS 03 18 42
Ud iP 03 10 56.0 C
De iP 03 11 17.3 C
iPP 03 13 46.9
Kamchatka (h = N).
m = 6.8, M = 5.8 (Up,Ki).

" 2 Up iP 03 41 21.0 C
i 03 42 31.2
micr sec
P Z' 0.3 1.2
Ki iP 03 40 28.6 C
i 03 40 40.8
micr sec
P Z' 0.2 1.1
Sk iP 03 41 04.8
Um iP 03 40 53.7 C
Ud iP 03 41 24.8 C
De iP 03 41 45.5 C
Kamchatka (h = 50 km).
m = 6.1 (Up,Ki).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Feb.	2	Up	e(PKP)	04 04 24	
			iPKP	04 04 31.8	
		Ki	iPKP	04 04 18.6	C
		Sk	iPKP	04 04 28.1	
			iSKP1	04 07 27.8	
		Um	i(PKP)	04 04 20.1	
			iPKP	04 04 26.2	
			iSKP1	04 07 22.9	
		Ud	i(PKP)	04 04 20.6	
			iPKP	04 04 34.0	
			iSKP1	04 07 35.5	
		De	i(PKP)	04 04 33.0	
			iPKP	04 04 41.4	
		Tonga Islands (h = 330 km).			
"	2	Ud	iP	04 06 17.8	
"	2	Up	iP	05 26 07.5	
		Ki	iP	05 25 22.0	
		Um	iP	05 25 42.4	
			i	05 25 56.3	
		Ud	iP	05 26 13.6	
			i	05 26 28.1	
		De	iP	05 26 32.0	
		Kurile Islands (h = 45 km).			
"	2	Up	iP	06 13 12.4	
		Ki	iP	06 12 26.5	
		Um	iP	06 12 47.3	
		Ud	iP	06 13 20.0	
		Kurile Islands (h = 45 km).			
"	2	Up	iP	06 27 02.9	
		Ki	iP	06 26 16.9	
		Um	iP	06 26 37.6	
		Ud	iP	06 27 09.1	
		Kurile Islands (h = 45 km).			
"	2	Up	iP	07 12 47.9	
		Ki	iP	07 11 56.1	
		Um	iP	07 12 20.0	
		Ud	iP	07 12 52.5	
		Kamchatka (h = N).			
"	2	Up	iP	07 58 12.5	
		Ud	iP	07 58 17.7	
		Kurile Islands (h = 45 km).			
"	2	Up	iPKP1	09 43 42.3	
		Ud	iPKP1	09 43 44.4	
"	2	Um	iP	11 46 42.3	
		Ud	iP	11 47 13.4	
		De	iP	11 47 40.6	
"	2	Ud	i(P)	12 08 53.5	

1976 Feb.	2	Up	iP		12 17 32.2	
					micr	sec
			P	Z'	0.1	0.8
		Sk	iP		12 18 14.6	
		Um	iP		12 18 12.2	
			i		12 18 20.4	
		Ud	iP		12 17 38.5	
		Greece-Albania (h = N).				
"	2	Up	iP		13 20 39.3	
					micr	sec
			Mx	E	1.2	13
			Mx	N	2.0	16
			Mx	Z	3.0	15
		Ki	iP		13 20 11.1	
			i		13 20 17.1	
			iS		13 22 38.3	
					micr	sec
			i	Z'	0.3	1.5
			Mx	E	2.2	14
			Mx	N	2.6	11
			Mx	Z	1.2	11
		Sk	eP		13 19 47	
			iS		13 22 00.8	
		Um	iP		13 20 30.4	
			i		13 20 36.3	
		Ud	iP		13 20 16.9	
			il		13 20 26.4	
		De	il		13 20 54.1	
		Iceland (h = 5 km).				
		M = 4.6 (Up,Ki).				
"	2	Up	ipP		13 42 33.2	
			i		13 42 46.2	
		Um	iP		13 43 05.2	
			ipP		13 43 12.9	
		Ud	iP		13 42 37.1	
			ipP		13 42 45.0	
		Turkey.				
		h = 30 km (Um,Ud).				
"	2	Um	iSKP1		14 10 29.1	
		Ud	iPKP1		14 07 58.1	D
		De	iPKP1		14 08 09.0	D
		Fiji Islands (h = 560 km.)				
"	2	Up	iPKP2		15 06 28.0	
		Um	iPKP1		15 06 11.8	
		Ud	iPKP1		15 06 25.7	D
"	3	Um	iP		05 35 44.4	
		Ud	iP		05 36 03.8	
		Celebes Sea (h = 580 km).				
"	3	Ud	iP		05 59 40.3	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Feb.	3	Ud	iP		10 11 18.5	
		Hindu Kush (h = 210 km).				
"	3	Ki	iP		10 58 45.9	
					micr	sec
			P	Z'	0.6	1.0
		Um	iP		10 58 48.4	
		Ud	eP		10 59 07	
		Banda Sea (h = 610 km).				
"	3	Ud	iP		11 25 31.4	
"	3	Um	iPKP		11 31 13.3	
		Ud	iPKPl		11 31 18.8	
		De	iPKPl		11 31 27.3	
		Fiji Islands (h = 490 km).				
"	3	Ud	iP		12 41 16.2	
"	3	Up	iPKP		12 46 05.9	C
			i		12 46 25.0	
			i		12 46 55.0	
			iSKPl		12 49 00.3	
					micr	sec
			PKP	Z'	0.3	0.6
		Ki	i(PKP)		12 45 45.6	
			iPKP		12 45 53.7	
			iSKPl		12 48 39.4	
					micr	sec
			PKP	Z'	1.2	2.8
			SKPl	Z'	0.9	1.7
		Sk	iPKPl		12 45 59.8	
			iSKPl		12 48 55.2	
		Um	i(PKP)		12 45 52.3	
			iPKPl		12 45 54.4	
			iSKPl		12 48 50.5	
		Ud	iPKPl		12 46 07.7	C
			i		12 46 26.8	
			iSKPl		12 49 02.6	
		De	iPKP		12 46 15.5	C
			iPKPl		12 46 18.5	C
			iSKPl		12 49 09.9	
		Tonga-Kermadec Islands (h = 480 km).				
"	3	Ud	iP		12 57 10.4	
"	3	Ki	ipP		13 34 35.0	
		Ud	iP		13 33 00.0	
		Rumania (h = 180 km).				
"	3	Ud	iP		14 20 37.9	
"	3	Up	il		14 43 02.0	
		(cont.)				

1976 Feb.	3	(cont.)				
		Ki	iP		14 42 16.6	
		Sk	iP		14 42 51.6	
		Um	iP		14 42 32.2	
			i		14 42 33.4	
		Ud	iP		14 43 06.0	
			il		14 43 08.9	
		De	iP		14 43 25.4	
			i		14 43 26.4	
		Kurile Islands (h = 45 km).				
"	3	Ki	ipP		15 03 18.7	
		Pakistan (h = N).				
"	3	Up	iP		16 46 23.2	
			ipP		16 46 38.1	
			i		16 46 56.6	
					micr	sec
			P	Z'	0.1	0.9
			i	Z'	0.1	0.8
			Mx	E	0.6	10
			Mx	N	1.1	11
			Mx	Z	1.8	19
		Ki	iP		16 47 01.2	
			ipP		16 47 15.2	
			i		16 47 35.8	
					micr	sec
			P	Z'	0.1	1.2
			pP	Z'	0.3	0.8
		Sk	iP		16 47 00.4	
		Um	iP		16 46 35.0	
			ipP		16 46 50.8	
		Ud	iP		16 46 39.9	
		De	iP		16 46 25.3	
			ipP		16 46 39.6	
			i		16 46 57.2	
		Iran-USSR.				
		h = 60 km (Up,Ki,Um,De).				
		m = 5.4 (Up,Ki).				
"	3	Up	iPKPl		18 22 39.0	
		Ki	iPKP		18 22 36.5	
					micr	sec
			PKP	Z'	0.1	1.0
		Sk	iPKP		18 22 45.1	
		Um	iPKP		18 22 39.0	
			i		18 22 43.4	
		Ud	iPKPl		18 22 39.9	
		De	iPKPl		18 22 51.2	
		Tonga Islands (h = 210 km).				
"	3	Up	iP		18 48 20.8	
		Ud	iP		18 48 26.8	
"	3	Ud	iP		18 59 16.5	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 4 Up iP 00 08 15.9 C
iS 00 16 38
micr sec
P Z' 4.6 1.7
Mx E 1.1 19
Mx N 3.7 25
Mx Z 5.9 25
Ki iP 00 07 21.5 C
iS 00 15 04
micr sec
P Z' 1.3 1.4
Mx E 0.8 14
Mx N 1.8 18
Mx Z 1.5 18
Sk iP 00 07 57.9 C
Um iP 00 07 47.5 C
iS 00 15 44
Ud iP 00 08 19.1 C
De iP 00 08 40.2 C
Kamchatka (h = N).
m = 7.1, M = 5.4 (Up,Ki).

" 4 Ki iP 00 16 25.1
Um iP 00 16 39.8
Arizona (h = 10 km).

" 4 Up iPKPl 01 43 52.7
Sk iPKPl 01 43 46.0
Um iPKPl 01 43 40.5
Ud iPKPl 01 43 54.3
De iPKPl 01 44 02.8
Kermadec Islands.

" 4 Ud iP 04 02 48.7

" 4 Ud iP 04 27 24.1

" 4 Up iPKPl 05 12 46.1
Sk iPKPl 05 12 37.9
Um iPKPl 05 12 33.5
Ud iPKPl 05 12 46.9
De iPKPl 05 12 55.7
Kermadec Islands.

" 4 Ud iP 06 11 12.4

" 4 Up iP 09 14 20.8
i 09 14 27.4
i 09 14 34.8
i 09 14 49.5
iS 09 24 50
micr sec
P Z' 0.6 1.4
i Z' 0.2 1.0
i Z' 0.5 1.0
i Z' 1.0 1.0
(cont.)

1976
Feb. 4 (cont.)
Up micr sec
Mx E 76 21
Mx N 100 22
Mx Z 221 23
Ki iP 09 14 11.5
i 09 14 18.0
i 09 14 24.9
i 09 14 42.2
iS 09 24 36
micr sec
P Z' 1.5 2.0
i Z' 1.6 2.4
i Z' 3.5 2.4
i Z' 3.0 1.7
Mx E 156 18
Mx N 185 20
Mx Z 155 19
Sk iP 09 14 03.7
i 09 14 09.3
Um iP 09 14 19.5
i 09 14 25.7
iS 09 24 45
Ud iP 09 14 11.1
i 09 14 17.6
i 09 14 24.1
i 09 14 40.3
De iP 09 14 17.7
i 09 14 31.3
i 09 14 47.0
Guatemala (h = 5 km).
m = 6.7, M = 7.4 (Up,Ki).
Multiple event, with successively increasing amplitudes.

" 4 Up iP 09 43 11.7
ipP 09 43 13.5
micr sec
pP Z' 0.1 1.0
Ki iP 09 43 02.3
ipP 09 43 03.4
micr sec
pP Z' 0.1 1.0
Sk iP 09 42 54.8
Um iP 09 43 09.5
ipP 09 43 11.5
Ud iP 09 43 03.0
ipP 09 43 04.1
De iP 09 43 09.2
Guatemala.
h = 5 km (Up,Ki,Um,Ud).
m = 6.0 (Up,Ki).

" 4 Um iP 10 16 28.5
Guatemala (h = 5 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 4 Up iPKPl 11 20 44.9
i 11 20 46.4
micr sec
i Z' 0.1 0.9
Ki iPKP 11 20 29.9
Sk iPKPl 11 20 36.1
Um iPKPl 11 20 32.7
Ud iPKPl 11 20 45.7
De iPKPl 11 20 54.6
Kermadec Islands (h = N).

" 4 Um iP 11 37 40.2
Guatemala (h = 5 km).

" 4 Ud iP 12 05 26.9

" 4 Ud iP 12 26 27.0

" 4 Up iSgl 13 38 15.5
Ud iSgl 13 37 20.0
Southwest Norway,
58.5°N, 6.5°E.
M_L = 2.2 (Ud).
Origin time = 13 35 14.
By combination with Bergen
and Kongsberg readings.

" 4 Ud iP 14 30 36.7
Kurile Islands (h = N).

" 4 Up iP 14 31 48.8 C
micr sec
P Z' 0.2 1.0
Ki iP 14 31 15.0 C
micr sec
P Z' 0.2 1.0
Sk iP 14 31 22.8 C
Um iP 14 31 34.3 C
Ud iP 14 31 40.7 C
De iP 14 31 56.7 C
Nevada.
m = 6.3 (Up,Ki).
Underground explosion.

" 4 Up iP 14 51 48.7 C
micr sec
P Z' 0.2 1.1
Ki iP 14 51 14.8 C
micr sec
P Z' 0.4 1.5
Sk iP 14 51 22.8 C
Um iP 14 51 34.2 C
Ud iP 14 51 40.8 C
De iP 14 51 57.1 C
(cont.)

1976
Feb. 4 (cont.)
Nevada.
m = 6.3 (Up,Ki).
Underground explosion.

" 4 Um iP 16 53 28.9
Guatemala (h = 5 km).

" 4 Ud iP 17 40 52.9
i 17 41 34.2

" 4 Ud iP 21 36 36.2

" 4 Ud iP 21 37 56.8

" 4 Ud iP 22 33 38.3

" 4 Up iP 23 39 03.4 C
micr sec
P Z' 0.2 0.9
Ki iP 23 38 34.3 C
Sk iP 23 39 04.2 C
Um iP 23 38 46.2
Ud iP 23 39 12.0 C
De iP 23 39 23.4 C
Ryukyu Islands (h = 60 km).

" 5 Um iPKPl 01 29 45.3
Ud iPKPl 01 29 59.6

" 5 Up iP 04 20 52.0 D
micr sec
P Z' 0.1 0.7
Ki iP 04 20 26.6 D
micr sec
P Z' 0.2 1.2
Sk iP 04 20 54.0
Um iP 04 20 36.0 D
Ud iP 04 21 01.2 D
De iP 04 21 09.7
Ryukyu Islands (h = N).
m = 6.0 (Up,Ki).

" 5 Up iP 08 23 17.1 C
Ki iP 08 23 53.8
Um iP 08 23 31.8
Ud iP 08 23 28.9 C
Arabian Sea (h = N).

" 5 Ud iPKPl 08 25 13.5
De iPKPl 08 25 25.0

" 5 Up iP 09 46 40.6
Ki iP 09 45 44.0
i 09 45 51.4
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 5 (cont.)

Ki			micr	sec	
	P	Z'	0.1	1.1	
Um	iP		09 46 13.0		
Ud	iP		09 46 37.3		
De	iP		09 47 00.7		

Alaska (h = 35 km).

" 5	Up	iPKPl	09 48 47.3		C
			micr	sec	
		PKPl Z'	0.1	1.1	
	Sk	iPKPl	09 48 39.6		
	Ud	iPKPl	09 48 49.0		
	De	iPKPl	09 48 57.7		

Kermadec Islands (h = N).

" 5	Up	iPP	10 11 39.4		
		iSKS	10 17 40		
			micr	sec	
		Mx E	1.2	20	
		Mx Z	2.0	21	
	Um	iPP	10 12 01.5		
		iSKS	10 17 53		
		iS	10 19 23		
	Ud	i(PP)	10 11 23.2		
		iPP	10 11 26.7		
	De	iPP	10 11 22.5		

Chile-Bolivia (h = 100 km).

" 5	Um	iP	10 22 52.1		
	Ud	iP	10 23 09.3		
" 5	Up	iP	12 13 15.6		
		i	12 13 39.3		
	Ki	iP	12 13 20.6		
	Sk	iP	12 13 38.8		
	Um	iP	12 13 12.0		
	Ud	iP	12 13 28.8		
	De	iP	12 13 28.3		

India (h = 35 km).

" 5	Up	iPKPl	12 22 49.3		
	Ud	iPKPl	12 22 48.8		
	De	iPKP2	12 23 05.3		

Kermadec Islands (h = N).

" 5	Ud	iP	12 27 01.3		
	De	iP	12 27 16.3		
" 5	Up	iP	17 24 10.0		C
			micr	sec	
		P Z'	0.3	1.0	
	Ki	iP	17 23 25.7		C
			micr	sec	
		P Z'	0.6	1.2	

(cont.)

1976
Feb. 5 (cont.)

Sk	iP	17 24 00.8		C	
Um	iP	17 23 45.6		C	
Ud	iP	17 24 16.4		C	
De	iP	17 24 33.2		C	

Japan (h = 80 km).
m = 6.4 (Up,Ki).

" 5	Ud	iP	18 10 23.8		
		i	18 10 27.1		
" 5	Um	iP	18 14 17.0		
	Ud	iP	18 14 23.6		
" 5	Up	iPKPl	21 11 57.9		
	Sk	iPKPl	21 11 50.9		
	Um	iPKPl	21 11 45.6		
	Ud	iPKPl	21 11 58.8		
		i	21 12 15.9		
	De	iPKPl	21 12 08.1		

Kermadec Islands.

" 5	Ud	iP	21 27 19.3		
" 6	Up	iSKPl	00 23 27.5		
	Um	iSKPl	00 23 15.1		
	Ud	i	00 23 24.6		

Fiji Islands (h = 590 km).

" 6	Up	i(P)	00 28 47.9		
" 6	Up	iPKPl	01 52 13.1		
	Sk	ePKPl	01 52 07		
	Um	iPKPl	01 52 01.4		C
	Ud	iPKPl	01 52 14.4		

Kermadec Islands.

" 6	Up	iPKPl	02 10 14.5		
		i	02 10 35.5		
			micr	sec	
		PKPl Z'	0.1	0.8	
	Ki	iPKPl	02 09 53.6		
	Sk	iPKPl	02 10 09.5		
		i	02 10 10.5		
	Um	iPKP	02 10 03.4		
		iPKPl	02 10 05.1		
	Ud	iPKP	02 10 11.1		
		iPKPl	02 10 16.4		
	De	iPKP	02 10 16.3		

South of Kermadec Islands (h = 60 km).

" 6	Up	iPKPl	03 40 21.5		
	Ud	iPKPl	03 40 22.6		
	De	iPKPl	03 40 31.0		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Feb.	6	Up	iPKPl		03 45 59.9	
		Sk	iPKPl		03 45 55.3	
		Um	iPKPl		03 45 49.6	
		Ud	iPKPl		03 46 01.8	
		South of Kermadec Islands.				
"	6	Um	iP		04 23 46.0	
		Guatemala (h = 5 km).				
"	6	De	iP		04 41 57.2	
"	6	Ki	iP		07 26 34.1	
		Sk	iP		07 26 06.5	
		Um	iP		07 26 51.6	
			il		07 26 56.4	
		Ud	il		07 26 45.9	
		Iceland (h = 5 km).				
"	6	Um	iP		09 07 59.3	
"	6	Ud	iP		09 39 28.3	
"	6	Um	iP		09 40 20.8	
"	6	Ud	iP		13 44 03.3	
"	6	Ud	iP		14 47 09.4	
"	6	De	iP		15 42 34.0	
"	6	Um	iP		16 12 35.9	
		Ud	iP		16 13 01.5	
"	6	Um	iP		16 32 12.9	
		Ud	iP		16 32 32.9	
		De	iP		16 32 30.3	
		Afghanistan-USSR (h = 190 km).				
"	6	Up	i(PP)		17 13 17.2	
					micr	sec
			Mx	E	1.3	22
			Mx	N	1.4	25
			Mx	Z	3.8	27
		Ki			micr	sec
			Mx	N	2.1	24
		Um	i(PP)		17 12 42.4	
			iPP		17 13 01.4	
		Ud	i(PP)		17 13 15.9	
		De	i(PP)		17 13 13.1	
		New Guinea (h = 35 km).				
		M = 5.5 (Up,Ki).				
"	6	Up	iP		18 24 43.3	
		Ki	iP		18 24 34.7	
		Sk	iP		18 24 26.8	
		(cont.)				

1976 Feb.	6	(cont.)				
		Um	iP		18 24 42.0	C
		Ud	iP		18 24 34.2	
		De	iP		18 24 41.3	
		Guatemala (h = 5 km).				
"	6	Up	iP		18 32 01.4	C
			ipP		18 32 04.7	
			iS		18 42 42	
					micr	sec
			pP	Z'	0.7	1.7
			Mx	E	1.0	18
			Mx	Z	3.9	22
		Ki	iP		18 31 51.5	C
			ipP		18 31 54.6	
					micr	sec
			P	Z'	0.2	1.6
			pP	Z'	1.4	1.9
			Mx	E	1.6	17
			Mx	N	2.0	18
			Mx	Z	4.2	21
		Sk	iP		18 31 43.7	C
			ipP		18 31 47.1	
		Um	iP		18 31 59.4	C
			ipP		18 32 02.8	
			iS		18 42 34	
		Ud	iP		18 31 51.1	
			ipP		18 31 55.6	
		De	iP		18 31 58.6	C
			ipP		18 32 02.0	
		Guatemala.				
		h = 10 km (Up,Ki,Sk,Um,Ud,De).				
		m = 6.7, M = 5.5 (Up,Ki).				
"	6	Up	i		18 46 02.7	
			iRg		18 46 06.4	
		Ud	iRg		18 45 50.7	
		Central Sweden.				
		Near-surface event.				
"	6	Ud	iP		18 50 00.9	
			i		18 50 09.4	
"	6	Up	iP		19 08 49.1	
		Ud	iP		19 08 37.7	
"	6	Up	iP		19 09 57.2	
		Ud	iP		19 09 44.4	
"	7	Up	iP		01 25 15.3	
		Um	iP		01 24 49.8	
		Ud	iP		01 25 21.3	
		Kurile Islands (h = N).				
"	7	Up	eP		03 43 58	
			i		03 44 10.4	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 7 (cont.)

	Up	i		03 44 21.3	
				micr	sec
		i	Z'	0.1	0.8
	Ki	iP		03 44 30.5	
		i		03 44 53.7	
	Sk	eP		03 44 34	
	Um	iP		03 44 07.8	
	Ud	iP		03 44 15.2	
		i		03 44 28.1	
		i		03 44 40.7	
	De	iP		03 44 03.6	
	Caspian Sea (h = 80 km).				
" 7	Up	iP		05 19 38.4	
	Ud	iP		05 19 32.8	
		i		05 19 44.7	
" 7	Up	iP		07 01 32.3	
	Um	iP		07 01 06.1	
	Ud	iP		07 01 38.0	
	Kurile Islands.				
" 7	Up	iPKPl		07 27 35.5	
	Ki	iPKP		07 27 27.7	
		iSKPl		07 30 01.5	
	Sk	ePKP		07 27 32	
	Um	i(PKP)		07 27 21.6	
		iPKP		07 27 29.4	
		iSKPl		07 30 12.3	
	Ud	iPKPl		07 27 37.6	
		i		07 27 46.8	
	De	iPKPl		07 27 48.0	
	Fiji Islands (h = 610 km).				
" 7	Ki	iP		10 44 33.8	
	Um	iP		10 45 01.7	
	Ud	iP		10 45 26.1	
	Alaska Peninsula (h = 80 km).				
" 7	Ud	iP		12 46 43.3	
" 7	Ud	iP		13 16 06.9	
" 7	Up	iP		14 09 54.3	
	Um	iP		14 10 33.7	
	Ud	iP		14 10 10.7	
" 7	Um	iP		15 18 33.9	
	Ud	iP		15 19 05.3	
	Kurile Islands (h = N).				
" 7	Up	iP		16 03 25.5	
	Ud	iP		16 03 40.6	
" 7	Um	eP		18 12 42	
	Ud	eP		18 12 14	
	Greece (h = N).				

1976
Feb. 7

	Ud	iP		19 29 45.8	
" 7	Um	iP		20 22 10.5	
	Ud	iP		20 22 24.4	
" 7	Um	iP		20 23 48.1	
	Ud	iP		20 24 02.2	
" 7	Up	iP		20 49 22.5	
		i		20 50 07.1	
		i		20 51 25.2	
		i		20 52 39.5	
	Ki	eP		20 51 11	
		i		20 56 33.0	
	Sk	eP		20 50 23	
		i		20 53 26.7	
		i		20 55 05.1	
	Um	iP		20 50 09.7	
		i		20 52 47.6	
		i		20 53 06.5	
		i		20 54 26.3	
	Ud	iP		20 49 39.5	
		i		20 51 58.3	
		i		20 52 15.7	
		i		20 53 29.4	
	De	iP		20 48 59.9	
" 7	Up	iP		23 26 44.5	
	Um	iP		23 27 29.9	
	Ud	iP		23 26 51.8	
" 7	Ud	eP		23 31 17	
" 8	Ki	iP		06 01 52.0	
	Um	iP		06 02 10.2	
	Sea of Japan (h = 270 km).				
" 8	Up	iP		08 26 19.9	
		i		08 26 24.3	
		i		08 27 05.6	
		iS		08 36 47	
				micr	sec
		i	Z'	0.1	1.1
		Mx	E	2.6	22
		Mx	N	1.8	20
		Mx	Z	5.1	19
	Ki	i		08 26 35.6	
		i		08 27 07.7	
				micr	sec
		i	Z'	0.2	1.5
		Mx	E	2.7	18
		Mx	N	2.3	18
		Mx	Z	5.8	22
	Sk	iP		08 26 03.7	
	Um	iP		08 26 20.3	
		i		08 26 23.9	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 8 (cont).

Um	i	08 27 02.8	
	iS	08 36 44	
Ud	iP	08 26 11.4	
	i	08 26 56.8	

Honduras (h = 5 km).
M = 5.7 (Up,Ki).

" 8 Ud eP 08 43 04
Greece (h = 35 km).

" 8

Up	il	11 40 27.3
Ki	iP	11 39 38.6
Um	iP	11 40 00.6
	i	11 40 11.2
Ud	iP	11 40 30.3
	il	11 40 32.9

Kurile Islands (h = N).

" 8 Ud iP 15 22 49.1

" 8 Ud iP 19 01 00.1

" 8

Ud	iP	20 11 44.1
De	iP	20 11 13.8

Turkey (h = 5 km).

" 8 Um iP 21 21 01.9

" 9

Up	iP	02 27 56.4
Um	iP	02 27 31.8
Ud	iP	02 28 02.5
De	iP	02 28 20.2

Kurile Islands (h = N).

" 9

Up	iP		02 44 31.1	
Ki	iP		02 44 40.3	C
			micr	sec
	P	Z'	0.1	1.0
Sk	iP		02 44 19.0	C
Um	iP		02 44 38.9	
Ud	iP		02 44 19.7	C
De	iP		02 44 18.2	C

Windward Islands
(h = 180 km).

" 9

Um	iP	05 57 26.3
Ud	iP	05 57 56.6 C

Japan (h = 25 km).

" 9 Ud iP 06 56 23.4

" 9 Up iP 07 58 08.5
(cont.)

1976
Feb. 9 (cont.)
Ud iP 07 58 14.2
Kurile Islands (h = N).

" 9 De iPKPl 09 52 41.4
Fiji Islands (h = 400 km).

" 9

Up	iP	11 57 23.5
	i	11 57 33.4
Ki	iP	11 57 14.8
	i	11 57 22.2
Sk	iP	11 57 06.0
Um	iP	11 57 22.8
	i	11 57 27.5
	i	11 57 31.7
Ud	iP	11 57 14.5
	i	11 57 23.6
De	iP	11 57 20.9
	i	11 57 30.4

Guatemala (h = 5 km).

" 9

Up	iPKPl	13 53 07.1
Ud	iPKPl	13 53 08.1
De	iPKPl	13 53 17.7

Kermadec Islands (h = 45 km).

" 9

Up	iPKPl	13 59 29.6
Sk	iPKPl	13 59 22.4
Um	iPKPl	13 59 17.8
Ud	iPKPl	13 59 31.3
De	iPKPl	13 59 40.3

Kermadec Islands.

" 9

Ki	iP	19 08 26.0
Ud	iP	19 09 23.7

Kamchatka (h = 50 km).

" 9

Up	eP		21 42 40	
Ki	iP		21 42 17.4	C
			micr	sec
	P	Z'	0.9	1.8
Sk	iP		21 42 18.3	
Um	iP		21 42 30.7	C
Ud	iP		21 42 30.1	
De	iP		21 42 39.7	

Mexico (h = 50 km).

" 10

Up	iPKPl	04 35 32.0
Um	iPKPl	04 35 20.6
Ud	iPKPl	04 35 33.2
De	iPKPl	04 35 43.3

Kermadec Islands (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Feb.	10	Um	iPKPl	05 43 07.0	
		Ud	iPKPl	05 43 19.2	
"	10	Up	iP	06 30 27.1	C
		Ki	iP	06 30 18.4	
		Um	iP	06 30 23.3	C
			i	06 30 29.9	
		Ud	eP	06 30 18	
		Guatemala (h = 5 km).			
"	10	Up	iP	07 51 33.7	
				micr sec	
			P Z'	0.1 1.0	
		Ki	iP	07 50 46.3	
			i	07 51 02.8	
		Um	iP	07 51 08.5	
		Ud	iP	07 51 40.2	C
		Kurile Islands (h = 45 km).			
"	10	Up	il	15 55 23.8	
		Ud	iPKPl	15 55 19.3	
			il	15 55 25.5	
"	10	Ki	iP	19 03 00.4	
		Um	iP	19 03 17.7	
		Ud	iP	19 03 40.9	
		Volcano Islands (h = 270 km).			
"	10	Up	iP	22 44 50.0	
			i	22 45 02.3	
				micr sec	
			P Z'	0.1 1.0	
		Ki	iP	22 44 03.8	C
			i	22 44 16.0	
				micr sec	
			P Z'	0.1 1.0	
		Sk	iP	22 44 40.4	
		Um	iP	22 44 25.0	C
			i	22 44 35.6	
		Ud	iP	22 44 56.0	C
			i	22 45 07.6	
		Kurile Islands (h = 45 km).			
		m = 5.9 (Up,Ki).			
"	11	Um	iP	01 26 49.4	
		Turkey (h = 10 km).			
"	11	Um	iP	01 49 08.6	
"	11	Ki	iP	02 01 03.0	
		Ud	iP	02 01 26.5	
		Talaud Islands (h = 90 km).			
"	11	Um	iPKP	05 21 41.0	
		Ud	iPKP	05 21 49.0	
		Solomon Islands (h = 70 km).			

1976 Feb.	11	Up	iP	07 47 15.2	
		Ud	iP	07 47 19.1	
"	11	Ud	iPKP	22 03 11.9	
		Samoa Islands (h = N).			
"	12	Sk	iP	01 48 13.7	
		Ud	iP	01 48 43.7	
"	12	Ud	iP	01 55 33.3	
"	12	Up	iP	04 14 16.1	
				micr sec	
			P Z'	0.1 0.8	
		Um	iP	04 13 50.6	
		Ud	iP	04 14 22.1	
		Kurile Islands (h = 50 km).			
"	12	Um	iPKP	08 00 31.8	
		Ud	iPKP	08 00 40.9	
		De	iPKP	08 00 45.9	D
"	12	Up	iP	14 56 48.4	C
			i	14 57 11.0	
				micr sec	
			P Z'	0.4 1.0	
		Ki	iP	14 56 14.1	C
			i	14 56 23.4	
				micr sec	
			P Z'	0.3 1.1	
			i Z'	0.4 1.2	
		Sk	iP	14 56 22.2	C
		Um	iP	14 56 33.6	C
			i	14 56 42.4	
		Ud	iP	14 56 40.4	C
		De	iP	14 56 57.1	C
		Nevada.			
		m = 6.5 (Up,Ki).			
		Underground explosion.			
"	12	Ud	iP	15 09 36.6	
"	12	Um	iP	18 00 32.2	
"	12	Ki	iPKP	18 13 05.3	
		Um	iPKP	18 13 11.8	
		Santa Cruz Islands (h = 40 km).			
"	12	Ud	iP	21 04 23.5	
"	12	Up	iPKPl	22 13 11.9	
		Ud	iPKPl	22 13 13.5	
			i	22 13 19.0	
		De	iPKPl	22 13 23.3	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 13 Ud iP 02 32 28.1

" 13 Up i 06 27 35.3
Sk iPKPl 06 27 23.7
Um iPKPl 06 27 18.1
Ud iPKPl 06 27 31.0
De iPKPl 06 27 39.7
Kermadec Islands (h = N).

" 13 Up iPKPl 06 30 27.0
Sk iPKPl 06 30 19.8
Um iPKPl 06 30 14.2
Ud iPKPl 06 30 28.3
Kermadec Islands.

" 13 Up i 07 03 18.5
iRg 07 03 22.1
micr sec
Rg Z' 0.1 1.0
Ud iPgl 07 03 09.2
i 07 03 27.8
iSgl 07 03 29.5
iRg 07 03 37.1
De eSgl 07 04 08
Central Sweden.
Approximate location
59°N, 16°E.
Origin time = 07 02 43.
Near-surface event.

" 13 Ud iP 07 28 42.3

" 13 Up iP 07 32 33.1
Ud iP 07 32 41.2
Greece (h = 5 km).

" 13 Up iP 08 19 55.8
iS 08 30 12
micr sec
P Z' 0.1 0.9
Mx E 4.1 18
Mx N 3.9 17
Mx Z 7.0 16
Ki iP 08 19 37.4
i 08 19 45.9
micr sec
P Z' 0.1 1.3
i Z' 0.2 1.3
Mx E 3.3 15
Mx N 3.3 15
Mx Z 2.7 12
Sk iP 08 20 00.9
Um iP 08 19 43.2
i 08 19 51.6
iS 08 29 50
(cont.)

1976
Feb. 13 (cont.)
Ud iP 08 20 05.6 C
i 08 20 13.9
De iP 08 20 11.8
Luzon (h = 45 km).
m = 6.0, M = 6.0 (Up,Ki).

" 13 Up iP 10 46 12.1
iS 10 56
micr sec
P Z' 0.1 0.8
Mx E 4.8 16
Mx N 4.8 16
Mx Z 10.0 15
Ki iP 10 45 53.6
i 10 46 03.8
micr sec
P Z' 0.2 1.3
i Z' 0.7 1.9
Mx E 14 16
Mx N 7.2 15
Mx Z 18 18
Sk eP 10 46 18
i 10 46 28.8
Um iP 10 46 00.4
i 10 46 06.6
iS 10 56 07
Ud iP 10 46 20.1
Mindoro (h = 30 km).
m = 6.2, M = 6.3 (Up,Ki).

" 13 Um iP 12 39 15.7
ipP 12 39 24.8
Panama (h = N).

" 13 Ud iP 15 04 32.8

" 13 Ud eP 21 09 31
Afghanistan-USSR (h = 170 km).

" 14 Ud iP 00 25 30.5

" 14 Up iP 01 05 02.9
Ud eP 01 05 17

" 14 Up iPKP 03 29 48.6 C
micr sec
PKP Z' 0.1 1.0
Ki iPKPl 03 29 52.0 C
iPKP 03 30 00.3
micr sec
PKPl Z' 0.2 1.5
PKP Z' 0.4 1.4
Sk iPKP 03 29 50.1 C
Um i(PKP) 03 29 47.0
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 14 (cont.)

Um	iPKP	03 29 56.0	
Ud	iPKP	03 29 45.7	C
	i	03 29 54.5	
De	iPKP	03 29 42.2	C

Drake Passage (h = 40 km).

" 14

Up	iPKPl	08 49 28.4	
Sk	iPKPl	08 49 23.8	
Um	iPKPl	08 49 18.8	C
	i	08 49 31.4	
Ud	iPKPl	08 49 32.5	
De	ePKPl	08 49 43	

Kermadec Islands (h = 35 km).

" 14

Up	ipP	09 17 29.5	
Um	iP	09 16 54.5	
	ipP	09 17 08.3	
Ud	eP	09 17 22	
	ipP	09 17 36.3	

Japan.
h = 50 km (Um,Ud).

" 14

Up	il	09 26 12.5	
Sk	il	09 26 06.6	
Um	iPKPl	09 25 54.6	
	il	09 26 01.0	
	i2	09 26 07.3	
Ud	ePKPl	09 26 07	
	il	09 26 13.9	
	i2	09 26 19.3	
De	il	09 26 21.9	

Kermadec Islands.
Multiple event.

" 14

Up	iSgl	12 07 06.9	
Ud	iSgl	10 07 05.9	
De	iPgl	10 04 43.2	
	iSgl	10 05 09.6	

South Baltic Sea.
Origin time = 10 04 08.

" 14

Up	iP	11 01 43.9	D
	ipP	11 03 39.8	
	iS	11 11 06.7	
		micr sec	
	P Z'	0.5 0.9	
Sk	iP	11 01 41.1	D
	iPP	11 04 55.3	
Um	iP	11 01 26.4	D
	ipP	11 03 29.5	
	iPP	11 04 35.6	
	iS	11 10 36.7	
Ud	iP	11 01 50.8	D
	ipP	11 03 51.3	

(cont.)

1976
Feb. 14 (cont.)

Ud	iS	11 11 17.7	
De	iP	11 02 02.1	

Bonin Islands.
h = 570 km (Up,Um,Ud).

" 14

Up	iPKPl	11 41 17.1	C
		micr sec	
	PKPl Z'	0.1 0.6	
Sk	ePKPl	11 41 10	
Um	iPKPl	11 41 05.9	
	iSKPl	11 44 32.5	
Ud	iPKPl	11 41 18.5	C
De	iPKPl	11 41 30.0	C

Tonga-Kermadec Islands
(h = 230 km).

" 14

Up	iP	11 41 48.3	C
		micr sec	
	P Z'	0.1 0.7	
Sk	iP	11 41 22.2	C
Um	iP	11 41 33.6	C
Ud	iP	11 41 40.5	C

Nevada.
Underground explosion.

" 14

Ud	iP	13 40 57.7	

Aleutian Islands (h = 25 km).

" 14

Ud	iP	14 07 09.0	
	ipP	14 07 55.6	

Hindu Kush.
h = 220 km (Ud).

" 14

Um	iPP	15 37 41.0	
Ud	iP	15 36 48.2	

Iran-USSR (h = N).

" 14

Up	ipP	16 15 47.9	
Ud	ipP	16 15 37.1	

El Salvador (h = N).

" 14

Ud	iP	16 23 12.2	
De	iP	16 22 42.6	

Turkey (h = N).

" 14

Ud	iP	18 28 51.6	

Tibet (h = N).

" 14

Up	iP	20 45 07.5	C
Sk	iP	20 45 19.9	
Um	iP	20 45 03.5	
Ud	iP	20 45 16.9	C
	i(PP)	20 48 34.5	
	iPP	20 49 21.7	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 14 (cont.)
De iP 20 45 16.2
Java (h = 55 km).

" 15 Ud iP 00 09 42.5
North Atlantic Ocean
(h = N).

" 15 Up iP 02 04 19.8
micr sec
P Z' 0.1 1.1
Ud iP 02 04 29.9 C
Philippine Islands (h = N).

" 15 Up iP 02 07 08.9
i 02 07 11.8
ipP 02 07 19.8
iS 02 17 48.0
micr sec
P Z' 0.1 0.8
i Z' 1.2 1.3
Mx E 7.6 15
Mx N 20 15
Mx Z 13 17
Sk iP 02 07 13.3
i 02 07 16.3
Um iP 02 06 56.1
i 02 07 01.3
ipP 02 07 07.0
iS 02 17 16
Ud iP 02 07 16.9
i 02 07 19.3
ipP 02 07 28.6
De iP 02 07 24.2
i 02 07 27.5
Philippine Islands.
h = 40 km (Up,Um,Ud).

" 15 Up iP 02 25 37.8
Um iP 02 25 25.9
Ud iP 02 25 46.7
Philippine Islands.

" 15 Um iP 02 29 11.2
Ud iP 02 29 32.9
Philippine Islands.

" 15 Up iP 02 43 09.9
Um iP 02 42 57.0
Ud iP 02 43 18.4
Philippine Islands (h = N).

" 15 Up iP 02 53 21.9
Um iP 02 53 12.1
Ud iP 02 53 36.5

1976
Feb. 15 Up iP 05 54 16.3
Um iP 05 54 34.3
Ud iP 05 54 31.4
De iP 05 54 13.9
Iran (h = N).

" 15 Um iP 06 27 04.7
Ud iP 06 27 22.2

" 15 Ud iP 11 54 32.5

" 15 Up iP 12 16 38.2
Ud eP 12 16 42
Aleutian Islands (h = 50 km).

" 15 Up eP 12 34 30
Ud iP 12 34 38.1
De eP 12 34 50

" 15 Up iP 19 31 40.4

" 15 Up iPKPl 21 42 58.3
micr sec
PKPl Z' 0.2 1.0
Sk iPKPl 21 42 50.6
Um iPKPl 21 42 46.5
Ud iPKPl 21 43 00.0
De iPKPl 21 43 08.6
i 21 43 16.5
Kermadec Islands (h = 55 km).

" 15 Up iPKPl 23 12 02.9
Ud iPKPl 23 12 04.7
De iPKPl 23 12 13.3
Kermadec Islands (h = N).

" 15 Ud eP 23 42 06
Dodecanese Islands
(h = 40 km).

" 15 Up iPKPl 23 42 22.3
Ud iPKPl 23 42 23.8
De iPKPl 23 42 33.5
i 23 42 47.8

" 16 Up iP 00 40 42.0
Ud iP 00 40 50.8

" 16 Ud iP 06 46 29.3

" 16 Ud iPKPl 08 32 11.1
De iPKP2 08 32 23.9
Tonga-Kermadec Islands
(h = 540 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Feb.	16	Um	iP	09 32 23.9
		De	iP	09 33 05.9
"	16	Up	iP	09 35 28.5
		De	iP	09 35 15.2
"	16	Up	iP	09 45 36.9
		Ud	iP	09 45 46.5
		Formosa (h = 40 km).		
"	16	De	iP	09 48 17.6
"	16	Ud	iP	09 55 11.1
"	16	Um	iP	10 17 01.9
		Ud	iP	10 17 19.8
		De	eP	10 17 16
		Hindu Kush (h = 190 km).		
"	16	Up	iP	12 57 38.1
		Ud	eP	12 57 43
		Kurile Islands (h = 45 km).		
"	16	Ud	iP	13 39 07.2
			i	13 39 09.4
		De	iP	13 38 49.4
		North Atlantic Ocean (h = N).		
"	16	De	iP	14 48 53.4
"	16	Up	iP	14 56 34.2
		Um	iP	14 56 24.4
		Ud	iP	14 56 46.5
		Burma-China (h = N).		
"	16	Ud	iPKP1	17 17 08.2
		De	iPKP1	17 17 19.2
"	16	Ud	iP	19 36 36.0
"	16	Up	eP	22 15 33
		Ud	iP	22 15 39.9
		Eastern USSR (h = N).		
"	16	Ud	iP	23 52 14.7
"	17	Up	eP	08 01 44
		Burma (h = N).		
"	17	Up	iSgl	12 07 27.9
		Ud	iSgl	12 06 24.7
"	17	Ud	iP	15 33 07.4
		Kurile Islands (h = 15 km).		
"	17	Up	iPKP	18 13 49.9
		Ud	iPKP	18 13 50.4

1976 Feb.	17	Um	iP	21 54 12.7
"	17	Ki	iP	23 07 47.7
		Um	iP	23 07 55.6
		Ud	iP	23 08 16.2
		Philippine Islands (h = 50 km).		
"	17	Ki	iSgl	23 14 39.6
		Um	iSgl	23 15 12.5
		Finland-USSR, 66.7°N, 29.2°E. M_L = 2.2 (Um). Origin time = 23 12 48. Solution from Helsinki regional bulletin.		
"	18	Up	iP	00 37 34.9
		Um	iP	00 37 16.5
		Ud	iP	00 37 40.3
"	18	Um	iP	04 04 42.4
"	18	Up	iPKP1	06 10 25.0
		Ud	iPKP1	06 10 27.2
"	18	Up	i	08 12 01.2
		Ud	iP	08 11 55.2
		Aleutian Islands (h = 40 km).		
"	18	Up	iPKP1	09 43 55.7 C
				micr sec
			PKP1 Z'	0.5 1.5
		Sk	iPKP1	09 43 48.3 C
		Um	iPKP1	09 43 43.4 C
		Ud	iPKP1	09 43 57.4 C
		De	iPKP1	09 44 06.4 C
		Kermadec Islands (h = 35 km).		
"	18	Up	iP	11 46 20.9
			i	11 46 27.0
				micr sec
			P Z'	0.1 0.6
		Sk	iP	11 47 01.6
		Um	iP	11 47 01.3
		Ud	iP	11 46 27.8
			i	11 46 32.7
		De	iP	11 45 48.3
		Greece (h = 35 km).		
"	18	Ud	iP	11 50 23.7
		Japan (h = 480 km).		
"	18	Up	iPKP1	14 36 19.8
			iPKP2	14 36 25.1

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 18 (cont.)

	Up			micr	sec
		PKP2	Z'	0.1	1.0
	Sk	iPKP1		14 36 13.8	
	Um	iPKP1		14 36 08.3	
	Ud	iPKP1		14 36 21.9	
		iPKP2		14 36 28.3	
	De	iPKP1		14 36 30.2	

Kermadec Islands.

" 18	Ud	iP		17 14 15.4
18	Um	iPKP1		17 29 40.7
	Ud	iPKP1		17 29 53.7
" 18	Um	iP		19 12 09.2
	Ud	iP		19 12 38.1

Japan (h = 120 km).

" 18	Up	iP		20 08 10.6
	Um	iP		20 08 10.4
	Ud	iP		20 07 48.6

Iceland (h = N).

" 18	Ud	iP		21 10 46.4
" 18	Up	iP		21 22 08.8
				micr sec
		P	Z'	0.2 1.5
	Um	iP		21 22 08.1
	Ud	iP		21 21 49.0
	De	iP		21 22 10.7

Iceland (h = N).

" 18	Up	iP		22 05 19.1
	Um	iP		22 05 19.1
	Ud	iP		22 04 59.8
	De	eP		22 05 20

Iceland (h = N).

" 18	Up	iP		23 11 44.6
		i(S)		23 15 14.5
	Ki	iP		23 12 48.3
		i		23 12 52.8
	Sk	iP		23 12 33.9
		i		23 12 41.1
	Um	iP		23 12 17.6
	Ud	iP		23 12 01.5
	De	iP		23 11 31.5

Turkey (h = 5 km).

" 19	Ki	iPKP1		00 30 28.8
	Sk	iPKP1		00 30 42.6
	Um	iPKP1		00 30 38.5

1976
Feb. 19

Um	iPKP1			04 50 01.0
Ud	iPKP1			04 50 12.6
" 19 Up	il			05 05 05.1
				micr sec
	il		Z'	0.1 0.8
Ki	iP			05 03 55.1
	il			05 04 07.2
	i			05 04 13.3
				micr sec
	P		Z'	0.2 1.5
	i		Z'	0.1 1.1
Sk	iP			05 04 20.4
	il			05 04 33.1
	i			05 04 39.0
Um	iP			05 04 25.6
	il			05 04 37.7
	i			05 04 43.8
Ud	iP			05 04 47.2
	il			05 04 59.9
De	iP			05 05 14.9
	il			05 05 26.2

Yukon, Canada (h = N).
m = 5.7 (Up,Ki).
Multiple event.

" 19	Up	iP		05 13 43.3
	Ud	iP		05 13 38.9
" 19	Up	iSgl		05 33 06.0
	Ki	iPgl		05 30 15.4
		iSgl		05 31 11.9
	Sk	eSn		05 32 20
		i		05 32 26.9
		iSgl		05 33 01.2
	Um	iSn		05 30 58.4
		iSgl		05 31 16.0
	Ud	iSgl		05 33 41.5
	De	iSgl		05 35 12.6

Finland-USSR,
65.6°N, 29.8°E.
M_L = 3.2 (Up,Ki,Sk,Um,Ud,De).
Origin time = 05 28 59
Felt.

" 19	Ud	iP		05 33 43.7
" 19	Up	eP		09 49 27
		i		09 49 43.0
	Ud	iP		09 49 38.8

Burma-China (h = 15 km).

" 19	Um	iPKP1		10 00 54.4
		i		10 01 09.1
	Ud	ePKP1		10 01 10
		i		10 01 19.8

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Feb.	19	Up	iP		10 39 06.0
			ipP		10 39 57.8
		Ud	iP		10 39 06.4
		De	iP		10 39 28.1
		Aleutian Islands.			
		h = 230 km (Up).			
"	19	Up	iSgl		13 44 44.1
		Sk	eSgl		13 44 44
		Ud	iSgl		13 43 45.8
		Near coast of southwest			
		Norway, 58.4°N, 6.4°E.			
		M_L = 2.7 (Up,Ud).			
		Origin time = 13 41 41.			
		By combination with Bergen			
		and Kongsberg readings.			
"	19	Up	iP		14 11 43.6
			iS		14 21 20
					micr sec
			Mx	E	1.8 19
			Mx	N	2.2 18
			Mx	Z	4.3 16
		Ki	iP		14 11 39.1
					micr sec
			P	Z'	0.2 1.5
			Mx	E	1.6 14
			Mx	N	1.2 16
			Mx	Z	3.8 18
		Sk	iP		14 11 24.7
		Um	iP		14 11 43.4
			iS		14 21 24
		Ud	iP		14 11 31.7
		De	iP		14 11 37.2
		Cuba (h = 20 km).			
		M = 5.6 (Up,Ki).			
"	19	De	iP		18 00 19.5
"	19	Up	eP		18 44 16
		Sk	iP		18 43 59.5
		Um	iP		18 44 11.9
		Ud	iP		18 44 07.7
		Mexico (h = N).			
"	19	Ud	iP		21 44 25.5
			i		21 44 39.8
"	19	Up	iP		22 12 18.3
			i2		22 12 30.0
		Ki	iP		22 11 21.6
		Sk	i2		22 12 03.6
		Um	iP		22 11 51.3
		Ud	iP		22 12 15.3
			i1		22 12 19.1
		(cont.)			

1976				
Feb.	19	(cont.)		
		Ud	i2	22 12 28.5
		De	i1	22 12 40.4
			i2	22 12 48.4
		Unimak Island (h = N).		
"	19	Sk	iP	23 08 27.5
		Um	iP	23 08 44.0
		Ud	iP	23 08 35.7
		Guatemala (h = 60 km).		
"	19	Um	iP	23 29 38.3
		Ud	iP	23 30 03.0
		De	iP	23 30 26.3
		Unimak Island (h = 45 km).		
"	20	Ud	iP	02 24 38.4
"	20	Sk	ePKPl	05 11 58
		Um	iPKPl	05 11 52.9
		Ud	iPKPl	05 12 07.4
"	20	Up	iPKP	10 18 40.8
		Ud	iPKP	10 18 39.7
		De	iPKP	10 18 58.8
"	20	Um	iP	12 34 38.3
		Ud	iP	12 35 09.4
"	20	Up	iP	13 44 54.9
		Sk	iP	13 45 31.3
		Um	iP	13 45 10.4
		Ud	iP	13 45 09.5
		De	iP	13 44 53.3
		Iran (h = 35 km).		
"	20	Ud	iP	14 03 34.6
		Alaska (h = 70 km).		
"	20	Up	iP	14 33 30.7 C
		Ki	iP	14 33 20.1 C
			ipP	14 33 29.0
				micr sec
			P Z'	0.2 1.5
		Sk	iP	14 33 12.2
		Um	iP	14 33 28.3 C
			ipP	14 33 38.0
		Ud	iP	14 33 21.4 C
			ipP	14 33 31.2
		De	iP	14 33 27.6
			ipP	14 33 36.8
		Mexico.		
		h = 35 km (Ki,Um,Ud,De).		
"	20	Um	iP	15 44 19.8
		Mindanao (h = 650 km).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 20 Sk eP 16 49 07
Ud iP 16 48 38.7
De iP 16 48 05.4
Crete (h = 50 km).

" 20 Um iP 18 44 01.3
Japan (h = 30 km).

" 20 Sk ePKP1 19 07 48
Um iPKP1 19 07 45.8
Ud i(PKP2) 19 08 05.2
De e(PKP2) 19 08 19

" 20 Up iP 19 39 37.2
Um iP 19 39 12.1
Ud iP 19 39 43.0

" 20 Up eP 23 13 16
Ki iP 23 13 19.6
Sk iP 23 13 39.8
Um iP 23 13 11.5 D
Ud iP 23 13 32.6
De iP 23 13 31.2
Tadzhik-Sinkiang (h = 100 km).

" 20 Ki iP 23 20 12.2
Sk iP 23 20 32.6
Um iP 23 20 04.4 D
Ud iP 23 20 25.2
De iP 23 20 23.9
Tadzhik-Sinkiang (h = 110 km).

" 20 Up iP 23 27 16.8
Ki iP 23 27 20.8
Sk iP 23 27 40.7
Um iP 23 27 12.3 D
Ud iP 23 27 33.4
De iP 23 27 31.2
Tadzhik-Sinkiang (h = 110 km).

" 21 Up iP 02 24 23.9
Um iP 02 24 05.1
Ud iP 02 24 30.7
Ryukyu Islands (h = N).

" 21 Up iP 04 23 20.9 D
iPcP 04 23 48.3
micr sec
P Z' 0.1 0.6
Ki iP 04 22 39.2 D
micr sec
P Z' 0.1 0.8
Sk iP 04 23 14.5
Um iP 04 22 57.7 D
(cont.)

1976
Feb. 21 (cont.)
Ud iP 04 23 28.6
De iP 04 23 44.6 D
Sea of Japan (h = 270 km).
m = 5.6 (Up,Ki).

" 21 Up micr sec
Mx E 0.8 15
Mx N 1.3 18
Mx Z 2.4 18
Ki micr sec
Mx N 2.2 22
Mx Z 1.9 20
Um ePKP 09 04 17
i 09 04 35.0
i 09 04 43.5
Ud ePKP 09 04 24
i 09 04 45.3
De iPKP 09 04 32.5
Loyalty Islands (h = 50 km).
M = 5.8 (Up,Ki).

" 21 Ud iPKP1 11 00 54.5
De iPKP1 11 01 05.5

" 21 Up ePKP1 11 50 30
Ud iPKP1 11 50 31.6
De iPKP1 11 50 42.0

" 21 Ki i 14 47 37.9
Ud iPKP2 14 47 37.6
West of Macquarie Island
(h = N).

" 21 Ki iP 17 57 27.1
micr sec
P Z' 0.1 1.0
Ud iP 17 57 39.9
De eP 17 57 37
Java (h = 110 km).

" 21 Ud iP 21 56 03.9
Panay (h = 60 km).

" 22 Up iP 01 23 45.4
Ki iP 01 23 06.5
Sk iP 01 23 39.4
Um iP 01 23 23.4 C
Ud iP 01 23 52.2
De iP 01 24 06.7
Japan (h = 100 km).

" 22 Up iP 03 37 13.5
Ki iP 03 37 27.2
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 22 (cont.)

Ud	iP		03 37 04.1	
De	iP		03 36 59.9	

Brazil (h = N).

" 22	Up	iP		06 09 23.4
		ipP		06 09 35.3
				micr sec
		P	Z'	0.1 1.0
	Ki	iP		06 08 30.4
				micr sec
		P	Z'	0.2 1.0
	Sk	iP		06 09 01.6
	Um	iP		06 08 57.3
		ipP		06 09 09.4
	Ud	iP		06 09 22.9
		ipP		06 09 36.0
	De	iP		06 09 45.2
		ipP		06 09 57.5

Aleutian Islands.
h = 45 km (Up,Um,Ud,De).
m = 6.0 (Up,Ki).

" 22	Up	iP		07 23 23.4
	Um	iP		07 23 48.3
		i		07 23 54.3
	Ud	eP		07 23 24
		i		07 23 31.8

Atlantic Ocean (h = N).

" 22	Up	iP		07 32 20.8
		i		07 32 21.9
	Ki	iP		07 31 27.3
	Um	iP		07 31 52.8
		i		07 32 54.9
	Ud	iP		07 32 20.4
		i		07 32 21.6
	De	iP		07 32 43.7

Aleutian Islands (h = 60 km).

" 22	Up	iP		08 00 05.3 C
		iS		08 10 05.0
				micr sec
		P	Z'	0.5 0.8
	Ki	iS		08 10 11.3
				micr sec
		S	Z'	0.2 1.7
	Sk	iP		08 00 19.6 C
	Um	iP		08 00 01.8 C
		iS		08 10 02.1
	Ud	iP		08 00 15.8 C
		iS		08 10 27.9
	De	iP		08 00 14.2 C

Sumatra (h = 180 km).

1976
Feb. 22

Up	iP			12 07 32.0
	iS			12 11 18
				micr sec
	P		Z'	0.2 1.1
	Mx		E	7.6 14
	Mx		N	1.4 13
Ki	iP			12 08 47.6
				micr sec
	Mx		E	3.8 14
Sk	iP			12 08 14.8
	i			12 08 35.4
Um	iP			12 08 11.4
	i			12 08 22.5
	iS			12 12 30
Ud	iP			12 07 39.3
	i			12 07 43.1
	iS			12 11 35.0
De	iP			12 06 59.8
	i			12 07 03.2

Greece (h = N).
M = 5.2 (Up,Ki).

" 22	Up	eP		16 18 59
	Ki	iP		16 20 30.2
	Sk	eP		16 19 44
	Um	iP		16 19 46.8
	Ud	eP		16 19 01
	De	eP		16 18 12

Yugoslavia (h = N).

" 22	Ud	iP		18 00 47.0
" 22	Up	iPKPl		18 11 59.7
	Sk	iPKPl		18 11 51.5
	Ud	iPKPl		18 12 01.1
" 22	Up	iPKP		18 47 37.5
		iPKKP		18 58 02.3
	Ki	ePKP		18 47 26
	Um	iPKP		18 47 31.2
	Ud	iPKP		18 47 40.2
		iPKKP		18 57 58.8
	De	iPKP		18 47 45.3

Solomon Islands (h = 55 km).

" 22	Up	iP		22 06 25.9
	Ki	epP		22 07 46
	Sk	iP		22 07 08.7
	Um	iP		22 07 04.8
	Ud	iP		22 06 33.6
		ipP		22 06 37.4
	De	ipP		22 05 58.1

Greece.
h = 15 km (Ud).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
Feb.	22	Ud	iP		22 49 32.7	
		Greece (h = 20 km).				
"	22	Up	iP		22 51 16.2	
		Ud	iP		22 51 31.0	
"	22	Up	iP		22 59 12.9	
			i		22 59 17.4	
					micr	sec
			P	Z'	0.1	0.9
			i	Z'	0.1	0.9
		Ki	iP		23 00 29.9	
		Sk	iP		22 59 56.1	
		Um	iP		22 59 52.9	
		Ud	iP		22 59 20.0	
			i		22 59 25.9	
		De	iP		22 58 43.3	
		Greece (h = N).				
"	22	Up	iP		23 01 08.0	
			il		23 01 11.6	
		Ki	el		23 02 30	
		Sk	iP		23 01 48.5	
			il		23 01 51.4	
		Ud	il		23 01 19.2	
		Greece (h = N).				
"	22	Up	iPKPl		23 54 14.4	
			ipPKPl		23 54 24.2	
					micr	sec
			pPKPl	Z'	0.3	1.8
		Sk	iPKPl		23 54 06.6	
			ipPKPl		23 54 16.3	
		Um	iPKPl		23 54 01.8	
		Ud	iPKPl		23 54 15.6	
			ipPKPl		23 54 25.7	
		De	iPKPl		23 54 24.7	
			iPKP2		23 54 32.0	
		Kermadec Islands.				
		h = 35 km (Up,Sk,Ud).				
"	23	Up	iPKPl		03 06 44.5	
		Sk	iPKPl		03 06 36.0	
		Ud	iPKPl		03 06 45.1	
		De	iPKPl		03 06 54.7	
		Kermadec Islands.				
"	23	Up	iP		03 19 58.4	
		Ki	iP		03 19 05.3	
		Sk	iP		03 19 36.5	
		Um	iP		03 19 32.2	
			i		03 19 43.9	
		Ud	iP		03 19 57.7	
		De	iP		03 20 20.6	
		Aleutian Islands (h = 25 km).				

1976						
Feb.	23	Ud	iP		07 24 35.1	
"	23	Ud	iP		07 56 43.3	
		Atlantic Ocean (h = N).				
"	23	Up	iP		09 14 22.4	
			iS		09 24 05	
					micr	sec
			P	Z'	0.2	1.0
			Mx	E	20	23
			Mx	N	40	21
			Mx	Z	10	20
		Ki	iP		09 13 58.9	
			i		09 14 10.4	
					micr	sec
			P	Z'	0.2	1.3
			Mx	E	10	17
			Mx	N	21	15
			Mx	Z	5.0	18
		Sk	iP		09 14 27.0	
			i		09 14 38.2	
		Um	iP		09 14 08.8	
			i		09 14 10.4	
		Ud	iP		09 14 32.8	
			i		09 14 35.1	
		De	iP		09 14 39.8	
			i		09 14 47.5	
			iPP		09 17 42.1	
		Formosa (h = N).				
		m = 6.0, M = 6.5 (Up,Ki).				
"	23	Um	iP		10 18 55.9	
		Turkey (h = 25 km).				
"	23	Up	iP		15 25 01.5	
			ipP		15 25 07.5	
			iS		15 33 58	
					micr	sec
			P	Z'	0.1	1.0
			pP	Z'	1.0	1.7
			Mx	E	3.4	15
			Mx	N	3.9	15
			Mx	Z	12	18
		Ki	iP		15 24 16.6	
			ipP		15 24 22.4	
					micr	sec
			pP	Z'	0.8	1.7
			Mx	E	4.0	15
			Mx	N	9.2	20
			Mx	Z	6.1	16
		Sk	ipP		15 24 38.7	
		Um	iP		15 24 40.9	
			ipP		15 24 45.9	
			iS		15 33 16	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Feb. 23 (cont.)

Ud	iP		15 24 54.9 C
	ipP		15 25 01.3
De	iP		15 25 17.0 C
	ipP		15 25 22.8

Queen Charlotte Islands.
h = 20 km (Up,Ki,Um,Ud,De).
m = 6.7, M = 5.9 (Up,Ki).

" 23

Up	iP		15 34 02.9
Ki	iP		15 33 35.6
Um	iP		15 33 47.8
Ud	iP		15 34 10.1

Mariana Islands (h = 210 km).

" 23

Ud	ipP		16 23 14.0

Queen Charlotte Islands
(h = N).

" 23

Up	iP		16 23 24.3
	i		16 23 30.9
			micr sec
	i	Z'	0.2 1.4
Ki	iP		16 24 35.8
	i		16 24 46.4
			micr sec
	i	Z'	0.1 0.9
Sk	iP		16 24 06.8
Um	iP		16 24 00.5
	i		16 24 01.7
Ud	iP		16 23 35.5
	i		16 23 40.0
De	iP		16 23 00.4
	i		16 23 05.2

Aegean Sea (h = N).
m = 5.5 (Up,Ki).

" 23

Up	iPKPl		19 05 38.0
Um	iPKPl		19 05 24.8
	i		19 05 31.9
Ud	iPKPl		19 05 38.1
De	iPKPl		19 05 48.7

" 23

Um	iP		22 10 34.4
	i		22 10 38.4

Cuba (h = N).

" 24

Ud	iPKPl		00 26 08.8
De	iPKPl		00 26 18.2
	i		00 26 19.1

" 24

Ki	i		04 31 09.8
Um	iP		04 31 08.0
	i		04 31 12.8
Ud	iP		04 31 27.1

Molucca Passage (h = 50 km).

1976
Feb. 24

Up	iP		17 48 16.9 C
			micr sec
	P	Z'	0.1 1.3
Sk	iP		17 48 11.4 C
Um	iP		17 47 54.7 C
Ud	iP		17 48 24.5

Japan (h = 100 km).

" 24

Ud	iP		22 06 46.3

Kashmir-Tibet (h = N).

" 25

Um	iP		00 22 22.2

" 25

Ki	ipP		16 41 50.3
Um	ipP		16 41 59.1
Ud	iP		16 41 30.8

Costa Rica (h = 70 km).

" 25

Ki	iP		20 21 21.6
	i		20 21 26.4
	iS		20 22 56.8

South Svalbard,
76.7°N, 15.9°E.
Origin time = 20 19 05.
Solution from Helsinki
regional bulletin.

" 25

Ud	iP		20 36 48.2

Aleutian Islands (h = 45 km).

" 26

Up	iP		11 26 52.1
			micr sec
	P	Z'	0.1 0.7
Ki	iP		11 27 01.1
Um	iP		11 26 50.4
Ud	iP		11 27 08.7
De	iP		11 27 04.7

Hindu Kush (h = 190 km).

" 26

Um	iPKPl		14 06 06.0
	i		14 06 20.3
Ud	iPKPl		14 06 18.3

" 26

Up	iP		15 18 21.7
			micr sec
	P	Z'	0.3 1.5
Um	iP		15 18 00.9
	i		15 18 17.9

Japan (h = 50 km).

" 26

Um	iP		17 02 18.5

Japan (h = 130 km).

" 27

Up	iP		04 11 07.6
Um	iP		04 11 02.1

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Feb.	27	Up	iPKPl		11 20 20.5	
					micr	sec
			PKPl	Z'	0.1	0.6
		Ud	iPKPl		11 20 21.8	
		De	iPKPl		11 20 30.9	C
		Kermadec Islands (h = 150 km).				
"	27	Um	iP		17 00 06.0	
"	28	Ud	iP		00 25 32.2	
		Sunda Strait (h = 60 km).				
	28	Up	iPKPl		04 43 50.9	
		Um	iPKPl		04 43 38.8	
		Ud	iPKPl		04 43 52.7	
		De	iPKPl		04 44 01.1	C
		Kermadec Islands (h = 20 km).				
"	28	Ud	iP		05 42 42.9	
"	28	Up	iPKPl		05 54 28.1	
		Sk	iPKPl		05 54 20.9	
		Um	iPKPl		05 54 15.1	
		Ud	iPKPl		05 54 29.7	
		De	iPKPl		05 54 38.8	
		Kermadec Islands.				
"	28	Up	iPKPl		11 45 12.4	
		Sk	i		11 45 16.1	
		Um	iPKPl		11 44 59.9	
		Ud	iPKPl		11 45 13.2	
		De	iPKPl		11 45 21.9	
		Kermadec Islands (h = 45 km).				
"	28	Up	iPKP		13 02 28.9	
		Ki	i(PKP)		13 02 07.9	
			iPKP		13 02 15.4	
		Um	iPKP		13 02 21.3	
		Ud	iPKP		13 02 30.6	
		New Hebrides Islands (h = 5 km).				
"	28	Ud	iP		13 06 00.9	
"	28	Um	iP		14 19 47.4	
"	28	Up			micr	sec
			Mx	E	1.7	22
			Mx	Z	3.0	22
		Ki	iPKP		16 46 15.8	
					micr	sec
			PKP	Z'	0.4	2.0
			Mx	E	1.6	24
			Mx	Z	5.1	23
		Um	iPKP		16 46 13.0	
		Ud	iPKP		16 46 04.9	C
		(cont.)				

1976 Feb.	28	(cont.)				
		Chile (h = 10 km).				
		M = 5.6 (Up,Ki).				
"	29	Up	iP		09 38 39.4	
		Um	iP		09 38 17.7	C
		Ud	iP		09 38 46.9	
		De	iP		09 39 02.0	
		Japan (h = 55 km).				
"	29	Up	iPKPl		11 40 53.0	C
		Sk	iPKPl		11 40 47.3	
		Um	iPKPl		11 40 42.5	C
			i		11 40 46.7	
		Ud	iPKPl		11 40 55.2	C
"	29	Ud	iPKP		19 52 43.3	
		Tonga Islands (h = N).				
"	29	Um	eP		20 40 07	
		Ud	eP		20 39 32	
		Albania (h = 10 km).				
"	29	Up	iPKPl		23 09 55.3	C
					micr	sec
			PKPl	Z'	0.1	0.7
		Ki	iPKPl		23 09 37.8	
		Sk	iPKPl		23 09 47.4	
			i		23 09 50.8	
		Um	i(PKP)		23 09 42.5	
			iPKPl		23 09 44.3	
			i		23 09 47.8	
		Ud	iPKPl		23 09 57.3	C
			i		23 09 59.8	
		De	iPKPl		23 10 06.1	C
		Kermadec Islands (h = 60 km).				

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December 9, 1977

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
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SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ, UDDEHOLM and DELARY

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

MARCH 1 - 31, 1976

1976				
Mar.	1	Ki	iP	03 49 45.5
		Um	iP	03 49 43.6
		Ud	iP	03 49 58.8
		Java (h = 100 km).		
"	1	Um	iP	09 54 05.0
"	1	Up	i(P)	15 34 24.7
"	1	Up	iP	18 38 00.5
		Ki	iP	18 37 08.4
		Um	iP	18 37 33.1
		Kamchatka (h = 45 km).		
"	1	Up	iP	19 11 06.1 C
		Ki	iP	19 11 34.9
		Um	iP	19 10 48.2
		Ud	iP	19 11 13.0 C
		Bonin Islands (h = 460 km).		
"	2	Up	iP	03 01 35.4
		Um	iP	03 01 13.8
		Japan (h = 55 km).		
"	2	Um	iPKP	11 09 41.2
		Ud	iPKP	11 09 49.7
		De	iPKP	11 09 57.8
		Solomon Islands (h = 60 km).		
"	2	Ki	iP	12 43 27.8
		Sk	iP	12 43 49.8
		Um	iP	12 43 20.5
		Ud	iP	12 43 41.5
		De	iP	12 43 40.4
		Tadzhik-Sinkiang (h = 55 km).		
"	2	Ki	iSgl	15 59 45.1
		Sk	iSgl	15 58 10.0
			i	15 58 12.6
		(cont.)		

1976				
Mar.	2	(cont.)		
		Um	iPgl	15 58 32.2
			iSgl	15 59 20.1
		Central Norway, 64.9°N, 12.1°E.		
		M_L = 2.4 (Ki,Sk,Um).		
		Origin time = 15 57 28.		
"	2	Up	iPKPl	16 06 15.8
		Um	iPKP	16 06 03.4
			iPKPl	16 06 04.9
		Ud	iPKPl	16 06 17.2
		South of Kermadec Islands (h = N).		
"	2	Up	eP	19 46 01
				micr sec
			Mx E	1.2 9
		Ki	iP	19 47 18.4
			i	19 47 30.8
				micr sec
			Mx E	1.7 11
			Mx N	2.1 12
		Sk	iP	19 46 43.7
		Um	iP	19 46 41.3
		Ud	iP	19 46 07.2
		De	i	19 45 31.3
		Albania (h = 25 km).		
"	2	Um	iP	22 11 17.4
"	3	Ki	iP	00 43 35.3
		Um	iP	00 43 47.3
		Ud	iP	00 44 16.6
		Japan (h = N).		
"	3	Um	iPKPl	06 57 36.7
		Kermadec Islands (h = N).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Mar.	3	Ud	iP		18 33 03.0
		Afghanistan-USSR (h = 160 km).			
"	3	Ki	i		23 04 16.6
			iPP		23 08 15.1
		Um	i		23 04 18.1
			iPP		23 08 19.0
		Ud	iPKP		23 08 28.6
			iPP		23 08 46.4
		Flores Island (h = 30 km).			
"	3	Um	iP		23 26 36.1
"	4	Up	i(PKP)		03 08 43.3
			iPKP		03 08 59.6
			iPP		03 11 16.8
			iSKPl		03 12 14.0
			iSKS		03 15 58.4
			iSKKS		03 17 56.4
			iSKKP		03 21 26.5
					micr sec
			PKP	Z'	0.5 1.5
			PP	Z'	0.4 1.5
			SKPl	Z'	1.5 1.0
			Mx	E	8.1 22
			Mx	N	12 21
			Mx	Z	22 21
		Ki	i(PKP)		03 08 43.6
			iPKP		03 08 46.3
			iPP		03 10 24.6
			i		03 18 40.0
					micr sec
			PKP	Z'	0.4 0.8
			PP	Z'	0.7 2.1
			Mx	E	4.1 21
			Mx	N	8.6 22
			Mx	Z	6.6 20
		Sk	iPKP		03 08 57.0
			ipPKP		03 09 23.5
			iPP		03 10 59.6
			iSKPl		03 12 08.2
		Um	i(PKP)		03 08 41.1
			i(PKP)		03 08 43.1
			iPKP		03 08 52.0
			ipPKP		03 09 17.4
			iPP		03 10 47.8
			iSKPl		03 12 02.5
			i		03 13 28.9
			iSKS		03 15 47.8
			iSKKS		03 17 33.4
		Ud	i(PKP)		03 08 47.3
			iPKP		03 09 01.4
			ipPKP		03 09 27.1
			iPP		03 11 15.6
			iSKPl		03 12 18.1
			i		03 13 05.7
		(cont.)			

1976					
Mar.	4	(cont.)			
		De	i(PKP)		03 08 55.8
			iPKP		03 09 08.0
			ipPKP		03 09 36.6
			iSKPl		03 12 28.4
			i		03 13 15.6
			iSKKP		03 21 16.6
		New Hebrides Islands.			
		h = 100 km (Sk,Um,Ud,De).			
		M = 6.5 (Up,Ki).			
		Extremely large amplitudes of SKP at stations near the caustic.			
"	4	Up	iP		05 03 47.2
		Um	iP		05 03 27.8
		Ud	iP		05 03 56.0
		Japan (h = 110 km).			
"	4	Up	iS		10 35 55.6
			i		10 36 33.2
		Ki	iP		10 32 17.3 C
			iS		10 34 02.6
			i		10 34 18.6
					micr sec
			P	Z'	0.3 1.6
			Mx	E	1.8 15
			Mx	N	2.4 15
			Mx	Z	1.9 15
		Sk	iP		10 32 22.5
			i		10 32 24.8
			iS		10 34 13.8
		Um	iP		10 32 53.6
			iS		10 35 03.0
		Ud	iP		10 33 09.2
			iS		10 35 33.6
		Jan Mayen (h = N).			
"	4	Ud	iSgl		15 18 52.0
		De	iPgl		15 18 01.3
			iSgl		15 18 18.7
			i(Sn)		15 18 22.3
			iRg		15 18 28.0
		South Sweden.			
		Origin time = 15 17 38.			
		Near-surface event.			
"	4	Up	iP		19 25 01.0
		Ki	iP		19 24 46.7
		Um	iP		19 24 51.2
		Ud	iP		19 25 09.9
		Talaud Islands (h = 100 km).			
"	5	Ud	iP		00 28 47.7
		Fiji Islands (h = 320 km).			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Mar.	5	Ud	iP	06 00 29.4
"	5	Sk	iPKP2	06 24 12.6
		Um	iPKP1	06 24 06.5
		Ud	iPKP1	06 24 19.0
			i	06 24 31.4
		South of Kermadec Islands (h = N).		
"	5	Up	iPKP1	08 18 19.8
		Ud	iPKP1	08 18 21.6
		De	iPKP1	08 18 29.9
		Kermadec Islands (h = 50 km).		
"	5	Up	il	10 44 49.8
		Sk	i	10 44 39.8
		Um	iPKP1	10 44 29.2
		Ud	iPKP1	10 44 42.0
			il	10 44 52.1
"	5	Ki	i(P)	14 12 25.8
		Um	i(P)	14 11 16.1
"	5	Up	iPKP1	18 46 28.1 C
		Ud	iPKP1	18 46 30.0 C
		De	iPKP1	18 46 40.3
		Tonga-Kermadec Islands (h = 560 km).		
"	5	Up	iP	20 53 22.1
		Um	iP	20 54 03.3
		Ud	iP	20 53 32.0
		Greece (h = N).		
"	6	Up	iP	11 20 39.3
		Ki	iP	11 20 25.1
		Sk	iP	11 20 44.8
		Um	iP	11 20 29.3
		Ud	iP	11 20 47.8
		Celebes (h = 50 km).		
"	6	Ud	iP	12 31 59.6
		Alaska Peninsula (h = 160 km).		
"	6	Up	eP	13 42 21
		Ud	iP	13 42 35.7
		De	iP	13 42 17.6
		Iran (h = N).		
"	6	Up	iPKP	15 25 17.6
		Um	iPKP	15 25 11.2
		Ud	ePKP	15 25 19
		De	iPKP	15 25 26.3
		Solomon Islands (h = 45 km).		

1976				
Mar.	6	Ud	iP	16 41 17.8
"	6	Ud	iP	16 46 01.6
"	6	Up	iP	17 06 08.5
		Sk	eP	17 06 05
		Um	iP	17 05 47.6 D
		Ud	iP	17 06 16.0 D
		Japan (h = 310 km).		
"	6	Ki	iP	17 57 35.8
		Um	eP	17 58 03
		Ud	iP	17 58 28.5
"	6	Up	i(P)	18 25 44.2
			i	18 26 00.0
"	6	Up	iP	20 30 57.3
				micr sec
			Mx E	1.7 13
		Ki	iP	20 30 23.3
			i	20 30 33.1
				micr sec
			P Z'	0.1 1.3
			Mx N	2.5 13
		Sk	iP	20 30 03.1
		Um	iP	20 30 43.8
			i	20 30 47.0
		Ud	iP	20 30 34.4
			i	20 30 40.2
		Iceland (h = 5 km).		
		M = 4.5 (Up,Ki).		
"	7	Ki	iP	00 50 48.2
		Um	iP	00 50 28.7
		Ud	iP	00 50 33.2
		Iran (h = 60 km).		
"	7	Um	iP	02 17 35.4
"	7	Up	iP	03 06 50.6
		Ki	iP	03 06 39.4 D
				micr sec
			P Z'	0.2 1.3
		Sk	iP	03 06 32.3
		Um	iP	03 06 47.9 D
		Ud	iP	03 06 41.0 D
		De	iP	03 06 47.6
		Guatemala (h = 5 km).		
"	7	Up	iP	03 28 25.9
		Ki	iP	03 28 15.2 D
				micr sec
			P Z'	0.2 1.7
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 7 (cont.)

Sk	iP		03 28 07.6	
Um	iP		03 28 23.6	
	i		03 29 03.5	
Ud	iP		03 28 15.0	
De	iP		03 28 22.6	D

Guatemala (h = 5 km).

" 7	Ud	iPKP	08 42 58.0	
	De	iPKP	08 43 05.9	
" 7	Up	iP	09 54 44.5	
		ipP	09 54 53.5	
			micr	sec
		pP	Z' 0.1	1.1
	Sk	iP	09 54 19.3	
		ipP	09 54 26.1	
	Um	iP	09 54 26.6	
		ipP	09 54 33.8	
	Ud	iP	09 54 39.9	
		ipP	09 54 46.6	

Oregon.
h = 25 km (Up,Sk,Um,Ud).

" 7	Ud	iP	10 10 15.6	
" 7	Up	iP	10 20 24.8	
	Ud	iP	10 20 24.5	
" 7	Ud	iP	12 23 54.4	
" 7	Up	iP	12 26 52.7	
	Ud	iP	12 27 09.5	

Hindu Kush (h = 25 km).

" 7	Ud	iP	21 46 03.3	
" 7	Um	iP	21 59 04.8	
	Ud	iP	21 58 26.9	
" 7	Ki	iP	22 01 08.3	
	Sk	iP	22 01 06.1	
	Um	iP	22 01 18.6	
	Ud	iP	22 01 12.7	

Mexico (h = 90 km).

" 8	Up	iPKPl	00 12 26.9	
	Sk	iPKPl	00 12 20.1	
	Um	iPKPl	00 12 15.2	
	Ud	iPKPl	00 12 28.2	

Kermadec Islands (h = N).

" 8	Up	iP	02 39 45.4	
			micr	sec
		P	Z' 0.1	1.0

(cont.)

1976
Mar. 8 (cont.)

Ki	eP		02 38 52	
Um	iP		02 39 18.3	
Ud	iP		02 39 45.3	

Aleutian Islands (h = 55 km).

" 8	Um	iP	03 36 23.1	
	Ud	iP	03 36 38.1	
" 8	Up	iPP	05 00 35.6	
	Ki	iPKP	04 58 39.1	
		ePP	04 59 54	
			micr	sec
		Mx	E 2.6	20
		Mx	N 2.6	19
		Mx	Z 2.7	18
	Sk	iPKP	04 58 49.4	
	Um	iPKP	04 58 44.0	C
		iPKKP	05 08 46.0	
	Ud	iPKP	04 58 54.2	
		i	04 59 04.2	
		iPP	05 00 50.7	
	De	iPKP	04 58 58.1	

Santa Cruz Islands (h = 45 km).

" 8	Up	iPKPl	14 57 51.2	
		i	14 57 58.3	
	Sk	iPKPl	14 57 46.7	
	Um	iPKPl	14 57 41.0	D
	Ud	iPKPl	14 57 53.7	
		i	14 58 01.4	
	De	iPKPl	14 58 01.2	
		iP	14 58 15.2	
" 8	Up	iPKPl	17 08 16.5	
		i	17 08 28.3	
			micr	sec
		PKPl	Z' 0.1	1.0
	Sk	iPKPl	17 08 07.5	
	Um	iPKPl	17 08 04.2	
		i	17 08 15.1	
	Ud	iPKPl	17 08 17.8	
		i	17 08 28.7	
	De	iPKPl	17 08 25.4	

Kermadec Islands (h = 40 km).

" 8	Up	iPKPl	19 11 51.7	
		i	19 12 06.8	
			micr	sec
		i	Z' 0.1	1.0
	Sk	iPKPl	19 11 46.2	
		i	19 12 02.2	
	Um	iPKPl	19 11 41.7	
		i	19 11 53.2	
	Ud	iPKPl	19 11 55.0	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 8 (cont.)

	De	iPKPl		19 12 03.6

Kermadec Islands (h = N).

" 8	Ud	iP		20 19 46.3
		i		20 20 03.0
" 8	Um	iP		20 22 26.9
" 8	Up	iPKP		20 25 28.6
				micr sec
		Mx	E	2.3 20
		Mx	N	3.8 21
		Mx	Z	6.3 23
	Ki	iPKP		20 25 15.1
				micr sec
		Mx	E	3.5 23
		Mx	N	2.5 20
		Mx	Z	3.8 20
	Sk	iPKP		20 25 26.0
	Um	iPKP		20 25 21.2 C
	Ud	iPKP		20 25 30.1
	De	iPKP		20 25 37.5

Santa Cruz Islands (h = 70 km).
M = 6.1 (Up,Ki).

" 8	Up	iPKPl		22 55 06.2
		i		22 55 17.9
	Sk	ePKPl		22 55 00
	Um	iPKPl		22 54 55.9
	Ud	iPKPl		22 55 07.3
		i		22 55 19.5
	De	iPKPl		22 55 16.4
		i		22 55 28.0
" 9	Ki	eP		01 17 16
	Um	iP		01 17 18.4
" 9	Ud	iP		05 43 17.4
" 9	Up	iP		07 55 21.7
				micr sec
		P	Z'	0.1 1.0
	Ki	iP		07 55 10.9
				micr sec
		P	Z'	0.1 1.0
	Sk	iP		07 55 03.1
	Um	iP		07 55 18.4
	Ud	iP		07 55 11.6
	De	iP		07 55 18.1

Guatemala (h = 5 km).
m = 6.0 (Up,Ki).

" 9	Up	iPKPl		10 35 43.1 C

(cont.)

1976
Mar. 9 (cont.)

	Up			micr sec
		PKPl	Z'	0.1 1.0
	Ki	ePKPl		10 35 27
	Sk	iPKPl		10 35 33.3
		i		10 35 35.4
	Um	iPKPl		10 35 28.5
	Ud	iPKP		10 35 41.7
		iPKPl		10 35 44.4 C
	De	iPKP		10 35 51.0
		iPKPl		10 35 53.1 C

Kermadec Islands (h = 70 km).

" 9	Um	iP		11 12 06.8
		i		11 12 09.0
" 9	Ki	eP		11 32 03
	Ud	iP		11 31 39.4

North Atlantic Ocean (h = N).

" 9	Sk	iSgl		11 49 35.0
	Ud	iSgl		11 49 17.8
" 9	Sk	iSgl		11 50 34.5
	Ud	iSgl		11 50 17.8
" 9	Up	iP		14 11 48.1 C
		i		14 12 01.1
				micr sec
		P	Z'	0.1 1.0
	Ki	iP		14 11 13.7 C
		i		14 11 30.0
				micr sec
		P	Z'	0.1 1.1
	Sk	iP		14 11 21.9 C
	Um	iP		14 11 33.4 C
	Ud	iP		14 11 40.0 C
	De	iP		14 11 56.4 C

Nevada.
m = 5.9 (Up,Ki).
Underground explosion.

" 10	Um	iP		01 54 00.9
	Ud	iP		01 54 11.9

Sumatra (h = 45 km).

" 10	Up	iPKPl		03 33 12.1
		iSKPl		03 36 02.2
	Ki	iPKP		03 33 05.4
		iSKPl		03 35 39.3
	Sk	iSKPl		03 35 55.9
	Um	i(PKP)		03 33 05.3
		iPKP		03 33 11.5
		iSKPl		03 35 50.9

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 10 (cont.)

Ud	iPKP1		03 33 13.3	
	iSKP1		03 36 03.9	
De	iPKP1		03 33 25.4	D

Fiji Islands (h = 580 km).

" 10	Up	iP	03 54 48.9	
	Sk	eP	03 55 28	
	Um	iP	03 55 25.0	
	Ud	iP	03 54 56.3	

Greece (h = 30 km).

" 10	Up	eP	04 46 58	
	Ki	eP	04 47 27	
	Um	iP	04 47 09.9	
	Ud	iP	04 47 13.3	
	De	i	04 47 06.8	

Iran (h = 70 km).

" 10	Up	iP		06 40 58.0	
		i		06 41 05.7	
				micr sec	
		P	Z'	0.2 1.0	
	Ki	iP		06 40 05.3	
	Um	iP		06 40 31.5	
	Ud	iP		06 40 59.1	
	De	iP		06 41 20.9	

Aleutian Islands (h = 60 km).

" 10	Up	iP		09 08 31.2	
				micr sec	
		P	Z'	0.1 1.0	
	Ki	eP		09 07 37	
	Ud	iP		09 08 31.8	

Aleutian Islands (h = 60 km).

" 10	Up	iP		09 16 05.2	C
		ipP		09 16 24.9	
		iP'P'		09 44 07.1	
				micr sec	
		P	Z'	0.1 1.0	
		pP	Z'	0.4 1.6	
		Mx	E	3.8 22	
		Mx	N	2.0 22	
		Mx	Z	6.3 24	
	Ki	iP		09 16 14.6	C
		ipP		09 16 34.2	
		iP'P'		09 44 01.5	
				micr sec	
		P	Z'	0.2 1.0	
		pP	Z'	1.1 1.7	
		Mx	E	4.1 21	
		Mx	N	2.3 19	
		Mx	Z	4.2 21	

(cont.)

1976
Mar. 10 (cont.)

Sk	iP		09 15 52.1	C
	ipP		09 16 11.9	
Um	iP		09 16 13.3	C
	ipP		09 16 32.9	
Ud	iP		09 15 53.4	C
	ipP		09 16 11.3	
	iP'P'		09 44 11.7	
De	iP		09 15 52.6	C
	ipP		09 16 11.2	

Leeward Islands.
h = 80 km (Up,Ki,Sk,Um,Ud, De).
m = 6.3, M = 5.8 (Up,Ki).

" 10	Up	iPKP2	09 51 01.6	
		i	09 51 10.8	
	Sk	ePKP1	09 50 48	
		i	09 50 54.0	
	Um	iPKP1	09 50 42.7	
		i	09 50 49.8	
	Ud	iPKP1	09 50 56.1	
		i	09 51 01.4	
	De	ePKP1	09 51 07	
		i	09 51 12.6	

Kermadec Islands (h = N).

" 10	Um	iP	12 39 28.5	
" 10	Ud	iP	12 54 11.3	
" 10	Up	iPKP1	13 47 11.4	
		i	13 47 22.6	
	Ud	iPKP1	13 47 12.4	
		i	13 47 24.0	
" 10	Ud	i(P)	13 53 23.3	
	De	i(P)	13 53 06.7	
" 10	Up	iP	16 02 42.1	
	Ki	eP	16 02 17	
	Um	iP	16 02 28.2	
	Ud	eP	16 02 53	

Formosa (h = N).

" 10	Up	iRg	19 37 51.4	
	Ud	iRg	19 37 39.4	

Central Sweden.
Near-surface event.

" 10	Up	iP		20 54 07.7	
	Ki	iP		20 54 07.4	C
				micr sec	
		P	Z'	0.1 0.7	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 10 (cont.)

Sk	iP		20 54 21.3
Um	iP		20 54 04.8 C
Ud	iP		20 54 17.4

Sumatra (h = 80 km).

" 11 Up	iP		00 42 39.2
	i		00 42 53.7
Ki	iP		00 42 33.4
Sk	iP		00 42 55.9
Um	iP		00 42 31.6
	i		00 42 45.7
Ud	iP		00 42 53.2
	i		00 43 07.3

" 11 Up	iP		01 03 30.7
Ki	iP		01 03 30.0
Um	iP		01 03 27.7

Sumatra (h = 70 km).

" 11 Up	iP		13 57 27.0
			micr sec
	P	Z'	0.1 1.0
Ki	iP		13 56 33.9
Um	iP		13 56 59.8
Ud	iP		13 57 27.4

Aleutian Islands (h = 60 km).

" 11 Up	iP		15 07 38.4
Ki	iP		15 07 14.1
Um	iP		15 07 22.4
Ud	iP		15 07 49.2

Ryukyu Islands (h = N).

" 11 Up	iP		18 26 34.4
	i		18 26 38.0
	i		18 26 48.8
			micr sec
	P	Z'	0.1 0.9
	i	Z'	0.1 0.9
Ki	iP		18 26 05.4
Sk	iP		18 26 33.7
Um	iP		18 26 17.1
	i		18 26 20.2
	i		18 26 30.8
Ud	iP		18 26 44.0
De	iP		18 26 54.9

Ryukyu Islands (h = 35 km).

" 11 Up	iP		18 59 24.7
Ki	iP		18 59 28.8
			micr sec
	P	Z'	0.1 0.9
Sk	iP		18 59 48.7
Um	iP		18 59 20.9

(cont.)

1976
Mar. 11 (cont.)

Ud	iP		18 59 40.9
	i		18 59 45.1
De	iP		18 59 38.5
	i		18 59 42.6

Kashmir (h = 55 km).

" 11 Ki	ePKPl		20 27 06
Um	iPKPl		20 27 13.1
Ud	iPKPl		20 27 26.5
De	ePKPl		20 27 35

" 11 Up	ipP		20 53 00.1
Ki	eP		20 52 40
Sk	ipP		20 52 47.6
Um	iP		20 52 46.5
	i		20 53 00.6
Ud	iP		20 52 33.3
	ipP		20 52 50.1
De	eP		20 52 34
	ipP		20 52 51.3

Colombia.
h = 70 km (Ud,De).

" 12 Ud	iP		04 48 09.0

Samar (h = 90 km).

" 12 Up	iP		06 01 12.7
Ki	eP		06 00 20
Ud	iP		06 01 15.3

Aleutian Islands (h = 60 km).

" 12 De	i(P)		09 25 25.7
" 12 De	i(P)		09 47 14.6
" 12 De	i(P)		11 47 19.8
" 12 De	iP		12 31 36.5
" 12 Up	iPgl		14 56 47.1
	iSgl		14 57 06.8
	iRg		14 57 11.5
Sk	i		14 58 06.9
Um	iSgl		14 57 50.1
Ud	iPgl		14 56 56.1
	iSgl		14 57 22.9

Hälsingland, Sweden,
61.3°N, 16.9°E.
M_L = 1.7 (Up,Um,Ud).
Origin time = 14 56 20.
Near-surface event.

" 12 Up	iP		16 09 19.9
Ki	iP		16 10 13.2

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 12 (cont.)

Sk	iP	16 09 44.5	
Um	iP	16 09 47.6	C
Ud	iP	16 09 20.6	C
De	iP	16 08 55.4	C

Gabon (h = N).

" 12	Up	iP	17 06 58.6
		i	17 07 07.9
	Ki	iP	17 06 27.6
	Sk	il	17 07 10.8
	Um	iP	17 06 39.7
		il	17 06 58.5
	Ud	eP	17 07 04
	De	i	17 07 26.2

Mariana Islands (h = 50 km).

" 12	Up	ePKPl	20 46 41
	Um	iPKPl	20 46 28.1
	Ud	iPKPl	20 46 41.0

" 12	Up	iPgl	23 22 45.8	D
		i	23 22 52.9	
		i	23 23 03.2	
		iSgl	23 23 04.3	
	Ki	iSn	23 25 13.2	
		i	23 25 35.1	
		iSgl	23 25 51.4	
	Sk	iPgl	23 23 16.6	
		iSgl	23 23 58.6	
	Um	iPn	23 23 08.2	
		iPgl	23 23 12.9	
		iSn	23 23 41.8	
		iSgl	23 23 50.7	
	Ud	iPgl	23 22 53.9	
		i	23 23 03.1	
		iSgl	23 23 19.5	
	De	iSn	23 24 33.5	
		i	23 24 53.5	
		iSgl	23 24 58.2	

Hälsingland, Sweden,
61.2°N, 17.0°E.
M_L = 3.2 (Up,Ki,Sk,Um,Ud,De).
Origin time = 23 22 21.
Felt.

" 12	Up	iP	23 35 47.9
	Ki	iP	23 35 57.5
	Sk	iP	23 36 14.0
	Um	iP	23 35 46.7 C
	Ud	iP	23 36 04.4 C
	De	iP	23 35 59.2

Hindu Kush (h = 160 km).

" 13	Sk	iP	03 20 38.2

(cont.)

1976
Mar. 13 (cont.)

Um	iP	03 20 53.3	

Central America (h = 20 km).

" 13	Up	i	05 41 39.6	
		iPKKP	05 52 01.3	
	Ki	epPKP	05 41 24	
			micr	sec
		Mx	E	3.8 24
		Mx	N	3.6 24
		Mx	Z	6.2 25
	Um	e(PKP)	05 41 06	
		iPKP	05 41 18.9	
		ipPKP	05 41 33.2	
		iPKKP	05 52 16.1	
	Ud	epPKP	05 41 37	
		i	05 42 00.5	
		iPKKP	05 51 55.5	
	De	iPKP	05 41 32.9	
		ipPKP	05 41 47.9	

Solomon Islands.
h = 50 km (Um,De).

" 13	Um	iP	09 37 44.1
	Ud	iP	09 37 48.0

Caucasus (h = N).

" 13	Ud	iP	14 19 18.3

" 13	Ki	iSKPl	15 44 45.4
	Um	iSKPl	15 44 57.2
	Ud	iPKPl	15 42 24.3
	De	iPKPl	15 42 35.4

Fiji Islands (h = 640 km).

" 13	Up	iP	16 43 25.4	
		ipP	16 43 27.0	
		iS	16 53 58	
			micr	sec
		pP	Z'	0.1 1.0
		Mx	E	1.9 20
		Mx	Z	4.5 22
	Ki	iP	16 43 13.7	
		ipP	16 43 16.4	
			micr	sec
		pP	Z'	0.2 1.2
		Mx	E	2.3 22
		Mx	N	2.1 20
		Mx	Z	3.2 23
	Sk	iP	16 43 06.8	
		ipP	16 43 08.9	
	Um	iP	16 43 22.5	
		ipP	16 43 24.4	
		iS	16 53 50	
	Ud	iP	16 43 14.6	
		ipP	16 43 16.8	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 13 (cont.)

De	iP	16 43 22.3	
	ipP	16 43 24.2	

Guatemala.
h = 5 km (Up,Ki,Sk,Um,Ud,De).
m = 6.1, M = 5.8 (Up,Ki).

" 13	Ud	iP	18 38 06.7	
" 13	Um	iP	18 54 42.0	
" 13	Up	iP	21 56 58.6	
	Ki	iP	21 57 00.1	
	Sk	iP	21 56 44.3	
	Um	iP	21 57 01.2	
	Ud	iP	21 56 46.9	
		ipP	21 57 28.0	
	De	iP	21 56 47.8	

Colombia.
h = 170 km (Ud).

" 14	Ud	iP	02 07 59.6	
" 14	Up	iP	05 42 40.5	
	Ki	iP	05 43 47.3	
	Um	iP	05 43 11.5	
	Ud	iP	05 42 48.5	
		i	05 43 01.0	

Crete (h = N).

" 14	Up	iP	06 55 51.3	
	Um	iP	06 55 24.7	
	Ud	iP	06 55 51.5	D

Aleutian Islands (h = 220 km).

" 14	Um	iP	07 56 29.6	
	Ud	eP	07 56 56	

Japan (h = 50 km).

" 14	Up	iP		12 41 48.6	C
		i		12 42 14.2	
				micr sec	
		P	Z'	0.5 1.0	
		Mx	E	1.0 14	
		Mx	N	2.3 16	
		Mx	Z	1.9 14	
	Ki	iP		12 41 13.7	C
		iP'P'		13 09 11.6	
				micr sec	
		P	Z'	0.4 1.1	
		Mx	E	2.4 14	
		Mx	N	1.4 14	
		Mx	Z	2.0 13	
	Sk	iP		12 41 22.0	C

(cont.)

1976
Mar. 14 (cont.)

Um	iP	12 41 33.3	C
Ud	iP	12 41 40.1	C
	i	12 42 05.9	
De	iP	12 41 56.7	C

Nevada.
Underground explosion.
m = 6.6, M = 5.7 (Up,Ki).

" 14	Um	iP	13 00 30.7	
		i	13 00 37.5	

Central America (h = N).

" 14	Um	iPKP	16 02 41.2	

Fiji Islands (h = 510 km).

" 14	Ud	iP	19 50 51.3	
	De	eP	19 50 50	

Tadzhik-Sinkiang (h = 120 km).

" 14	Up	iP	20 33 45.7	C
	Um	iP	20 33 20.6	D
	Ud	iP	20 33 52.0	D
	De	iP	20 34 10.7	

Kurile Islands (h = 150 km).

" 14	Um	iPKP	22 11 40.1	

Easter Island Cordillera
(h = N).

" 14	Um	iP	23 16 30.8	
	Ud	iP	23 16 57.0	

Japan (h = 410 km).

" 15	Um	iP	02 47 23.6	
		ipP	02 47 31.1	
	Ud	iP	02 47 54.0	

Japan.
h = 25 km (Um).

" 15	Up	iP	03 42 38.2	
	Ki	iP	03 42 19.8	
	Um	iP	03 42 27.0	
	Ud	iP	03 42 48.3	

Philippine Islands (h = N).

" 15	Um	iP	04 08 01.7	
	Ud	iP	04 08 33.8	
	De	eP	04 08 51	

Japan (h = 35 km).

" 15	Um	iP	13 59 11.2	
	Ud	iP	13 59 42.1	

Japan (h = 70 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 16 Ud iP 05 06 19.8
Burma-India (h = 60 km).

" 16 Up iP 06 19 32.3
Um iP 06 19 18.6

" 16 Up iP 06 26 46.5 C
Ki iP 06 26 43.6 C
micr sec
P Z' 0.1 0.8
Sk iP 06 27 07.8 C
Um iP 06 26 39.0 C
i 06 26 48.4
Ud iP 06 27 03.2 C
De iP 06 27 04.3
Kirgiz-Sinkiang (h = N).

" 16 Up i 06 28 16.5
i 06 28 20.5
iSgl 06 28 25.1
Sk iSgl 06 29 39.8
Ud iPgl 06 27 31.9
i 06 27 39.7
iSgl 06 27 50.0
De iSgl 06 28 16.3
i 06 28 22.0
Lake Vener region, Sweden,
58.7°N, 13.2°E.
Origin time = 06 27 08.
M_L = 2.5 (Up,Sk,De).
Felt.

" 16 Up iP 07 36 40.8 C
i 07 36 43.7
iPP 07 38 27.0
iS 07 43 01
micr sec
P Z' 0.1 0.9
i Z' 0.4 1.0
Mx N 2.5 23
Mx Z 3.3 24
Ki iP 07 37 15.1 C
i 07 37 19.1
iPP 07 39 06.4
micr sec
P Z' 0.2 1.0
Mx E 0.8 12
Mx N 1.1 13
Sk iP 07 37 14.6
i 07 37 18.9
Um iP 07 36 52.7 C
i 07 36 56.7
iPP 07 38 36.6
iS 07 43 19.3
(cont.)

1976
Mar. 16 (cont.)
Ud iP 07 36 55.8 C
i 07 36 59.0
iPP 07 38 41.1
De iP 07 36 39.9 C
i 07 36 43.9
Iran (h = N).
m = 6.0, M = 5.1 (Up,Ki).

" 16 Um iP 12 01 09.7
Ud iP 12 01 10.3

" 16 Up iSgl 13 17 39.8
Sk iSgl 13 17 34.4
Um iSgl 13 18 50.7
Ud iPgl 13 16 14.9
i 13 16 36.1
iSgl 13 16 38.5
De iSn 13 17 35.4
Southeast Norway,
60.1°N, 10.0°E.
Origin time = 13 15 43.
M_L = 2.3 (Up,Um,Ud).

" 16 Up eP 15 44 07
Um ipP 15 44 34.0
Atlantic Ocean (h = N).

" 16 Up iP 16 41 08.6
Ud iP 16 41 24.3

" 16 Up eP 16 42 49
Ud iP 16 43 03.5

" 16 Up iP 21 27 29.9
Ki iP 21 26 53.7
Um iP 21 27 09.1 C
Ud iP 21 27 36.9 C
Japan (h = 30 km).

" 16 Up iPKPl 22 38 40.0
Um iPKPl 22 38 27.0
Ud iPKPl 22 38 41.7
De iPKPl 22 38 50.1
Kermadec Islands (h = 40 km).

" 17 Ki ipP 04 38 00.2
Um iP 04 37 59.8
ipP 04 38 12.0
Mariana Islands.
h = 40 km (Um).

" 17 Ud i(P) 11 40 42.6
i 11 40 49.0

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Mar.	17	Up	iP		14 26 48.3 C
					micr sec
			P	Z'	0.3 1.1
		Ki	iP		14 26 14.3 C
					micr sec
			P	Z'	0.2 0.9
		Sk	iP		14 26 22.4 C
		Um	iP		14 26 33.4 C
		Ud	iP		14 26 40.6 C
		De	iP		14 26 57.1 C
		Nevada.			
		m = 6.3 (Up,Ki).			
		Underground explosion.			
"	17	Up	iP		14 56 48.5 C
					micr sec
			P	Z'	0.3 1.1
		Ki	iP		14 56 14.7 C
					micr sec
			P	Z'	0.2 1.0
		Sk	iP		14 56 22.6 C
		Um	iP		14 56 33.9 C
		Ud	iP		14 56 40.8 C
		De	iP		14 56 57.3 C
		Nevada.			
		m = 6.3 (Up,Ki).			
		Underground explosion.			
"	17	Ud	iSgl		15 02 59.4
		De	iSgl		15 01 10.5
"	17	Up	iSgl		15 08 30.5
		Sk	iSgl		15 08 28.6
		Ud	i		15 07 23.7
			iSgl		15 07 31.9
		De	iSn		15 07 19.2
		Coast of southwest Norway,			
		58.2°N, 6.3°E.			
		Origin time = 15 05 21.			
		M_L = 2.6 (Ud).			
		By combination with Bergen			
		and Kongsberg readings.			
"	17	Up	iP		19 38 27.9
		Ki	iP		19 37 58.3
		Um	iP		19 38 10.2
		Mariana Islands (h = 45 km).			
"	17	Ud	iP		19 50 57.6
"	17	Up	iPKPl		22 03 35.4
		Sk	iSKPl		22 06 17.4
		Um	iSKPl		22 06 11.8
		(cont.)			

1976					
Mar.	17	(cont.)			
		Ud	iPKPl		22 03 38.3 C
		De	iPKPl		22 03 48.7 C
		Tonga-Kermadec Islands			
		(h = 590 km).			
"	18	Up	iPKPl		03 55 09.4
		Ud	iPKPl		03 55 11.6 C
		De	iPKPl		03 55 22.0
"	18	Um	iPKPl		04 54 21.3
			i		04 54 34.2
		Ud	iPKPl		04 54 34.7
			i		04 54 50.2
"	18	Up	iP		06 03 49.1
			i		06 03 55.0
		Ud	iP		06 04 05.5
			i		06 04 10.4
		Iran (h = N).			
"	18	Up	iPKPl		11 26 42.0 C
			iPKP2		11 26 46.0
		Sk	iPKPl		11 26 35.1
		Um	iPKP		11 26 28.7 C
			iPKPl		11 26 30.1 C
		Ud	iPKPl		11 26 43.8 C
			iPKP2		11 26 48.8
		De	iPKPl		11 26 52.0 C
"	18	De	iP		14 59 27.3
			i		14 59 33.4
			i		14 59 42.4
"	18	Up	i(P)		17 39 38.9
		Ud	i(P)		17 39 13.6
"	18	Um	iP		17 48 04.6
		Red Sea (h = N).			
"	18	Up	iP		17 59 23.7
		Um	iP		17 59 36.0
		Ud	iP		17 59 38.8
"	18	Up	iPKPl		20 03 55.6 C
			i		20 04 01.8
					micr sec
			PKPl	Z'	0.1 0.8
		Ki	iPKP		20 03 44.9
		Sk	e(PKP)		20 03 49
		Um	i(PKP)		20 03 41.9
			iPKP		20 03 53.5
			iSKPl		20 06 39.4
		Ud	iPKPl		20 03 58.6
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 18 (cont.)

De	iPKPl		20 04 08.4	
	ipPKPl		20 06 09.0	

Tonga-Kermadec Islands.
h = 530 km (De).

" 19

Ki	eP		00 18 25	
Um	iP		00 18 37.2	

Mariana Islands (h = 40 km).

" 19

Up	iPKPl		02 37 56.9	
	ipPKPl		02 38 08.8	
			micr	sec
	pPKPl	Z'	0.1	1.2
Ki	i(PKP)		02 37 31.7	
	iPKP		02 37 38.8	
Sk	iPKPl		02 37 49.5	
	ipPKPl		02 38 01.6	
Um	iPKPl		02 37 44.6	
	ipPKPl		02 37 56.7	
Ud	iPKPl		02 37 58.3	
	iPKP2		02 38 02.6	
	ipPKPl		02 38 10.2	
De	iPKPl		02 38 06.6	
	iPKP2		02 38 16.0	

Kermadec Islands.
h = 40 km (Up,Sk,Um,Ud).

" 19

Up	iP		03 40 09.3	
Ud	iP		03 40 24.4	

" 19

Ud	iPKP		09 59 53.1	
De	iPKP		10 00 00.4	

Tonga Islands (h = 190 km).

" 19

Up	i(P)		10 26 27.4	

" 19

Up	iP		13 11 05.5	C
	iS		13 17 09	
			micr	sec
	P	Z'	0.3	1.1
	Mx	N	8.9	15
Ki	iP		13 11 18.1	C
	iPP		13 12 51.3	
			micr	sec
	P	Z'	0.2	1.3
	PP	Z'	0.7	2.0
	Mx	E	4.9	7
	Mx	N	6.5	9
	Mx	Z	2.7	6
Sk	iP		13 11 33.1	C
Um	iP		13 11 05.6	C
	iPP		13 12 38.4	
Ud	iP		13 11 22.6	C
De	iP		13 11 17.5	C
	iPP		13 12 54.3	

(cont.)

1976
Mar. 19 (cont.)
Hindu Kush (h = N).
m = 5.8 (Up,Ki).

" 19

Up	i(P)		13 43 20.1	

" 19

Up	i(P)		14 08 17.5	

" 19

Um	iP		16 07 31.4	

" 19

Ud	iP		21 17 21.6	

Mindanao (h = N).

" 19

Up	iPKP2		21 26 47.4	
Sk	iPKPl		21 26 38.2	
Um	iPKPl		21 26 31.9	
Ud	iPKPl		21 26 45.9	
De	iPKP2		21 26 58.5	

" 20

Up	iPKPl		00 27 53.5	
Ud	iPKPl		00 27 54.9	
	i		00 28 07.5	
De	iPKP		00 27 58.4	

Tonga-Kermadec Islands
(h = N).

" 20

Up	iP		01 18 42.7	
	ipP		01 18 54.5	
	iS		01 28 21.3	
			micr	sec
	P	Z'	0.3	1.4
	pP	Z'	0.4	1.3
	Mx	E	10	18
	Mx	N	6.4	19
	Mx	Z	20	18
Ki	iP		01 18 18.4	
	ipP		01 18 31.8	
			micr	sec
	P	Z'	0.1	0.9
	pP	Z'	0.2	1.1
	Mx	E	5.9	13
	Mx	N	2.6	12
	Mx	Z	5.4	14
Sk	iP		01 18 46.6	
	ipP		01 18 59.5	
Um	iP		01 18 27.2	C
	ipP		01 18 40.6	
	iS		01 27 52	
Ud	iP		01 18 52.3	C
	ipP		01 19 04.5	
De	iP		01 19 01.6	
	i		01 19 17.6	

Formosa.
h = 45 km (Up,Ki,Sk,Um,Ud).
m = 6.1, M = 6.2 (Up,Ki).

" 20

Ud	iP		03 25 21.9	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Mar.	20	Up	iP1	04 10 30.1	
			iP3	04 10 36.3	
		Ki	iP1	04 10 14.8	
			iP3	04 10 20.3	
				micr sec	
			P3	Z' 0.1 0.6	
		Sk	iP1	04 10 45.6	
			iP3	04 10 51.4	
		Um	iP1	04 10 15.2	
			iP2	04 10 16.7	
			iP3	04 10 20.8	
		Ud	iP1	04 10 46.6	
			iP2	04 10 48.7	
			iP3	04 10 52.3	
			iLg1	04 22 56.5	
		De	eP1	04 10 54	
			iLg1	04 23 10.3	
		Kazakh SSR (h = 0 km).			
		Explosion?			
		Measured m vs M ratio is too small when compared with previous presumed Kazakh underground explosions to provide clear discrimination.			
"	20	Up	iP	04 42 24.5	
		Ki	iP	04 42 09.2	C
				micr sec	
			P	Z' 0.1 0.9	
		Sk	iP	04 42 38.4	C
		Um	iP	04 42 10.5	C
		Ud	iP	04 42 39.5	C
		De	iP	04 42 45.2	
		Sinkiang, China (h = N).			
"	20	Up	iP	05 04 15.7	
		Ki	eP	05 04 12	
		Um	iP	05 04 09.8	
		Ud	iP	05 04 28.6	
		Burma (h = 80 km).			
"	20	Up	iP	09 31 44.2	
		Ki	iP	09 32 18.3	
		Ud	iP	09 31 59.2	
			i	09 32 01.3	
		Iran (h = N).			
"	20	Um	iP	09 33 54.9	
		Mariana Islands (h = 45 km).			
"	20	Um	iP	12 46 32.5	
		Mariana Islands (h = 40 km).			
"	20	Up	ePKP1	14 05 45	
			i	14 05 48.8	
		(cont.)			

1976 Mar.	20	(cont.)			
		Um	i(PKP)	14 05 39.5	
			iPKP	14 05 45.7	
			iSKP1	14 08 20.6	
		Ud	iPKP1	14 05 47.4	
			iSKP1	14 08 33.8	
		De	iPKP1	14 05 58.3	
		Fiji Islands (h = 620 km).			
"	20	Up	iPKP2	18 19 11.2	
			i	18 19 22.4	
		Ki	iPKP1	18 18 38.0	
			i	18 18 50.9	
				micr sec	
			PKP1	Z' 0.1 1.5	
		Sk	iPKP1	18 18 51.8	
		Um	iPKP	18 18 40.2	
			iPKP1	18 18 46.2	D
			iPKP2	18 18 57.3	
		Ud	iPKP	18 18 46.4	
			iPKP2	18 19 16.0	
		De	iPKP2	18 19 28.2	
		North Island, New Zealand (h = 50 km).			
"	20	Up	iPKP2	18 25 42.5	
			i	18 25 54.9	
		Ki	iPKP1	18 25 09.9	D
				micr sec	
			PKP1	Z' 0.1 1.1	
		Sk	iPKP1	18 25 23.3	
		Um	iPKP	18 25 11.6	
			iPKP1	18 25 17.8	D
			iPKP2	18 25 28.9	
			i	18 25 41.2	
		Ud	iPKP	18 25 18.4	
			iPKP2	18 25 47.6	
		De	iPKP2	18 25 59.8	
		North Island, New Zealand (h = 45 km).			
"	20	Ud	iP	18 32 47.5	
"	20	Up	iPKP2	18 59 14.1	
		Ki	iPKP1	18 58 41.0	
				micr sec	
			PKP1	Z' 0.1 1.0	
		Sk	iPKP1	18 58 53.6	
		Um	iPKP	18 58 43.0	
			iPKP1	18 58 49.1	D
			iPKP2	18 58 58.4	
		Ud	iPKP2	18 59 19.7	
		North Island, New Zealand (h = 45 km).			
"	20	Up	iP	19 00 23.1	
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 20 (cont.)

Um	iP	19 00 21.1
Ud	iP	19 00 39.8

Afghanistan-USSR (h = 240 km).

"	21	Um	iP 01 24 50.4
"	21	Up	iPKPl 06 07 34.6
		Um	iPKPl 06 07 26.2
		Ud	ePKPl 06 07 39
"	21	Ki	iP 07 21 13.2
		Um	iP 07 21 24.6

Mariana Islands (h = 40 km).

"	21	Up	iP2 08 35 30.6
		Ki	eP1 08 35 09
		Sk	iP2 08 35 33.1
		Um	iP2 08 35 19.4
		Ud	iP1 08 35 34.2
			iP2 08 35 37.9

Mindanao (h = N).

"	21	Up	iP 10 43 27.0
		Um	iP 10 43 01.7
		Ud	iP 10 43 32.8

Kurile Islands (h = 55 km).

"	21	Um	iPKPl 11 29 28.8
		Ud	ePKPl 11 29 42
"	21	Ud	iP 12 10 42.3

Tadzhik SSR (h = 50 km).

"	21	Ud	i(P) 13 48 13.1
"	21	Ki	iP 17 43 28.0
		Um	iP 17 43 55.2
		Ud	iP 17 44 21.0

Aleutian Islands (h = 35 km).

"	21	Up	iPKPl 18 10 08.1
		Ki	iPKPl 18 09 48.7
		Um	iPKP 18 09 51.1
			iPKPl 18 09 58.6
			iPKP2 18 10 08.1

North Island, New Zealand (h = 35 km).

"	21	Um	iP 20 10 02.1
		Ud	iP 20 10 33.5

Japan (h = 80 km).

"	21	Up	iP 23 22 16.6
		Ki	iP 23 21 51.1
		Sk	iP 23 22 19.8
		Um	iP 23 22 00.8 D

(cont.)

1976
Mar. 21 (cont.)

Ud	iP	23 22 25.3 D

Formosa (h = 120 km).

"	22	Up	iP 02 50 32.0
		Ud	iP 02 50 47.8

Iran (h = 45 km).

"	22	Up	iP 05 19 50.9
		Ki	iP 05 18 57.0
		Um	iP 05 19 23.3
		Ud	iP 05 19 47.5
			i 05 19 49.9
		De	iP 05 20 12.7

Aleutian Islands (h = 80 km).

"	22	Ud	iSgl 05 51 57.1
"	22	Up	iP 06 23 23.8
		Sk	iP 06 23 46.3
		Um	iP 06 23 19.1
		Ud	iP 06 23 38.4

Kashmir (h = 70 km).

"	22	Um	i(P) 06 51 45.0
"	22	Sk	ePKPl 09 33 35
		Um	iPKPl 09 33 27.2
		Ud	iPKPl 09 33 41.3

Kermadec Islands (h = N).

"	22	Um	iP 15 16 05.2
		Ud	iP 15 16 37.8
"	22	Um	iP 15 52 43.8
"	22	Um	iP 20 00 55.4
		Ud	iP 20 01 21.7
"	22	Um	iP 21 00 25.7
		Ud	iP 21 00 45.5

Afghanistan-USSR (h = 110 km).

"	23	Um	iP 04 30 12.1
"	23	Up	iPn 04 46 17.4
			iSn 04 47 23.9
			i 04 47 36.8
			iSgl 04 48 03.9
		Ki	i 04 49 31.1
			iSgl 04 49 35.8
		Sk	iPn 04 45 50.9
			iSn 04 46 29.3
			iSgl 04 46 51.3
		Um	iSn 04 47 48.4
			i 04 48 11.7
			iSgl 04 48 35.1

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 23 (cont.)

Ud	i(P)	04 45 42.4
	iPn	04 45 50.4
	iSn	04 46 33.4
	i	04 46 48.6
	iSgl	04 47 01.5
De	i(P)	04 46 11.2
	iPn	04 46 20.4
	iSn	04 47 29.3
	i	04 47 42.1
	i(S*)	04 48 04.9
	iSgl	04 48 12.7

West coast of Norway,
61.4°N, 5.3°E.
Origin time = 04 44 49.
M_L = 3.2 (Up,Ki,Sk,Um,Ud,De).
Felt.
(P)-phases at Ud and De may belong to a preceding event in the same focal area.

" 23

Up	iP	11 43 35.1
	ipP	11 43 46.3
Ki	iP	11 42 59.8
Um	iP	11 43 15.2
Ud	iP	11 43 41.9
	ipP	11 43 53.3

Japan.
h = 40 km (Up,Ud).

" 23

Up	iP	12 41 22.3
Um	iP	12 41 22.7
Ud	iP	12 41 38.7

Hindu Kush (h = N).

" 23

Ki	iP	12 58 35.4
Um	iP	12 58 46.2

Mariana Islands (h = 40 km).

" 23

Um	ipPKP	14 55 29.0
De	iPKP	14 55 27.3

Solomon Islands (h = 55 km).

" 23

Up	iPKP1	22 03 02.3
	iPKP2	22 03 04.8
Sk	iPKP1	22 02 55.0
Um	iPKP1	22 02 50.0
Ud	iPKP1	22 03 04.4
	iPKP2	22 03 07.4
	i	22 03 16.9
De	iPKP1	22 03 13.7
	i	22 03 23.1

1976
Mar. 24

Up	iP	01 04 52.2
Ki	eP	01 04 18
Um	iP	01 04 32.5
Ud	iP	01 04 59.6

Japan (h = 390 km).

" 24

Up	iPKP		05 05 42.3	
	iPKP1		05 05 46.9	
	iSKKS		05 16 03.8	
			micr	sec
	PKP	Z'	0.1	1.3
	PKP1	Z'	2.6	0.8
	Mx	E	20	23
	Mx	N	57	23
	Mx	Z	64	23
Ki	i(PKP)		05 05 21.8	
	i(PKP)		05 05 25.0	
	iPKP1		05 05 26.7	
	iPKP		05 05 30.7	
			micr	sec
	PKP	Z'	0.3	0.7
	Mx	E	25	23
	Mx	N	47	22
	Mx	Z	37	21
Sk	iPKP1		05 05 39.1	C
Um	iPKP1		05 05 33.9	C
	i		05 05 34.6	
Ud	iPKP		05 05 43.8	
	iPKP1		05 05 47.4	
De	iPKP		05 05 49.4	C
	iPKP1		05 05 54.4	C

Kermadec Islands (h = 35 km).
M = 7.3 (Up,Ki).

" 24

Up	iPKP1	05 20 51.7
Um	iPKP1	05 20 41.2
Ud	iPKP1	05 20 53.4
De	iPKP1	05 21 05.3

Kermadec Islands.

" 24

Up	iPKP1	05 27 25.8
Ud	iPKP1	05 27 27.3
De	iPKP1	05 27 35.2

Kermadec Islands.

" 24

Up	iPKP1	06 10 33.6
Um	iPKP1	06 10 20.5
Ud	iPKP1	06 10 34.3

Kermadec Islands.

" 24

Up	ePKP1	06 44 48
Sk	iPKP1	06 44 40.2
Ud	iPKP1	06 44 49.1

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 24 (cont.)
De iPKPl 06 44 57.5
Kermadec Islands.

" 24 Up iPKPl 07 18 50.0
Ud iPKPl 07 18 51.1
i 07 18 52.5
De ePKPl 07 19 01
Kermadec Islands.

" 24 Up iPKPl 08 34 18.2
i 08 34 23.6
Sk iPKPl 08 34 11.1
Um iPKPl 08 34 05.6
Ud iPKPl 08 34 19.6
De iPKPl 08 34 28.3
Kermadec Islands.

" 24 Ud i(P) 08 49 12.9

" 24 Up i(P) 08 57 31.1

" 24 Up iPKP 10 04 29.5
Ki iPKP 10 04 44.6
micr sec
PKP Z' 0.1 1.0
Um iPKP 10 04 38.5
Ud iPKP 10 04 28.4
South Sandwich Islands
(h = N).

" 24 Ud iSgl 14 59 17.5
De iSgl 14 59 36.6

" 24 Ki iP 15 02 57.3
Um iP 15 03 17.7
Ud iP 15 03 49.6

" 24 Ki iP 15 54 49.0
Um iP 15 55 15.8
ipP 15 55 45.6
Ud iP 15 55 41.7
De iP 15 56 03.4
Aleutian Islands (h = 110 km).

" 24 Up iPgl 17 31 42.3
i 17 32 26.9
Um iSgl 17 34 24.0
Ud iSgl 17 33 14.3
De iPn 17 31 35.8
iPgl 17 31 44.4
iSgl 17 32 35.5
Coast of Latvia,
56.3°N, 20.7°E.
(cont.)

1976
Mar. 24 (cont.)
Origin time = 17 30 34.
M_L = 2.9 (Um,Ud,De).
Explosion?
By combination with Helsinki regional bulletin.

" 24 Up iP 18 05 57.9
Ki iP 18 06 07.5
Um iP 18 05 56.0
Ud iP 18 06 14.4
De iP 18 06 10.7
Hindu Kush (h = 230 km).

" 24 Um iP 20 55 41.1
Ud iP 20 55 56.8

" 24 Um iP 21 11 06.4

" 25 Up iPKPl 00 38 15.4
micr sec
PKPl Z' 0.1 1.0
Sk ePKPl 00 38 08
Um iPKPl 00 38 05.0
Ud iPKPl 00 38 17.0 C
De iPKPl 00 38 25.2
iPKP2 00 38 35.8
Kermadec Islands (h = N).

" 25 Up iP 00 52 23.3
Ki iP 00 52 02.2
Um iP 00 52 13.9
Ud iP 00 52 10.9
Arkansas (h = 15 km).

" 25 Up iP 01 59 04.9
Um iP 01 58 39.3
Ud iP 01 59 10.6

" 25 Up iP 03 54 37.2 C
i 03 55 21.3
micr sec
P Z' 0.1 0.8
Ki iP 03 54 38.2
ipP 03 54 44.4
Sk iP 03 54 52.9
Um iP 03 54 33.8
ipP 03 54 39.5
i 03 55 17.9
Ud iP 03 54 48.2 C
ipP 03 54 54.1
i 03 55 32.4
De iP 03 54 46.0 C
ipP 03 54 51.7
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 25 (cont.)

De	i		03 55 30.2	
Nicobar Islands.				
h = 20 km (Ki,Um,Ud,De).				
" 25 Ud	iP		04 15 36.1	
" 25 Up	iP		06 29 20.2	
Ki	iP		06 29 19.3	
	i		06 29 27.3	
Um	iP		06 29 17.2	
De	iP		06 29 29.9	
Nicobar Islands (h = N).				
" 25 Up	iP		08 00 00.2	
	ipP		08 00 09.0	
Ki	iP		07 59 06.3	
	ipP		07 59 15.1	
			micr	sec
	P	Z'	0.1	1.0
	pP	Z'	0.1	0.9
Sk	iP		07 59 32.0	
Um	iP		07 59 33.9	
Ud	iP		07 59 58.0	
De	iP		08 00 18.1	
Kodiak Island.				
h = 30 km (Up,Ki).				
" 25 Up	iP		08 28 19.6	
	i		08 28 25.9	
			micr	sec
	P	Z'	0.1	1.0
	i	Z'	0.4	1.4
Sk	iP		08 28 36.3	
Um	iP		08 28 16.6	
	i		08 28 22.0	
Ud	iP		08 28 31.1	
De	iP		08 28 29.3	
Nicobar Islands (h = N).				
" 25 Ud	iP		08 54 40.9	
Mindanao (h = 60 km).				
" 25 Um	iP		11 22 03.9	
" 25 Up	iP		12 00 58.2	
	ipP		12 01 03.3	
	iS		12 05 14	
			micr	sec
	pP	Z'	0.1	1.0
	Mx	E	4.0	19
	Mx	N	5.1	17
Ki			micr	sec
	Mx	E	3.5	13
	Mx	N	3.5	14

(cont.)

1976
Mar. 25 (cont.)

Um	iP		12 01 13.0	
	ipP		12 01 19.1	
Ud	iP		12 01 13.6	
	ipP		12 01 19.6	
De	iP		12 00 56.4	
Turkey-USSR.				
h = 20 km (Up,Um,Ud).				
M = 5.2 (Up,Ki).				
" 25 Sk	iP		12 34 22.9	
Um	iP		12 34 38.3	
Ud	iP		12 34 32.8	
Mexico (h = 100 km).				
" 25 Up	iPKP1		13 00 29.9	
	iPKP2		13 00 33.3	
			micr	sec
	PKP2	Z'	0.1	0.8
Sk	iPKP1		13 00 22.9	
Um	iPKP1		13 00 17.5	
Ud	iPKP1		13 00 31.1	
	iPKP2		13 00 36.2	
De	iPKP1		13 00 39.3	
Kermadec Islands (h = 40 km).				
" 25 Ud	i(P)		14 53 06.4	
" 25 Up	iP		17 10 15.4	
	ipP		17 10 33.6	
Sk	iP		17 10 30.3	
Um	iP		17 10 12.6	
Ud	iP		17 10 25.6	
	ipP		17 10 50.8	
De	iP		17 10 25.4	
Sumatra.				
h = 80 km (Up,Ud).				
" 25 Ud	iP		18 42 05.3	
Kurile Islands (h = 330 km).				
" 25 Up	eP		20 48 37	
Sk	iP		20 47 40.6	
Um	iP		20 48 04.3	
Ud	iP		20 48 26.4	
Jan Mayen.				
" 25 Up	iP		21 19 52.6	
	i		21 20 02.2	
Sk	iP		21 18 52.0	
	i		21 19 07.4	
Um	iP		21 19 16.4	
Ud	iP		21 19 38.9	
De	iP		21 20 26.9	
Jan Mayen (h = N).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976

Mar.	25	Up			micr	sec
			Mx	E	4.4	25
			Mx	Z	6.7	24
		Ki			micr	sec
			Mx	E	4.8	20
			Mx	N	2.5	20
		Um	iP		22 29 42.6	
		Galapagos Islands (h = N).				
		M = 5.9 (Up,Ki).				
"	25	Up	iP		23 17 40.2	
		Sk	iP		23 17 19.3	
		Um	iP		23 17 33.3	
		Ud	iP		23 17 30.5	
		De	iP		23 17 40.2	
		Mexico (h = N).				
"	25	Ud	iP		23 49 01.4	
		Kurile Islands (h = 45 km).				
"	26	Up	iP		02 03 24.2	
			i		02 03 32.4	
		Sk	iP		02 02 23.8	
			i		02 02 33.6	
		Um	iP		02 02 47.5	
		Ud	iP		02 03 09.8	
		Jan Mayen (h = N).				
"	26	Sk	iP		02 10 40.8	
		Um	iP		02 11 04.7	
		Ud	iP		02 11 28.4	
		Jan Mayen.				
"	26	Um	iP		03 28 26.1	
		Ud	iP		03 28 40.3	
		Sumatra (h = 55 km).				
"	26	Ki	iP		11 17 38.8	
			i		11 18 00.1	
		Um	iP		11 17 29.1	
			i		11 17 50.7	
"	26	Um	iPKPl		13 35 15.4	
		Ud	iPKPl		13 35 28.3	
"	26	Sk	eP		14 49 23	
		Um	iP		14 49 21.2	
		Alaska (h = N).				
"	26	Ki	iP		15 09 02.3	
		Um	iP		15 09 45.2	
		North of Franz Josef Land (h = N).				

1976

Mar.	26	Ud	iPKPl		15 14 17.4	
		De	iPKPl		15 14 29.1	
"	26	Up	iPKP		20 34 18.1	
		Ki	iPKP		20 34 32.9	
		Um	iPKP		20 34 25.5	
		Ud	iPKP		20 34 16.0	
		South Sandwich Islands (h = N).				
"	27	Ki	iP		00 30 30.9	
			i		00 30 35.6	
		Um	iP		00 31 08.2	
		Ud	iP		00 31 36.2	
			i		00 31 41.7	
"	27	Up	iPKP		02 54 47.5	
			iPKPl		02 54 49.9	
					micr	sec
			PKPl	Z'	0.1	1.0
		Ki	iPKP		02 54 33.6	
		Sk	iPKPl		02 54 43.2	
		Um	iPKPl		02 54 37.8 C	
		Ud	iPKP		02 54 48.0	
			iPKPl		02 54 51.7 C	
		De	iPKP		02 53 54.0	
			iPKPl		02 53 59.0	
		Kermadec Islands (h = 35 km).				
"	27	Ki	eP		03 06 34	
		Ud	iP		03 06 47.7	
		Kirgiz SSR (h = N).				
"	27	Up	iPKPl		04 10 50.2	
		Um	iPKPl		04 10 37.5	
		Ud	iPKPl		04 10 51.5	
"	27	Up	iPn		09 26 23.1	
			i		09 26 30.3	
			iSn		09 27 30.5	
			iSgl		09 28 05.8	
		Sk	iSgl		09 28 38.7	
		Ud	iPn		09 26 01.1	
			i		09 26 49.2	
			iSn		09 26 52.7	
			iSgl		09 27 20.1	
		De	i		09 26 05.2	
			iSn		09 26 29.2	
		Off west coast of Jutland, Denmark, near 56 3/4°N, 7°E.				
		Origin time = 09 24 52.				
		M_L = 2.4 (Up,Ud).				
"	27	Up	iPKP		20 01 36.8	
			iPKPl		20 01 40.9 C	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 27 (cont.)

Up			micr	sec	
	PKPl	Z'	0.5	1.1	
Ki	iPKPl		20 01	18.2	
	i		20 01	22.1	
Sk	iPKPl		20 01	34.5	C
Um	iPKP		20 01	25.0	
	iPKPl		20 01	29.4	C
Ud	iPKP		20 01	38.5	
	iPKPl		20 01	43.1	C
De	iPKP		20 01	44.1	
	iPKPl		20 01	51.3	C

Kermadec Islands (h = 60 km).

" 27 Um iP 21 17 27.6
i 21 17 32.7

" 27 Um iP 21 34 05.1
Ud iP 21 34 25.0

" 27 Um iPKPl 22 33 50.8
i 22 34 27.6
Ud iPKPl 22 34 03.4

" 27 Sk iP 23 27 15.1
i 23 27 20.4
Um iP 23 27 29.5
i 23 27 34.9

Central America (h = N).

" 28 Um iP 00 32 29.7
i 00 32 34.6

Central America (h = N).

" 28 Up iP 01 55 38.3
Ki iP 01 55 11.3
Sk iP 01 55 35.8
Um iP 01 55 21.8 C
Ud iP 01 55 43.8 C

Mariana Islands (h = 120 km).

" 28 Ki iP 02 00 09.2
Um iP 02 00 15.3
i 02 00 24.9

" 28 Ud iP 04 25 11.9

Ionian Sea (h = N).

" 28 Up iP 07 06 09.1
Ki iP 07 05 15.9

			micr	sec
	P	Z'	0.1	1.0

Sk iP 07 05 44.1
Um iP 07 05 42.2
Ud iP 07 06 08.0
De iP 07 06 30.8

Aleutian Islands (h = 35 km).

1976
Mar. 28 Um iP 08 06 44.7
Ud iP 08 07 10.4

" 28 Up iP 08 56 47.2

			micr	sec
	P	Z'	0.1	1.4

Ki eP 08 56 39
Ud iP 08 57 03.3

Sinkiang, China (h = 35 km).

" 28 Ud iP 14 04 06.9

Turkey (h = 5 km).

" 28 Um iP 17 00 29.7

Japan (h = 60 km).

" 28 Up iP 20 27 56.1
i 20 28 07.0
iS 20 34 33

			micr	sec
	i	Z'	0.1	0.9
	Mx	E	3.3	24
	Mx	N	5.6	22
	Mx	Z	4.6	20

Ki iP 20 28 19.6
ipP 20 28 26.2

			micr	sec
	P	Z'	0.1	1.3
	pP	Z'	0.3	1.5
	Mx	N	5.2	22

Sk ipP 20 27 50.2
Um iP 20 28 10.5
ipP 20 28 19.4
iS 20 35 02
Ud iP 20 27 41.1
ipP 20 27 47.9
De ipP 20 27 36.3

North Atlantic Ocean.
h = 25 km (Ki,Um,Ud).
m = 5.8, M = 5.5 (Up,Ki).

" 28 Up iP 22 31 10.2

			micr	sec
	P	Z'	0.1	1.0

Ki iP 22 30 26.2

			micr	sec
	P	Z'	0.1	0.8

Sk iP 22 31 01.9
Um iP 22 30 45.4
Ud iP 22 31 16.3
De iP 22 31 33.4

Japan (h = 55 km).
m = 5.8 (Up,Ki).

" 28 Up iPKPl 22 52 33.0

			micr	sec
	PKPl	Z'	0.1	1.0

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 28 (cont.)

Sk	iPKPl		22 52 26.0
Um	iPKPl		22 52 20.3
Ud	iPKPl		22 52 34.1
De	iPKPl		22 52 44.7

" 29 Ud iP 00 04 58.7
Mindanao (h = N).

" 29

Up	iPl		05 52 47.1
	iSKS		06 03 19
	iS		06 03 55
			micr sec
	Mx	E	5.6 15
	Mx	N	6.8 16
	Mx	Z	14 17
Ki	iPl		05 52 43.9
	i		05 52 51.0
			micr sec
	Pl	Z'	0.3 1.6
	Mx	E	14 18
	Mx	N	11 20
	Mx	Z	22 20
Sk	eP2		05 52 36
Um	iPl		05 52 48.7
	iP2		05 52 53.3
	iSKS		06 03 24
	iS		06 03 58
Ud	iP2		05 52 42.3

Central America (h = N).
M = 6.4 (Up,Ki).

" 29

Up	iP	07 04 47.6
Ki	iP	07 05 24.2
Sk	iP	07 05 25.9
Um	iP	07 04 56.0
Ud	iP	07 05 08.3
De	iP	07 04 59.0

" 29

Up	i(PKP)	12 10 30.3
Um	iPKP	12 10 30.4
Ud	i(PKP)	12 10 31.9
	iPKP	12 10 38.9
De	iPKPl	12 10 36.5

Fiji Islands (h = 540 km).

" 29

Ki	iP		12 42 58.3
	i		12 43 05.6
			micr sec
	P	Z'	0.2 1.0
Sk	iP		12 43 06.8
	iS		12 45 00.8
Um	iP		12 43 34.4
	iS		12 45 51.1
Ud	iP		12 43 52.7

Jan Mayen (h = N).

1976
Mar. 29

Up	iPgl	14 15 25.1
	iSn	14 15 52.1
	iSgl	14 15 58.5
Ki	iSgl	14 19 09.9
Sk	iSn	14 16 20.0
	i	14 16 31.1
	iSgl	14 16 32.4
Um	iSgl	14 17 23.3
Ud	iPgl	14 14 49.3
	iSgl	14 14 57.5
De	ePgl	14 15 40
	iSn	14 16 12.5
	iSgl	14 16 25.1
	i	14 16 29.5

Värmland, Sweden,
59.9°N, 12.6°E.
Origin time = 14 14 39.
M_L = 3.1 (Up,Sk,Um,Ud,De).
Felt.

" 29

Up	iP		19 59 16.8
	iPcP		19 59 44.2
			micr sec
	P	Z'	0.1 0.8
Ki	iP		19 58 30.3
	iPcP		19 59 15.2
			micr sec
	P	Z'	0.1 0.8
Sk	iP		19 59 06.7
Um	iP		19 58 51.2
	i		19 59 36.0
Ud	iP		19 59 22.2
	i		20 00 45.6
De	iP		19 59 40.5

Kurile Islands (h = 160 km).
m = 5.7 (Up,Ki).

" 29 Ud iP 22 06 13.5

" 30

Um	iP	03 43 30.7
Ud	iP	03 44 01.2

Japan (h = 30 km).

" 30

Up	iP		06 04 28.5
			micr sec
	P	Z'	0.1 1.0
	Mx	E	1.9 24
	Mx	N	2.3 21
Ki	iP		06 03 48.1
			micr sec
	P	Z'	0.1 1.0
	Mx	E	4.7 19
	Mx	N	3.6 20
Sk	iP		06 04 22.7
Um	iP		06 04 06.2

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 30 (cont.)

Um	i		06 04 16.2
Ud	iP		06 04 36.2
	i		06 04 45.9
De	iP		06 04 53.0

Japan (h = 40 km).
m = 5.9, M = 5.6 (Up,Ki).

" 30

Up	iP		06 07 29.0
Um	iP		06 07 06.0
Ud	iP		06 07 35.7

Japan.

" 30

Up	iP		06 15 31.2	C
			micr sec	
	P	Z'	0.2 1.1	
Ki	iP		06 14 48.9	C
			micr sec	
	P	Z'	0.2 1.1	
Sk	iP		06 15 21.6	
Um	iP		06 15 08.2	C
Ud	iP		06 15 38.4	C
	i		06 15 49.1	
De	iP		06 15 54.2	C

Japan (h = 40 km).
m = 6.1 (Up,Ki).

" 30

Up	iP		09 20 36.8
Ki	iP		09 19 56.6
Um	iP		09 20 13.7
Ud	iP		09 20 44.0

Japan (h = 50 km).

" 30

Up	iP		09 36 17.3
			micr sec
	P	Z'	0.1 1.0
Ki	iP		09 35 35.4
Ud	iP		09 36 23.5
De	iP		09 36 39.8

Japan (h = 45 km).

" 30

Ud	iP		14 51 54.7

" 30

Ki	iP		15 10 42.9
Sk	i		15 12 42.2
Um	iP		15 11 22.2
Ud	iP		15 11 43.8

" 30

Ki	iP		19 07 09.8
Sk	iP		19 07 24.3
	i		19 09 11.0
Um	iP		19 07 48.3
	i		19 10 21.9
Ud	iP		19 08 10.5

1976
Mar. 31

Up	iP		00 06 24.1
			micr sec
	P	Z'	0.1 1.3
Ki	iP		00 06 21.8
			micr sec
	P	Z'	0.1 1.4
Sk	iP		00 05 53.1
Um	iP		00 06 25.7
Ud	iP		00 06 06.1

North Atlantic Ocean
(h = 10 km).
m = 5.3 (Up,Ki).

" 31

Up	iP		02 42 02.5
	i		02 42 24.3
Ki	iP		02 42 33.6
	i		02 42 41.6
Sk	eP		02 42 36
Um	iP		02 42 12.7
Ud	iP		02 42 17.0
De	iP		02 42 03.4

Iran (h = 70 km).

" 31

Ki	iP		08 29 25.3
Sk	iP		08 30 41.1
Um	iP		08 30 05.1
Ud	iP		08 30 27.8

" 31

Ud	i(P)		10 46 38.3

" 31

Up	iP		21 17 13.8
Ki	iP		21 17 22.0
Sk	iP		21 17 39.2
Um	iP		21 17 11.3
	ipP		21 17 36.4
Ud	iP		21 17 30.3
	ipP		21 17 56.5
De	iP		21 17 27.4

Afghanistan-USSR.
h = 110 km (Um,Ud).

" 31

Up	iP		23 45 58.2
Um	iP		23 46 06.8
Ud	iP		23 46 15.5
De	eP		23 46 04

Iran (h = 25 km).

" 31

Up	iP		23 55 22.3
			micr sec
	P	Z'	0.4 1.5
Ki	iP		23 55 18.7
			micr sec
	P	Z'	0.2 1.6
Sk	iP		23 54 50.2

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Mar. 31 (cont.)
Um iP 23 55 22.1
Ud iP 23 55 03.3
North Atlantic Ocean
(h = 40 km).
m = 5.6 (Up,Ki).

Ota Kulhánek
Daniel Lindström
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December 28, 1977

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

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BOX 517
751 20 UPPSALA 1

S E I S M O L O G I C A L B U L L E T I N

U P P S A L A, K I R U N A, S K A L S T U G A N, U M E Å, U D D E H O L M and D E L A R Y

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

A P R I L 1 - 30, 1976

1976 Apr.	1	Ki	iP		03 49 26.0	
		Um	iP		03 49 32.0	
		Ud	iP		03 49 52.5	
			i		03 49 56.7	
		Mindanao (h = 90 km).				
"	1	Up	iP		04 39 19.9	
					micr sec	
			P	Z'	0.1 0.9	
		Ki	iP		04 38 47.0	
					micr sec	
			P	Z'	0.1 0.7	
		Sk	iP		04 39 25.8	
		Um	iP		04 38 57.1	
		Ud	iP		04 39 32.7	
			i		04 39 35.6	
		De	iP		04 39 47.2	
		USSR-Mongolia (h = N).				
		m = 5.7 (Up,Ki).				
"	1	Ud	i(P)		05 11 44.9	
"	1	Ud	iP		05 42 20.6	
"	1	Um	iPKP		06 37 31.3	
		Ud	i(PKP)		06 37 34.5	
		Tonga Islands (h = N).				
"	1	Ud	iP		08 01 50.8	
		Afghanistan-USSR (h = 230 km).				
"	1	Ud	i(P)		19 32 14.0	
"	1	Up	iP		19 33 30.1	
		Ki	iP		19 33 34.0	
					micr sec	
			P	Z'	0.1 1.3	
		(cont.)				
1976 Apr.	1	(cont.)				
		Sk	iP		19 33 17.7	
			ipP		19 33 59.2	
		Um	iP		19 33 34.4	
			ipP		19 34 16.8	
		Ud	iP		19 33 20.0	
			ipP		19 34 02.7	
		De	iP		19 33 21.2	
		Colombia.				
		h = 170 km (Sk,Um,Ud).				
"	1	Up	iPKP		21 22 53.4	
		Ki	iPKP		21 22 40.2	
		Sk	iPKP		21 22 50.8	
		Um	iPKP		21 22 46.1	C
			i		21 23 03.1	
		Ud	iPKP		21 22 56.2	
		De	iPKP		21 23 01.4	
		Santa Cruz Islands (h = 80 km).				
"	2	Um	iP		01 49 40.1	
		Ud	iP		01 49 39.9	
"	2	Ud	iPKPl		04 46 29.4	
		De	iPKPl		04 46 41.1	
"	2	Um	iP		05 36 05.8	
		Ud	iP		05 36 37.5	
		Kurile Islands (h = N).				
"	2	Up	iP		08 44 20.2	
			i		08 44 27.9	
		Sk	iP		08 44 04.1	
			i		08 44 13.8	
		Um	iP		08 44 22.5	
		Ud	iP		08 44 09.4	
		De	iP		08 44 16.4	
		South of Panama (h = N).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Apr.	2	Ud	i(P)		09 02 21.2	
"	2	Up	iPKPl		10 43 31.5	
		Ki	iPKP		10 43 15.5	
		Sk	iPKPl		10 43 25.0	
		Um	iPKPl		10 43 19.6	
			i		10 43 24.0	
		Ud	iPKPl		10 43 33.3	
			iPKP2		10 43 39.3	
			i		10 43 50.3	
		De	iPKPl		10 43 41.4	
			i		10 43 46.2	
			i		10 43 55.4	
		Kermadec Islands (h = 30 km).				
"	2	Up	iP		13 02 20.5	
"	2	Ud	iSgl		13 30 04.8	
			iRg		13 30 12.2	
		De	iSgl		13 30 29.6	
		Regional near-surface event.				
"	2	Up	iP		14 18 38.3	
"	2	Up	i(Sgl)		15 09 50.2	
		Ud	i(Sgl)		15 10 26.8	
		De	i		15 09 01.2	
			i(Sgl)		15 09 04.0	
"	2	Up	iPKPl		16 09 40.4	
			iPKP2		16 09 45.3	
					micr sec	
			PKPl	Z'	0.1 1.0	
			PKP2	Z'	0.1 0.8	
		Ki	iPKP		16 09 24.1	
		Sk	iPKPl		16 09 34.3	
		Um	iPKPl		16 09 28.8	C
		Ud	iPKPl		16 09 42.6	C
		De	iPKPl		16 09 50.6	
		Kermadec Islands (h = N).				
"	2	Ud	iP		16 37 04.5	
"	2	Um	iP		16 58 02.7	
"	2	Up	iP		17 03 35.6	
			ipP		17 03 45.9	
			iS		17 08 23	
					micr sec	
			pP	Z'	0.1 1.1	
			Mx	E	3.6 19	
			Mx	N	5.1 19	
			Mx	Z	2.1 16	
		Ki	iP		17 04 20.3	
			i		17 04 23.1	
		(cont.)				

1976 Apr.	2	(cont.)				
		Ki			micr sec	
			P	Z'	0.1 0.6	
			Mx	E	2.9 12	
			Mx	N	1.6 14	
			Mx	Z	2.4 12	
		Um	iP		17 03 52.9	
			i		17 04 14.4	
			iS		17 08 50	
		Ud	iP		17 03 51.4	
			ipP		17 04 02.3	
		De	iP		17 03 35.7	
		Turkey.				
		h = 40 km (Up,Ud).				
		m = 5.5, M = 5.2 (Up,Ki).				
"	2	Up	iP		17 19 27.9	C
			ipP		17 19 38.2	
			iPP		17 22 14.1	
					micr sec	
			P	Z'	0.1 1.0	
			pP	Z'	0.2 1.1	
			Mx	E	1.1 15	
			Mx	N	1.2 17	
			Mx	Z	1.3 16	
		Ki	iP		17 18 49.1	
			ipP		17 18 59.1	
			iPP		17 21 17.1	
					micr sec	
			P	Z'	0.2 1.0	
			Mx	E	1.4 17	
			Mx	N	1.3 17	
			Mx	Z	2.1 17	
		Sk	iP		17 19 21.4	
			ipP		17 19 33.1	
			iPP		17 22 02.3	
		Um	iP		17 19 05.5	C
			i		17 19 06.1	
			ipP		17 19 16.5	
			iPP		17 21 33.3	
		Ud	iP		17 19 35.0	C
			ipP		17 19 45.6	
		De	iP		17 19 49.2	
			ipP		17 19 59.5	
		Japan.				
		h = 35 km (Up,Ki,Sk,Um,Ud,De).				
		m = 6.0, M = 5.4 (Up,Ki).				
"	2	Up	iP		17 57 39.3	
			iPP		17 58 03.6	
			iSn		18 02 03.8	
		Ki	iP		17 58 17.9	
		Sk	i		17 58 32.2	
		Um	iP		17 57 51.9	C
			iPP		17 58 21.2	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 2 (cont.)

Um	iSn	18 02 35.8		
	iLg2	18 06 19.8		
Ud	iP	17 57 55.5		
De	iP	17 57 42.4		

Caucasus (h = N).

" 2	Up	iPKP	20 51 56.7	
	Ki	iPKP	20 52 11.8	
	Sk	iPKP	20 52 02.2	
	Um	iPKP	20 52 04.8	C
	Ud	iPKP	20 51 55.2	

Sandwich Islands (h = N).

" 2	Up	i(P)	21 01 31.1	
		i	21 01 55.1	
	Ud	i(P)	21 01 57.8	
	De	i(P)	21 02 09.8	
" 2	Um	iP	22 50 00.2	
" 2	Um	iP	22 50 46.1	
" 2	Up	iP	23 03 23.1	
	Ki	iP	23 02 28.5	
	Um	iP	23 02 55.7	
		ipP	23 03 08.3	
	Ud	iP	23 03 21.5	

Aleutian Islands (h = 35 km).

" 2	Ki	iP	23 28 30.6	
		iS	23 30 15.8	
		i	23 30 40.8	
	Um	i	23 32 11.5	

South Svalbard,
77.5°N, 21.3°E.
Origin time = 23 26 15.
By combination with Finnish station readings.

" 2	Um	iSKPl	23 38 15.1	

Loyalty Islands (h = 150 km).

" 3	Um	iP	00 28 35.2	
	Ud	iP	00 29 00.6	

Aleutian Islands (h = N).

" 3	Up	iP	00 31 26.5	
	Ki	iP	00 30 35.1	
	Um	iP	00 31 01.8	
	Ud	iP	00 31 27.5	

Aleutian Islands (h = N).

" 3	Up	iP	00 37 53.2	
		ipP	00 38 04.4	
			micr sec	
		pP	Z' 0.2 1.5	

(cont.)

1976
Apr. 3 (cont.)

Ki	iP	00 36 59.7		
	ipP	00 37 11.1		
		micr sec		
	pP	Z' 0.1 1.2		
Sk	iP	00 37 30.2		
	ipP	00 37 41.0		
Um	iP	00 37 26.6	C	
	i	00 37 35.5		
	ipP	00 37 38.2		
Ud	iP	00 37 52.7		
	i	00 38 01.9		
	ipP	00 38 04.0		
De	iP	00 38 15.1		
	ipP	00 38 25.5		

Aleutian Islands.
h = 40 km (Up,Ki,Sk,Um,Ud,De).
m = 5.9 (Up,Ki).

" 3	Ki	iP	00 43 47.1	
	Um	iP	00 44 13.7	
	Ud	iP	00 44 39.3	

Same location as the event 00 37 this day.
Origin time = 00 33 42.

" 3	Ki	iP	01 06 14.7	
	Um	iP	01 06 41.4	
	Ud	iP	01 07 07.6	

Aleutian Islands (h = N).

" 3	Ki	iP	03 06 46.7	
	Um	iP	03 07 12.3	
	Ud	iP	03 07 40.0	

Same location as the event 00 37 this day.
Origin time = 02 56 41.

" 3	Um	iP	04 03 19.8	

Mexico (h = N).

" 3	Um	iP	04 42 32.9	
	Ud	iP	04 41 56.8	
" 3	Um	iP	09 03 25.2	
" 3	Ki	iP	10 59 28.0	
	Um	iP	10 59 59.6	
	Ud	iP	11 00 26.0	

Same location as the event 00 37 this day.
Origin time = 10 49 28.

" 3	Ud	i(P)	11 14 57.6	
" 3	Ud	iP	12 28 58.3	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Apr.	3	Up	iPKP	12 54 04.0
			iPKP2	12 54 10.0
		Sk	iPKP	12 53 59.2
		Um	iPKP1	12 53 53.6
		Ud	iPKP	12 54 06.7
			iPKP1	12 54 10.6
		De	iPKP1	12 54 15.6

Kermadec Islands (h = N).

"	3	Ud	iP	14 27 10.0
"	3	Ud	iP	18 19 00.5
"	3	Up	iP	19 25 14.3 C
				micr sec
			P Z'	0.1 0.9
		Um	iP	19 24 48.9
		Ud	iP	19 25 19.5
			i	19 25 42.8
		De	iP	19 25 38.1

Kurile Islands (h = N).

"	3	Ud	iP	20 21 00.5
"	3	Up	iP	20 42 45.6
		Um	iP	20 42 30.1
		Ud	iP	20 42 38.7
"	3	Ud	iP	21 00 39.8
"	3	Ki	iSgl	21 40 12.1
		Um	iSgl	21 41 50.1

Sweden-Finland,
68.0°N, 23.5°E.
Origin time = 21 39 34.
M_L = 2.0 (Ki).
By combination with Finnish station readings.

"	3	Um	iP	21 55 16.2

Central America (h = N).

"	3	Ud	iP	21 56 18.1
"	3	Um	iP	23 32 14.5
		Ud	iP	23 32 35.6
"	4	Ud	iP	00 12 42.9
"	4	Ud	iP	00 45 58.6
"	4	Up	iP	01 40 58.7
		Ki	iP	01 40 04.6
		Um	iP	01 40 31.5
		Ud	iP	01 40 57.8

Aleutian Islands (h = 35 km).

1976				
Apr.	4	Up	iP	02 42 47.5
		Ki	iP	02 41 54.6
		Sk	iP	02 42 23.9
		Um	iP	02 42 21.2 C
			i	02 42 33.7
		Ud	iP	02 42 47.2

Aleutian Islands (h = 20 km).

"	4	Up	iP	02 47 12.8
		Ki	iP	02 46 19.5
		Um	iP	02 46 45.1 D
		Ud	i(P)	02 47 02.1
			i	02 47 11.8

Aleutian Islands (h = 15 km).

"	4	Up	iP	07 08 05.4
			iS	07 11 17.0
		Ki	iP	07 06 54.1
		Sk	iP	07 07 00.6
			iS	07 08 59.0
		Um	iP	07 07 28.8
			iS	07 09 47.5
			i	07 10 20.5
		Ud	iP	07 07 43.0
			iS	07 10 43.7

Jan Mayen (h = N).

"	4	Up	iPKP1	07 47 05.3
		Um	iPKP	07 47 02.5
		Ud	iPKP1	07 47 06.3
		De	iPKP1	07 47 17.5

Fiji Islands (h = 590 km).

"	4	Um	iP	08 18 36.9
"	4	Um	iP	11 17 27.4
			i	11 17 37.7
"	4	Up	iPKP1	15 58 38.1
		Um	iSKP1	16 01 13.3
		Ud	iPKP1	15 58 37.4
		De	iPKP1	15 58 48.3
			iSKP1	16 01 36.9

Fiji Islands (h = 600 km).

"	4	De	iPKP1	18 00 32.4

Tonga Islands (h = 55 km).

"	4	Up	iP	18 07 55.1
			i	18 08 00.3
		Sk	iP	18 07 38.0
			i	18 07 43.0
		Um	iP	18 07 54.3
			i	18 07 59.3
		Ud	iP	18 07 45.8

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 4 (cont.)
Ud i 18 07 51.0
Honduras (h = 45 km).
Double P, in average 5.1 sec apart.

" 4 Up eP 19 42 40

" 4 Up iP 19 58 20.9

" 4 Ud iPKP1 20 40 50.8
De iPKP1 20 41 00.2

" 4 Up iP 21 26 53.1
Ki iP 21 26 11.7
Um iP 21 26 30.0
Ud iP 21 27 00.5
De eP 21 27 17
Japan (h = 30 km).

" 4 Ud iP 22 32 01.5
Crete (h = N).

" 4 Up iP 22 38 46.1
i 22 38 53.8
Ki iP 22 38 42.0
Sk iP 22 39 04.7 C
Um iP 22 38 41.0
Ud iP 22 39 03.2
De iP 22 39 06.5
Burma (h = 40 km).

" 4 Up iP 22 48 32.6 D
iPcP 22 49 03.3
micr sec
P Z' 0.1 0.9
Ki iP 22 47 44.2 D
Sk iP 22 48 20.7
Um iP 22 48 06.2
iPcP 22 48 47.4
Ud iP 22 48 38.1
iPcP 22 49 07.2
De iP 22 48 57.2
Kurile Islands (h = 330 km).

" 4 Ud iPKP1 23 29 31.0
De iPKP 23 29 41.5
Fiji Islands (h = 640 km).

" 5 Ki iPKP2 00 56 04.9
Ud iPKP2 00 56 14.5
Balleny Islands (h = N).

" 5 Ud iPKP1 02 36 01.5
De iPKP1 02 36 12.1

1976
Apr. 5 Um iP 03 39 44.1

" 5 Up iPKP1 04 14 02.0
Ud iPKP1 04 14 04.9
De iPKP1 04 14 15.7

" 5 Up iP 04 25 05.5

" 5 Um iP 08 40 27.4
Ud iP 08 40 54.2
i 08 41 08.9

" 5 Ki iP 16 29 19.0
Um iP 16 28 55.1
Ud iP 16 28 55.5
Iran (h = 60 km).

" 5 Up iP 17 04 34.2
i 17 04 37.7
i 17 05 01.8
iS 17 12 43
micr sec
P Z' 0.5 2.0
Mx E 8.0 19
Mx N 19 17
Mx Z 12 14
Ki iP 17 04 04.7
i 17 04 07.8
micr sec
P Z' 0.2 1.5
i Z' 0.6 2.0
Mx E 4.2 13
Mx N 5.2 13
Mx Z 2.9 13
Sk iP 17 04 38.1
i 17 04 41.5
Um iP 17 04 15.2
i 17 04 18.4
i 17 04 34.0
iS 17 12 04
Ud iP 17 04 45.4
i 17 04 49.0
De iP 17 04 58.6
i 17 05 34.6
China (h = 25 km).
m = 6.1, M = 6.1 (Up,Ki).
Double P (Up,Ki,Sk,Um,Ud), smaller and larger, average separation 3.4 sec. The second onset, when interpreted as pP, gives a focal depth of 10 km.

" 5 Ud i(P) 20 10 47.2

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Apr.	5	Up	iP	21 34 06.5	
		Ki	iP	21 34 02.1	C
		Sk	iP	21 34 22.0	
		Um	iP	21 34 00.9	
		Ud	iP	21 34 21.4	
		Burma (h = 45 km).			
"	6	Ud	i(P)	03 44 11.3	
"	6	Um	iP	06 49 31.7	
"	6	Up	iP	09 13 29.8	
			ipP	09 13 53.4	
		Sk	iP	09 14 10.3	C
		Um	iP	09 14 12.9	
		Ud	iP	09 13 36.6	C
		Italy (h = 140 km).			
"	6	Up	iP	09 21 03.7	
		Ki	iP	09 20 30.9	
		Sk	iP	09 21 00.0	
		Um	iP	09 20 44.8	C
			i	09 21 11.7	
		Ud	iP	09 21 10.6	C
		Japan (h = 420 km).			
"	6	Up		micr	sec
			Mx E	4.1	21
			Mx N	5.3	21
			Mx Z	9.5	19
		Ki		micr	sec
			Mx E	7.4	23
			Mx N	7.3	22
			Mx Z	5.8	22
		Um	iPP	14 08 26.6	
		New Ireland (h = 20 km).			
		M = 6.3 (Up,Ki).			
"	6	Up	eP	14 44 05	
			i	14 44 07.5	
				micr	sec
			P Z'	0.1	1.1
		Ki	iP	14 43 13.4	
		Um	iP	14 43 40.2	
		Ud	iP	14 44 06.5	
		De	eP	14 44 30	
		Aleutian Islands (h = 60 km).			
"	6	Ud	iP	18 28 20.0	
"	7	Ki	iP	04 16 38.8	C
		Um	iP	04 17 06.7	
"	7	Up	iPKPl	06 04 36.3	
				micr	sec
			PKPl Z'	0.1	1.2
		(cont.)			

1976					
Apr.	7	(cont.)			
		Sk	iPKPl	06 04 28.8	
		Um	iPKPl	06 04 23.5	
		Ud	iPKPl	06 04 35.0	
		De	iPKPl	06 04 44.4	
"	7	Up	iP	07 22 59.9	
			ipP	07 23 59.7	
		Ki	iP	07 22 29.0	
			ipP	07 23 27.8	
				micr	sec
			pP Z'	0.1	1.0
		Sk	iP	07 22 56.5	
		Um	iP	07 22 42.5	
			i	07 22 54.8	
			ipP	07 23 41.7	
		Ud	iP	07 23 06.5	
			i	07 24 12.7	
		De	ipP	07 24 15.8	
		Mariana Islands.			
		h = 250 km (Up,Ki,Um).			
"	7	Ud	iP	08 49 03.0	
"	7	Up	iPKPl	11 54 25.9	
			iPKP2	11 54 31.1	
		Ud	iPKPl	11 54 25.8	
		De	iPKPl	11 54 37.4	
			iPKP2	11 54 49.4	
"	7	De	iPKPl	12 25 41.2	
		Tonga Islands (h = N).			
"	7	Ud	iP	14 38 46.1	
"	7	Up	iPKP	16 41 29.6	
		Ki	iPKP	16 41 15.9	
		Sk	iPKP	16 41 26.8	
		Um	iPKP	16 41 22.0	C
			ipPKP	16 42 09.9	
		Ud	iPKP	16 41 32.6	
		De	iPKP	16 41 36.3	
		New Hebrides Islands (h = 180 km).			
"	7	Up	iPKP	16 47 08.1	
		Ud	iPKP	16 47 10.0	
"	7	Ud	iP	23 04 51.3	
"	8	Ki	iP	02 39 06.4	
		Um	iP	02 39 12.7	
		Ud	iP	02 39 33.6	
"	8	Up	iP	02 47 11.9	
			i	02 47 13.1	
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 8 (cont.)

Up	iS		02 52 35	
			micr	sec
	P	Z'	2.2	1.1
	Mx	E	250	17
	Mx	N	397	20
	Mx	Z	237	20
Ki	iP		02 47 26.5	
	i		02 47 27.7	
	iS		02 53 06	
			micr	sec
	P	Z'	2.3	1.4
	Mx	E	314	19
	Mx	N	115	16
	Mx	Z	125	12
Sk	iP		02 47 40.8	
	i		02 47 42.0	
Um	iP		02 47 12.8	
	i		02 47 13.8	
	iS		02 52 35	
Ud	iP		02 47 30.0	
	i		02 47 30.7	
De	iP		02 47 24.4	
	i		02 47 25.2	

Uzbek SSR (h = N).
m = 7.0, M = 7.2 (Up,Ki).
Double P, small and large, in average 1 sec apart.

" 8 Ud iP 03 37 52.5
Uzbek SSR (h = N).

" 8 Ud iP 04 53 10.7
De iP 04 53 05.9
Uzbek SSR (h = N).

" 8 Up iP 05 05 39.8
Ki iP 05 05 52.6
Um i(P) 05 05 33.7
Ud iP 05 05 57.0
De iP 05 05 51.8
Uzbek SSR (h = N).

" 8 Ud iP 05 24 47.6

" 8 Um iP 06 23 40.9
Ud iP 06 23 54.6
De iP 06 23 48.9
Uzbek SSR (h = N).

" 8 Um iP 07 56 02.2

" 8 Ud iP 09 17 03.3
i 09 17 14.7
Uzbek SSR (h = N).

1976
Apr. 8 Um iP 10 16 27.0

" 8 Ud iP 10 55 38.3
Java Sea (h = 500 km).

" 8 Up iP 12 10 29.5
iPP 12 11 45.2

			micr	sec
	P	Z'	0.1	1.0
Ki	iP		12 10 43.8	
	iPP		12 11 46.9	
Sk	iP		12 10 58.0	
	i		12 10 59.2	
	i		12 12 24.0	
Um	iP		12 10 31.1	
	iPP		12 11 34.9	
Ud	iP		12 10 45.9	
	i		12 10 48.4	
De	iP		12 10 41.5	

Uzbek SSR (h = N).

" 8 Up i(P) 14 11 00.2

" 8 Ud iP 15 33 36.0
California (h = 15 km).

" 8 Ud iPKP 15 57 58.5
De iPKPl 15 58 07.7
Tonga-Kermadec Islands (h = 250 km).

" 9 Ud iP 02 52 20.5
De iP 02 52 37.9

" 9 Up iP 02 53 08.9
Um iP 02 53 05.2
Ud iP 02 53 27.2
De iP 02 53 21.8
Uzbek SSR (h = N).

" 9 Up iP 04 01 25.9
Um iP 04 01 06.9
Ud iP 04 01 18.5
California (h = 25 km).

" 9 Um iP 05 32 21.4
Ud iP 05 32 20.7 C

" 9 Up ipP 07 22 05.9
iPP 07 25 54.6
iSKS 07 32 33
iS 07 33 05

			micr	sec
	pP	Z'	0.5	2.0

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 9 (cont.)

Up			micr	sec
	Mx	E	8.1	22
	Mx	N	5.4	20
	Mx	Z	12	20
Ki	ipP		07 22 07.0	
	iPP		07 25 48.2	
	iSKS		07 25 39	
			micr	sec
	pP	Z'	0.5	1.8
	Mx	E	9.0	17
	Mx	N	11	20
	Mx	Z	13	19
Sk	iP		07 21 52.3	
	ipP		07 21 54.8	
	iPP		07 25 23.1	
Um	iP		07 22 06.1	
	ipP		07 22 09.3	
	iPP		07 25 51.2	
	iSKS		07 32 44	
	iS		07 33 13	
Ud	iP		07 21 53.4	
	ipP		07 21 57.0	
	i		07 25 08.9	
	iPP		07 25 31.5	
De	iP		07 21 55.2	
	ipP		07 21 59.7	
	i		07 25 07.0	
	iPP		07 25 35.5	

Ecuador.
h = 10 km (Sk,Um,Ud,De).
m = 6.6, M = 6.3 (Up,Ki).
Late arrivals compared to NEIS solution.

" 9 Up iP 10 35 08.4
i 10 35 11.1
Ki iP 10 34 46.5
Sk iP 10 35 13.3
Um iP 10 34 55.6 C
i 10 34 58.1
Ud iP 10 35 18.1
De iP 10 35 26.8
Luzon (h = 190 km).

" 9 Ki iSgl 11 21 25.9
Um iSgl 11 20 22.4
Gulf of Bothnia,
64.8°N, 22.5°E.
Origin time = 11 19 38.
M_L = 1.8 (Um).
Solution from Helsinki regional bulletin.

" 9 Up iP 11 48 53.7
(cont.)

1976
Apr. 9 (cont.)

Ki	iP	11 48 39.8
Um	iP	11 48 42.7
	ipP	11 49 07.3
Ud	iP	11 48 57.4
	ipP	11 49 21.2
De	iP	11 49 04.6
	ipP	11 49 27.2

Celebes.
h = 90 km (Um,Ud,De).

" 9 Up iPKPl 19 21 59.9
i 19 22 08.3
i 19 22 21.4
micr sec
PKPl Z' 0.2 1.5
Ki iPKPl 19 21 36.1
i 19 21 48.0
i 19 22 05.5
Sk iPKPl 19 21 55.7
Um iPKPl 19 21 48.5 C
i 19 21 55.7
Ud iPKPl 19 22 00.2
iPKP2 19 22 11.0
South of Kermadec Islands
(h = 20 km).

" 9 Ud iP 20 26 41.2

" 9 Um iP 23 28 40.4
ipP 23 28 50.1
Ud iP 23 29 10.6
ipP 23 29 20.1
Japan.
h = 35 km (Um,Ud).

" 10 Up iP 00 52 26.8
micr sec
Mx E 1.1 19
Ki
micr sec
Mx E 1.5 18
Mx N 1.9 17
Um iP 00 52 03.3
Ud iP 00 52 32.6
Japan (h = 15 km).
M = 5.3 (Up,Ki).

" 10 Ud iP 00 59 21.7

" 10 Um iP 01 31 41.3
Ud iP 01 32 01.8
Molucca Passage (h = 40 km).

" 10 Up iP 01 53 00.3
Ki iP 01 52 19.0
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 10 (cont.)

Ki			micr	sec
	P	Z'	0.1	1.0
Um	iP		01 52 38.0	
Ud	iP		01 53 07.6	C
	ipP		01 53 16.5	
De	eP		01 53 24	
	ipP		01 53 32.2	

Japan.
h = 30 km (Ud,De).

" 10	Up	iPKPl	02 34 12.9	
	Ud	iPKPl	02 34 11.8	
		i	02 34 33.4	
	De	iPKPl	02 34 23.6	
" 10	Ud	iP	03 33 10.2	
" 10	Um	iPKP	04 43 35.0	

Solomon Islands (h = 55 km).

" 10	Ki	iP	07 17 49.9	D
	Ud	iP	07 18 00.1	

Kashmir-India (h = 50 km).

" 10	Up	iP	07 36 57.4	
	Um	iP	07 36 33.3	
	Ud	iP	07 37 03.3	
	De	iP	07 37 20.9	

Japan (h = 30 km).

" 10	Up	iP	11 37 58.3	
		ipP	11 38 07.6	
			micr sec	
		P Z'	0.1 1.0	
	Ki	iP	11 37 16.3	
	Um	iP	11 37 33.2	
		ipP	11 37 43.5	
	Ud	iP	11 38 05.2	C
		ipP	11 38 13.7	
	De	iP	11 38 20.9	C
		ipP	11 38 29.5	

Japan.
h = 30 km (Up,Um,Ud,De).

" 10	Um	iPKPl	13 13 29.8	
	Ud	iPKPl	13 13 40.6	
" 10	Um	iP	15 00 49.8	
		i	15 01 03.7	

Japan (h = 25 km).

" 10	Um	iPKPl	15 11 35.2	
	Ud	iPKPl	15 11 47.0	
" 10	Um	iPKPl	15 25 25.6	
	Ud	iPKPl	15 25 38.1	

1976
Apr. 10

Up	i(PKP)		17 30 15.7	
	i		17 30 21.3	
	iPKP		17 30 26.0	
	iSKPl		17 33 07.0	
	i		17 34 00.1	
	i		17 42 42.5	
			micr sec	
	PKP	Z'	0.1 1.0	
Ki	i(PKP)		17 30 00.3	
	iPKP		17 30 12.4	
	iSKPl		17 32 42.2	
	i		17 43 09.1	
			micr sec	
	PKP	Z'	0.4 1.4	
Sk	i(PKP)		17 30 12.5	
	iPKP		17 30 21.1	
	iSKPl		17 32 59.9	
Um	i(PKP)		17 30 04.6	
	iPKP		17 30 19.7	
	ipPKP		17 32 33.6	
	iSKPl		17 32 55.7	
	i		17 42 20.7	
	i		17 42 52.5	
Ud	i(PKP)		17 30 15.9	
	i		17 30 18.2	
	iPKP		17 30 26.9	
	iSKPl		17 33 10.4	
	i		17 42 04.6	
	i		17 42 33.8	
De	i(PKP)		17 30 27.9	
	iSKPl		17 33 19.7	

Fiji Islands (h = 560 km).

" 10	Up	iPKPl	22 16 37.1	
	Um	iPKPl	22 16 24.5	
	Ud	iPKPl	22 16 38.9	
	De	iPKPl	22 16 47.4	D
" 10	Ud	iP	23 33 30.6	
" 10	Ud	iP	23 36 16.1	
" 11	Up	iP	03 03 54.2	C
			micr sec	
		P Z'	0.1 0.7	
	Ki	iP	03 03 10.2	C
	Sk	iP	03 03 42.8	
	Um	iP	03 03 28.8	
	Ud	iP	03 04 00.6	C
	De	iP	03 04 17.7	

Kurile Islands (h = 100 km).

" 11	Ud	iPKPl	06 24 48.9	
	De	iPKPl	06 24 59.0	

Fiji Islands (h = 550 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Apr.	11	Ud	iP		08 12 05.2
"	11	Up	iP		13 11 29.1
		Ki	iP		13 10 50.4
		Sk	iP		13 11 24.8
		Um	iP		13 11 06.8 D
			i		13 11 32.8
		Ud	iP		13 11 37.3
		De	eP		13 11 52
		China-USSR (h = 550 km).			
"	11	Up	iP		13 13 17.4 D
			i		13 15 09.4
			iPP		13 15 46.4
					micr sec
			P	Z'	0.1 0.9
		Ki	iP		13 12 38.9 D
			ipP		13 14 26.6
					micr sec
			P	Z'	0.1 1.0
		Sk	iP		13 13 13.3 D
			ipP		13 15 04.4
		Um	iP		13 12 55.0 D
			i		13 13 20.6
			ipP		13 14 44.8
		Ud	iP		13 13 25.8 D
			i		13 13 52.4
		De	iP		13 13 40.7 D
		China-USSR.			
		h = 570 km (Ki,Sk,Um)			
		m = 5.2 (Up,Ki).			
"	11	Up	iP		16 25 41.3
		Ud	iP		16 25 49.3
"	11	Ud	iP		18 55 24.7
		Afghanistan-USSR (h = 20 km).			
"	11	Up	iP		20 22 01.6
		Ud	iP		20 22 16.2 C
"	11	Ud	iP		21 05 40.7
		Afghanistan-USSR (h = 270 km).			
"	11	Ud	iP		23 23 46.9
		Mariana Islands (h = N).			
"	12	Up	iP		04 28 07.6
		Um	iP		04 27 40.8
		Ud	iP		04 28 12.9
		De	eP		04 28 32
		Kurile Islands (h = 130 km).			
"	12	Up	iP		04 52 46.6 C
		Ki	iP		04 51 53.8 C
		(cont.)			

1976					
Apr.	12	(cont.)			
		Um	iP		04 52 20.0
		Ud	iP		04 52 46.3
		De	iP		04 53 08.4
		Aleutian Islands (h = 40 km).			
"	12	Up	iP		05 42 24.7
		Ki	iP		05 41 55.9
			i		05 42 05.1
					micr sec
			P	Z'	0.1 1.1
		Um	iP		05 42 07.9 D
			i		05 42 17.8
		Mariana Islands.			
		h = 30 km (Ki,Um).			
"	12	Um	iP		06 23 22.0
"	12	Up	iP		08 47 09.1
		Ud	iP		08 47 08.5
			i		08 47 24.6
		Aleutian Islands (h = 45 km).			
"	12	Ud	iP		11 03 42.3
"	12	De	iP		15 11 57.9
"	12	Ud	i(P)		16 43 31.2
"	12	Up	iPKP1		18 39 56.5
		Ud	iPKP1		18 39 57.7
		De	iPKP1		18 40 07.1
"	12	Ud	iPKP1		23 01 54.3
		De	iPKP1		23 02 04.6
"	12	Up	iPKP1		23 09 22.8
			iPKP2		23 09 29.6
			ipPKP1		23 10 10.1
					micr sec
			PKP1	Z'	0.1 1.0
		Ki	iPKP		23 09 06.7
		Sk	iPKP1		23 09 18.5
			ipPKP1		23 10 06.4
		Um	iPKP1		23 09 11.7
			ipPKP1		23 09 55.5
		Ud	iPKP1		23 09 24.5
			iPKP2		23 09 33.8
		De	iPKP1		23 09 32.3
			iPKP2		23 09 47.4
		South of Kermadec Islands.			
		h = 180 km (Up,Sk,Um).			
"	13	Up	iPKP1		06 20 37.0
			iPKP2		06 20 41.9
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 13 (cont.)

Sk	iPKPl	06 20 29.9	
Um	iPKPl	06 20 24.8	C
Ud	iPKPl	06 20 38.6	C
De	iPKPl	06 20 47.3	C

Kermadec Islands (h = 55 km).

" 13

Up	ePKPl	06 29 19	
Um	iPKPl	06 29 06.9	
Ud	iPKPl	06 29 19.8	
De	iPKPl	06 29 29.1	C

" 13

Up	iP	07 37 04.4	
Ki	iP	07 36 16.1	
Sk	iP	07 36 52.7	
Um	iP	07 36 38.7	
Ud	iP	07 37 10.1	C
De	iP	07 37 28.8	C

Kurile Islands (h = 90 km).

" 13

Up	iPKPl	11 04 06.4	
Sk	iPKPl	11 03 59.2	
Um	iPKPl	11 03 54.0	C
Ud	iPKPl	11 04 08.1	C
De	iPKPl	11 04 16.7	
	i	11 04 30.9	

Kermadec Islands (h = N).

" 13

Ud	iP	13 41 50.1	

Molucca Passage (h = 15 km).

" 13

Up	i(P)	14 29 17.0	

" 13

Ud	i(P)	18 32 15.2	

" 13

Up	iRg	19 11 47.9	
Ud	iRg	19 11 35.2	

Central Sweden.
Near-surface event.

" 13

Up	iP		20 30 37.3	
Ki			micr	sec
	Mx	E	0.7	16
	Mx	N	0.7	16
	Mx	Z	0.9	16
Sk	iP		20 30 20.4	
Um	iP		20 30 33.7	
De	iP		20 30 43.9	

Mexico (h = N).

" 13

Ki	iPn	21 15 46.2	
	i	21 15 50.8	
	iSn	21 17 04.6	
	i(TPg)	21 21 04.4	
	iTPg	21 21 23.4	

(cont.)

1976
Apr. 13 (cont.)

Sk	iP	21 16 31.2	
Um	iP	21 16 37.3	
	i	21 16 39.2	
	i	21 16 45.4	
Ud	iP	21 17 15.7	
	i	21 17 28.1	
De	iP	21 18 09.3	

Greenland Sea (h = N).

" 13

Um	iP	22 08 01.1	
Ud	i	22 08 07.4	
De	iP	22 07 46.3	

Iran (h = 60 km).

" 13

Up	iP		00 00 39.3	
			micr	sec
	P	Z'	0.1	0.9
Ki	iP		23 59 57.0	
	i		23 59 59.4	
			micr	sec
	P	Z'	0.1	0.6
Sk	iP		00 00 32.3	
Um	iP		00 00 15.6	
	i		00 00 18.2	
Ud	iP		00 00 47.0	
	i		00 00 49.1	
De	iP		00 01 03.0	

Japan (h = 100 km).
m = 5.8 (Up,Ki).
Double P (Ki,Um,Ud), in average 2.4 sec apart.

" 14

Ki	iPKP	01 04 23.3	
Um	iPKP	01 04 30.9	
Ud	i(PKP)	01 04 36.1	
	iPKP	01 04 39.4	
De	i(PKP)	01 04 37.2	

Fiji Islands (h = 370 km).

" 14

Up	iP	01 34 25.4	
Ki	iP	01 34 04.8	
Sk	iP	01 34 32.7	
Um	iP	01 34 12.2	C
Ud	iP	01 34 34.7	
De	iP	01 34 43.0	

Philippine Islands (h = 180 km).

" 14

Up	iP	02 33 01.1	

" 14

Ud	iP	07 07 59.3	
De	iP	07 08 17.0	

California-Mexico (h = 15 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976

Apr.	14	Up	iP		07 08 27.6	C
			ipP		07 08 37.9	
					micr	sec
			P	Z'	0.1	1.1
		Ki	iP		07 07 54.6	
			ipP		07 08 04.4	
		Um	iP		07 08 09.3	
			ipP		07 08 19.1	
		Ud	iP		07 08 36.7	
			ipP		07 08 45.9	
		Japan.				
		h = 35 km (Up,Ki,Um,Ud).				
"	14	Ud	iP		07 17 18.3	
"	14	Up	iP		07 30 55.1	
		Ud	iP		07 31 03.6	
		De	iP		07 30 45.8	
"	14	Ud	iP		07 34 54.1	
"	14	Ud	iPKP		07 54 23.4	
		Easter Island (h = N).				
"	14	Up	i(PKP)		08 18 44.1	
		Um	iPKPl		08 18 40.1	
			iPKP		08 18 45.7	
		Ud	iPKPl		08 18 48.1	C
		De	iPKPl		08 18 58.9	C
		Tonga-Kermadec Islands				
		(h = 580 km).				
"	14	Up	iP		14 12 34.1	
			i		14 12 36.8	
			iS		14 22 17	
					micr	sec
			P	Z'	0.1	1.3
			i	Z'	0.3	1.4
			Mx	E	1.4	15
			Mx	N	1.5	12
			Mx	Z	2.6	13
		Ki	iP		14 12 12.2	
					micr	sec
			P	Z'	0.1	1.4
			Mx	E	2.0	12
			Mx	N	2.2	13
			Mx	Z	2.2	13
		Sk	iP		14 12 37.4	
			i		14 12 52.6	
		Um	iP		14 12 18.7	
			iS		14 21 47	
		Ud	iP		14 12 43.7	C
		De	i(pP)		14 12 59.2	
		Formosa (h = N).				
		m = 5.7, M = 5.7 (Up,Ki).				

1976

Apr.	14	Up	iPKPl		15 45 57.1	
			ipPKPl		15 46 08.7	
					micr	sec
			PKPl	Z'	0.1	1.0
			pPKPl	Z'	0.1	1.0
			Mx	E	1.2	20
			Mx	N	1.3	24
			Mx	Z	3.3	24
		Ki	iPKPl		15 45 55.4	
			i		15 45 56.9	
					micr	sec
			PKPl	Z'	0.1	1.1
			Mx	N	1.8	20
			Mx	Z	1.4	20
		Sk	iPKPl		15 46 05.3	
			ipPKPl		15 46 16.2	
		Um	iPKPl		15 45 54.9	
			ipPKPl		15 46 06.8	
		Ud	iPKPl		15 46 02.8	
			iPKP2		15 46 09.9	
		De	iPKPl		15 46 00.9	
			iPKP2		15 46 05.5	
			ipPKP		15 46 10.8	
		South of Australia.				
		h = 35 km (Up,Sk,Um,De).				
		M = 5.8 (Up,Ki).				
"	14	Um	iP		17 22 44.3	
		Ud	iP		17 23 03.5	
"	14	Ud	i(P)		19 34 06.1	
		Uzbek SSR (h = 35 km).				
"	14	Up	iPKPl		20 00 41.5	
		Sk	iPKPl		20 00 34.3	C
			ipPKPl		20 00 49.4	
		Um	iPKPl		20 00 29.4	
		Ud	iPKPl		20 00 43.6	
			ipPKPl		20 00 58.6	
		De	iPKPl		20 00 52.1	
			ipPKPl		20 01 06.0	
		Kermadec Islands.				
		h = 50 km (Sk,Ud,De).				
"	15	Ki	iPn		03 52 47.8	
		Um	iP		03 53 40.4	
		Ud	iP		03 54 27.6	
			i		03 54 35.9	
		Greenland Sea (h = N).				
"	15	Ud	iP		06 07 01.1	
		Portugal (h = N).				
"	15	Ud	iP		06 22 23.8	
		Uzbek SSR (h = N).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Apr.	15	Up	iP	09 34 06.0 C
"	15	Ud	i(P)	11 32 56.8
"	15	Ud	iP	12 25 19.0 C
			i	12 25 23.6
		De	iP	12 24 44.7
"	15	Ud	iP	12 31 32.1
"	15	Up	iP	12 51 00.2
		Ki	iP	12 50 08.0
		Um	iP	12 50 33.1
		Ud	iP	12 51 04.9
		De	iP	12 51 25.4
"	15	Up	iP	12 51 49.5
		Ki	iP	12 50 56.0
		Um	iP	12 51 20.9
		Ud	iP	12 51 54.1
		De	iP	12 52 14.2
		This and the preceding event originated in the same area.		
"	15	Ud	iP	18 34 32.8
"	15	Up	iP	18 55 59.7
		Ud	iP	18 56 12.5
		De	iP	18 55 49.0
"	15	Ki	iP	18 59 36.7
		Um	iP	19 00 11.6
		Ud	iP	19 00 33.6
"	15	Up	iP	19 41 20.1
		Ud	iP	19 41 23.9
			i	19 41 59.4
		Greece.		
"	15	Up	iP	20 52 11.8
		Um	iP	20 51 57.8
		Ud	iP	20 52 16.3
"	15	Ud	e(P)	22 25 31
"	16	Up	eP	02 38 43
		Ud	iP	02 38 30.9
"	16	Ud	iP	02 54 45.2
"	16	Up	iPKPl	04 28 48.6
			i	04 29 01.3
		Ud	iPKPl	04 28 50.3 C
			i	04 28 02.1
		(cont.)		

1976 Apr.	16	(cont.)		
		De	iPKPl	04 29 01.0
			i	04 29 10.0
		Tonga-Kermadec Islands (h = N).		
"	16	Up	iP	04 43 32.7
			ipP	04 43 39.8
		Ud	iP	04 43 43.9
		De	iP	04 43 41.9
			ipP	04 43 49.3
		Nicobar Islands. h = 25 km (Up,De).		
"	16	Ud	iP	08 20 01.8
"	16	Up	iP	08 45 30.6
		Ud	iP	08 45 41.2
		De	iP	08 45 39.7
"	16	Up	iSgl	13 41 46.5
		Ud	iSgl	13 42 24.6
		De	iSgl	13 41 05.8
		Southeastern Baltic Sea. Explosion?		
"	16	Up	iPKP	13 58 12.5
		Ud	iPKP	13 58 13.1
		De	iPKP	13 58 21.4
"	16	Ud	i(P)	15 18 05.9
"	16	Up	iP	15 21 24.9
			i	15 21 32.1
		Sk	iP	15 21 20.0
		Um	iP	15 21 29.5
		Ud	iP	15 21 36.1
			i	15 21 43.8
		De	iP	15 21 34.0
"	16	Up	iP	15 22 35.2
		Ki	iP	15 23 46.0
		Um	iP	15 23 11.2
		Ud	iP	15 22 47.7
		Crete (h = 60 km).		
"	16	Up	iPKPl	16 05 42.3 C
		Ud	iPKPl	16 05 44.3
		De	iPKPl	16 05 54.5
"	16	Up	iPKP	16 13 27.7
			iSKPl	16 15 58.1
		Ki	iPKP	16 13 13.8 C
		Um	iPKP	16 13 19.9
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 16 (cont.)

Ud	iPKP		16 13 29.1	
	iSKP1		16 16 01.1	
De	iPKP		16 13 35.5	
	iSKP1		16 16 11.2	

New Hebrides Islands
(h = 620 km).

" 16

Up	iP		17 03 23.2	
	ipP		17 03 30.6	
			micr sec	
	P	Z'	0.2 1.0	
	pP	Z'	0.2 0.9	
	Mx	E	1.3 22	
Ki	iP		17 03 23.9	
	ipP		17 03 31.8	
			micr sec	
	P	Z'	0.2 1.4	
	Mx	N	1.4 22	
Sk	iP		17 03 39.1	
Um	iP		17 03 19.7	
	ipP		17 03 27.1	
Ud	iP		17 03 34.1	C
	ipP		17 03 41.7	
De	iP		17 03 32.2	C
	ipP		17 03 39.3	

Nicobar Islands.
h = 25 km (Up,Ki,Um,Ud,De).
m = 6.0, M = 4.8 (Up,Ki).

" 16

Up	iP		17 05 51.7	
Um	iP		17 05 50.0	
Ud	iP		17 06 06.2	
De	iP		17 06 03.8	

Probably the same focal area
as for the preceding event.
Origin time = 16 54 03.

" 16

Up	iP		17 13 34.6	
	ipP		17 13 41.8	
Ki	ipP		17 13 42.7	
Um	iP		17 13 31.6	
	ipP		17 13 39.4	
Ud	iP		17 13 45.6	
	ipP		17 13 54.0	
De	iP		17 13 43.6	
	ipP		17 13 51.6	

Nicobar Islands.
h = 25 km (Up,Um,Ud,De).

" 16

Up	iP		17 18 16.1	
Um	iP		17 17 53.4	
	i		17 18 08.0	
Ud	iP		17 18 22.5	
	i		17 19 01.1	
De	i		17 19 06.6	

Japan (h = N).

1976
Apr. 16

Up	iP		17 58 52.4	
	ipP		17 58 59.5	
			micr sec	
	P	Z'	0.1 0.9	
Ki	iP		17 58 54.0	
			micr sec	
	P	Z'	0.1 1.0	
Sk	i		17 59 25.1	
Um	iP		17 58 49.7	
	ipP		17 58 56.3	
Ud	iP		17 59 03.5	
	ipP		17 59 10.9	
De	iP		17 59 01.4	
	i		17 59 03.4	
	ipP		17 59 08.1	

Nicobar Islands.
h = 25 km (Up,Um,Ud,De).
m = 5.8 (Up,Ki).

" 16

Ud	iP		20 23 51.2	

Kashmir-India (h = 90 km).

" 16

Up	iPKP		21 07 33.4	
Um	iPKP		21 07 22.5	C
	i		21 07 36.7	
Ud	iPKP		21 07 35.3	

" 16

Up	eP		21 30 59	
Ud	iP		21 31 00.8	

Kamchatka (h = N).

" 16

Up	iP		21 43 01.0	
Ud	iP		21 43 12.6	
De	iP		21 43 10.7	

" 16

Up	iP		23 24 34.9	

" 17

Um	iP		01 13 32.7	
Ud	iP		01 13 59.8	

Japan (h = 45 km).

" 17

Ud	iP		03 39 21.1	

" 17

Ki	iP		05 15 49.6	
Um	iP		05 16 06.8	
Ud	iP		05 16 29.8	

" 17

Up	iP		05 17 14.0	
Ki	iP		05 16 40.4	
Um	iP		05 16 55.1	
Ud	iP		05 17 21.1	
De	iP		05 17 34.3	

Japan (h = 450 km).

" 17

Up	iP		09 35 45.9	
Ud	iP		09 35 46.0	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Apr.	17	Ud	iP	20 28 48.6	
		Uzbek SSR (h = N).			
"	17	Ud	iP	21 05 10.7	
		South Atlantic Ocean (h = N).			
"	18	Ki	iPKP	10 40 08.4	
		South of Africa (h = N).			
"	18	Ud	iP	03 11 19.5	
"	18	Ud	iPKPl	11 39 38.8	
		De	iPKPl	11 39 49.3	D
		Fiji Islands (h = 610 km).			
"	18	Ud	iP	13 10 07.2	
"	18	Up	iP	20 09 50.2	
		Ud	iP	20 09 57.7	
"	18	Up	i	21 54 59.8	
		Ud	iPKPl	21 54 53.7	
			i	21 55 01.0	
			i	21 55 05.1	
		De	iPKPl	21 55 03.3	
			i	21 55 15.5	
"	18	Ud	iP	22 12 18.1	
"	18	Um	iP	22 44 28.4	
		Ud	iP	22 44 43.9	
			i	22 44 48.2	
		De	iP	22 44 39.6	
			i	22 44 43.0	
		Uzbek SSR (h = N).			
"	19	Up	iP	00 33 06.3	
		Ki	iP	00 34 14.1	
				micr sec	
			P	Z' 0.1 1.1	
		Um	iP	00 33 38.5	
		Ud	iP	00 33 13.0	
			ipP	00 33 28.4	
		De	iP	00 32 41.2	
			ipP	00 32 56.0	
		Crete.			
		h = 60 km (Ud,De).			
"	19	Up	i	00 47 24.1	
		Ki	iP	00 46 47.9	
			ipP	00 47 02.6	
		Ud	iP	00 47 21.5	
			ipP	00 47 35.4	
		De	i	00 47 40.3	
		Mariana Islands.			
		h = 50 km (Ki,Ud).			

1976 Apr.	19	Up	iP	01 33 58.1	
		Ki	iP	01 33 05.2	
		Um	iP	01 33 29.8	C
		Ud	iP	01 34 01.4	
		De	iP	01 34 22.9	
"	19	Up	iSn	09 44 09.0	
			iSgl	09 44 27.3	
		Ud	iSn	09 44 49.4	
			iSgl	09 45 16.8	
		De	iSgl	09 44 48.2	
		Latvia-Lithuania.			
		Approximate origin time			
		= 09 42 10.			
"	19	Up	iP	11 02 08.8	
			iS	11 11 29	
				micr sec	
			P	Z' 0.3 1.5	
			Mx	E 3.0 22	
			Mx	N 2.9 20	
			Mx	Z 3.3 20	
		Ki	iP	11 01 26.6	
				micr sec	
			P	Z' 0.1 1.5	
			Mx	E 3.6 18	
			Mx	N 6.0 16	
		Sk	iP	11 02 01.8	
		Um	iP	11 01 45.2	C
			iS	11 10 44	
		Ud	iP	11 02 15.7	C
			ipP	11 02 22.0	
		De	iP	11 02 31.8	C
		Japan (h = 15 km).			
		m = 6.0, M = 5.8 (Up,Ki).			
"	19	Up	iP	11 28 02.9	
		Um	iP	11 28 01.8	C
		Ud	iP	11 27 51.2	
			i	11 27 56.5	
		De	iP	11 27 57.2	
		Costa Rica (h = 35 km).			
"	19	Up	iP	11 56 37.9	
		Ud	iP	11 56 54.8	
		Hindu Kush (h = 220 km).			
"	19	Up	iP	14 09 38.1	
		Ud	iP	14 09 45.2	C
		Japan (h = N).			
"	19	Ud	iP	14 20 41.9	
		Japan (h = 30 km).			
"	19	Ud	iP	15 39 12.2	C
		De	iP	15 38 54.0	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Apr.	19	Up	iP	19 18 59.2	
			iPP	19 22 46.0	
				micr sec	
			P Z'	0.1 1.3	
		Ki	iP	19 18 43.6	
				micr sec	
			P Z'	0.1 1.0	
		Um	iP	19 18 49.0	
		Ud	iP	19 19 07.4	
			iPP	19 23 01.8	
		De	iP	19 19 12.7	
			iPP	19 23 17.7	
		Celebes Sea (h = 300 km).			
		m = 5.7 (Up,Ki).			
"	19	Ud	ipP	21 00 04.6	
		Andaman Islands (h = N).			
"	20	Up	iP	02 11 57.8	
		Um	iP	02 12 36.9	
			i	02 12 37.9	
		Ud	iP	02 12 06.2	
			i	02 12 07.2	
		De	iP	02 12 20.9	
		Sea of Japan (h = 390 km).			
		Double P (Um,Ud), small and			
		large, 1 sec apart.			
"	20	Ud	iP	03 14 10.6	
"	20	Up	iP	03 37 24.7	
		Ud	iP	03 37 34.9	
		Formosa (h = 70 km).			
"	20	Up	iP	05 02 34.7	
			i	05 02 48.1	
		Um	iP	05 02 50.5	
		Ud	iP	05 02 51.2	
		De	iP	05 02 32.3	
		Turkey (h = 30 km).			
"	20	De	iPKPl	06 22 38.9	
		Fiji Islands (h = 520 km).			
"	20	Up	iP	08 10 41.7	
		Ki	iP	08 09 47.8	
				micr sec	
			P Z'	0.1 1.0	
		Um	iP	08 10 15.1	
		Ud	iP	08 10 40.4	
		De	iP	08 11 03.1	C
		Aleutian Islands (h = 45 km).			
"	20	Up	iP	09 38 37.7	
				micr sec	
			P Z'	0.1 1.0	
		(cont.)			

1976					
Apr.	20	(cont.)			
		Ki	iP	09 37 48.9	
		Ud	iP	09 38 42.3	
			i	09 38 43.7	
		De	iP	09 39 02.4	
		Kurile Islands (h = N).			
"	20	Up	iPKPl	11 04 54.1	
		Ud	iPKPl	11 04 52.7	
		De	iPKPl	11 05 02.8	
"	20	Ud	eP	11 57 57	C
		De	iP	11 57 48.7	
		North Atlantic Ocean (h = N).			
"	20	Ki	iP	14 36 24.1	
				micr sec	
			P Z'	0.1 1.0	
		Um	iP	14 36 51.7	
		Ud	iP	14 37 11.7	
			i	14 37 13.9	
		De	iP	14 37 36.9	
		Alaska (h = N).			
"	20	Up	iP	19 55 23.9	
		Um	ipP	19 55 06.4	
		Ud	iP	19 55 29.7	D
		Kurile Islands (h = N).			
"	20	Ud	iP	20 23 50.3	
		Turkey.			
"	20	Up	iP	20 34 46.9	
				micr sec	
			P Z'	0.1 1.3	
		Ud	iP	20 34 53.6	
		Kurile Islands (h = N).			
"	20	Up	i	21 48 42.1	
		Ud	iP	21 48 43.6	
		Philippine Islands (h = N).			
"	21	Up	iP	03 58 05.5	
		Ki	iP	03 58 47.8	
		Um	iP	03 58 21.4	
		Ud	iP	03 58 19.4	C
		De	iP	03 58 00.6	C
		Iran (h = N).			
"	21	Up	iPKP	04 40 33.1	
		Ud	iPKP	04 40 34.8	
"	21	Up	iP	05 04 54.0	
		Ki	iP	05 04 37.8	C
				micr sec	
			P Z'	0.1 0.6	
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 21 (cont.)

Sk	iP		05 05 08.5	C
Um	iP		05 04 38.7	
Ud	iP		05 05 09.7	C
De	iP		05 05 16.3	

Kazakh SSR.
This event has been originated in the same area as the following one.

" 21

Up	iP		05 09 55.1	C
	i		05 10 14.9	
	iPP		05 11 15.0	
			micr sec	
	P	Z'	0.1 0.5	
Ki	iP		05 09 38.7	C
			micr sec	
	P	Z'	0.2 0.5	
Sk	iP		05 10 10.2	C
Um	iP		05 09 39.7	C
Ud	iP		05 10 11.6	C
De	iP		05 10 18.5	C

Kazakh SSR.
m = 6.2 (Up,Ki).
Underground explosion.

" 21

Up	iP		14 48 21.5	
	i(PP)		14 49 29.5	
Ki	iP		14 48 35.7	
Sk	iP		14 48 50.0	
	i(PP)		14 50 07.0	
Um	iP		14 48 22.0	
	i(PP)		14 49 29.1	
Ud	iP		14 48 39.0	C
	iPP		14 50 04.1	
De	iP		14 48 33.9	
	i		14 48 37.1	
	i(PP)		14 49 37.3	

Uzbek SSR (h = N).

" 21

Up	iP		17 21 39.1	
Ki	e		17 23 12	
Sk	iP		17 22 21.0	
Ud	iP		17 21 46.8	

Ionian Sea (h = N).

" 21

Ud	eP		19 09 02	

Mindanao (h = 120 km).

" 21

Up	ipP		19 21 39.9	
	i		19 21 51.7	
Ki	iP		19 21 32.2	
	ipP		19 21 39.5	
	i		19 21 51.2	
Sk	ipP		19 21 55.4	
	i		19 22 05.5	

(cont.)

1976
Apr. 21 (cont.)

Um	ipP		19 21 34.0	
	i		19 21 46.0	
Ud	iP		19 21 43.5	
	i		19 21 59.5	
De	iP		19 21 44.0	
	i		19 21 47.8	
	i		19 21 04.3	

Andaman Islands (h = N).

" 21

Up	iP		19 53 08.8	
			micr sec	
	Mx	E	1.1 19	
	Mx	Z	1.1 20	
Ki	iP		19 52 43.6	
Sk	eP		19 53 11	
Ud	iP		19 52 16.6	

Formosa (h = 40 km).

" 21

Up	iP		19 57 45.4	
Ki	iP		19 57 19.3	
Sk	eP		19 57 48	
Ud	iP		19 57 54.1	

Formosa (h = 35 km).

" 21

Up	iP		20 04 12.0	
			micr sec	
	P	Z'	0.1 1.1	
Ki	iP		20 05 37.4	
	ipP		20 05 44.1	
			micr sec	
	P	Z'	0.1 1.0	
Sk	iP		20 04 55.6	
	i		20 04 58.8	
Um	iP		20 04 56.2	C
Ud	iP		20 04 10.1	
	ipP		20 04 17.1	
	i		20 04 25.8	
De	eP		20 03 30	

Yugoslavia.
h = 30 km (Ki,Ud).
m = 5.1 (Up,Ki).

" 21

Up	iPKPl		20 44 31.5	D
	i		20 44 51.0	
			micr sec	
	PKPl	Z'	0.2 0.9	
Ki	i(PKP)		20 44 13.5	
	i		20 47 00.7	
Sk	iPKPl		20 44 26.5	
Um	iPKPl		20 44 21.3	
	iPKP		20 44 26.1	
	iSKPl		20 47 16.3	
Ud	iPKPl		20 44 33.9	D
	i		20 46 42.7	
De	iPKPl		20 44 43.5	

Tonga-Kermadec Islands (h = 500 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 21 Up iP 22 03 20.8
Ki iP 22 04 06.7
Um iP 22 03 41.9
Ud iP 22 03 36.9
i 22 03 40.0
De iP 22 03 18.4
Turkey (h = 55 km).

" 22 Ki iP 01 04 20.3
Sk iP 01 03 39.1
Um iP 01 03 40.8
Ud iP 01 02 57.4
Yugoslavia (h = 35 km).

" 22 Ud ipP 16 37 26.1
Red Sea (h = N).

" 22 Up iP 17 10 32.1
i 17 10 33.7
i(PP) 17 11 43.3
iS 17 16 28
micr sec
P Z' 0.7 1.4
Mx E 2.6 17
Mx N 3.2 22
Mx Z 3.6 18
Ki iP 17 11 10.3
i 17 11 11.7
iS 17 17 37
micr sec
P Z' 1.5 2.0
Mx E 3.2 12
Mx N 3.7 15
Mx Z 3.7 13
Sk iP 17 11 07.3
i 17 11 08.8
iPP 17 12 56.9
Um iP 17 10 46.2
i 17 10 47.6
iS 17 16 54
Ud iP 17 10 47.5
i 17 10 49.1
De iP 17 10 30.4
i 17 10 32.0
Iran (h = 25 km).
m = 6.3, M = 5.4 (Up,Ki).
Double P, small and large, average separation 1.7 sec.

" 22 Um iP 19 33 51.1
Japan (h = 60 km).

" 23 Sk eP 01 40 08
Um iP 01 40 07.1

1976
Apr. 23 Up iP 02 03 34.0
Ki iP 02 03 48.2
Sk iP 02 04 05.7
Um iP 02 03 34.6 C
Ud iP 02 03 51.9
De iP 02 03 47.1
Uzbek SSR (h = N).

" 23 Up iP 03 21 15.8
Ki iP 03 21 55.0
Sk eP 03 21 49
Um ipP 03 21 38.9
Ud iP 03 21 28.7
i 03 21 30.7
De iP 03 21 13.7
Iran (h = 45 km).

" 23 Ud iP 04 29 04.8
Dodecanese Islands (h = 80 km).

" 23 Ki iP 04 30 52.1 C
Um iP 04 30 58.6 C
Ud iP 04 31 18.8 C
Samar (h = N).

" 23 Up iP 05 24 24.3
Ki i 05 23 32.1
Um i 05 24 07.5
Ud iP 05 24 24.9
Aleutian Islands (h = N).

" 23 Ud iPKPl 08 54 23.0
De iPKPl 08 54 33.2
Fiji Islands (h = 560 km).

" 23 Up iP 09 46 43.9
Ki eP 09 45 54
Um iP 09 46 21.4
Ud iP 09 46 53.0
Kurile Islands (h = 50 km).

" 23 Up i(P) 14 11 05.3

" 23 Up iSgl 15 03 50.5
Sk eSgl 15 03 50
Ud iSgl 15 02 52.3
Southwest Norway,
58.3°N, 6.4°E.
Origin time = 15 00 45.
M_L = 2.4 (Up,Sk,Ud).
By combination with Bergen and Kongsberg readings.

" 23 Ud iP 16 26 50.2

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 23 Um iPKP 17 35 15.2
Tonga Islands (h = 70 km).

" 23 Up i 18 51 34.2
Um iSKPl 18 54 02.7
Ud iPKPl 18 51 27.8
iSKPl 18 54 15.7
De iPKPl 18 51 38.6
Tonga-Kermadec Islands
(h = 550 km).

" 23 Ud iPKPl 19 15 07.7
De iPKPl 19 15 18.1

" 23 Ud iP 20 17 55.5 C

" 23 Up iP 21 02 18.1
Um iP 21 02 18.4 C
Ud iP 21 02 35.8 C
De iP 21 02 30.5
Uzbek SSR (h = N).

" 24 Up ipP 01 37 12.4
iS 01 46 37
micr sec
pP Z' 0.3 2.0
Mx E 1.7 13
Mx N 2.2 14
Mx Z 3.0 14
Ki iP 01 36 22.1
micr sec
Mx E 3.4 14
Mx N 2.5 13
Mx Z 3.2 14
Sk eP 01 36 56
Um iP 01 36 37.6
i 01 36 53.2
iS 01 46 03
Ud iP 01 37 05.8
i 01 37 31.3
De iP 01 37 23.1
i 01 37 53.3
Japan (h = 45 km).
M = 5.8 (Up,Ki).

" 24 Up iPKPl 08 48 54.3
Sk iPKPl 08 48 47.7
Ud iPKPl 08 48 56.2
i 08 49 35.6
De iPKPl 08 49 04.7
Kermadec Islands (h = 120 km).

" 24 Up iP 10 27 30.8
Ki iP 10 28 02.1
(cont.)

1976
Apr. 24 (cont.)
Sk i 10 28 12.4
Um iP 10 27 41.4
i 10 27 47.5
Ud iP 10 27 45.3
De iP 10 27 30.5
Iran (h = 20 km).

" 24 Up iP 10 33 43.3
Um iP 10 33 18.1
Ud iP 10 33 48.8
De iP 10 34 07.8
Kurile Islands (h = 100 km).

" 24 Ki iPn 13 24 19.5
Sk iP 13 24 55.8
iS 13 26 39.8
Um iP 13 25 07.3
De iP 13 26 26.8
Greenland Sea (h = N).

" 24 Up iSgl 13 58 34.6
Sk iSgl 13 58 03.6
Um iSgl 13 59 34.4
Ud iSgl 13 57 36.3
De e 13 58 14
iSgl 13 58 27.0
Southwest Norway,
60.1°N, 6.5°E.
Origin time = 13 55 43.
M_L = 2.4 (Ud).
By combination with Bergen
and Kongsberg readings.

" 24 Ki iP 14 03 56.5
Ud iP 14 04 04.8
De i 14 04 03.3
Uzbek SSR (h = N).

" 24 Up iP 19 19 19.7
Ki iP 19 19 52.0
Sk iP 19 19 57.8
i 19 20 32.7
Um iP 19 19 29.0
iPP 19 20 28.2
Ud iP 19 19 37.5 C
De iP 19 19 26.4
Caspian Sea (h = N).

" 24 Up ePKP 21 04 28
Sk iPKP 21 04 20.8
Ud iPKP 21 04 30.4 D
De iPKP 21 04 37.4

" 24 Ud iP 22 36 01.3
Alaska (h = 80 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Apr.	24	Ud	iP		23 24 44.6	
		North Atlantic Ocean (h = N).				
"	25	Up	iP		00 32 30.9	
					micr	sec
			P	Z'	0.1	1.4
			Mx	E	0.8	14
			Mx	Z	1.4	20
		Ki	iP		00 32 28.5	
					micr	sec
			P	Z'	0.2	1.5
			Mx	E	0.7	12
			Mx	Z	0.7	14
		Um	iP		00 32 30.8	C
		De	iP		00 32 27.9	
		North Atlantic Ocean (h = N).				
		m = 5.3, M = 4.3 (Up,Ki).				
"	25	Up	iP		06 23 14.4	
		Ki	iP		06 23 09.8	
		Sk	iP		06 22 40.2	
		Um	iP		06 23 12.6	
		Ud	iP		06 22 53.1	
		De	iP		06 23 12.1	
		North Atlantic Ocean (h = N).				
"	25	Ki	iP		06 28 21.9	
		Um	iP		06 28 27.0	
		Ud	iP		06 28 08.3	C
		North Atlantic Ocean (h = N).				
"	25	Um	iSKPl		07 04 29.3	
		Ud	iPKPl		07 01 50.1	C
			iSKPl		07 04 41.6	
		De	iPKPl		07 02 01.7	
		Tonga-Kermadec Islands (h = 460 km).				
"	25	Ud	iP		11 30 59.6	
		Vancouver Island (h = N).				
"	25	Up	iLg2		12 15 47.3	
		Ki	i(P)		12 08 17.8	
			iP		12 08 26.7	
			iS		12 10 17.6	
			i		12 10 38.2	
		Um	iP		12 09 16.9	
			i		12 11 33.6	
			i		12 12 09.4	
			iLgl		12 13 20.6	
		South Svalbard, 77.3°N, 21.4°E. Origin time = 12 06 05. Solution from Helsinki regional bulletin.				
1976 Apr.	25	Up	iPKPl		21 06 04.9	
			iSKPl		21 08 59.7	
		Ki	iPKP		21 05 58.2	
			iSKPl		21 08 35.7	
		Um	i(PKP)		21 05 59.6	
			iPKP		21 06 04.8	
		Ud	iPKPl		21 06 06.2	
			iSKPl		21 09 01.8	
		De	iPKPl		21 06 18.3	C
		Fiji Islands (h = 520 km).				
"	25	Ud	i(PKP)		22 35 57.0	
			iPKP		22 35 59.8	
		Solomon Islands (h = 55 km).				
"	25	Up			micr	sec
			Mx	E	1.1	19
			Mx	Z	1.1	21
		Ki			micr	sec
			Mx	E	1.1	20
			Mx	Z	1.6	21
		Sk	ePKP		22 40 49	
		Indian Rise (h = N).				
		M = 5.6 (Up,Ki).				
"	25	Up	iP		22 59 21.9	
		Ki	iP		22 58 43.0	
		Sk	i		22 59 21.1	
		Um	iP		22 59 00.8	C
		Ud	iP		22 59 29.4	C
		Japan (h = N).				
"	26	Up	iP		05 04 49.1	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		05 05 26.5	
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		05 05 24.2	
		Um	iP		05 05 03.2	
		Ud	iP		05 05 03.6	
		De	iP		05 04 46.8	
		Iran (h = 30 km).				
		m = 5.5 (Up,Ki).				
"	26	Ki	iP		10 44 25.4	
		Sk	iP		10 45 19.0	
		Um	i		10 45 23.9	
		Ud	iP		10 45 58.6	
			i		10 46 08.7	
		Greenland Sea (h = N).				
"	27	Ki	iPKP		10 36 37.9	
		Sk	iPKP		10 36 47.6	
		Um	iPKP		10 36 44.2	
		Santa Cruz Islands (h = 35 km).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 27 Up i(PKP) 15 28 15.9
Ki iPKP 15 28 06.9
Um i(PKP) 15 28 04.8
Ud i(PKP) 15 28 16.2
iPKPl 15 28 19.7
De iPKPl 15 28 28.7
Tonga-Kermadec Islands
(h = 480 km).

" 27 Ud iP 16 47 00.6
Japan (h = 100 km).

" 27 Ud iP 18 26 58.4
Mexico (h = N).

" 27 Ki iP 19 42 24.2
Um iP 19 42 51.3
Ud iP 19 43 20.0
Aleutian Islands (h = 45 km).

" 28 Up iP 04 52 15.7
Um iP 04 52 11.7
i 04 52 26.8
Guatemala (h = 70 km).

" 28 Ki iP 08 12 44.9

" 28 Up iPKP 08 16 58.8
Ki ePKP 08 16 48
Sk iPKP 08 16 59.3
Um iPKP 08 16 53.1
i 08 17 41.1
Ud iPKP 08 17 02.2
De iPKP 08 17 07.2
Bismarck Sea (h = 520 km).

" 28 Ud iP 17 33 34.3
i 17 33 35.9

" 28 Ki iP 23 17 31.7
Ud iP 23 18 23.1
Kurile Islands (h = 50 km).

" 29 Up iPKPl 06 52 23.3
micr sec
PKPl Z' 0.2 1.0
Mx E 1.2 21
Mx N 1.9 21
Mx Z 3.4 21
Ki iPKP 06 52 07.8
micr sec
Mx E 1.1 15
Mx N 2.3 19
Mx Z 2.1 19
(cont.)

1976
Apr. 29 (cont.)
Sk iPKP 06 52 16.2
Um iPKPl 06 52 12.3 C
i 06 54 42.5
Ud iPKPl 06 52 24.8 C
De iPKPl 06 52 33.9 C
Kermadec Islands (h = 60 km).
M = 6.0 (Up,Ki).

" 29 Up iPKPl 08 29 59.4
Ud iPKPl 08 30 02.1
De iPKPl 08 30 13.2
Tonga-Kermadec Islands
(h = 600 km).

" 29 Ud iPKPl 09 37 25.3
De iPKPl 09 37 41.8

" 29 Ud iP 10 18 28.2

" 29 Um iP 10 44 30.4

" 29 Up iP 12 20 31.0 C
Ki iP 12 20 11.5 C
Um iP 12 20 17.8
Ud iP 12 20 38.9
Philippine Islands (h = 20 km).

" 29 Um iPKP 13 00 38.2
Ud iPKP 13 00 47.4
De iPKP 13 00 53.2
Solomon Islands (h = 400 km).

" 29 Um iP 18 33 04.4

" 29 Sk iSgl 21 53 55.0
Ud iSgl 21 54 39.7
i 21 54 45.1
Off coast of Norway,
62.6°N, 5.4°E.
Origin time = 21 52 13.
M_L = 2.4 (Ud).
By combination with Bergen
and Kongsberg readings.

" 29 Sk iP 22 10 58.6
Um iP 22 11 14.3

" 29 Up iP 22 23 26.4
i 22 23 33.2
i 22 23 42.1
iS 22 27 49
micr sec
P Z' 0.1 1.0
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Apr. 29 (cont.)

Up			micr	sec
	Mx	E	4.7	19
	Mx	N	6.7	18
	Mx	Z	6.1	18
Ki	iP		22 24 11.1	
			micr	sec
	P	Z'	0.1	1.0
	Mx	E	5.7	13
	Mx	N	5.4	13
	Mx	Z	1.2	12
Sk	eP		22 24 06	
Um	iP		22 23 42.4	
	iS		22 28 18	
Ud	iP		22 23 41.8	
De	iP		22 23 24.7	

Turkey (h = 45 km).
m = 5.4, M = 5.4 (Up,Ki).

" 29

Up	iP		23 28 36.1	
			micr	sec
	Mx	E	0.6	11
	Mx	N	0.6	11
Ki	iP		23 29 21.8 C	
			micr	sec
	P	Z'	0.1	0.9
	Mx	E	0.7	12
	Mx	N	0.5	13
Um	iP		23 28 53.6	
Ud	iP		23 28 52.7	
De	iP		23 28 35.1	

Turkey-USSR (h = 10 km).
M = 4.6 (Up,Ki).

" 30

Up	iP	07 10 39.4
Ud	iP	07 10 41.9

" 30

Up	i(S*)	12 56 16.6
	iSgl	12 56 20.1
Ki	i	12 54 50.6
	iPgl	12 54 53.1
	i	12 55 33.2
	iSgl	12 55 38.7
Sk	i	12 55 08.4
	iSn	12 55 37.6
	iSgl	12 55 55.5
Um	iPgl	12 54 06.1
	iSgl	12 54 15.5
Ud	iSn	12 56 16.9
	i	12 56 45.3
	iSgl	12 56 47.7
De	iSgl	12 58 22.4

Västerbotten, Sweden,
64.4°N, 21.1°E.
Origin time = 12 53 53.
M_L = 2.8 (Up,Ki,Sk,Um,Ud).

Felt.

1976
Apr. 30

Up	iPKPl		15 42 29.5 C	
			micr	sec
	PKPl	Z'	0.1	1.0
Ki	ePKP		15 42 13	
Sk	iPKPl		15 42 21.1	
Um	iPKPl		15 42 18.3	
Ud	iPKPl		15 42 30.9 C	
De	iPKPl		15 42 40.0	

Kermadec Islands (h = N).

" 30

Up	iP	16 14 49.9
	i	16 15 04.8
Ki	iP	16 15 46.8
Sk	iP	16 15 17.2
Um	iP	16 15 10.2
	i	16 15 26.9
Ud	iP	16 14 47.8
	i	16 14 57.6
De	iP	16 14 12.4
	i	16 14 33.8

Greece (h = 120 km).

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Daniel Lindström
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Rutger Wahlström

March 22, 1978

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BOX 517
751 20 UPPSALA 1
SWEDEN

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BOX 517
S-751 20 UPPSALA
SWEDEN

S E I S M O L O G I C A L B U L L E T I N

U P P S A L A, K I R U N A, S K A L S T U G A N, U M E Å, U D D E H O L M and D E L A R Y

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

M A Y 1 - 31, 1976

1976 May	1	Ud	eP	02 04 57
"	1	Um	iP	02 44 19.9
		Kamchatka (h = 180 km).		
"	1	Up	iP	05 15 15.8
		Um	iP	05 15 56.9
		Ud	iP	05 15 18.3
		De	iP	05 14 36.6
		Sicily (h = 40 km).		
"	1	Up	iP	07 31 36.4
		Ki	iP	07 32 42.3
		Ud	iP	07 31 45.8
		De	iP	07 31 11.7
			i	07 31 17.1
		Turkey (h = N).		
"	1	Up	iP	11 44 17.4
		Ki	iP	11 44 10.1
		Sk	e	11 44 37
		Um	i	11 44 10.9
		Ud	iP	11 44 30.7
		De	i	11 44 41.6
		Sinkiang, China (h = N).		
"	1	Ud	iP	12 51 10.0
"	1	Um	iP	12 53 18.5
"	1	Ud	iP	16 38 01.6
		Iran-USSR (h = 15 km).		
"	1	Um	iP	18 08 38.8
		Ud	iP	18 09 01.8

1976 May	1	Up	iP	19 45 17.5
			i	19 45 40.0
		Ki	eP	19 44 35
		Um	iP	19 44 53.5
			i	19 45 20.4
		Ud	iP	19 45 24.2
			i	19 45 49.9
		De	eP	19 45 42
		Japan (h = 70 km).		
"	1	Up	iPKPl	22 04 03.8
		Ud	iPKPl	22 04 06.3
"	2	Up	i	00 31 06.6
		Ud	iP	00 31 06.7
"	2	Ud	iPKPl	01 26 16.2
		De	iPKPl	01 26 27.2
"	2	Up	iP	04 05 34.6
		Ki	iP	04 05 34.5
		Um	iP	04 05 31.0
		Ud	iP	04 05 44.6
		De	iP	04 05 42.9
"	2	Up	iP	07 29 49.5
			ipP	07 29 54.1
				micr sec
			P Z'	0.1 1.0
		Ki	iP	07 29 31.0
			ipP	07 29 36.1
				micr sec
			P Z'	0.1 1.0
		Sk	eP	07 29 54
		Um	iP	07 29 36.9
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 2 (cont.)

Ud	iP		07 29 57.9
	ipP		07 30 02.8
De	iP		07 30 04.0

Luzon.
h = 15 km (Up,Ki,Ud).
m = 5.9 (Up,Ki).

" 2	Ki	iP	15 30 15.6
	Ud	i	15 31 13.8

Kurile Islands (h = N).

" 2	Um	iP	15 40 51.8
	Ud	iP	15 41 21.8

" 2	Up	iPKPl	16 05 39.7
	Ki	iPKP	16 05 31.3
		iSKPl	16 08 45.0
		i	16 08 52.6
			micr sec
		SKPl Z'	0.1 1.0
		i Z'	0.1 0.9
	Sk	ePKPl	16 05 32
		i	16 09 09.3
	Um	iPKPl	16 05 28.3
		iSKPl	16 08 57.2
	Ud	iPKPl	16 05 40.9
		iSKPl	16 09 09.7
	De	iPKPl	16 05 52.7
		i	16 05 56.8

Tonga-Kermadec Islands
(h = 190 km).

" 2	Up	iP	17 04 34.9
		i	17 04 37.3
	Ki	eP	17 05 11
	Sk	e	17 05 15
	Um	iP	17 04 48.3
	Ud	iP	17 04 49.3
	De	iP	17 04 33.2

Iran (h = 45 km).

" 2	Ki	iP	17 45 09.4
	Ud	iP	17 45 22.7
	De	iP	17 45 27.8

New Britain (h = 180 km).

" 2	Up	iPKPl	23 18 49.6
	Sk	ePKPl	23 18 41
	Ud	iPKPl	23 18 51.0
	De	iPKPl	23 19 00.0

Kermadec Islands (h = N).

" 3	Up	iP	06 28 21.6

1976
May 3

Up	ePKPl		13 55 21
Sk	iPKPl		13 55 11.0
Ud	iPKPl		13 55 20.2
De	iPKPl		13 55 28.1

Kermadec Islands (h = N).

" 3	Ud	iPKPl	14 10 46.1
		iPKP	14 10 50.1
	De	ePKPl	14 10 55

Tonga Islands (h = N).

" 3	Up	i	15 51 34.7
	Sk	iPKPl	15 51 24.3
	Ud	iPKPl	15 51 33.3
		i	15 51 56.3
	De	ePKPl	15 51 43

Kermadec Islands (h = N).

" 3	Ud	iP	22 03 14.6

" 3	Up	iP	22 03 48.5
	Um	iP	22 03 31.3
	Ud	iP	22 03 57.9

" 3	Ud	iP	22 59 35.9

" 4	Up	iP	03 50 32.4
	Um	iP	03 50 06.4
	Ud	iP	03 50 37.5

" 4	Up	iP	04 20 10.0
		ipP	04 20 16.7
			micr sec
		P Z'	0.1 1.3
		pP Z'	0.1 1.5
	Ki	iP	04 20 38.2
	Sk	epP	04 20 15
	Um	iP	04 20 28.5
		ipP	04 20 35.1
	Ud	iP	04 19 58.9
		ipP	04 20 06.1

Atlantic Ocean.
h = 25 km (Up,Um,Ud).

" 4	Up	iP	04 51 32.7
		i	04 51 36.5
		i	04 51 42.6
			micr sec
		P Z'	0.1 1.4
		i Z'	0.4 1.7
		Mx E	1.2 20
		Mx N	1.0 18
		Mx Z	1.5 19
	Ki	iP	04 52 01.9

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 4 (cont.)

Ki	i		04 52 05.7	
	i		04 52 27.8	
			micr	sec
	P	Z'	0.3	1.7
Sk	iP		04 51 31.2	
	i		04 51 34.9	
Um	iP		04 51 51.8	
	i		04 51 59.8	
	i		04 52 16.9	
	iS		05 00 59	
Ud	iP		04 51 22.2	
	i		04 51 26.0	
	i		04 51 31.8	
De	iP		04 51 12.4	
	i		04 51 15.7	

Atlantic Ocean (h = N).
m = 6.2 (Up,Ki).

" 4

Ki	iP		06 11 45.2	
Um	iP		06 11 47.1	
Ud	iP		06 12 10.2	

Yunnan, China (h = N).

" 4

Up	ePKP1		08 49 27	
Ud	iPKP1		08 49 27.7	
De	iPKP1		08 49 38.5	

Tonga Islands (h = 55 km).

" 4

Up	iP		08 56 05.9	
	i		08 56 07.4	
			micr	sec
	P	Z'	0.1	1.0
Ki	iP		08 55 59.9	
			micr	sec
	P	Z'	0.1	1.0
Sk	iP		08 55 49.4	
Um	iP		08 56 05.6	C
	i		08 56 27.4	
Ud	iP		08 55 57.4	
	ipP		08 56 08.5	
De	iP		08 56 03.5	

Honduras.
h = 35 km (Ud).
m = 6.0 (Up,Ki).

" 4

Up	iP		09 35 45.7	C
	i		09 35 52.1	
Ki	iP		09 35 28.4	
Sk	eP		09 35 51	
Um	iP		09 35 33.8	C
Ud	iP		09 35 54.7	

Mindoro (h = 70 km).

1976
May 4

Up	iPKP		10 00 58.0
Ki	i(PKP)		10 00 34.7
	iPKP		10 00 44.0
Sk	iPKP		10 00 54.8
Um	iPKP		10 00 50.1
Ud	iPKP		10 00 59.1
De	iPKP		10 01 06.0

Santa Cruz Islands (h = 170 km).

" 4

Up	i		14 16 43.5	
	iPKP2		14 16 51.1	
			micr	sec
	PKP2	Z'	0.2	1.3
	Mx	E	5.8	19
	Mx	N	7.5	20
	Mx	Z	6.8	20
Ki	iPKP		14 16 14.4	
	iPKP1		14 16 19.8	
			micr	sec
	PKP1	Z'	0.3	1.0
	Mx	E	4.4	20
	Mx	N	3.9	20
	Mx	Z	8.7	22
Sk	ePKP		14 16 21	
	iPKP1		14 16 34.3	
	iPKP2		14 16 51.8	
Um	iPKP		14 16 16.5	
	iPKP1		14 16 25.3	
Ud	iPKP		14 16 25.2	
	iPKP1		14 16 38.8	
	iPKP2		14 16 57.1	
De	iPKP		14 16 24.6	
	iPKP2		14 17 05.5	

South Island, New Zealand
(h = 20 km).
M = 6.5 (Up,Ki).

" 4

Um	iP		14 32 43.7

" 4

Up	iPKP1		17 45 57.6
Sk	i		17 46 01.7
Um	iPKP		17 45 52.9
Ud	iPKP1		17 45 58.3
De	iPKP1		17 46 07.9
	i		17 46 22.6

Tonga Islands (h = 40 km).

" 4

Up	iP		20 48 55.4
	ipP		20 49 03.0
Ki	epP		20 48 22
Um	iP		20 48 37.6
	ipP		20 48 45.1
Ud	iP		20 48 47.7

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 4 (cont.)

Ud	ipP	20 48 55.4	

California.
h = 25 km (Up,Um,Ud).

" 4	De	iP	23 34 05.5

" 5	Up	iP	01 28 56.5
	Ud	iP	01 29 05.0

Mindoro (h = 60 km).

" 5	Up	iP	04 04 34.1
	Um	iP	04 04 30.0
		ipP	04 05 05.9
	Ud	iP	04 04 51.4
		ipP	04 05 27.3
	De	i	04 04 50.6

Hindu Kush.
h = 170 km (Um,Ud).

" 5	Up	iPKP	05 12 29.4	
		iPKP1	05 12 33.0	
		iPKP2	05 12 36.4	
		i	05 22 49.0	
			micr	sec
		PKP	Z' 0.2	1.8
		PKP1	Z' 0.2	1.0
		PKP2	Z' 2.0	0.8
		Mx	E 21	24
		Mx	N 38	23
		Mx	Z 52	23
	Ki	iPKP1	05 12 12.0	
		iPKP	05 12 14.1	
			micr	sec
		PKP	Z' 0.2	0.7
		Mx	E 19	22
		Mx	N 37	21
		Mx	Z 39	22
	Sk	iPKP1	05 12 25.3	
	Um	iPKP1	05 12 20.4	
		i	05 12 23.4	
	Ud	iPKP	05 12 30.3	
		iPKP1	05 12 34.3	
		iPKP2	05 12 38.7	
	De	iPKP	05 12 36.2	
		iPKP1	05 12 43.1	

Kermadec Islands (h = 35 km).
M = 7.2 (Up,Ki).

" 5	Up	iP	05 33 28.1
	Sk	iP	05 33 19.3
	Um	iP	05 33 18.7
	Ud	iP	05 33 31.0
	De	iP	05 33 29.0

1976
May 5

Up	iP	06 12 19.6	
Ud	iP	06 12 21.4	

" 5	Up	iPKP1	08 44 11.6
	Sk	iPKP1	08 44 05.0
	Um	iPKP1	08 44 00.0
	Ud	iPKP1	08 44 13.6
	De	i	08 44 26.2

Kermadec Islands.

" 5	Up	iP	13 16 38.8
			micr sec
		P	Z' 0.1 1.3

" 5	Up	iP	13 37 14.1
	Ud	iP	13 37 20.3

Kurile Islands (h = 20 km).

" 5	Up	i	13 52 35.5
	Sk	e	13 52 26
	Um	i	13 52 15.2
	Ud	iPKP1	13 52 25.7
		i	13 52 32.2
		i	13 52 39.3

" 5	Up	eP	15 07 20
	Ud	iP	15 07 28.0

Philippine Islands (h = 15 km).

" 5	Up	iP	16 32 22.9
	Ki	iP	16 31 56.4
	Um	iP	16 32 06.8
	Ud	iP	16 32 31.4

Ryukyu Islands (h = 15 km).

" 5	Up	iP	19 23 30.0

" 5	Up	ePKP1	20 14 32
	Um	iPKP1	20 14 19.2

" 5	Up	iP	20 53 27.6

" 5	Up	ePKP1	21 54 12
		i	21 54 14.8
	Sk	iPKP1	21 54 03.7
	Um	iPKP1	21 53 58.6
	Ud	ePKP1	21 54 13
	De	iPKP2	21 54 31.3

Kermadec Islands.

" 5	Up	iPKP1	23 09 09.0
		i	23 09 17.2
	Sk	iPKP1	23 09 02.5
		i	23 09 10.1

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 5 (cont.)

Um	iPKPl	23 08 57.0	
Ud	iPKPl	23 09 11.2	
	iPKP2	23 09 15.7	
De	iPKPl	23 09 19.5	
	i	23 09 27.0	

Kermadec Islands (h = 50 km).

" 6	Up	iPKPl	00 50 06.3	
			micr sec	
		PKPl Z'	0.1 1.2	
	Ki	iPKP	00 49 49.5	
	Sk	iPKPl	00 49 59.7	
		i	00 50 15.5	
	Um	iPKPl	00 49 54.6	C
	Ud	iPKPl	00 50 08.5	C
		iPKP2	00 50 13.2	
	De	iPKPl	00 50 16.2	
		iPKP2	00 50 26.8	

Kermadec Islands.

" 6	Um	iP	01 13 17.4
	Ud	iP	01 13 43.8

" 6	Up	iP	01 27 25.6
	Ki	eP	01 27 56
	Sk	eP	01 27 56
	Um	iP	01 27 37.0
	Ud	iP	01 27 39.3
	De	iP	01 27 25.3

Arabian Sea (h = N).

" 6	Ud	iP	08 03 23.2

" 6	Up	iP	08 30 15.7
	Um	iP	08 30 11.4
	Ud	iP	08 30 31.1
	De	eP	08 30 30

Tibet-India (h = 50 km).

" 6	Ud	iP	08 57 00.8
	De	iP	08 56 57.4
		i	08 57 11.2

" 6	Ud	iP	10 46 05.3
		i	10 46 18.2

" 6	Up	iRg	11 37 11.0
	Ud	iSgl	11 37 53.5
	De	eSgl	11 38 47

East-central Sweden.
Near-surface event.

" 6	Up	iPKPl	13 50 24.1
	Ki	iPKP	13 50 07.4

(cont.)

1976
May 6 (cont.)

Sk	iPKPl	13 50 16.8	
	i	13 50 31.0	
Um	iPKPl	13 50 11.8	C
Ud	iPKPl	13 50 25.6	C
	iPKP2	13 50 30.6	
De	iPKPl	13 50 33.6	
	iPKP2	13 50 43.8	

Kermadec Islands (h = N).

" 6	Sk	ePKPl	13 54 24
	Um	iPKPl	13 54 17.8
	Ud	iPKPl	13 54 32.0
	De	iPKP2	13 54 51.3

Kermadec Islands.

" 6	Up	iPKPl	14 54 25.7
		i	14 54 35.5
	Sk	iPKPl	14 54 20.0
		i	14 54 36.0
	Um	iPKPl	14 54 14.0 C
		i	14 54 26.8
	Ud	iPKPl	14 54 27.6
		iPKP2	14 54 32.6
	De	iPKPl	14 54 36.0
		i	14 54 44.4

Kermadec Islands (h = N).

" 6	Up	iPKPl	15 07 56.6
	Sk	iPKPl	15 07 50.7
	Um	iPKPl	15 07 44.8
	Ud	iPKPl	15 07 58.5
		iPKP2	15 08 03.3
	De	iPKPl	15 08 07.0
		iPKP2	15 08 17.7

Kermadec Islands (h = N).

" 6	Up	iPKPl	15 50 02.6
	Um	iPKPl	15 49 50.6
	Ud	iPKPl	15 50 04.4
		iPKP2	15 51 09.1

Kermadec Islands.

" 6	Up	i	17 01 14.1
	Ki	iP	17 00 49.3
	Um	iP	17 00 48.0
	Ud	iP	17 01 13.6
	De	i	17 01 24.5

Sinkiang, China (h = 30 km).

" 6	Up	iP	17 53 41.9
	Ki	iP	17 52 56.7
	Um	iP	17 53 17.0
	Ud	iP	17 53 48.0
	De	eP	17 54 06

Kurile Islands (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 6 Up iP 18 04 26.9 C
micr sec
P Z' 0.1 1.2
Ki iP 18 05 35.8
Sk iP 18 05 05.7 C
Um iP 18 05 00.0
Ud iP 18 04 34.2 C
De iP 18 04 01.0 C
Crete (h = 45 km).

" 6 Up iP 18 15 56.1
Um iP 18 15 45.1
Ud iPKP1 18 15 56.5
iPKP2 18 16 00.6
De iPKP1 18 16 06.0
Kermadec Islands.

" 6 Up iP 20 02 25.5
Ki iP 20 03 58.9
micr sec
P Z' 0.1 1.2
Sk iP 20 03 09.0
Um iP 20 03 16.8
Ud iP 20 02 25.4
i 20 02 30.3
De iP 20 01 31.4
Austria (h = N).

" 6 Up iP 20 03 28.5 C
i 20 03 30.3
i 20 03 34.3
iS 20 06 28
micr sec
P Z' 0.2 1.3
i Z' 0.7 1.1
i Z' 2.3 1.1
Ki iP 20 05 06.4 C
iS 20 09 12
micr sec
P Z' 4.5 1.0
Sk iP 20 04 14.3 C
Um iP 20 04 21.0 C
i 20 04 22.3
iS 20 07 45
Ud iP 20 03 29.0 C
i 20 03 30.9
De iP 20 02 38.9 C
Austria (h = 10 km).
m = 6.8 (Up,Ki).

" 6 Ud i 20 31 42.5
De i 20 29 47.8
iLg2 20 30 27.2
Austria (h = N).

1976
May 6 Up iP 21 10 58.7
i 21 11 05.7
iS 21 13 24.3
i 21 13 56.2
iLg2 21 15 05.7
Ki iP 21 12 35.3
Sk eP 21 11 44
Um iP 21 11 50.2
i 21 11 53.0
Ud iP 21 11 00.3
i 21 11 07.6
i 21 14 40.2
iLg2 21 15 09.6
De iP 21 10 07.7
iS 21 12 02.1
Austria (h = N).

" 6 Up i 21 49 03.3
iLg2 21 49 36.7
De iLg2 21 47 39.6
Austria (h = N).

" 6 Up i 21 53 06.0
i 21 55 46.4
i 21 56 30.5
iLg2 21 57 01.1
Ki iP 21 54 31.4
Sk iP 21 53 45.9
Um iP 21 53 52.8
i 21 54 04.9
Ud i 21 53 05.5
i 21 56 26.1
iLg2 21 57 16.2
De iP 21 52 06.7
i 21 53 40.1
iLg1 21 55 01.4
Austria (h = N).

" 6 Up iLg2 23 14 26.9
Ud iLg2 23 14 37.6
De eP 23 09 31
i 23 11 49.5
i 23 12 45.9
Austria (h = N).

" 6 Up iPKP1 23 43 57.5 C
i 23 44 08.5
micr sec
PKP1 Z' 0.1 0.9
Um iPKP1 23 43 46.1
Ud iPKP1 23 43 59.2 C
i 23 44 09.4
De iPKP1 23 44 08.2 C
Kermadec Islands (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 May	7	Up	iP		00 17 35.7	
		Ki	iP		00 17 49.8	
		Um	iP		00 17 36.1	
		Ud	iP		00 17 53.0	
		De	iP		00 17 48.2	
		Uzbek SSR (h = N).				
"	7	Up	iP		00 27 07.9	
			i		00 27 10.6	
			i		00 27 15.3	
			i		00 30 53.0	
			iLgl		00 31 10.8	
					micr	sec
			P	Z'	0.1	1.2
			i	Z'	0.1	1.1
			Mx	E	1.3	8
			Mx	N	2.8	1.3
			Mx	Z	6.0	9
		Ki	iP		00 28 43.2	
			iS		00 32 45.1	
			iLgl		00 35 31.0	
					micr	sec
			P	Z'	0.2	1.4
			Mx	E	1.8	7
			Mx	N	2.5	8
			Mx	Z	2.9	9
		Sk	iP		00 27 52.4	
			i		00 31 36.6	
			iLgl		00 33 15.6	
		Um	iP		00 27 58.4	
			i		00 28 01.1	
			i		00 31 40.9	
		Ud	iP		00 27 06.3	
			i		00 27 11.0	
			i		00 27 20.0	
			i		00 29 50.3	
		De	iP		00 26 15.9	
			i		00 28 00.6	
		Italy (h = N).				
		m = 5.4 (Up,Ki).				
"	7	Up	iP		01 40 59.2	
		Ki	iP		01 41 08.8	
		Um	iP		01 40 57.3	
		Ud	eP		01 41 15	
		De	eP		01 41 14	
		Afghanistan-USSR (h = 90 km).				
"	7	Up	iP		01 57 03.4	
"	7	Up	iP		02 05 52.8	
"	7	Up	eP		04 22 21	
		Ud	iP		04 22 20.8	
			i		04 22 31.8	
		Aleutian Islands (h = 55 km).				

1976 May	7	Up	iPKP1	04 30 19.5
		Ud	iPKP1	04 30 21.7
		De	iPKP1	04 30 30.2
"	7	Up	iP	04 45 08.0
		Ud	iP	04 45 13.5
"	7	Up	iP	05 24 13.7
			ipP	05 24 48.5
		Ki	iP	05 24 19.6
			ipP	05 24 56.3
		Um	iP	05 24 19.0
		Ud	iP	05 24 04.8
			ipP	05 24 40.6
		De	iP	05 24 04.1
		Peru-Brazil.		
		h = 140 km (Up,Ki,Ud).		
"	7	Ud	iP	05 47 54.9
		Leeward Islands (h = N).		
"	7	De	i	06 06 45.3
			iLg2	06 07 42.7
		Austria (h = N).		
"	7	De	iP	09 43 42.6
			i	09 43 47.9
			iLg2	09 46 52.6
		Italy (h = N).		
"	7	De	i(P)	11 20 29.0
"	7	Up	i(P)	13 20 07.9
"	7	Ud	iLg2	13 50 17.6
		De	eP	13 45 21
			i	13 47 39.2
			iLg2	13 48 11.4
		Austria (h = N).		
"	7	Up	iPKP1	14 24 15.6
		Ud	iPKP1	14 24 16.4
		De	iPKP1	14 24 27.4
			i	14 24 33.0
			i	14 24 39.8
		Tonga Islands (h = N).		
"	7	De	eP	16 30 09
"	7	De	iLg2	20 18 14.7
		Austria (h = N).		
"	7	Sk	i	21 37 41.9
		Um	iPKP1	21 37 28.6
			i	21 37 36.4
		Ud	iPKP1	21 37 42.7
		De	iPKP2	21 37 58.5

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
May	7	Ud	iP		22 56 22.6
"	7	Um	iP		23 10 40.2
		Turkey (h = N).			
"	7	De	iPKP		23 23 31.3
		Tonga Islands (h = 20 km).			
"	8	Up	iP		00 22 33.2
					micr sec
			P	Z'	0.1 1.1
		Ki	iP		00 21 11.1
			i		00 21 20.9
			iS		00 22 37.2
					micr sec
			P	Z'	0.1 0.7
			i	Z'	0.2 0.9
			Mx	E	4.9 17
			Mx	N	1.1 15
			Mx	Z	2.4 16
		Sk	iP		00 21 34.6
			iS		00 23 19.3
		Um	iP		00 21 54.6
			i		00 21 56.6
		Ud	iP		00 22 22.6
			i		00 22 35.6
		De	iP		00 23 08.8
		Norwegian Sea (h = N).			
"	8	Up	iP		03 13 25.8
			i		03 16 20.2
			i		03 16 25.8
			iLg2		03 17 32.5
		Um	iP		03 14 17.1
		Ud	i		03 13 33.0
			i		03 13 41.3
			i		03 16 36.5
			iLg2		03 17 28.9
		De	iP		03 12 32.5
			i		03 14 40.9
			i		03 15 10.3
			iLg2		03 15 42.9
		Austria (h = N).			
"	8	De	iP		03 40 08.8
"	8	Up	iP		05 45 12.5
		Um	iP		05 45 06.9
		Ud	iP		05 45 21.4
		Java (h = 90 km).			
"	8	Up	i		10 38 10.5
			iRg		10 38 14.0
		Um	iSgl		10 39 54.5
		Ud	iSgl		10 37 56.9
		(cont.)			

1976				
May	8	(cont.)		
		Ud	iRg	10 38 01.7
		De	iSgl	10 39 17.6
		Central Sweden,		
		59.8°N, 15.3°E.		
		Origin time = 10 37 31.		
		Near-surface event.		
"	8	Up	iP	10 39 42.8
		Ud	iP	10 39 50.2
		Mindanao (h = 80 km).		
"	8	Up	eP	11 35 33
		Ki	iP	11 34 34.7
			ipP	11 34 38.8
		Um	ipP	11 35 08.0
		De	ipP	11 35 57.7
		Alaska.		
		h = 15 km (Ki).		
"	8	Um	iP	16 47 45.9
		Ud	i	16 48 26.6
"	8	Up	iP	17 07 42.3
		Ud	iP	17 07 42.0
"	8	Ud	iP	18 25 44.2
"	8	Up	i	20 46 59.0
			iLgl	20 47 44.1
		Ki	eP	20 45 25
		Ud	eP	20 43 47
			eS	20 46 38
		De	eP	20 43 00
			i	20 45 21.5
		Austria (h = N).		
"	8	Up	e(PKP)	21 25 49
		Um	i(PKP)	21 25 32.0
			i(PKP)	21 25 39.8
			iPKP	21 25 47.9
		Ud	e(PKP)	21 25 44
			iPKP	21 25 59.4
		De	iPKP	21 26 06.0
"	8	Up	iP	23 14 03.8
		Ki	iP	23 14 04.2
		Um	iP	23 14 00.8
		Ud	iP	23 14 14.2
		De	iP	23 14 12.2
		Sumatra (h = 35 km).		
"	8	Up	iP1	23 29 57.5
			iP2	23 29 59.7
			i	23 30 09.0
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 8 (cont.)

Up	iS		23 34 05		
			micr	sec	
	P2	Z'	0.2	1.4	
	Mx	E	1.1	10	
	Mx	N	0.9	10	
	Mx	Z	1.5	11	
Ki	iP2		23 31 07.3		
	i		23 31 33.1		
			micr	sec	
	P2	Z'	0.1	1.3	
	Mx	E	1.0	10	
	Mx	N	0.9	11	
Sk	iP2		23 30 42.6		
	i		23 30 57.8		
Um	iP1		23 30 30.1		
	iP2		23 30 31.6		
	iS		23 35 05		
Ud	iP2		23 30 11.3		
	i		23 30 16.6		
De	iP1		23 29 37.3		
	iP2		23 29 40.1		

Turkey (h = 35 km).
m = 5.5, M = 4.8 (Up,Ki).

" 9	Up	iP		00 57 00.7	
		i		00 57 05.2	
		iS		00 59 31.6	
		i		00 59 59.5	
		i		01 01 23.4	
				micr	sec
		P	Z'	0.1	1.0
		Mx	E	2.1	8
		Mx	N	5.8	9
		Mx	Z	8.7	9
	Ki	iP		00 58 38.5	C
		i		00 58 45.2	
		i		01 03 16.3	
		iLg2		01 05 22.2	
				micr	sec
		P	Z'	0.4	1.2
		Mx	E	3.3	10
		Mx	N	4.0	9
		Mx	Z	4.6	9
	Sk	iP		00 57 45.2	
		i		00 57 49.2	
		i		00 57 53.6	
		i		01 01 41.3	
		i		01 02 11.1	
		iLg1		01 03 17.2	
	Um	iP		00 57 53.0	
		i		00 57 56.5	
		i		01 02 19.5	
		iLg2		01 03 25.5	

(cont.)

1976
May 9 (cont.)

Ud	iP		00 57 01.9	
	i		00 57 05.4	
	i		00 57 13.6	
	i		00 59 41.2	
	iLg2		01 01 10.8	
De	iP		00 56 11.4	
	i		00 56 15.6	
	i		00 57 55.7	
	iS		00 58 07.8	

Austria (h = 15 km).
m = 5.7 (Up,Ki).

" 9	Up	iP		03 01 46.3
	Um	iP		03 01 16.2
	Ud	iP		03 00 58.1

Turkey (h = N).

" 9	Up	i(P)		05 42 24.2
" 9	Up	iP		05 59 03.6
	Ud	iP		05 59 06.9

Greece.

" 9	Ud	iP		06 06 27.9

Venezuela (h = 60 km).

" 9	Up	iP		06 56 08.1
	Um	iP		06 55 51.2
	Ud	iP		06 56 14.5
" 9	Up	iP		07 58 04.7
		ipP		07 58 08.8
		iPP		07 59 17.9
				micr sec
		pP	Z'	0.1 1.1
	Ki	ipP		07 58 23.5
	Sk	ipP		07 58 38.1
		iPP		08 00 02.3
	Um	iP		07 58 05.7
		ipP		07 58 09.6
		i		07 58 50.1
	Ud	iP		07 58 22.6
		ipP		07 58 26.6
		i		07 59 02.8
		i		07 59 32.5
	De	iP		07 58 17.3
		ipP		07 58 21.3
		iPP		07 59 36.4

Uzbek, USSR.
h = 15 km (Up,Um,Ud,De).

" 9	Up	iP		08 03 33.7
	Ki	iP		08 03 33.6
		ipP		08 03 50.1

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 9 (cont.)

			micr	sec
Ki	P	Z'	0.1	1.0
Sk	iP		08 03 47.2	
Um	iP		08 03 31.1	
	ipP		08 03 48.4	
Ud	iP		08 03 43.5	
	ipP		08 04 01.8	
De	iP		08 03 41.9	

Sumatra.
h = 60 km (Ki,Um,Ud).

" 9	Up	iPKPl	09 04 55.4
	Um	iPKPl	09 04 43.9
	Ud	iPKPl	09 04 57.3
" 9	Up	iP	11 04 04.4
" 9	Up	i	11 15 51.5
	Sk	i	11 15 42.6
	Um	iPKPl	11 15 24.2
		i	11 15 35.1
	Ud	iPKPl	11 15 37.4
		i	11 15 53.3
	De	i	11 15 59.1
" 9	Up	iP	11 24 39.5
	Um	iP	11 25 10.1
	Ud	iP	11 24 49.1
	De	iP	11 24 18.2

Turkey (h = 10 km).

" 9	Up	iP	13 25 59.7
	Um	iP	13 25 37.5
	Ud	iP	13 26 06.4

Japan (h = 30 km).

" 9	Up	iP	15 06 09.3
		i	15 06 16.6
	Um	iP	15 06 42.7
		i	15 06 47.7
	Ud	iP	15 06 22.5
		i	15 06 26.0
	De	iP	15 05 48.9
		i	15 05 53.0

Turkey (h = 25 km).

" 9	Up	iPKPl	16 40 09.3
	Ud	iPKPl	16 40 11.1
" 9	Up	iP	20 39 57.7
		i	20 40 26.9
	Ki	iP	20 39 24.4
	Sk	eP	20 39 55
	Um	iP	20 39 38.7

(cont.)

1976
May 9 (cont.)

	Ud	iP	20 40 05.2
	De	iP	20 40 17.5

Japan (h = 390 km).

" 9	Up	iPKP	21 03 29.7	
		ipPKP	21 03 39.3	
	Ki	iPKP	21 03 18.5	
		ipPKP	21 03 27.4	
	Sk	iPKP	21 03 29.1	
	Um	iPKP	21 03 23.6	C
		ipPKP	21 03 33.0	
		iPP	21 04 19.0	
	Ud	iPKP	21 03 31.8	
		ipPKP	21 03 41.9	
		iPP	21 04 55.7	
	De	iPKP	21 03 37.5	
		ipPKP	21 03 47.3	

Solomon Islands.
h = 30 km (Up,Ki,Um,Ud,De).

" 9	Up	iPKP	22 07 16.8
	Um	iPKP	22 07 10.2
	Ud	iPKP	22 07 19.3
	De	iPKP	22 07 24.4

Solomon Islands (h = 25 km).

" 9	Up	iPKP	22 08 34.1
	Ud	iPKP	22 08 36.4
	De	iPKP	22 08 41.7

Solomon Islands.

" 9	Sk	iPKPl	23 41 25.6
	Um	iPKPl	23 41 20.9
	Ud	iPKPl	23 41 34.6
" 10	Up	iPKPl	02 22 35.0
	Ud	iPKPl	02 22 37.5
	De	iPKPl	02 22 47.8
" 10	Up	eP	04 39 12
		i	04 39 19.0
		i	04 42 27.0
		iLg2	04 43 23.1
	Ki	iP	04 40 49.9
	Sk	eP	04 39 59
		iLg2	04 45 20.4
	Um	iP	04 40 03.5
		iLg2	04 45 36.6
	Ud	iP	04 39 14.1
		i	04 39 23.8
		i	04 42 14.9
		iLg2	04 43 19.7
	De	iP	04 38 20.7
		iLg2	04 41 20.5

Austria (h = 30 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
May	10	Up	iLg2		05 16 22.3	
		Ud	eLg2		05 16 18	
		De	iLg2		05 14 19.7	
		Austria (h = N).				
"	10	Up	iP		07 30 57.7	
"	10	Ud	iP		08 19 43.7	
"	10	Up	iP		11 25 33.6	
		Ud	iP		11 25 46.2	
"	10	Up	iP2		12 06 25.2	
					micr	sec
			P2	Z'	0.3	1.8
		Ki	iP2		12 07 33.6	
					micr	sec
			P2	Z'	0.1	1.4
		Sk	eP2		12 07 10	
		Um	iP1		12 06 53.9	
			iP2		12 06 56.4	
			i		12 07 08.1	
		Ud	iP1		12 06 36.0	
			iP2		12 06 38.7	
			i		12 06 42.9	
			i		12 06 51.8	
		De	iP1		12 06 02.0	
			iP2		12 06 05.8	
		Turkey (h = 30 km).				
		m = 5.4 (Up,Ki).				
"	10	Ud	iP		15 06 38.8	
"	10	Up	i(P)		15 11 00.2	
"	10	Um	iP		15 26 12.2	
		Ud	iP		15 25 54.0	
		Turkey (h = N).				
"	10	Up	iP		15 50 31.5	
"	10	Ud	iP		17 11 45.9	
"	10	Ud	eP		18 46 49	
"	10	Up	iP		18 53 01.5	C
			ipP		18 53 07.8	
					micr	sec
			pP	Z'	0.1	1.0
		Ki	iP		18 53 03.7	C
		Sk	iP		18 53 22.8	
			ipP		18 53 29.6	
		Um	iP		18 52 57.4	C
		(cont.)				

1976						
May	10	(cont.)				
		Um	ipP		18 53 03.6	
		Ud	iP		18 53 16.6	C
			ipP		18 53 22.8	
		De	i		18 53 18.8	
			i		18 53 24.3	
			iPP		18 55 23.0	
		Nepal.				
		h = 20 km (Up,Sk,Um,Ud).				
"	10	Up	iP		23 59 02.5	
		Sk	eP		23 59 48	
		Um	iP		23 59 35.1	C
		Ud	iP		23 59 15.0	
		De	iP		23 58 42.7	
		Turkey (h = 40 km).				
"	11	Up	iP1		02 45 19.9	
			iP2		02 45 25.1	
		Ki	iP1		02 45 01.6	
		Sk	iP1		02 45 23.5	
		Um	iP2		02 45 14.7	
		Ud	iP1		02 45 27.7	
			iP2		02 45 33.5	
		Mindanao (h = 110 km).				
"	11	Up	iP		03 36 52.6	
		Sk	iP		03 37 38.0	
		Um	iP		03 37 25.8	
		Ud	iP		03 37 05.3	
		De	iP		03 36 33.1	
		Turkey (h = N).				
"	11	De	iLg2		05 37 26.1	
		Austria (h = N).				
"	11	Ud	iP		07 21 22.3	
"	11	Up	iPKP		10 17 32.2	
		Ki	i(PKP)		10 17 08.6	
			iPKP		10 17 22.5	
		Sk	il		10 17 42.4	
		Ud	iPP		10 19 00.5	
		De	iPKP		10 17 40.5	
			il		10 17 49.5	
		Solomon Islands (h = N).				
"	11	Up	iRg		10 26 19.1	
		Regional near-surface event.				
"	11	Up	i		10 28 44.7	
			iRg		10 28 46.6	
		Regional near-surface event.				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
May	11	Up	i		10 29 58.3
			iRg		10 29 59.8
		Regional near-surface event.			
"	11	Ud	iPKP		10 41 17.6
		De	iPKP		10 41 22.9
		Solomon Islands (h = 20 km).			
"	11	Up	iPKPl		11 48 47.4
					micr sec
			PKPl	Z'	0.1 1.2
		Ki	iPKPl		11 48 45.4
			i		11 48 47.8
			i		11 49 04.1
					micr sec
			PKPl	Z'	0.1 1.0
			i	Z'	0.2 0.9
			i	Z'	0.4 1.5
		Sk	iPKPl		11 48 53.9
		Um	iPKPl		11 48 44.8
			i		11 48 48.7
		Ud	iPKP		11 48 48.4
			iPKPl		11 48 52.3
			iPKP2		11 48 56.6
			i		11 49 02.4
		De	iPKP		11 48 46.9
			iPKPl		11 48 51.4
			iPKP2		11 48 54.4
		South of Australia (h = N).			
"	11	Sk	iP		12 23 57.3
		Ud	iP		12 24 03.1
			i		12 24 07.7
"	11	Ki	iP		13 36 53.7
			i		13 37 10.6
		Philippine Islands (h = N).			
"	11	Up	iSgl		15 15 21.7
		Ud	i		15 15 49.3
			i(Sgl)		15 16 01.9
"	11	De	ePKP		15 16 24
			i		15 16 33.0
		Solomon Islands (h = 25 km).			
"	11	Up	iPKPl		16 10 21.5
			i		16 10 30.4
			il		16 11 13.0
					micr sec
			PKPl	Z'	0.2 1.5
			i	Z'	0.3 1.1
			il	Z'	1.7 2.0
		Ki	iPKPl		16 10 20.2
			i		16 10 22.2
		(cont.)			

1976					
May	11	(cont.)			
		Ki	i		16 10 41.2
			il		16 11 14.1
					micr sec
			PKPl	Z'	0.1 1.2
			i	Z'	0.7 1.7
			i	Z'	0.7 1.4
			il	Z'	1.7 1.8
		Sk	ePKPl		16 10 28
			i		16 10 29.8
			il		16 11 20.5
		Um	iPKPl		16 10 19.5
			i		16 10 21.3
			il		16 11 08.0
		Ud	iPKPl		16 10 27.8
			iPKP2		16 10 32.9
			i		16 10 38.9
			il		16 11 19.9
		De	iPKP		16 10 23.6
			iPKPl		16 10 27.7
			iPKP2		16 10 30.8
			il		16 11 14.6
		South of Australia (h = N). il-phases possibly originate from another shock in the same focal area.			
"	11	Ud	iP		16 56 00.9
		De	iP		16 56 26.2
		Alaska (h = 70 km).			
"	11	Up	iPl		17 04 42.6
			iP2		17 04 46.5
			ipP2		17 04 51.3
			iS		17 08 49.3
					micr sec
			P2	Z'	0.2 0.8
			pP2	Z'	6.0 1.8
			Mx	E	46 10
			Mx	N	132 13
			Mx	Z	198 13
		Ki	iP2		17 05 58.6
			ipP2		17 06 04.6
			iS		17 11 06
					micr sec
			P2	Z'	0.3 1.3
			pP2	Z'	1.7 1.8
			Mx	E	59 10
			Mx	N	157 15
			Mx	Z	123 14
		Sk	iPl		17 05 23.0
			iP2		17 05 24.3
			iS		17 10 06.5
		Um	iP2		17 05 23.3
			iS		17 10 07.6
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 11 (cont.)

Ud	iP1		17 04 48.5	
	iP2		17 04 51.6	
	ipP2		17 04 56.8	
	iS		17 09 00.3	
De	iP1		17 04 11.9	
	iP2		17 04 14.2	
	iS		17 07 56.3	

Ionian Sea.
h = 20 km (Up,Ki,Ud).
m = 6.6, M = 6.7 (Up,Ki).

" 11

Up	iP		17 15 09.9	
	ipP		17 15 16.9	
	iS		17 19 13.8	
			micr sec	
	P	Z'	0.2 0.9	
	pP	Z'	0.4 0.8	
Ki	iP		17 16 23.3	C
	ipP		17 16 31.7	
			micr sec	
	P	Z'	0.2 1.2	
Sk	iP		17 15 49.0	C
Um	iP		17 15 47.0	
Ud	iP		17 15 15.4	
	ipP		17 15 23.2	
	iS		17 19 26.7	
De	iP		17 14 38.4	

Ionian Sea.
h = 30 km (Up,Ki,Ud).
m = 5.7 (Up,Ki).

" 11

Up	i		21 17 17.1
Sk	iP		21 17 44.8
	i		21 17 53.7
Ud	iP		21 17 10.8
	i		21 17 18.3
De	eP		21 16 35

Ionian Sea (h = N).

" 11

Up	iP		22 47 17.8
	iS		22 49 46.7
	i		22 50 17.2
	iLg2		22 51 38.5
			micr sec
	P	Z'	0.1 1.3
	Mx	N	2.3 9
	Mx	Z	4.1 11
Ki	iP		22 48 55.2
	iLg1		22 55 10.4
			micr sec
	P	Z'	0.5 1.7
	Mx	E	1.6 10
	Mx	N	2.0 9
	Mx	Z	1.4 9

(cont.)

1976
May 11 (cont.)

Sk	iP	22 48 03.2
	iLg2	22 53 33.9
	i	23 00 27.1
Um	iP	22 48 11.0
	i	22 48 12.7
	i	22 52 32.2
	iLg2	22 53 47.0
Ud	iP	22 47 18.6
	i	22 47 57.1
	i	22 50 04.7
	i	23 01 13.6
De	iP	22 46 27.3
	iS	22 48 17.9
	iLg2	22 49 33.5

Austria (h = 10 km).
m = 5.5 (Up,Ki).

" 11

Ud	iPKP1	23 08 00.4
De	iPKP1	23 08 10.9

" 12

Ud	iP		04 59 44.9

" 12

Up	iP		05 16 35.1
			micr sec
	P	Z'	0.1 1.5
Ki	iP		05 17 41.5
	i		05 17 42.8
			micr sec
	P	Z'	0.1 0.6
Um	iP		05 17 06.5
	i		05 17 10.5
Ud	iP		05 16 45.8
	i		05 17 50.0
De	iP		05 16 12.9

Turkey (h = 20 km).
m = 5.4 (Up,Ki).

" 12

Um	iP	07 01 17.8

" 12

Ud	iP	07 51 38.1
De	iP	07 51 35.5

Hindu Kush (h = 190 km).

" 12

Ud	iP	08 59 05.2

" 12

Ud	iP	10 03 27.9

Mexico (h = N).

" 12

De	iPKP1	11 03 53.0

Tonga-Kermadec Islands
(h = 200 km).

" 12

Ud	iP	12 08 22.8

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
May	12	Up	iPKPl	12 14 14.3
		Ud	iPKPl	12 14 15.9
"	12	Ud	iP	16 31 31.9
		Hindu Kush (h = 210 km).		
"	12	Up	iP	16 54 44.9
			ipP	16 54 58.2
		Ki	iP	16 54 46.3
			ipP	16 55 00.5
		Sk	iP	16 54 30.6
			ipP	16 54 45.1
		Um	iP	16 54 48.5
			ipP	16 55 02.5
		Ud	iP	16 54 34.6
			ipP	16 54 48.3
		De	iP	16 54 36.3
			ipP	16 54 50.3
		Colombia.		
		h = 50 km (Up,Ki,Sk,Um,Ud,De).		
"	12	Up	iP	16 56 06.2
		Ud	iP	16 56 12.8
"	12	Ud	iP	18 10 15.4
"	12	Up	iP	18 51 22.0
		Um	iP	18 50 56.9
"	12	Up	iP	20 01 48.9
		Sk	iP	20 01 22.4
		Um	iP	20 01 34.3
		Ud	iP	20 01 40.5
		Nevada.		
		Underground explosion.		
"	12	Ud	iP	21 45 42.0
"	12	Up	iPKP	23 25 55.9
			iPKPl	23 26 00.2
		Sk	iPKP	23 25 46.9
			iPKPl	23 25 51.0
		Ud	iPKP	23 25 58.3
			iPKPl	23 26 03.3
		De	iPKPl	23 26 12.2
"	13	Ki	iSgl	00 14 27.0
		Um	iSgl	00 16 15.3
		Finland-Sweden,		
		68.2°N, 23.3°E.		
		Origin time = 00 13 53.		
		M_L = 1.8 (Ki,Um).		
		By combination with Finnish station readings.		

1976				
May	13	Up	iP	00 48 46.4
			ipP	00 48 53.5
		Sk	iP	00 49 29.7
		Um	iP	00 49 27.4
			ipP	00 49 34.8
		Ud	iP	00 48 53.1
		De	eP	00 48 16
			i	00 48 25.3
		Greece-Albania.		
		h = 30 km (Up,Um).		
"	13	Up	iP	00 50 12.6
		Ki	iP	00 49 42.6
		Mariana Islands (h = 35 km).		
"	13	Um	iP	01 00 45.5
"	13	Up	ePKPl	03 27 22
		Ud	iPKPl	03 27 22.8
"	13	Up	iPKPl	05 51 20.9
			ipPKPl	05 51 32.5
		Sk	iPKPl	05 51 13.9
			ipPKPl	05 51 25.3
		Um	iPKPl	05 51 08.1
			ipPKPl	05 51 20.1
		Ud	iPKPl	05 51 22.5
			ipPKPl	05 51 34.0
		De	iPKPl	05 51 31.5
"	13	Up	iP	07 19 16.5
		Ki	iP	07 19 00.1
				micr sec
			P Z'	0.1 1.0
		Um	iP	07 19 05.8
		Ud	iP	07 19 24.3
		De	iP	07 19 29.7
		Banda Sea (h = 55 km).		
"	13	Up	iP	07 22 20.9
		Ki	iP	07 21 33.4
		Sk	iP	07 21 52.0
		Um	iP	07 20 59.1
		Ud	iP	07 22 16.2
		De	iP	07 22 37.8
		Queen Charlotte Islands (h = 25 km).		
"	13	Ki	iP	08 49 55.1
		Um	iP	08 50 15.4
"	13	Up	iPKPl	09 37 11.1
		Sk	ePKPl	09 37 06
		Um	iPKPl	09 36 59.8
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 13 (cont.)

	Ud	iPKP1	09 37 11.9
	De	iPKP1	09 37 23.9
" 13	Ud	iP	10 01 15.8
" 13	Um	iP	11 11 12.9
		ipP	11 11 25.4
	Ud	iP	11 11 39.8

Japan.
h = 45 km (Um).

" 13	Up	iSgl	12 46 52.5
		i	12 46 53.9
		iRg	12 47 02.4
	Um	iSgl	12 48 51.4
	Ud	iSgl	12 47 38.9
	De	iSgl	12 47 48.4

Off coast of Östergötland, Sweden.
Near-surface event.

" 13	Up	iLg2	13 12 24.1
	Ud	i	13 11 46.0
	De	iP	13 07 19.2
		iS	13 09 09.9
		iLg2	13 10 16.3

Austria (h = N).

" 13	Ud	iP	13 23 26.7

Turkey (h = 35 km).

" 13	Up	iP	14 35 24.7
	Ud	iP	14 35 28.8
" 13	Up	iP	14 52 48.7
	Sk	eP	14 53 27
	Ud	iP	14 52 54.8
		i	14 53 01.8

Ionian Sea (h = N).

" 13	Up	iP	17 54 31.0
	Ki	iP	17 54 01.7
	Sk	iP	17 54 28.5
	Um	iP	17 54 13.9
		ipP	17 55 06.4
	Ud	iP	17 54 37.2

Volcano Islands.
h = 220 km (Um).

" 13	Up	iP	20 40 18.3
	Sk	iP	20 40 13.8
	Um	iP	20 39 56.9
	Ud	iP	20 40 25.7

Japan (h = 60 km).

1976
May 13

	Up	iP	20 49 56.4
	Ki	eP	20 51 13
	Sk	iP	20 50 34.1
	Um	iP	20 50 32.1
	Ud	iP	20 50 02.0
		i	20 50 04.5
	De	iP	20 49 27.8

Greece (h = 50 km).

" 13	Up	iP	22 23 02.0
	Sk	iP	22 23 41.2
	Um	eP	22 23 40
		i	22 23 55.5
	Ud	iP	22 23 09.1
		i	22 23 15.2
	De	iP	22 22 31.9
		i	22 22 36.2

Ionian Sea (h = 50 km).

" 14	Ud	iP	00 54 02.2
" 14	Up	iP	01 28 25.1
	Um	iP	01 28 53.1
	Ud	iP	01 28 35.3

Turkey (h = 20 km).

" 14	Up	iP		06 36 22.1	D
		ipP		06 36 30.9	
		iS		06 44 55	
				micr	sec
		P	Z'	0.5	1.8
		pP	Z'	0.3	1.5
		Mx	E	1.8	19
		Mx	N	1.4	20
		Mx	Z	2.2	18
	Ki	iP		06 36 47.4	D
		ipP		06 36 56.0	
				micr	sec
		P	Z'	0.1	1.0
		pP	Z'	0.2	1.3
		Mx	E	2.6	20
		Mx	N	1.8	20
		Mx	Z	3.0	19
	Sk	iP		06 36 17.5	D
		ipP		06 36 26.3	
	Um	iP		06 36 38.3	D
		ipP		06 36 47.2	
		iS		06 45 43	
	Ud	iP		06 36 11.4	D
		ipP		06 36 20.1	
	De	iP		06 36 02.7	D
		ipP		06 36 11.2	

North Atlantic Ocean.
h = 30 km (Up,Ki,Sk,Um,Ud,De).
m = 6.1, M = 5.5 (Up,Ki).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
May	14	Up	iPKPl	07 59 41.7	C
			i	07 59 44.0	
		Sk	iPKPl	07 59 33.7	
		Ud	iPKPl	07 59 43.2	C
			i	07 59 46.2	
		De	iPKPl	07 59 52.7	C
		Kermadec Islands (h = N).			
"	14	Up	iPKPl	10 22 42.9	
		Sk	iPKPl	10 22 38.1	
		Um	iPKPl	10 22 31.7	
			i	10 22 35.7	
		Ud	iPKPl	10 22 44.9	
		De	ePKPl	10 22 54	
		Kermadec Islands (h = 45 km).			
"	14	Um	iP	11 11 41.7	
		Ud	iP	11 11 23.1	
		Turkey (h = 10 km).			
"	14	Up	iPKPl	11 55 42.1	
		Sk	iPKPl	11 55 34.5	
		Ud	iPKPl	11 55 43.4	
		De	iPKPl	11 55 52.8	
"	14	Up	eP	13 45 13	
		Ki	iP	13 45 02.0	
		Sk	iP	13 45 12.4	
		Um	iP	13 45 06.5	
		Ud	iP	13 45 15.5	
		De	iP	13 45 20.5	
		New Britain (h = 15 km).			
"	14	Up	iPKP	14 16 45.8	
			iPKPl	14 16 48.2	
			ipPKPl	14 17 55.1	
				micr	sec
			PKPl Z'	0.1	0.7
			pPKPl Z'	0.1	1.0
		Ki	iPKPl	14 16 26.6	
		Sk	iPKPl	14 16 40.9	
		Um	iPKP	14 16 35.3	
			iPKPl	14 16 36.9	
		Ud	iPKP	14 16 46.5	
			iPKPl	14 16 50.0	
			ipPKPl	14 17 57.0	
		De	iPKPl	14 16 59.0	
			iPKP2	14 17 06.5	
			ipPKPl	14 18 05.9	
		Kermadec Islands.			
		h = 270 km (Up,Ud,De).			
"	14	Ud	iP	16 12 43.0	
		Kurile Islands (h = 55 km).			

1976					
May	14	Up	iPKPl	16 48 03.8	
		Um	iPKPl	16 47 51.8	
		Ud	iPKPl	16 48 05.3	
"	14	Up	iP	20 51 20.1	C
			ipP	20 51 29.7	
				micr	sec
			P Z'	0.1	1.0
			pP Z'	0.1	1.0
		Ki	iP	20 50 37.1	
			i	20 50 45.5	
			i	20 50 51.1	
				micr	sec
			P Z'	0.1	1.1
			i Z'	0.1	1.4
		Sk	iP	20 51 11.6	
			ipP	20 51 21.2	
		Um	iP	20 50 56.1	C
			ipP	20 51 05.5	
		Ud	iP	20 51 26.8	C
			ipP	20 51 36.2	
		De	eP	20 51 43	
		Japan.			
		h = 35 km (Up,Ki,Um,Ud).			
		m = 5.9 (Up,Ki).			
"	14	Ud	iP	22 03 58.5	
"	15	Ud	iP	02 53 00.6	
		Dodecanese Islands (h = 45 km).			
"	15	Up	iP	03 08 47.5	
		Sk	iP	03 09 26.3	
		Um	iP	03 09 22.7	
		Ud	iP	03 08 54.4	
		De	iP	03 08 18.9	
		Greece (h = 50 km).			
"	15	Up	iLg2	04 33 41.3	
		Um	iP	04 30 33.0	
		Ud	i	04 32 42.7	
			iLg2	04 33 39.4	
		De	i	04 30 51.3	
			i	04 31 15.6	
			iLg2	04 31 51.0	
		Austria (h = N).			
"	15	Ud	iP	04 42 34.9	
"	15	Up	iPKP2	05 20 31.2	
		Ki	iPKPl	05 19 59.8	
		Sk	iPKPl	05 20 13.9	
		Um	iPKPl	05 20 08.2	
			iPKP2	05 20 13.8	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 15 (cont.)

Ud	iPKPl		05 20 21.1	

North Island, New Zealand
(h = 140 km).

" 15	Up	iP		08 19 29.2
		ipP		08 19 32.9
		iS		08 27 15.6
				micr sec
		pP	Z'	0.1 0.8
		Mx	E	0.7 13
		Mx	N	1.0 14
		Mx	Z	0.7 14
	Ki	iP		08 20 24.5
		ipP		08 20 28.1
				micr sec
		P	Z'	0.3 1.8
		Mx	E	1.2 14
		Mx	N	1.0 16
	Sk	iP		08 19 57.3
		ipP		08 20 01.1
	Um	iP		08 19 57.5 C
		ipP		08 20 01.1
	Ud	iP		08 19 31.7 C
		ipP		08 19 35.3
		iS		08 27 13.1
	De	iP		08 19 05.8
		ipP		08 19 09.9

Zaire.
h = 10 km (Up,Ki,Sk,Um,Ud,De).
m = 6.1, M = 5.2 (Up,Ki).

" 15	Up	iP	08 22 51.5
	Ki	iP	08 22 47.4
	Sk	iP	08 23 07.9
	Um	iP	08 22 45.9
	Ud	iP	08 23 04.4
	De	iP	08 23 04.7

Burma (h = 35 km).

" 15	Ud	iP	09 52 39.9
" 15	Um	iP	11 11 24.6
	Ud	iP	11 11 04.5

Turkey (h = N).

" 15	Ud	iP	15 51 04.7
" 15	Um	iP	18 45 44.2

Turkey (h = N).

" 15	Ud	iP	19 17 28.6

Ionian Sea.

" 15	Up	iP	19 40 40.2
	Ud	iP	19 40 48.5

1976
May 15

Up	i(PKP)		20 05 33.2
Ki	iPKP		20 05 30.7
Um	iPKP		20 05 37.7
Ud	i(PKP)		20 05 37.4
	iPKP		20 05 48.3
De	i(PKP)		20 05 46.7
	iPKPl		20 05 49.7

Fiji Islands (h = 530 km).

" 15	Up	eP		22 09 50
		i(PP)		22 12 49.3
		iPP		22 13 50.0
		iSKS		22 20 21
		iS		22 21 23
				micr sec
		Mx	E	7.7 20
		Mx	N	4.7 19
		Mx	Z	18 19
	Ki	iP		22 09 57.4
		iSKS		22 20 33.4
		iS		22 21 36.8
				micr sec
		P	Z'	0.1 1.3
		Mx	E	10 20
		Mx	N	12 20
	Sk	iP		22 09 39.4
		iPP		22 13 40.0
	Um	iP		22 09 58.4
		i		22 10 02.4
		i(PP)		22 13 18.4
		iPP		22 14 07.5
		iS		22 21 35
	Ud	iP		22 09 40.0
		i		22 09 44.3
		i(PP)		22 13 20.9
	De	iP		22 09 37.5
		i		22 09 41.6

Peru (h = N).
M = 6.6 (Up,Ki).

" 16	Ud	iP	08 07 54.1
" 16	Up	iP	08 46 02.0 C
		ipP	08 46 17.6
			micr sec
		P	Z' 0.2 1.5
		pP	Z' 0.1 0.8
	Ki	iP	08 45 18.5
		ipP	08 45 34.0
			micr sec
		P	Z' 0.1 1.2
		pP	Z' 0.1 1.0
	Sk	iP	08 46 32.9
		ipP	08 46 48.7
	Um	iP	08 46 42.7

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 16 (cont.)

Um	ipP		08 46 58.0
Ud	iP		08 45 54.7
	ipP		08 46 10.6
De	iP		08 46 14.2
	ipP		08 46 30.1

Vancouver Island.
h = 60 km (Up,Ki,Sk,Um,Ud,De).
m = 5.8 (Up,Ki).

" 16 Ud iP 12 17 28.6

" 16 Ud iP 14 07 17.0
Hindu Kush.

" 16 Ud iP 15 48 46.5

" 16

Up	iPKP1		17 12 17.4
	iPKP2		17 12 23.0
Sk	iPKP1		17 12 09.1
Um	iPKP1		17 12 05.0
Ud	iPKP1		17 12 18.0
	iPKP2		17 12 25.0
De	iPKP2		17 12 34.8

" 16 Ud iP 17 35 06.3

" 16

Up	ePKP		22 30 28	
			micr	sec
	PKP	Z'	0.1	1.7
Um	iPKP		22 30 27.7	
	iPKP2		22 31 18.1	
Ud	iPKP		22 30 25.8	
	iPKP2		22 31 09.1	
De	iPKP		22 30 26.1	
	iPKP2		22 31 10.9	

South Pacific Ocean (h = N).

" 17

Up	iP1		03 05 27.5	C
	iP2		03 05 28.3	
	iS		03 10 53	
			micr	sec
	P2	Z'	1.4	0.8
	Mx	E	235	13
	Mx	N	121	10
	Mx	Z	261	12
Ki	iP1		03 05 42.4	C
	iP2		03 05 42.9	
	iS		03 11 26	
			micr	sec
	P2	Z'	1.0	0.7
	Mx	E	181	12
	Mx	N	191	13
Sk	iP2		03 05 57.4	
Um	iP1		03 05 28.2	C

(cont.)

1976
May 17 (cont.)

Um	iP2		03 05 29.2
	iS		03 10 51
Ud	iP1		03 05 45.3	C
	iP2		03 05 46.2
De	iP2		03 05 39.7

Uzbek SSR (h = 10 km).
m = 6.9, M = 7.2 (Up,Ki).
Double P at Up, Ki, Um and Ud, in average 0.8 sec apart.

" 17

Up	iP	04 03 58.7
Ki	iP	04 04 13.9
Ud	iP	04 04 17.1

Uzbek SSR.

" 17

Up	iP	04 20 58.0
	i	04 21 03.5
Ki	iP	04 21 12.0
	i	04 21 19.1
Sk	e	04 21 31
Um	iP	04 20 57.9
Ud	iP	04 21 14.6
De	iP	04 21 09.3
	i	04 21 16.6

Uzbek SSR (h = N).

" 17

Up	iP	05 00 36.7
	i	05 01 21.8
Ki	iP	05 00 51.5
Sk	iP	05 01 05.9
	iPn	05 02 18.2
Um	iP	05 00 37.5
	iPn	05 01 37.8
Ud	iP	05 00 54.3
De	iP	05 00 49.2
	iPP	05 02 05.7

Uzbek SSR (h = N).

" 17

Ki	iP	06 00 18.8
Ud	iP	06 00 21.2

Uzbek SSR.

" 17

Up	iPKP1	11 01 29.5
Sk	iPKP1	11 01 26.4
Ud	iPKP1	11 01 30.1
De	iPKP2	11 01 54.4

" 17

Ki	iP	11 08 24.6
Ud	iP	11 08 30.5
De	iP	11 08 22.4

Uzbek SSR (h = N).

" 17 Up i(P) 14 51 59.7

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
May	17	Up	i	15 44 10.0
			i	15 44 19.7
		Um	iP	15 44 31.5
		Ud	iP	15 44 16.1
		De	iP	15 43 42.0
		Turkey (h = N).		
"	17	Up	iP	16 16 35.9
			i	16 16 42.3
			iS	16 19 02.8
			iLg2	16 20 51.0
				micr sec
			P Z'	0.1 1.3
		Ki	eP	16 18 10
			iLg1	16 24 45.0
				micr sec
			P Z'	0.1 1.4
		Sk	eP	16 17 19
			iLg2	16 22 37.2
		Um	iP	16 17 28.8
			iLg1	16 22 44.0
		Ud	iP	16 16 36.6
			i	16 19 59.4
			iLg2	16 20 44.3
		De	iP	16 15 42.7
			iS	16 17 34.6
		Austria (h = 35 km).		
		m = 5.2 (Up,Ki).		
"	17	Um	iP	16 47 53.3
"	17	Up	iP1	17 53 02.3
			iP2	17 53 06.9
		Ki	iP2	17 53 21.5
		Sk	iP2	17 53 36.0
		Um	iP2	17 53 07.7
		Ud	iP2	17 53 23.2
		De	iP2	17 53 18.9
		Uzbek SSR (h = 30 km).		
"	17	Up	iP	21 59 02.3
"	17	Up	iPKP2	22 15 27.8
		Ki	iPKP1	22 14 57.6
		Sk	ePKP1	22 15 11
		Um	iPKP1	22 15 07.5
		North Islands, New Zealand		
		(h = 55 km).		
"	17	Up	iP	22 28 33.3
				micr sec
			P Z'	0.1 1.2
		Ki	iP	22 27 37.9
		Sk	iP	22 28 15.2
		Um	iP	22 28 03.5
		(cont.)		

1976				
May	17	(cont.)		
		Ud	iP	22 28 36.1
		De	iP	22 28 57.9
		Kamchatka (h = 35 km).		
"	17	Up	iP	23 10 47.9
"	17	Ki	iP	23 19 30.2
		Sk	iP	23 19 50.6
		Um	iP	23 19 38.7
"	18	Ki	eP	00 09 26
		Um	iP	00 09 34.0
"	18	Up	iP	01 33 26.0
			i	01 36 11.4
			iLg2	01 37 46.1
		Ki	iP	01 35 03.2
		Sk	eP	01 34 08
		Um	iP	01 34 17.8
			iLg1	01 39 35.9
		Ud	iP	01 33 25.7
		De	iP	01 32 36.2
			iS	01 34 27.6
			iLg2	01 35 36.7
		Austria (h = N).		
"	18	Um	iP	01 38 18.9
"	18	Up	ePKP1	02 07 40
		Sk	iPKP1	02 07 37.0
		Ud	iPKP1	02 07 41.5
		De	ePKP1	02 07 53
"	18	Ki	iP	03 26 04.3
			i	03 26 14.9
		Sk	iP	03 26 29.0
		Um	iP	03 26 49.4
		Ud	iP	03 27 17.3
			i	03 27 28.6
		De	iP	03 28 02.8
"	18	Um	iP	03 51 14.4
"	18	Up	iP	04 23 11.0
			i	04 23 13.8
			iPP	04 24 29.0
		Ki	iP	04 23 26.2
			iPn	04 24 33.0
		Sk	iP	04 23 39.9
			iPn	04 25 00.9
		Um	iP	04 23 11.4
			iPn	04 24 18.6
		Ud	iP	04 23 28.9
			i	04 23 35.7
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 18 (cont.)

Ud	iPn	04 24 41.7	
	iPP	04 25 00.1	
	iSn	04 31 38.8	
De	iP	04 23 24.0	

Uzbek SSR (h = N).

" 18	Sk	el	05 14 19
	Um	iPKP	05 14 04.9
		il	05 14 14.2
	De	iPKP	05 14 22.4

New Hebrides Islands (h = 50 km).

" 18	De	iPKPl	05 21 00.2

Fiji Islands (h = 500 km).

" 18	Up	iP	06 24 30.5
	Ki	iP	06 24 10.3
	Sk	eP	06 24 44

				micr	sec
" 18	Up				
		Mx	E	2.1	22
		Mx	N	1.1	21
		Mx	Z	2.3	21
	Ki	iPKPl		06 24 57.0	
		iPKP2		06 25 13.2	
				micr	sec
		PKP2	Z'	0.1	1.3
		Mx	E	2.0	19
		Mx	N	2.3	19
		Mx	Z	1.1	18
	Ud	i		06 25 38.7	
	De	iPKP2		06 25 17.5	

West of Macquarie Island (h = N).
M = 6.1 (Up,Ki).

" 18	Ki	iPKPl	06 58 37.1
	Sk	iPKPl	06 58 54.2
	Um	iPKP	06 58 43.2
		iPKPl	06 58 49.0

North Island, New Zealand (h = N).

" 18	Up	iP	08 34 24.6
	Sk	iP	08 34 18.4
	Ud	iP	08 34 30.4
	De	iP	08 34 32.1

" 18	Up	iP	08 35 41.4
		il	08 35 52.4
	Ki	iP	08 36 49.3
		il	08 37 00.1

(cont.)

1976
May 18 (cont.)

			micr	sec
Ki				
	P	Z'	0.1	0.4
Sk	iP		08 36 20.2	
	il		08 36 30.7	
Um	iP		08 36 14.4	
	il		08 36 24.8	
Ud	iP		08 35 49.6	
	i2		08 36 12.9	
De	iP		08 35 16.2	
	i2		08 35 37.6	

Crete (h = 70 km).
il interpreted as pP yields a focal depth of 40 km (Up, Ki,Sk,Um), while i2 interpreted as pP yields a focal depth of 110 km (Ud,De).

" 18	Up	iPl	09 04 14.4
		iP2	09 04 17.1
		iPP	09 05 33.4

			micr	sec
	PP	Z'	0.1	1.0
Ki	iPl		09 04 29.4	
	iP2		09 04 32.3	
	iPn		09 05 37.4	
			micr	sec
	Pn	Z'	0.1	1.0
Sk	iPl		09 04 43.6	
	iP2		09 04 46.6	
	iPn		09 05 56.3	
Um	iPl		09 04 15.1	
	iP2		09 04 18.1	
Ud	iPl		09 04 31.9	
	iP2		09 04 35.1	
	iPn		09 05 39.2	
De	iPl		09 04 27.1	
	iP2		09 04 29.7	
	iPP		09 05 45.5	

Uzbek SSR (h = N).
Double P, in average 2.8 sec apart.

" 18	Up	iPKPl	10 29 53.6
	Ud	iPKPl	10 29 55.2
	De	iPKPl	10 30 05.2

" 18	Up	iPKPl	13 14 00.2
	Ki	iPKPl	13 13 33.2
	Sk	iPKPl	13 13 51.3
	Um	iPKPl	13 13 44.9
	Ud	iPKPl	13 13 58.7
	De	iPKPl	13 14 06.6

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 18 Up iP 14 01 08.4
iPn 14 02 11.3
Ki iP 14 01 23.0
i 14 02 25.4
iPn 14 02 37.2
Sk iP 14 01 37.5
iPn 14 02 57.8
Um iP 14 01 09.0
Ud iP 14 01 26.0
iPn 14 02 38.8
De iP 14 01 20.8
Uzbek SSR (h = N).

" 18 Up iP 14 41 38.3
Ki iP 14 41 06.7
Sk iP 14 41 37.5
Um iP 14 41 18.6
Ud iP 14 41 47.5
De iP 14 41 59.6
Japan (h = 35 km).

" 18 Ud iSgl 15 11 08.0
Southwest Norway,
60.0°N, 16.0°E.
Origin time = 15 09 08.
M_L = 2.1 (Ud).
By combination with Bergen and Kongsberg readings.

" 18 Ud iSgl 15 51 02.2
Southwest Norway,
60.0°N, 16.0°E.
Origin time = 15 49 02.
M_L = 2.4 (Ud).
By combination with Bergen and Kongsberg readings.

" 18 Up iP 16 03 37.5
Ud iP 16 03 47.0

" 18 Up eP 16 08 03
Sk iP 16 07 44.7
Um iP 16 08 01.9
i 16 08 06.8
Ud iP 16 07 52.5

" 18 Up iP 16 13 11.2
Um iP 16 12 52.9
Ud iP 16 13 19.7
Japan (h = N).

" 18 Up iP 16 20 40.8
(cont.)

1976
May 18 (cont.)
Ud eP 16 20 49
i 16 21 08.4
De i 16 20 18.9
Ionian Sea (h = N).

" 18 Up iSgl 16 37 33.1
Ud iSgl 16 36 35.7
Southwest Norway,
60.0°N, 16.0°E.
Origin time = 16 34 35.
M_L = 2.1 (Ud).
By combination with Kongsberg readings.

" 18 Up iSgl 16 39 20.8
Sk iSgl 16 38 49.3
Ud iSgl 16 38 22.0
Southwest Norway,
60.0°N, 16.0°E.
Origin time = 16 36 22.
M_L = 2.2 (Ud).
By combination with Kongsberg readings.

" 18 De iP 17 12 20.4

" 18 Up iP 17 26 03.0
Ud iP 17 26 08.0

" 18 Up iP 17 32 16.1
i 17 32 17.8
iS 17 41 30.6
micr sec
P Z' 0.1 0.9
i Z' 0.1 0.7
Ki iP 17 31 43.5
i 17 31 44.8
Sk eP 17 32 13
Ud iP 17 31 57.1
i 17 31 58.8
i 17 32 18.1
Ud iP 17 32 23.4
i 17 32 24.9
iS 17 41 45.7
De iP 17 32 36.1
i 17 32 37.7
iS 17 42 10.7
Japan (h = 450 km).
Double P at Up, Ki, Um, Ud and De, in average 1.5 sec apart.

" 18 Up iPKPl 17 52 07.9
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 18 (cont.)

	Sk	iPKP1	17 52 04.0
	Um	iPKP1	17 51 56.4
		i	17 52 13.9
	Ud	iPKP	17 52 03.7
		iPKP1	17 52 09.5
	De	iPKP2	17 52 29.5
" 18	Ud	iP	18 07 58.3
" 18	Up	iSgl	18 40 28.9
	Sk	iSgl	18 39 57.6
	Ud	iSgl	18 39 32.0

Southwest Norway,
60.0°N, 6.0°E.
Origin time = 18 37 31.
M_L = 2.2 (Ud).
By combination with Bergen and Kongsberg readings.

" 18	Up	iPKP1	20 36 45.9
	Ki	ePKP	20 36 18
	Um	iPKP1	20 36 29.8
		i	20 36 55.0
	Ud	iPKP1	20 36 46.4
	De	iPKP1	20 36 52.1
		iPKP2	20 37 02.1
" 18	Um	iP	21 15 32.3
" 18	Um	iP	21 16 26.0
	Ud	iP	21 16 00.2
		i	21 16 23.1
" 18	Up	iP	21 21 09.5
		i	21 21 14.2
	Ki	iP	21 20 51.3
	Sk	eP	21 21 15
	Um	iP	21 20 56.9
		i	21 21 02.3
	Ud	iP	21 21 18.6
	De	iP	21 21 24.0

Luzon (h = N).

" 18	Up	iP	23 15 01.3
	Ud	iP	23 15 07.2
		i	23 15 17.6

Ionian Sea.

" 19	Up	iP	01 18 06.0
	Ki	iP	01 18 20.1
	Sk	eP	01 18 36
	Um	iP	01 18 06.4
	Ud	iP	01 18 23.2
	De	iP	01 18 18.2

Uzbek SSR (h = N).

1976
May 19

Up	iP		02 39 34.0	
	ipP		02 39 52.0	
Ki	iP		02 39 17.5	
	ipP		02 39 33.3	
			micr	sec
	P	Z'	0.1	0.9
Sk	ipP		02 39 56.5	
Um	iP		02 39 22.4	
	ipP		02 39 40.2	
Ud	iP		02 39 42.3	
	ipP		02 40 00.4	
De	ipP		02 40 05.6	

Mindanao.
h = 60 km (Up,Ki,Um,Ud).

" 19	Up	iP	03 03 52.4	
	Ki	iP	03 03 37.2	
			micr	sec
	P	Z'	0.1	0.5
	Sk	iP	03 04 07.1	
	Um	iP	03 03 37.6	
	Ud	iP	03 04 09.1	
	De	iP	03 04 16.8	

Kazakh SSR.
Underground explosion.

" 19	Up	iP	04 19 47.9	D
		i	04 19 49.3	
		iX	04 20 37.6	
		iS	04 30 17.7	
			micr	sec
		P	Z' 0.4	1.2
		Mx	E 1.2	20
		Mx	N 1.0	19
		Mx	Z 1.4	20
	Ki	iP	04 19 49.9	D
		i	04 19 51.1	
		ipP	04 20 30.7	
		iS	04 30 20	
			micr	sec
		P	Z' 0.6	1.5
		Mx	E 1.2	21
		Mx	N 0.9	18
		Mx	Z 1.4	20
	Sk	iP	04 19 35.3	D
		i	04 19 36.7	
		ipP	04 20 15.7	
		iX	04 20 27.0	
	Um	iP	04 19 51.6	D
		i	04 19 52.9	
		ipP	04 20 32.5	
		iS	04 30 21	
	Ud	iP	04 19 38.3	D
		i	04 19 39.6	
		iX	04 20 29.9	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 19 (cont.)

De	iP	04 19 40.1 D
	i	04 19 41.6
	ipP	04 20 22.5
	iS	04 30 02.6

Colombia.
h = 170 km (Ki,Sk,Um,De).
m = 6.3, M = 5.4 (Up,Ki).
M not corrected for focal depth.
Double P, in average 1.4 sec apart.
The X-denoted phases arrive in average 51 sec after P1.

" 19

Um	iP	07 27 22.1

" 19

Up	iPKP1	08 08 01.1
Ud	iPKP1	08 08 03.7
De	iPKP1	08 08 13.0

" 19

Up	iP	10 17 28.9
Ki	eP	10 16 50
De	iP	10 17 56.1

Lake Baikal (h = 25 km).

" 19

Ki	iP	11 09 39.2
	i	11 11 40.3
Sk	iP	11 09 44.2
	iS	11 11 34.8
Um	eS	11 12 28
Ud	iP	11 10 30.0

Jan Mayen, near 71 1/2°N, 6°W.
Origin time = 11 07 22.

" 19

Up	iPKP2	15 47 21.5
Ki	iPKP2	15 47 23.4
Ud	iPKP2	15 47 29.2

Balleny Islands (h = N).

" 19

Up	iP	16 01 30.6
	ipP	16 01 35.6
	iPn	16 02 35.1
	iPP	16 02 46.7
	iSn	16 08 34.7
Ki	iP	16 01 45.6
	ipP	16 01 50.3
	i	16 02 47.8
	iPn	16 02 57.9
		micr sec
	Pn Z'	0.1 1.0
Sk	iP	16 01 59.5
	ipP	16 02 04.4
	iPn	16 03 17.3

(cont.)

1976
May 19 (cont.)

Ud	iP	16 01 48.2
	ipP	16 01 52.9
	iPn	16 03 02.0
	iSn	16 09 39.7
De	iP	16 01 42.9
	ipP	16 01 47.5

Uzbek SSR.
h = 15 km (Up,Ki,Sk,Ud,De).

" 19

Up	iP	16 28 29.8
Ki	iP	16 28 43.9
Ud	iP	16 28 47.3
	i	16 28 50.6
De	iP	16 28 42.1

Uzbek SSR (h = N).

" 19

Up	iSgl	16 47 08.2
Ud	iPgl	16 46 25.0
	iSgl	16 46 48.7
	iRg	16 46 59.0
De	iPgl	16 46 29.4
	iSgl	16 46 57.6

Central Sweden.
Origin time = 16 45 52.
Near-surface event.
Data not consistent.

" 19

Ud	iP	16 49 06.5

Greece (h = N).

" 19

Up	iP	17 56 16.7
	ipP	17 56 29.4
Ki	iP	17 56 08.0
		micr sec
	P - Z'	0.1 1.4
Sk	iP	17 55 57.8
	ipP	17 56 11.5
Ud	iP	17 56 06.3
	ipP	17 56 20.6
De	iP	17 56 11.7
	i	17 56 20.2

Caribbean Sea.
h = 50 km (Up,Sk,Ud).

" 19

Up	iPKP	19 25 12.3
	iSKP1	19 27 35.1
Ki	iPKP	19 24 58.2
	iSKP	19 27 15.2
Sk	iPKP	19 25 09.0
Ud	iPKP	19 25 14.5
	iSKP1	19 27 38.5
De	iPKP	19 25 20.1
	iSKP1	19 27 49.2

Santa Cruz Islands (h = 650 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
May	19	Ki	iPKP		19 28 11.3	
		Sk	iPKP		19 28 22.2	
		Ud	iPKP		19 28 28.4	
		De	iPKP		19 28 34.3	
		Santa Cruz Islands (h = 640 km).				
"	19	Up	iP		19 28 44.4	
		Ud	iP		19 28 48.4	
"	19	Up	iPKPl		19 30 21.8	
			i		19 30 39.2	
					micr	sec
			PKPl	Z'	0.1	1.0
			i	Z'	0.1	0.8
			Mx	E	1.0	18
			Mx	N	1.5	21
			Mx	Z	3.8	20
		Ki	ePKPl		19 30 03	
			i		19 30 14.3	
			i		19 30 25.2	
					micr	sec
			Mx	E	1.5	20
			Mx	N	3.2	20
			Mx	Z	3.4	19
		Sk	iPKPl		19 30 14.6	
			i		19 30 30.1	
		Ud	iPKP		19 30 18.4	
			iPKPl		19 30 23.5	
			i		19 30 36.2	
			i		19 30 44.1	
			i		19 30 50.2	
		De	iPKPl		19 30 31.8	
			iPKP2		19 30 45.5	
			i		19 30 49.4	
		Kermadec Islands (h = 70 km).				
		M = 6.0 (Up,Ki).				
		M not corrected for focal depth.				
"	19	Up	iPKPl		19 32 38.7	
		Sk	iPKPl		19 32 31.8	
		Ud	iPKPl		19 32 40.1	
			i		19 32 54.0	
		De	iPKPl		19 32 48.6	
		Kermadec Islands.				
"	19	Ud	iP		20 31 47.8	
"	19	Ud	iP		21 08 44.7	
"	19	Ud	iPKPl		22 50 05.5	
		De	iPKPl		22 50 15.6	
		Fiji Islands (h = 560 km).				
"	20	Ud	iP		01 09 36.1	

1976						
May	20	Up	iPKPl		02 45 04.3	
		Ud	iPKPl		02 45 06.9	
		De	iPKPl		02 45 17.4	
"	20	Up	iP		03 04 00.5	
		Ud	iP		03 04 18.0	
		De	eP		03 04 12	
"	20	Up	iPKP		05 18 31.2	
			i		05 21 06.5	
			iSKPl		05 21 38.8	
					micr	sec
			SKPl	Z'	0.2	2.0
		Ki	iPKP		05 18 17.1	
		Sk	iSKPl		05 21 29.4	
		Ud	i(PKP)		05 18 25.5	
			iPKP		05 18 32.0	
			iSKPl		05 21 39.6	
		De	i(PKP)		05 18 30.1	
			iPKP		05 18 39.2	
			iSKPl		05 21 48.6	
		Tonga Islands (h = 290 km).				
"	20	Ud	iP		06 50 47.6	
"	20	Ud	iP		11 36 04.8	
		Afghanistan-USSR (h = N).				
"	20	Up	iP		11 44 07.4	
"	20	Up	iSgl		12 51 23.2	
		Ki	iPgl		12 47 02.7	
			iSgl		12 47 36.5	
		Sk	i		12 49 18.2	
			iSgl		12 49 31.5	
		Um	iSn		12 48 54.2	
			iSgl		12 49 26.8	
		Ud	iSgl		12 51 22.8	
		De	iLgl		12 53 13.8	
		Off coast of north Norway, 69.8°N, 15.8°E.				
		Origin time = 12 46 15.				
		M_L = 3.1 (Up,Ki,Sk,Um,Ud).				
"	20	Up	iP		17 11 51.9	
		Ki	iP		17 11 22.3	
		Ud	iP		17 12 00.8	
"	20	Up	iRg		18 02 54.4	
		Ud	iRg		18 03 09.1	
		East-central Sweden.				
		Near-surface event.				
"	20	Ki	iP		19 52 48.1	
		Ud	iP		19 53 43.3	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
May	20	Up	iPKPl	20 46 47.8	
		Ki	ePKPl	20 46 27	
		Sk	iPKPl	20 46 42.8	
		Um	iPKPl	20 46 37.4	
		Ud	iPKPl	20 46 49.7	
		South of Kermadec Islands (h = 80 km).			
"	20	Up	iPKPl	22 21 09.7	
		Sk	iPKPl	22 21 03.1	
		Um	iPKPl	22 20 57.9	
		Ud	iPKPl	22 21 11.9	
		De	iPKPl	22 21 20.2	
"	20	Ud	i	22 27 11.6	
			iSKPl	22 29 19.6	
		Santa Cruz Islands (h = 660 km).			
"	21	Up	iP	01 41 48.1	C
			ipP	01 41 24.9	
				micr sec	
			P Z'	0.1 1.0	
		Ki	iP	01 41 30.6	C
			ipP	01 42 08.3	
		Sk	iP	01 41 53.6	
		Um	iP	01 41 36.2	
		Ud	iP	01 41 56.8	C
			i	01 42 21.0	
			ipP	01 42 34.7	
		Luzon. h = 150 km (Up,Ki,Ud).			
"	21	Up	iP	01 59 26.6	
			i	01 59 38.0	
		Ki	eP	01 58 56	
		Sk	eP	01 59 22	
			i	01 59 27.7	
		Um	iP	01 59 06.9	
			i	01 59 12.9	
		Ud	iP	01 59 21.8	
		De	iP	01 59 42.3	
"	21	Ud	iP	02 54 38.2	
		Gulf of California (h = N).			
"	21	Up	iP	03 11 00.3	
		Sk	iP	03 10 53.9	
		Um	iP	03 10 36.9	
			i	03 10 44.1	
		Ud	iP	03 11 00.5	
"	21	Up	iPl	04 24 19.2	
			iP2	04 24 22.3	
		(cont.)			

1976					
May	21	(cont.)			
		Up	i	04 24 33.2	
			ipP	04 25 02.9	
			iSKS	04 34 35.7	
			iS	04 35 12	
				micr sec	
			P2 Z'	0.2 1.1	
			Mx E	1.0 17	
			Mx N	3.6 20	
			Mx Z	2.2 20	
		Ki	iPl	04 24 03.7	
			iP2	04 24 06.9	
			ipP	04 24 48.3	
			iPP	04 27 50.6	
			iSKS	04 34 17	
			iS	04 34 43	
				micr sec	
			Pl Z'	0.1 1.0	
			P2 Z'	0.3 1.0	
			PP Z'	0.6 2.5	
			Mx E	4.1 21	
			Mx N	5.9 21	
		Sk	iPl	04 24 24.2	
			iP2	04 24 28.1	
			i	04 24 37.7	
			ipP	04 25 09.1	
		Um	iPl	04 24 08.4	
			iP2	04 24 12.0	
			ipP	04 24 52.9	
			iSKS	04 34 24	
			iS	04 34 53	
		Ud	iPl	04 24 27.3	
			iP2	04 24 30.9	
			i	04 24 39.9	
			ipP	04 25 12.4	
		De	iPl	04 24 32.8	
			iP2	04 24 35.8	
			i	04 24 42.1	
			iPP	04 28 39.9	
		Talaud Islands. h = 180 km (Up,Ki,Sk,Um,Ud). m = 6.3, M = 6.0 (Up,Ki). M not corrected for focal depth.			
"	21	Ud	iP	05 43 14.5	
		Northwest Territories, Canada (h = N).			
"	21	Ud	iP	06 37 46.9	
		Aleutian Islands (h = 30 km).			
"	21	Up	i(PKP)	07 00 33.3	
		Ki	ePP	07 01 05	
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 21 (cont.)

Ki			micr	sec
	PP	Z'	0.3	2.5
Sk	iPP		07 01 43.3	
Um	i(PKP)		07 00 32.3	
	iPKP		07 00 44.7	
Ud	ePP		07 01 53	
De	iPKP		07 00 56.4	

New Guinea (h = 130 km).

" 21	Up	iP		09 41 54.6
			micr	sec
		P	Z' 0.1	1.2
	Ki	eP		09 43 02
	Sk	iP		09 42 36.4
	Um	iP		09 42 26.2
	Ud	iP		09 42 06.4
		iPP		09 42 36.5
	De	iP		09 41 33.0
		i		09 41 42.8

Turkey (h = 30 km).

" 21	Up	iP	11 26 23.7
	Ki	iP	11 25 29.9
	Um	iP	11 25 55.9
	Ud	iP	11 26 21.7
		ipP	11 26 35.3
	De	iP	11 26 44.7

Aleutian Islands.
h = 50 km (Ud).

" 21	Ud	i(P)	12 04 33.6
" 21	Ki	iP	14 45 32.7
	Sk	iP	14 45 47.2
	Ud	iP	14 45 42.2
	De	iP	14 45 38.4
" 21	Up	iP	15 16 16.0
		iS	15 26 09
			micr sec
		Mx E	0.9 16
		Mx N	0.8 15
		Mx Z	0.9 16
	Ki	iP	15 15 39.5
			micr sec
		P Z'	0.1 1.0
		Mx E	1.2 14
		Mx N	0.8 14
		Mx Z	1.0 14
	Sk	eP	15 16 12
	Um	iP	15 15 55.2
		iS	15 25 31
	Ud	iP	15 16 21.9

(cont.)

1976
May 21 (cont.)

	De	iP	15 16 36.9

Japan (h = N).
M = 5.4 (Up,Ki).

" 21	Ud	iP	16 12 31.0
	De	iP	16 12 25.9

Uzbek SSR (h = N).

" 21	Up	iSgl	16 21 26.7
	Ud	i	16 20 20.7
		iSgl	16 20 28.5

Southern Norway.
By combination with Bergen reading.

" 21	Up	iP	16 37 59.7
	Ki	iP	16 37 23.7
	Um	iP	16 37 39.5
	Ud	iP	16 38 06.6
		i	16 38 13.9

Japan (h = N).

" 21	Um	iP	16 47 40.1
" 21	Um	iP	17 18 12.7
" 21	Up	iP	17 41 55.8
	Ki	iP	17 41 02.0
	Um	iP	17 41 28.4
	Ud	iP	17 41 56.7
" 21	Ud	iPKPl	17 59 40.5

Tonga-Kermadec Islands
(h = 610 km).

" 21	Ud	eP	18 10 21
" 21	Ud	i(P)	19 22 05.6
" 21	Ud	iPKPl	19 28 43.0
	De	iPKPl	19 28 54.4

Fiji Islands (h = 630 km).

" 21	Ud	iP	19 54 47.7
" 21	Ud	iP	19 58 40.6
" 21	Ki	iP	23 35 52.5
	Um	i	23 36 08.2
	Ud	iP	23 36 28.1
" 22	Up	eP	03 08 05
		i	03 08 43.8
	Ki	iP	03 07 46.3

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 22 (cont.)

Ki		micr	sec
	P Z'	0.1	0.9
Sk	iP	03 08	07.6
Um	iP	03 07	51.9
Ud	iP	03 08	11.1
	i	03 08	30.2

Mindanao (h = 110 km).

" 22	Ki	e(PKP)	03 18 30
		iPKP	03 18 41.5
	Sk	iPKP	03 18 50.8
	Um	iPKP	03 18 45.8
	Ud	iPKP	03 18 54.2
	De	iPKP	03 19 00.7

Solomon Islands (h = 120 km).

" 22	Um	iP	06 42 28.4
		i	06 42 41.9
" 22	Up	iPKP2	07 40 16.5
	Ud	iPKP2	07 40 19.7
	De	iPKP2	07 40 32.8
" 22	Ki	eP	08 13 12

Talaud Islands (h = 120 km).

" 22	Ki	iPKP	10 09 32.2
	Um	iPKP	10 09 39.0
	De	iPKP1	10 09 46.7
		iPKP	10 09 49.5

Loyalty Islands (h = 140 km).

" 22	Up	iPKP2	10 10 36.7
	Um	iPKP1	10 10 20.0
		ipPKP1	10 10 32.2
	Ud	iPKP1	10 10 32.9
		i	10 10 48.9

Kermadec Islands.
h = 45 km (Um).

" 22	Up	iPKP1	10 17 33.5
		iPKP2	10 17 38.3
		ipPKP2	10 17 45.5
	Sk	iPKP1	10 17 26.0
		ipPKP1	10 17 34.4
	Um	iPKP1	10 17 21.0
		ipPKP1	10 17 29.1
		i	10 22 07.4
	Ud	iPKP1	10 17 34.4
		i	10 17 47.8
	De	iPKP1	10 17 40.4

Kermadec Islands.
h = 25 km (Up,Sk,Um).

1976
May 22

Up	iPKP1	10 18	34.6
	iPKP2	10 18	38.4
	ipPKP1	10 18	43.6
	ipPKP2	10 18	47.9
		micr	sec
	pPKP2 Z'	0.1	0.8
Ki	ePKP1	10 18	16
	i	10 18	27.7
Sk	iPKP1	10 18	26.2
	ipPKP1	10 18	37.0
	i	10 18	40.7
Um	iPKP1	10 18	21.2
Ud	iPKP1	10 18	34.5
De	iPKP1	10 18	41.6
	ipPKP1	10 18	52.6

Kermadec Islands (h = N).
h = 30 km (Up,Sk,De).

" 22	Ki	iP	10 26 44.8
" 22	Up	iPKP	10 30 59.2
		iPP	10 31 57.3
		iPKKP	10 41 41.4
	Ki	iPKP	10 30 49.1
		iPP	10 31 18.6
		iPKKP	10 41 57.6
	Sk	iPKP	10 30 59.0
		iPP	10 31 54.8
	Um	iPKP	10 30 53.3
		iPP	10 31 36.1
		iPKKP	10 41 50.2
	Ud	iPKP	10 31 01.9
		iPP	10 32 06.9
	De	iPKP	10 31 06.8
		iPP	10 32 22.2
		iPKKP	10 41 29.3

New Britain (h = 170 km).

" 22	Up	ePKP1	10 35 06
	Um	iPKP1	10 34 51.9
	Ud	iPKP1	10 35 05.6

Kermadec Islands.

" 22	Sk	ipPKP1	11 03 11.0
	Um	iPKP1	11 02 55.6
		ipPKP1	11 03 07.7
	Ud	ipPKP1	11 03 19.4
	De	ipPKP1	11 03 27.2

Kermadec Islands.
h = 40 km (Um).

" 22	Up	iPKP	11 03 29.3
		iPKP1	11 03 34.7
		iPKP2	11 03 39.4
		ipPKP2	11 03 51.6

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 22 (cont.)

Sk	iPKP1	11 03 26.8
	ipPKP1	11 03 38.5
Um	iPKP1	11 03 23.1
	ipPKP1	11 03 35.3
Ud	iPKP1	11 03 36.0
	ipPKP1	11 03 46.7
De	ipPKP1	11 03 55.2

Kermadec Islands.
h = 40 km (Up,Sk,Um,Ud).

" 22

Up	iPKP2	11 26 50.7
Um	iPKP1	11 26 34.2
	ipPKP1	11 26 46.6
Ud	iPKP1	11 26 47.6
	ipPKP1	11 27 00.7

Kermadec Islands.
h = 45 km (Um,Ud).

" 22

Up	iPKP1	13 18 59.8
	iPKP2	13 19 04.9
Sk	iPKP1	13 18 53.2
Um	iPKP1	13 18 48.7
	ipPKP1	13 19 01.4
Ud	iPKP1	13 19 01.6
De	iPKP1	13 19 09.9

Kermadec Islands.
h = 40 km (Um).

" 22

Um	iP	16 12 25.9
	i	16 12 47.1
Ud	iP	16 12 38.5

" 22

Up	iP	16 22 28.1
Ud	iP	16 22 35.5

" 22

Um	eP	17 46 08
	i	17 46 16.5

" 22

Up	iP2	18 06 56.2
Um	iP1	18 07 23.2
	iP2	18 07 26.1
Ud	iP1	18 07 02.6
	iP2	18 07 05.2
De	iP2	18 06 35.5

Turkey (h = N).
Double P at Um and Ud, in average 2.8 sec apart.

" 22

Up	iP	18 41 12.0
Um	iP	18 41 09.5
Ud	eP	18 41 27

Kashmir-India (h = 90 km).

" 23

Um	iP	01 03 44.6
Ud	iP	01 03 56.5

1976
May 23

Ud	iP	01 43 24.0

" 23

Um	iP	03 59 18.2

Turkey (h = N).

" 23

Up	iP	05 56 58.1
	i	05 57 09.7
Ki	iP	05 56 42.6
	ipP	05 56 52.2
Um	iP	05 56 48.1
Ud	iP	05 57 06.5
	ipP	05 57 16.2

Banda Sea.
h = 30 km (Ki,Ud).

" 23

Up	iPKP		06 19 46.0	
	iPP		06 20 51.0	
	iPKKP		06 30 30.9	
	i		06 31 04.5	
			micr	sec
	Mx	E	2.7	23
	Mx	N	6.4	25
	Mx	Z	2.8	19
Ki	eP		06 15 30	
	i		06 16 35.6	
	iPKP		06 19 35.3	
			micr	sec
	Mx	E	5.9	22
	Mx	N	6.0	22
	Mx	Z	5.2	21
Sk	iX		06 20 00.9	
Um	i		06 15 54.9	
	iPKP		06 19 39.9	
	iPKKP		06 30 36.6	
Ud	iP		06 16 05.5	
	i		06 16 47.5	
	iPKP		06 19 49.6	
	iX		06 20 04.5	
De	iPKP		06 19 53.8	
	iX		06 20 08.0	

New Ireland (h = 100 km).
M = 6.2 (Up,Ki).
M not corrected for focal depth.
X-phases at Sk, Ud and De may be PKP from another event, in the same focal area, occurring about 15 sec later.

" 23

Ud	iP	07 29 12.4

" 23

Up	iP	09 56 04.4
Um	iP	09 56 03.9
Ud	iP	09 56 22.2

Uzbek SSR (h = N).

" 23

Ud	i	12 08 43.4
	iRg	12 09 11.2

Regional near-surface event.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
May	23	Up	iPKP1	14 18 36.1
			iPKP2	14 18 40.1
			ipPKP1	14 18 47.9
			ipPKP2	14 18 52.0
		Sk	iPKP1	14 18 29.4
			ipPKP1	14 18 42.2
		Um	iPKP1	14 18 24.4
		Ud	iPKP1	14 18 38.0
			iPKP2	14 18 42.8
			ipPKP1	14 18 49.6
		De	iPKP1	14 18 46.0
			iPKP2	14 18 56.6

Kermadec Islands.
h = 40 km (Up,Sk,Ud).

"	23	Up	iP	15 06 46.9
		Ki	iP	15 06 15.0
		Ud	iP	15 06 54.8
"	23	Ki	iP	15 35 37.0
			i	15 35 45.4
			iS	15 37 40.1
		Sk	iP	15 35 42.4
			iS	15 37 30.8
		Um	iS	15 38 49.8
		Ud	iP	15 36 28.7
			iS	15 39 18.5

Greenland Sea,
near 73°N, 12°W.
Approximate origin time = 15 32 56.

"	23	Um	iP		16 35 18.8
"	23	Up	iP		16 46 19.2
			ipP		16 46 39.6
			iSKS		16 56 51
			iS		16 57 55
					micr sec
			pP	Z'	0.1 1.5
			Mx	E	1.8 19
			Mx	N	1.4 20
			Mx	Z	4.4 23
		Ki	iP		16 46 23.2
			ipP		16 46 43.4
			iPP		16 50 44.1
			iSKS		16 56 57
			iS		16 58 05
			iPKKP		17 02 40.7
					micr sec
			pP	Z'	0.1 2.0
			Mx	E	3.3 26
			Mx	N	2.5 26
			Mx	Z	3.4 26

(cont.)

1976				
May	23	(cont.)		
		Sk	iP	16 46 08.9
			iPP	16 50 11.9
		Um	iP	16 46 24.8
			ipP	16 46 44.8
			iPP	16 50 44.0
			iSKS	16 56 57
			iS	16 58 04.0
			ePKKP	17 02 41
		Ud	iP	16 46 09.7
			ipP	16 46 29.6
			iPKKP	17 02 54.0
		De	iP	16 46 09.9
			ipP	16 46 30.0

Peru.
h = 70 km (Up,Ki,Um,Ud,De).
m = 6.2, M = 5.8 (Up,Ki).

"	24	Up	iPKP1	03 45 38.8
		Ud	iPKP1	03 45 41.1
		De	iPKP1	03 45 51.6
"	24	Up	iPKP2	04 24 24.4
			ipPKP2	04 24 36.6
		Um	iPKP1	04 24 07.3
			ipPKP1	04 24 19.2
		Ud	ipPKP1	04 24 32.4

Kermadec Islands.
h = 40 km (Up,Um).

"	24	Up	iPKP1	05 30 06.8
			iPKP2	05 30 11.4
				micr sec
			PKP1 Z'	0.1 1.0
			PKP2 Z'	0.1 0.9
		Ki	iPKP1	05 29 47.7
		Sk	iPKP1	05 29 59.7
			ipPKP1	05 30 10.1
		Um	iPKP1	05 29 54.4
		Ud	iPKP1	05 30 07.6
			iPKP2	05 30 13.9
		De	iPKP1	05 30 16.6
			ipPKP1	05 30 28.0

Kermadec Islands.
h = 35 km (Sk,De).

"	24	Up	iP	08 05 59.2
		Um	iP	08 05 22.4
			i	08 05 34.9
"	24	Up	iP	11 07 35.9
			iPP	11 11 01.6
		Ki	eP	11 07 29
		Sk	iP	11 07 19.7

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 24 (cont.)

Um	iP		11 07 35.6	
Ud	iP		11 07 26.4	
De	iP		11 07 31.8	

Nicaragua (h = N).

" 24	Up	iP		11 36 22.4	C
		i		11 36 26.0	
		i		11 36 38.7	
		iPP		11 39 27.2	
		iS		11 46 13.6	
				micr sec	
		P	Z'	0.2 1.2	
		i	Z'	0.2 1.1	
		Mx	E	3.4 15	
		Mx	N	2.4 17	
		Mx	Z	5.3 16	
	Ki	iP		11 35 47.0	C
		i		11 35 50.5	
				micr sec	
		P	Z'	0.2 1.1	
		i	Z'	0.2 1.0	
		Mx	E	5.3 14	
		Mx	Z	5.6 14	
	Sk	iP		11 36 17.9	
		i		11 36 21.3	
		iPP		11 39 15.7	
	Um	iP		11 36 02.4	C
		i		11 36 05.9	
		iS		11 45 37	
	Ud	iP		11 36 29.3	C
		i		11 36 32.9	
		iPP		11 39 32.3	
	De	iP		11 36 42.9	
		i		11 36 57.9	
		iPP		11 39 49.9	

Japan (h = N).
m = 6.0, M = 5.9 (Up,Ki).

" 24	Ud	iPKP1	13 04 30.3	
	De	iPKP1	13 04 41.0	
" 24	De	iP	13 12 14.0	
" 24	Up	iPKP1	14 40 20.2	
	Sk	iPKP1	14 40 15.2	
	Um	iPKP1	14 40 10.9	
	Ud	iPKP1	14 40 21.3	
		i	14 40 31.0	

South of Kermadec Islands
(h = 30 km).

" 24	Up	iP	15 02 57.8	
	Ki	iP	15 03 11.5	

(cont.)

1976
May 24 (cont.)

Sk	iP	15 03 27.2	
Um	iP	15 02 58.9	
Ud	iP	15 03 15.5	
De	iP	15 03 10.3	

Uzbek SSR (h = N).

" 24	Up	iPKP1	16 11 52.1
	Ud	iPKP1	16 11 54.6
" 24	Up	iPKP1	23 42 14.6
		i	23 42 25.9
	Ki	iPKP1	23 41 55.8
		i	23 42 06.8
	Sk	iPKP2	23 42 18.2
	Um	iPKP1	23 42 05.8
	Ud	iPKP1	23 42 17.7

South of Kermadec Islands
(h = 80 km).

" 25	Um	iP	00 23 47.7
" 25	Ki	iPKP	00 58 05.4
	Um	iPKP	00 58 12.1
		iSKP1	01 01 31.1

New Hebrides Islands
(h = 70 km).

" 25	Up	iPKP2	01 34 40.1
	Um	iPKP1	01 34 24.8
" 25	Up	iPKP1	03 46 22.4
		i	03 46 26.4
		iSKP1	03 49 09.7
	Ki	iPKP	03 46 16.9
	Sk	iPKP	03 46 26.3
		iSKP1	03 49 03.2
	Um	i(PKP)	03 46 20.1
		iPKP	03 46 23.7
		iSKP1	03 48 56.9
	Ud	iPKP1	03 46 23.2
		i	03 46 27.4
		iSKP1	03 49 10.6
	De	iPKP1	03 46 32.8
		i	03 46 39.0
		iSKP1	03 49 21.4

Fiji Islands (h = 610 km).

" 25	Up	iP	04 58 55.6	C
		ipP	04 59 21.8	
		iPcP	04 59 33.6	
	Ki	eP	04 58 48	
		iPcP	04 59 28.7	
	Sk	iP	04 59 11.0	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 25 (cont.)

Sk	ipP		04 59 37.4		
Um	iP		04 58 47.6		
	ipP		04 59 13.9		
Ud	iP		04 59 08.8		
	ipP		04 59 35.1		
De	iP		04 59 11.0		

Burma-India.
h = 110 km (Up,Sk,Um,Ud).

" 25

Up	iP		08 19 43.8		C
	ipP		08 19 56.7		
			micr	sec	
	P	Z'	0.5	1.2	
	pP	Z'	0.5	1.5	
	Mx	E	0.9	16	
	Mx	N	2.5	20	
	Mx	Z	3.2	17	
Ki	iP		08 19 51.3		C
	ipP		08 20 03.8		
			micr	sec	
	P	Z'	0.3	1.0	
	Mx	E	2.4	14	
	Mx	N	1.2	16	
	Mx	Z	1.0	14	
Sk	iP		08 19 27.8		C
	ipP		08 19 39.9		
Um	iP		08 19 16.1		C
Ud	iP		08 19 47.8		C
	i		08 19 54.9		
De	iP		08 20 08.7		C
	ipP		08 20 20.5		

Kamchatka.
h = 45 km (Up,Ki,Sk,De).
m = 6.4, M = 5.5 (Up,Ki).

" 25

Up	iP		08 27 20.1		C
	ipP		08 27 32.7		
			micr	sec	
	P	Z'	0.9	1.3	
	Mx	E	2.4	18	
	Mx	N	3.6	17	
	Mx	Z	5.7	17	
Ki	iP		08 26 27.3		C
	ipP		08 26 40.9		
			micr	sec	
	P	Z'	0.6	0.9	
	Mx	E	0.8	14	
	Mx	N	1.7	16	
	Mx	Z	1.0	12	
Sk	iP		08 27 03.7		C
Um	iP		08 27 52.4		C
Ud	iP		08 27 23.8		C
	i		08 27 30.3		
	ipP		08 27 34.7		

(cont.)

1976
May 25 (cont.)

De	iP	08 27 44.7
	ipP	08 27 56.5

Kamchatka.
h = 45 km (Up,Ki,Ud,De).
m = 6.6, M = 6.1 (Up,Ki).

" 25

Up	iP	11 20 28.2
	i	11 20 35.1
Ki	iP	11 19 35.5
	i	11 19 46.7
Sk	iP	11 20 12.7
Um	iP	11 20 00.7
	i	11 20 11.7
Ud	iP	11 20 32.7
De	iP	11 20 54.0

Kurile Islands.

" 25

Up	eP	12 49 20
Ki	iP	12 48 15.3
Sk	eP	12 48 26
	i	12 48 35.9
Um	iP	12 48 52.0
Ud	iP	12 49 09.2
De	iP	12 49 45.2

Jan Mayen (h = 10 km).

" 25

Up	eP	14 08 44
Ki	eP	14 07 39
	i	14 07 51.4
Sk	eP	14 07 50
Um	iP	14 08 15.9
	i	14 08 25.4
Ud	iP	14 08 33.9
De	iP	14 09 08.4

Jan Mayen (h = 10 km).

" 25

Ki	iP	15 44 06.7
Um	iP	15 44 31.8
Ud	iP	15 45 04.6
	i	15 45 13.4

" 25

Up	iPKP2	15 52 00.5
Um	iPKP1	15 51 43.5
	i	15 51 50.6
Ud	i	15 52 13.7

" 25

Up	iPKP	16 32 19.7
Ki	iPKP	16 32 04.8
Sk	iPKP	16 32 14.6
Um	iPKP	16 32 10.5
	i	16 32 22.4
Ud	i(PKP)	16 32 15.6
	iPKP	16 32 22.4
De	iPKP1	16 32 17.4

New Hebrides Islands (h = 60 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
May	25	Up	iP	18 48 18.8
		Um	iP	18 48 53.8
		Ud	iP	18 48 32.5
			i	18 48 35.4
		De	i	18 48 04.6
		Turkey (h = 15 km).		
"	25	Up	iPKP1	21 36 39.4
			iPKP2	21 36 45.6
		Sk	i	21 36 45.1
			i	21 36 49.2
		Um	iPKP1	21 36 28.4
		Ud	iPKP1	21 36 40.9
			i	21 36 54.5
		De	iPKP2	21 37 02.4
		Kermadec Islands (h = 180 km).		
"	25	Up	iP	23 45 38.0
				micr sec
			P Z'	0.1 1.2
		Ki	iP	23 45 01.8
			ipP	23 45 14.9
		Um	iP	23 45 18.1
			ipP	23 45 30.6
		Ud	iP	23 45 44.7
			ipP	23 45 57.9
		Japan.		
		h = 45 km (Ki,Um,Ud).		
"	26	Ud	iP	01 28 08.7
"	26	Ki	eP	07 01 35
		Mariana Islands (h = 120 km).		
"	26	Ud	iP	09 00 35.1
"	26	Ud	iP	12 08 10.2
"	26	Up	iP	15 38 12.0 C
		Ki	iP	15 38 11.2 C
			i	15 38 15.4
		Sk	iP	15 38 26.3 C
		Um	iP	15 38 08.8 C
		Ud	iP	15 38 22.4 C
			i	15 38 28.8
		De	iP	15 38 21.1 C
		Sumatra (h = 180 km).		
"	26	Ud	iP	17 32 19.5
"	26	Up	iP	20 04 22.3 C
		Ki	iP	20 04 01.6 C
		Ud	iP	20 04 31.7 C
		Luzon (h = N).		

1976				
May	27	Up	iP	00 32 53.7
		Ki	eP	00 31 11
			i	00 31 16.9
		Um	iP	00 32 06.2
			i	00 32 16.0
		Ud	iP	00 32 52.0
		De	iP	00 33 30.3
		Svalbard (h = 10 km).		
"	27	Ud	iP	01 59 29.6
"	27	Up	iP	02 28 47.0
"	27	Up	iPKP1	02 41 46.7
			i	02 41 49.1
				micr sec
			PKP1 Z'	0.1 0.9
		Sk	iPKP1	02 41 38.5
		Um	iPKP1	02 41 33.9
		Ud	iPKP1	02 41 47.6
		De	iPKP1	02 41 57.2
			i	02 42 05.6
"	27	De	iPKP1	04 08 51.2
		Fiji Islands (h = 430 km).		
"	27	Ki	iP	06 05 47.3
			ipP	06 05 54.3
		Sk	iP	06 06 17.1
		Ud	iP	06 06 39.2
			ipP	06 06 46.7
		De	iP	06 07 02.5
			ipP	06 07 10.0
		Alaska.		
		h = 25 km (Ki,Ud,De).		
"	27	Up	iPKP1	07 13 57.2
		Ki	iPKP	07 13 47.4
		Sk	iPKP1	07 13 52.9
		Um	iPKP	07 13 57.5
		Ud	iPKP1	07 13 59.0
		De	iPKP1	07 14 10.1
			i	07 14 14.8
		Tonga-Kermadec Islands (h = 580 km).		
"	27	De	iP	10 52 22.5
		North Atlantic Ridge (h = N).		
"	27	Ki	iPKP1	11 19 52.1
		Um	iPKP1	11 19 59.0
		Ud	iPKP1	11 20 10.0
"	27	Ki	eP	18 15 34
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 27 (cont.)

Ud	iP	18 16 25.3 C	
	i	18 16 34.5	

Aleutian Islands (h = 45 km).

" 27	Ud	iP	22 35 31.9
" 28	Ki	iSgl	01 31 01.0
	Sk	iSgl	01 29 03.1
	Um	i	01 30 11.5
		iSgl	01 30 19.9
	Ud	iSgl	01 30 54.4

Central Norway,
64.4°N, 12.8°E.
Origin time = 01 28 38.
M_L = 2.6 (Um).

" 28	Up	iPKP2	02 14 43.8
	Um	iPKP1	02 14 27.4
	Ud	iPKP2	02 14 43.8
" 28	Ud	iP	05 01 23.7
" 28	Up	iP	06 21 39.0
			micr sec
		P Z'	0.1 0.8
	Ki	iP	06 21 19.5
	Sk	iP	06 21 43.7
	Um	iP	06 21 25.9
	Ud	iP	06 21 48.0
	De	iP	06 21 53.7

Luzon (h = 100 km).

" 28	Ki	iPKP2	06 30 48.5

West of Macquarie Island
(h = N).

" 28	Um	iSgl	08 26 09.4
		iRg	08 26 15.0

Regional near-surface event.

" 28	Um	i(P)	12 08 36.3
	Ud	i(P)	12 09 03.0
" 28	Ud	iSgl	12 40 17.2
" 28	Up	iP	14 12 23.3
	Ki	iP	14 12 37.3
		iPn	14 13 45.7
	Sk	iP	14 12 52.5
	Um	iP	14 12 23.8
		i	14 12 27.5
		iPn	14 13 25.2
	Ud	iP	14 12 40.8

(cont.)

1976
May 28 (cont.)

Ud	iPn	14 13 46.9
De	iP	14 12 34.9

Uzbek SSR (h = 25 km).

" 28	Up	iSgl	14 26 20.7
	Ud	iSgl	14 26 04.7
		iRg	14 26 13.4

Central Sweden.
Near-surface event.

" 28	Um	iP	19 03 43.2
" 28	Up	iP	23 07 16.2
		iS	23 11 13
			micr sec
		Mx E	0.8 9
		Mx N	0.9 10
		Mx Z	1.6 12
	Ki	iP	23 08 20.9
			micr sec
		Mx E	0.5 11
		Mx N	0.7 9
		Mx Z	0.5 8
	Sk	iP	23 07 58.0
	Um	iP	23 07 46.3
		iS	23 12 19
	Ud	iP	23 07 25.8
		i	23 07 29.2
	De	iP	23 06 52.8

Turkey (h = 10 km).

" 28	Um	iP	23 15 04.5
	Ud	iP	23 14 47.9

Turkey (h = 5 km).

" 29	Um	iPKP1	01 12 08.3

North Island, New Zealand
(h = 50 km).

" 29	Um	iP	03 41 54.8
		i	03 41 59.6
" 29	Um	iP	03 50 58.3
	Ud	iP	03 50 37.9

Turkey (h = 5 km).

" 29	Um	iP	04 12 19.9
	Ud	iP	04 11 48.6
	De	iP	04 11 27.0
" 29	Up	iP	04 57 35.6
	Sk	iP	04 57 38.0
	Um	iP	04 57 18.1
	Ud	iP	04 57 45.0

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
May	29	Um	iP		05 41 27.9	
"	29	Ud	iP		08 41 14.4	
"	29	Up	iPKPl		09 02 11.1	
		Ud	iPKPl		09 02 10.5	
"	29	Up	iPKPl		09 44 36.7	
					micr	sec
			PKPl	Z'	0.1	1.2
		Ki	ePKP		09 44 25	
		Sk	iPKPl		09 44 28.1	
		Um	iPKPl		09 44 24.0	
		Ud	iPKPl		09 44 37.5	
			i		09 44 40.6	
		De	iPKPl		09 44 46.0	
		Kermadec Islands (h = 230 km).				
"	29	Um	iPKPl		11 08 22.2	
		De	iPKPl		11 08 38.8	
		Solomon Islands (h = 140 km).				
"	29	Up	iP		12 08 59.5	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		12 08 48.9	
					micr	sec
			P	Z'	0.1	1.2
		Sk	iP		12 09 12.7	
		Um	iP		12 08 49.9	
		Ud	iP		12 09 11.8	
		Burma-China (h = N).				
		m = 5.9 (Up,Ki).				
"	29	Up	iP		12 34 00.2	
			ipP		12 34 03.1	
			iS		12 42 17.3	
					micr	sec
			P	Z'	0.1	1.1
			pP	Z'	1.3	1.5
			Mx	E	31	16
			Mx	N	362	21
			Mx	Z	93	24
		Ki	iP		12 33 49.3	
			ipP		12 33 52.6	
			iS		12 42 22	
					micr	sec
			P	Z'	0.2	1.0
			pP	Z'	0.9	1.4
			Mx	E	27	17
			Mx	N	264	17
			Mx	Z	29	17
		Sk	iP		12 34 13.0	
			ipP		12 34 16.1	
		(cont.)				

1976						
May	29	(cont.)				
		Um	iP		12 33 50.1	
			ipP		12 33 53.4	
			iS		12 42 25	
		Ud	iP		12 34 12.2	
			ipP		12 34 15.8	
		De	iP		12 34 17.7	
			ipP		12 34 21.1	
		Yunnan, China.				
		h = 10 km (Up,Ki,Sk,Um,Ud,De).				
		m = 6.9, M = 7.5 (Up,Ki).				
"	29	Up	iP		12 44 44.9	
			i		12 45 48.1	
		Ki	i		12 45 37.7	
		Um	iP		12 45 35.0	
		Ud	iP		12 45 57.3	
			i		12 46 01.0	
		Burma-China.				
"	29	Up	iP		13 09 35.9	
		Um	iP		13 09 22.9	
"	29	Ud	iP		13 16 32.7	
"	29	Up	iP		14 06 01.3	
			i		14 06 05.5	
		Um	i		14 05 56.2	
		Ud	eP		14 06 14	
			i		14 06 18.7	
"	29	Up	iP		14 10 57.9	
			ipP		14 11 00.8	
			i		14 11 09.1	
			iPP		14 13 28.8	
			iS		14 19 41.8	
					micr	sec
			pP	Z'	0.7	1.4
			i	Z'	1.5	1.3
			Mx	E	26	22
			Mx	N	250	21
			Mx	Z	63	19
		Ki	iP		14 10 47.4	
			ipP		14 10 50.6	
			i		14 10 58.4	
			eS		14 19 22	
			iPP		14 13 19.0	
					micr	sec
			pP	Z'	0.4	1.5
			i	Z'	1.8	1.4
			Mx	E	33	17
			Mx	N	151	17
			Mx	Z	36	17
		Sk	ipP		14 11 14.0	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 29 (cont.)

Sk	i	14 11 16.1
	i	14 11 22.5
	iPP	14 13 46.8
Um	iP	14 10 49.9
	ipP	14 10 51.7
	i	14 10 59.6
	iPP	14 13 17.7
	iS	14 19 25
Ud	iP	14 11 10.6
	ipP	14 11 14.1
	i	14 11 21.9
	iPP	14 13 45.2
	iS	14 20 12.2
De	iP	14 11 16.6
	ipP	14 11 20.0
	i	14 11 24.9
	iPP	14 13 44.3
	i	14 13 55.2

Burma-China.
h = 10 km (Up,Ki,Um,Ud,De).
m = 7.0, M = 7.3 (Up,Ki).

" 29 Ud iP 14 21 31.8

" 29 Ki iP 14 38 09.2
Um iP 14 38 09.0

" 29 Up iP 14 38 41.7
Sk iP 14 38 53.2
Um iP 14 38 31.9
Burma-China.

" 29 Up iP 14 42 24.7
Ki iP 14 42 13.8
Um iP 14 42 15.4
Ud iP 14 42 37.8
i 14 43 01.5
Burma-China (h = N).

" 29 Up iP 15 03 34.3
Ki eP 15 03 24
Um iP 15 03 25.3
Ud iP 15 03 47.0
Burma-China (h = N).

" 29 Up iP 15 05 20.8

" 29 Up iPKP1 15 08 20.8
Ud iPKP1 15 08 22.5
i 15 08 34.5
De iPKP1 15 08 31.5

" 29 Ud iP 15 19 06.9
i 15 19 18.1

1976
May 29 De iP 15 24 27.9

" 29 Ud iP 15 26 18.7

" 29 Ud iP 16 16 37.6

" 29 Up iPKP1 16 38 52.6
Sk iPKP1 16 38 45.7
Um iPKP1 16 38 40.3
Ud iPKP1 16 38 53.9
i 16 38 58.2
De i 16 39 07.6

" 29 Up iP 17 19 32.0
Ki i 17 19 29.4
Um i 17 19 37.2
Ud i 17 19 47.5
Burma-China (h = N).

" 29 Up iP 19 47 32.5
ipP 19 47 35.6

		micr	sec
pP	Z'	0.1	1.1
Mx	E	1.2	20
Mx	N	3.2	18
Mx	Z	1.3	19

Ki iP 19 47 22.0
ipP 19 47 25.0

		micr	sec
pP	Z'	0.1	1.5
Mx	E	0.7	16
Mx	N	2.9	18
Mx	Z	0.7	14

Sk iP 19 47 46.0
ipP 19 47 49.0
Um iP 19 47 22.8
ipP 19 47 25.8
Ud iP 19 47 44.4
ipP 19 47 48.5
De iP 19 47 51.5
Burma-China.
h = 10 km (Up,Ki,Sk,Um,Ud).
m = 5.9, M = 5.5 (Up,Ki).

" 29 Up iP 22 01 36.6
Ud iP 22 01 43.6
Ionian Sea (h = N).

" 29 Up iPKP1 22 10 36.1
iPKP2 22 10 40.7
Sk iPKP1 22 10 29.9
Um iPKP1 22 10 24.3
Ud iPKP1 22 10 37.8
iPKP2 22 10 43.4
De iPKP1 22 10 45.9
i 22 10 57.1

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 May	29	Sk	iP		22 47 33.3	
		Um	iP		22 47 23.8	
		Ud	eP		22 47 02	
		Turkey (h = 15 km).				
"	29	Um	iP		23 23 12.7	
		Japan (h = 35 km).				
"	29	Um	iP		23 41 50.2	
		Ud	eP		23 42 15	
		Burma-China (h = N).				
"	30	Up	iP		00 13 35.2	
"	30	Up	iP		00 50 28.6	
		Ud	iP		00 50 41.0	
		Burma-China (h = N).				
"	30	Ud	iP		02 33 53.5	
"	30	Up	i		03 10 37.7	
			i		03 10 46.5	
					micr	sec
			i	Z'	0.1	1.4
			Mx	E	1.0	18
			Mx	N	1.1	20
			Mx	Z	1.7	21
		Ki	iP		03 10 09.8	
			i		03 10 15.0	
			i		03 10 22.2	
					micr	sec
			P	Z'	0.1	1.3
			Mx	N	1.7	22
		Sk	iPP		03 14 50.5	
		Um	iP		03 10 15.3	
			i		03 10 20.5	
			i		03 10 27.3	
		Ud	iP		03 10 33.8	
			i		03 10 39.6	
			i		03 10 47.9	
			iPP		03 14 51.5	
		De	i(PP)		03 14 09.2	
			iPP		03 14 56.5	
		Halmahera (h = N).				
		M = 5.5 (Up,Ki).				
"	30	Up	iP		03 16 42.1	
			ipP		03 16 52.4	
		Ki	iP		03 16 22.6	
			ipP		03 16 32.6	
		Sk	iP		03 16 46.5	
		Um	iP		03 16 29.5	
			ipP		03 16 40.1	
		Ud	iP		03 16 52.9	
			ipP		03 17 03.5	
		(cont.)				

1976 May	30	(cont.)				
		Ud	i		03 17 12.4	
		De	iP		03 16 58.4	
"	30	Up	iPKP		03 27 53.9	
			iPP		03 29 46.1	
					micr	sec
			PKP	Z'	0.2	1.4
			Mx	E	1.5	20
			Mx	N	1.1	20
			Mx	Z	3.8	20
		Ki	iPKP		03 28 00.9	
			ipPKP		03 28 09.5	
			iSKPl		03 31 23.5	
					micr	sec
			PKP	Z'	0.5	1.4
			Mx	E	1.8	22
			Mx	N	1.0	19
			Mx	Z	1.7	19
		Sk	iPKP		03 27 52.6	
			i		03 27 59.7	
		Um	iPKP		03 27 58.4	
			ipPKP		03 28 07.3	
		Ud	iPKP		03 27 49.2	
			iPP		03 29 35.6	
		De	iPKP		03 27 47.9	
		Off coast of Chile.				
		h = 25 km (Ki,Um).				
		M = 5.8 (Up,Ki).				
"	30	Ud	iP		03 37 32.9	
"	30	Up	iPKPl		03 59 37.2	D
		Ki	ePKPl		03 59 17	
		Sk	iPKPl		03 59 29.9	
		Um	iPKPl		03 59 25.7	D
			i		03 59 37.5	
			i		03 59 46.0	
		Ud	iPKPl		03 59 38.9	D
		De	iPKPl		03 59 46.9	
			i		03 59 58.1	
"	30	Up	iP		04 10 23.5	
		Um	iP		04 10 25.4	
		Ud	iP		04 10 44.2	
		Hindu Kush.				
"	30	Up	iP		04 29 21.5	
			ipP		04 29 23.4	
					micr	sec
			Mx	E	0.9	16
			Mx	N	2.9	18
			Mx	Z	1.1	16
		Ki	eP		04 29 10	
			ipP		04 29 12.4	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 30 (cont.)

			micr	sec
Ki				
	pP	Z'	0.1	1.3
	Mx	E	0.8	17
	Mx	N	2.9	18
	Mx	Z	0.9	16
Sk	ipP		04 29 36.3	
Um	iP		04 29 11.1	
	ipP		04 29 13.4	
Ud	iP		04 29 33.7	
	ipP		04 29 35.9	
	i		04 30 10.7	
De	iP		04 29 39.2	

Burma-China.
h = 5 km (Up,Ki,Um,Ud).
M = 5.5 (Up,Ki).

" 30	Ud	iP	05 39 16.6
" 30	Ud	iP	08 12 20.8
" 30	Ud	eP	09 09 02
" 30	Up	iP	09 47 08.4
	Ki	iP	09 46 48.4
	Ud	iP	09 47 17.6
" 30	Ud	iP	11 53 55.8
" 30	Up	iP	13 22 11.1
	Ki	iP	13 21 18.9
	Um	iP	13 21 43.6
	Ud	iP	13 22 15.1
	De	iP	13 22 36.6
" 30	Um	iP	13 28 03.9
	Ud	eP	13 28 35
" 30	Up	iP	13 50 30.3
	Ud	iP	13 50 37.3

Ionian Sea (h = 35 km).

" 30	Sk	iP	15 13 48.3
" 30	Up	iP	16 31 40.6
	Ud	iP	16 31 45.0

Ionian Sea (h = N).

" 30	Ud	iP	17 38 06.6
" 30	Ud	iP	18 36 16.7
" 30	Up	i	21 16 39.9
	De	iP	21 15 36.2

Austria (h = N).

1976

May 30	Up	iP	21 18 20.9
" 30	Up	iP	21 59 19.4
	Sk	iP	21 59 18.7
	Um	iP	21 59 01.7
	Ud	iP	21 59 28.1
	De	eP	21 59 40

Ryukyu Islands (h = 40 km).

" 30	Up	e	22 07 21
	Ki	iP	22 07 55.7
	Um	iP	22 07 28.5
	Ud	eP	22 07 26
		i	22 07 38.5
	De	iPP	22 07 44.2

Turkey-USSR (h = 10 km).

" 30	Ki	iP	22 23 53.0

Sinkiang, China.

" 30	Up	iP	22 42 09.8
		ipP	22 42 12.5
	Ki	iP	22 41 59.3
	Um	iP	22 41 59.9
		ipP	22 42 02.7
	Ud	iP	22 42 22.7
		ipP	22 42 25.4
	De	iP	22 42 26.8
		ipP	22 42 29.4

Burma-China.
h = 10 km (Up,Um,Ud,De).

" 30	Up	iPKP1	22 59 43.5
	Ud	iPKP1	22 59 45.7
		i	22 59 47.3
	De	iPKP1	22 59 55.4

Tonga-Kermadec Islands
(h = 550 km).

" 31	Up	iPKP1	02 17 11.7
		iPKP2	02 17 15.6
	Ki	iPKP	02 16 57.0
	Sk	iPKP1	02 17 06.3
		i	02 17 24.3
	Um	iPKP1	02 16 59.8
		i	02 17 04.7
	Ud	iPKP1	02 17 13.5
		iPKP2	02 17 18.2
	De	iPKP1	02 17 21.6
		iPKP2	02 17 32.2

Kermadec Islands (h = 55 km).

" 31	Um	iP	02 46 25.9
" 31	Up	eP	05 03 35
	Ud	eP	05 03 49

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 31 Up iP 05 19 07.9
ipP 05 19 11.6
iPP 05 21 31.1
iS 05 27 51
micr sec
P Z' 0.2 1.0
pP Z' 1.0 1.6
Mx E 7.2 16
Mx N 42 20
Mx Z 12 16
Ki iP 05 18 57.6
ipP 05 19 01.1
i 05 19 17.5
iPP 05 21 18.4
iS 05 27 37
micr sec
P Z' 0.1 1.0
pP Z' 0.6 2.0
Mx E 8.6 13
Mx N 35 17
Mx Z 7.7 13
Sk iP 05 19 21.6
ipP 05 19 25.1
Um iP 05 18 58.9
ipP 05 19 02.2
i 05 19 22.5
i 05 19 30.5
iS 05 27 33
Ud iP 05 19 20.6
ipP 05 19 24.3
iPP 05 21 47.5
De iP 05 19 24.6
ipP 05 19 27.8
Burma-China.
h = 10 km (Up,Ki,Sk,Um,Ud,De).
m = 6.6, M = 6.7 (Up,Ki).

" 31 Ud iP 07 16 12.9

" 31 Up iP 08 13 37.2
ipP 08 13 39.6
iPn 08 14 24.0
iPP 08 14 46.2
Ki iP 08 14 04.3
ipP 08 14 06.7
iPn 08 15 07.5
micr sec
pP Z' 0.1 1.0
Sk ipP 08 14 13.0
iPn 08 15 19.2
Um iP 08 13 44.7
ipP 08 13 47.0
iPn 08 14 40.2
i 08 21 07.9
Ud iP 08 13 54.8
(cont.)

1976
May 31 (cont.)
Ud ipP 08 13 57.0
iPn 08 14 55.4
De i 08 14 29.8
Iran-USSR.
h = 10 km (Up,Ki,Um,Ud).

" 31 Ud iP 12 19 16.1

" 31 Up iP 12 43 51.0
ipP 12 44 17.7
Ki iP 12 43 51.4
Sk iP 12 44 07.6
Um iP 12 43 47.9
ipP 12 44 13.4
Ud iP 12 44 03.6
ipP 12 44 29.7
De iP 12 44 02.6
Andaman Islands.
h = 110 km (Up,Um,Ud).

" 31 Up iP 13 28 14.1
ipP 13 28 41.3
Ki iP 13 27 22.7
i 13 27 59.9
Sk i 13 28 35.2
Um iP 13 27 46.6
i 13 28 23.1
Ud iP 13 28 18.0
i 13 28 54.8
De iP 13 28 37.2
Kurile Islands (h = 110 km).

" 31 Up iSn 14 17 00.0
Ud iSn 14 16 12.9
iSgl 14 16 23.6
De iSn 14 16 14.9
iSgl 14 16 24.5
Skagerrak, 58.2°N, 9.2°E.
Origin time = 14 14 53.
Explosion?
By combination with Kongsberg readings.

" 31 Ud iSgl 14 23 58.1
iRg 14 24 10.6
De iSgl 14 23 58.5
Skagerrak, 58.2°N, 9.2°E.
Origin time = 14 22 27.
Explosion?

" 31 Up iP 15 02 31.0
micr sec
P Z' 0.1 1.5
Ki iP 15 02 14.8
i 15 02 31.9
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
May 31 (cont.)

Ki			micr	sec
	P	Z'	0.2	1.5
Sk	iP		15 02 12.4	
Um	iP		15 02 25.3	
Ud	iP		15 02 22.3	
De	iP		15 02 32.5	

Mexico (h = 160 km).

" 31	Up	eP	18 45 43	
		ipP	18 45 46.6	
		iPcP	18 46 13.6	
		iS	18 54 27	
			micr	sec
		pP	Z' 0.1	1.2
		Mx	E 1.2	13
		Mx	N 10	20
		Mx	Z 2.3	16
	Ki	ipP	18 45 36.3	
		i	18 45 58.2	
		iPcP	18 46 12.6	
			micr	sec
		pP	Z' 0.1	1.4
		Mx	E 2.6	13
		Mx	N 6.9	17
		Mx	Z 2.4	13
	Sk	iP	18 45 56.3	
		ipP	18 45 59.9	
		i	18 46 34.3	
	Um	iP	18 46 33.4	
		ipP	18 46 36.9	
		iS	18 54 09	
	Ud	iP	18 45 55.5	
		ipP	18 45 59.4	
		i	18 46 17.0	
	De	ipP	18 46 02.1	

Burma-China.
h = 10 km (Up,Sk,Um,Ud).
m = 5.9, M = 6.0 (Up,Ki).

" 31	Up	iPKP1	20 22 11.8
	Ud	iPKP1	20 22 13.9
	De	iPKP1	20 22 24.6

" 31	Up	iPKP2	20 25 14.5
	Sk	ipPKP2	20 25 14.9
	Um	iPKP1	20 24 57.2
		ipPKP1	20 25 07.5
	Ud	iPKP2	20 25 14.9
		i	20 25 19.8
	De	iPKP1	20 25 19.0
		iPKP2	20 25 30.2

Kermadec Islands.
h = 30 km (Um).

1976

May 31	Up	ipPKP1	20 58 35.3	
		ipPKP2	20 58 39.9	
			micr	sec
		pPKP2	Z' 0.1	1.2
	Ki	ipPKP	20 58 18.9	
	Sk	ipPKP1	20 58 27.6	
		ipPKP2	20 58 32.0	
	Um	iPKP1	20 58 12.9	
		ipPKP1	20 58 22.6	
	Ud	i	20 58 28.5	
		ipPKP1	20 58 37.1	
	De	i	20 58 41.8	
		iPKP2	20 58 45.4	

Kermadec Islands.
h = 30 km (Um).

" 31	Up	iP	21 08 28.5
	Ud	iP	21 08 38.6

Ryukyu Islands (h = N).

" 31	Up	iP	22 41 15.6	
			micr	sec
		Mx	N 1.0	18
		Mx	Z 0.9	17
	Ki		micr	sec
		Mx	E 1.1	20
	Um	iP	22 41 06.9	
	De	iP	22 41 23.1	

Santa Cruz Islands (h = 20 km).
M = 5.5 (Up,Ki).

Torild van Eck
Ota Kulhánek
Klaus Meyer
Rutger Wahlström

January 21, 1978

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BOX 517
751 20 UPPSALA 1
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BOX 517
S-751 20 UPPSALA
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S E I S M O L O G I C A L B U L L E T I N

U P P S A L A, K I R U N A, S K A L S T U G A N, U M E Å, U D D E H O L M and D E L A R Y

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

J U N E 1 - 30, 1976

1976 June	1	Up	iP		02 09 19.6
"	1	Up	iP		02 24 01.5
			i		02 24 13.3
		Sk	iP		02 24 42.9
		Ud	iP		02 24 20.5
			i		02 24 29.5
		Iran-USSR (h = 45 km).			
"	1	Ki	iP		07 38 57.7
		Ud	iP		07 38 58.7
		Uzbek SSR (h = 35 km).			
"	1	Up	iP		11 09 16.7
					micr sec
			P	Z'	0.1 0.9
		Ki	iP		11 09 07.0
		Sk	iP		11 09 30.9
		Um	iP		11 09 07.3
			ipP		11 09 18.5
		Ud	iP		11 09 29.8 C
		De	iP		11 09 32.2
		Burma (h = 45 km).			
"	1	De	ePKP		14 32 35
		Fiji Islands (h = 630 km).			
"	1	Ud	iP		15 06 41.7
"	1	Up	iP		15 49 26.9
		Ud	iP		15 49 23.3
		Italy (h = N).			
"	1	Ud	iPKPl		18 57 24.4
		De	iPKPl		18 57 33.9
"	1	Ud	iP		19 57 47.5
		Yugoslavia (h = N).			
1976 June	1	Up	iP		22 44 09.6
			ipP		22 44 22.4
					micr sec
			P	Z'	0.1 1.7
		Ki	iP		22 43 40.8
			ipP		22 43 54.9
					micr sec
			P	Z'	0.1 1.0
		Sk	iPP		22 47 56.6
		Um	iP		22 43 52.6
			ipP		22 44 05.9
		Ud	iP		22 44 13.3
			i(PP)		22 47 45.3
		Mariana Islands.			
		h = 45 km (Up,Ki,Um).			
		m = 6.0 (Up,Ki).			
"	1	Up	iP		23 45 31.2
"	2	Up	iP		00 16 03.3
		Ud	iP		00 16 10.9
		Japan (h = 410 km).			
"	2	Up	iP		00 25 00.7
		Ud	iP		00 25 07.4
"	2	Um	iPKP		01 08 17.9
		New Ireland (h = 110 km).			
"	2	Ud	i(P)		02 08 27.2
"	2	Ud	iP		02 52 07.7
"	2	Up	iP		03 29 24.0
		De	iP		03 29 36.4
"	2	Up	iP		05 29 56.2

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	2	Up	iP		06 00 32.5	
					micr	sec
			P	Z'	0.1	0.9
		Ki	iP		05 59 50.4	C
		Sk	iP		06 00 25.5	
		Um	iP		06 00 09.3	C
		Ud	iP		06 00 39.7	C
			i		06 01 01.9	
		De	iP		06 00 56.2	
		Japan (h = 60 km).				
"	2	Up	iP		06 10 58.2	
		Ki	iP		06 10 41.3	
		Ud	iP		06 11 06.3	
		De	iP		06 11 11.6	
		Talaud Islands (h = 90 km).				
"	2	Ki	eP		07 59 36	
		Sk	iP		07 59 47.9	
		Um	i		08 00 06.4	
		Ud	iP		08 00 03.3	
"	2	Ki	iP		08 00 48.1	
		Sk	iP		08 01 12.1	
		Um	iP		08 00 56.0	
			i		08 01 06.6	
		Ud	iP		08 01 15.4	
			i		08 01 31.5	
		Talaud Islands (h = N).				
"	2	Ud	iPKPl		08 14 54.1	C
		De	iPKPl		08 15 04.0	
"	2	Up	iP		10 35 51.5	
			ipP		10 36 43.3	
					micr	sec
			P	Z'	0.2	1.2
		Ki	iP		10 35 27.2	
			ipP		10 36 17.5	
					micr	sec
			P	Z'	0.3	0.9
		Sk	iP		10 35 55.3	
			ipP		10 36 47.2	
		Um	iP		10 35 36.4	
			ipP		10 36 26.9	
		Ud	iP		10 36 01.6	
			i		10 36 02.9	
			ipP		10 36 53.2	
		De	iP		10 36 10.1	
			ipP		10 37 02.5	
		Formosa.				
		h = 210 km (Up,Ki,Sk,Um,Ud,De).				
		m = 5.9 (Up,Ki).				
"	2	Ud	iPKP		11 08 24.2	
		(cont.)				

1976 June	2	(cont.)				
		De	iPKPl		11 08 23.4	
		Fiji Islands (h = 550 km).				
"	2	Sk	iP		12 30 27.1	
		Um	iP		12 30 18.3	
		Ud	eP		12 30 31	
"	2	Ud	iP		14 27 33.4	
"	2	Up	iP		14 38 05.4	
"	2	Up	iP		18 12 12.3	
		Ud	iP		18 12 27.4	
		De	iP		18 12 10.7	
		Iran (h = N).				
"	2	Sk	iP		19 07 57.1	
"	2	Up	Mx		20 31	
					micr	sec
			Mx	E	1.0	18
			Mx	N	1.0	18
			Mx	Z	1.0	19
		Ki	Mx		20 32	
					micr	sec
			Mx	E	0.9	18
			Mx	N	0.9	18
			Mx	Z	1.2	18
		South Pacific Ocean (h = N).				
		M = 5.9 (Up,Ki).				
"	2	Ud	iP		20 53 46.0	
"	3	Up	iPKPl		04 18 23.8	
		Ud	iPKPl		04 18 24.1	C
		De	iPKPl		04 18 34.6	C
"	3	Ud	iP		04 44 45.6	
		De	iP		04 45 04.7	
"	3	Sk	iPKPl		07 32 42.5	
		Um	iPKPl		07 32 36.9	
		Ud	iPKPl		07 32 48.7	C
"	3	Ud	iPKPl		08 01 35.3	
		De	iPKPl		08 01 45.8	
"	3	Um	i(P)		10 36 31.0	
"	3	Up	iPKPl		14 04 09.1	
			i		14 04 11.0	
			i		14 04 20.8	
					micr	sec
			PKPl	Z'	0.1	0.7
			i	Z'	0.4	0.7
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 3 (cont.)

Ki	e(PKP)		14 03 50	
	iPKP		14 03 57.3	
	iSKPl		14 06 32.9	
Sk	iPKPl		14 04 03.1	
	iSKPl		14 06 48.1	
Um	iPKPl		14 03 57.2	
	i		14 04 05.8	
	i		14 06 26.3	
	iSKPl		14 06 42.8	
Ud	iPKPl		14 04 11.5	C
	i		14 06 15.0	
De	iPKP		14 04 16.7	
	iPKPl		14 04 20.4	
	i		14 06 39.2	

Tonga-Kermadec Islands
(h = 620 km).

" 3 Ud i(P) 14 14 55.7

" 3 Up iP 16 22 24.5

" 3

Up	ePdiff		16 59 33
	i		17 00 10.6
	i		17 03 36.1
	iPP		17 04 17.2
	iSKS		17 09 53
		micr	sec
	Mx	E 23	26
	Mx	N 20	22
	Mx	Z 55	38
Ki	iPdiff		16 59 02.1
	iPP		17 03 45.5
		micr	sec
	Mx	E 16	19
	Mx	N 21	19
	Mx	Z 45	25
Sk	iPdiff		16 59 26.7
	i		17 03 47.1
	iPP		17 04 12.1
Um	iPdiff		16 59 15.6
	iPKP		17 03 07.4
	iSKS		17 09 51
Ud	ePdiff		16 59 34
	iPKP		17 03 15.5
	i		17 03 56.3
	iPP		17 04 26.3
De	iPKP		17 03 19.9
	i		17 03 56.1
	e		17 14 10

New Ireland (h = 90 km).
M = 6.9 (Up,Ki).

" 3

Up	iP	18 15 53.6
	i	18 16 21.2

(cont.)

1976
June 3 (cont.)

Um	iP	18 15 44.5
Ud	iP	18 16 04.8

Burma-China (h = N).

" 3

Up	iPKPl	18 21 25.8
Um	iPKPl	18 21 16.5
Ud	iPKPl	18 21 27.6
De	iPKPl	18 21 37.1

" 3

Up	iPKPl	18 51 05.1
Ud	iPKPl	18 51 07.6
De	iPKPl	18 51 16.5

" 3

Up	iP	21 18 32.5
Um	iP	21 18 23.1

" 3

Ki	iPKP	21 22 50.7
Um	iPKP	21 23 00.8
Ud	iPKP	21 23 08.2
De	i(PKP)	21 23 06.1
	i	21 23 16.9

Samoa Islands (h = 15 km).

" 3

Um	iP	21 42 18.8
De	iP	21 41 22.9

Turkey (h = 5 km).

" 3 Um iPKP 22 46 45.6

New Ireland (h = 120 km).

" 4

Sk	iP	00 18 11.7
Um	iP	00 17 42.3
Ud	iP	00 17 59.7 C

Hindu Kush (h = 25 km).

" 4

Up	iP		00 52 33.6
	ipP		00 52 41.8
	iS		00 59 43
		micr	sec
	Mx	E 2.4	16
	Mx	N 1.7	14
	Mx	Z 5.4	19
Ki	iP		00 52 51.5
	ipP		00 53 00.0
		micr	sec
	Mx	E 1.3	13
	Mx	N 1.4	13
	Mx	Z 1.7	14
Sk	e		00 53 06
Um	iP		00 52 37.9
	iS		00 59 50
Ud	iP		00 52 48.6
	ipP		00 52 56.8
	i		00 54 24.6

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 4 (cont.)

	De	iP		00 52 38.9	

India-Pakistan.
h = 30 km (Up,Ki,Ud).
M = 5.4 (Up,Ki).

" 4	Up	iP		04 34 56.1	C
		ipP		04 35 05.5	
		iS		04 44 15	
				micr	sec
		P	Z'	0.1	0.9
		pP	Z'	0.2	1.0
		Mx	E	4.5	15
		Mx	N	5.1	19
		Mx	Z	12	17
	Ki	iP		04 34 15.2	
		ipP		04 34 24.2	
		iS		04 43 03	
				micr	sec
		P	Z'	0.1	0.7
		ipP	Z'	0.1	0.9
		Mx	E	6.7	14
		Mx	N	5.6	15
		Mx	Z	7.8	14
	Sk	iP		04 34 49.2	
		ipP		04 34 58.5	
		iPP		04 37 26.0	
	Um	iP		04 34 33.5	C
		ipP		04 34 42.5	
		i		04 34 51.5	
		iS		04 43 30	
	Ud	iP		04 35 03.3	C
		ipP		04 35 12.6	
	De	iP		04 35 18.5	
		ipP		04 35 27.9	
		iPP		04 38 10.3	

Japan.
h = 30 km (Up,Ki,Sk,Um,Ud,De).
m = 6.0, M = 6.0 (Up,Ki).

" 4	Up	iP		05 14 16.2
	Ki	iP		05 14 52.7
	Ud	iP		05 14 28.1
		i		05 14 35.7
	De	iP		05 14 14.3

Turkey.

" 4	Up	iP		05 47 01.3	C
		iPP		05 50 19.4	
				micr	sec
		P	Z'	0.1	1.2
	Ki	iP		05 56 29.6	
				micr	sec
		P	Z'	0.2	1.0
	Sk	iP		05 46 57.7	

(cont.)

1976
June 4 (cont.)

Sk	iPP		05 50 13.0
Um	iP		05 46 43.9
Ud	iP		05 47 07.8
	iPP		05 50 26.4
De	iP		05 47 19.6 C

Volcano Islands (h = N).
m = 6.0 (Up,Ki).

" 4	De	iP	05 49 15.6

" 4	Up	iP	06 33 09.2
	Ud	iP	06 33 16.1
	De	iP	06 32 40.3

Ionian Sea (h = N).

" 4	Up	iP	07 53 19.1
	Ki	iP	07 52 58.0
	Ud	iP	07 53 22.2

" 4	Up	iPKP1	10 58 08.0
		iPKP2	10 58 12.2
	Sk	iPKP1	10 57 57.6
	Um	iPKP1	10 57 55.8
	Ud	iPKP1	10 58 09.7
		iPKP2	10 58 16.0
	De	iPKP1	10 58 18.3

" 4	Um	iP	11 24 36.4
	Ud	iP	11 24 43.4

" 4	Up	iSgl	14 20 11.7
	Ud	iSgl	14 19 13.8

Near coast of southwest Norway, 58.4°N, 6.3°E.
Origin time = 14 17 06.
M_L = 2.5 (Ud).
By combination with Bergen and Kongsberg readings.

" 4	De	i(P)	14 21 09.8
		i	14 21 38.4

" 4	Ud	i(P)	15 06 39.9

" 4	De	i(P)	16 10 46.2

" 4	Ud	i(P)	16 28 46.5
		i	16 28 54.8
	De	i(P)	16 29 37.7

" 4	Up	iP	18 16 16.9

" 4	Ud	iPKP	23 57 42.5
		i	23 58 23.8

Chile (h = 100 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	5	Ud	iP		00 09 27.5	
"	5	Ki	iP		00 38 48.4	
		Ud	iP		00 38 59.2	
"	5	Ud	iP		00 53 55.3	
"	5	Up	iP		01 52 43.8	
"	5	Ud	iP		07 07 18.0	
		Mindanao (h = 30 km).				
"	5	Ud	iP		08 29 44.8	
"	5	Up	iPKP		08 38 57.2	
					micr	sec
			Mx	E	3.0	22
			Mx	N	5.0	23
			Mx	Z	7.3	24
		Ki	iPKP		08 38 43.3	
			i		08 39 15.4	
					micr	sec
			PKP	Z'	0.1	0.9
			Mx	E	4.9	21
			Mx	N	6.7	19
			Mx	Z	6.3	21
		Sk	iPKP		08 38 55.1	
		Um	iPKP		08 38 50.3	
			iPP		08 40 10.4	
		Ud	iPKP		08 38 58.7	
			ipPKP		08 39 12.9	
			iPP		08 40 51.1	
		De	iPKP		08 39 04.1	
			ipPKP		08 39 19.1	
		Solomon Islands.				
		h = 50 km (Ud,De).				
		M = 6.3 (Up,Ki).				
"	5	Up	iP		10 56 27.6	
		Ud	iP		10 56 40.2	
		Burma (h = 100 km).				
"	5	Ud	iP		11 17 22.6	
"	5	Ki	iP		13 02 29.6	
		Volcano Islands (h = N).				
"	5	Up	iP		14 25 47.7	
		Sk	iP		14 26 30.1	
		Ud	iP		14 25 54.8	
		Greece.				
"	5	Um	eP		15 40 03	
		Ud	iP		15 40 10.9	

1976 June	5	Up	i		20 02 45.9	
			iRg		20 02 47.9	
		Ud	i		20 02 29.4	
			iRg		20 02 33.8	
		Central Sweden.				
		Near-surface event.				
"	5	Up	iP		20 34 56.7	
			i		20 35 24.2	
		Ki	eP		20 36 12	
		Sk	iP		20 35 38.9	
		Um	iP		20 35 33.4	
		Ud	iP		20 35 05.7	
		Greece (h = 50 km).				
"	5	Ud	iPKPl		21 13 36.3	
		De	iPKPl		21 13 47.4	
"	5	Up	iP		22 26 45.7	
			i		22 26 58.9	
		Ki	iP		22 27 58.0	
		Ud	iP		22 26 52.2	
		De	iP		22 26 15.9	
		Greece (h = 80 km).				
"	6	Up	iP		02 28 14.6	
			ipP		02 28 21.3	
			iS		02 37 15	
					micr	sec
			pP	Z'	0.1	1.1
			Mx	E	1.6	21
			Mx	N	1.9	18
			Mx	Z	2.3	17
		Ki	iP		02 27 29.0	
					micr	sec
			Mx	E	1.5	13
			Mx	N	1.5	15
			Mx	Z	1.1	13
		Sk	iP		02 27 44.7	
			ipP		02 27 52.7	
		Um	iP		02 27 53.3	
			iS		02 36 37	
		Ud	iP		02 28 07.6	
			ipP		02 28 14.3	
		Vancouver Island.				
		h = 25 km (Up,Sk,Ud).				
		M = 5.5 (Up,Ki).				
"	6	Up	iPKP		03 51 18.3	
		Ki	iPKP		03 51 05.8	
		Um	iPKP		03 51 10.4	
		Ud	iPKP		03 51 23.9	
		Solomon Islands (h = 55 km).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	6	Ki	iP		04 26 08.7
		Ud	iP		04 26 11.8
		Uzbek SSR (h = N).			
"	6	Up	iPKPl		05 49 55.0 C
		Ki	iPKP		05 49 40.4
		Sk	iPKPl		05 49 48.0
		Um	iPKPl		05 49 42.7
		Ud	iPKPl		05 49 56.2
		De	iPKPl		05 50 04.2
			i		05 50 08.2
		Kermadec Islands (h = 60 km).			
"	6	Ki	iP		07 02 20.8
		Sk	iP		07 02 32.6
"	6	Ki	eP		07 26 53
					micr sec
			P	Z'	0.1 1.5
		Ud	iP		07 28 17.3
"	6	Up	iPKPl		12 10 25.0
			i		12 10 39.0
					micr sec
			PKPl	Z'	0.2 1.0
		Ki	iPKPl		12 10 04.1
		Sk	iPKPl		12 10 20.2
		Um	iPKP		12 10 13.7
			iPKPl		12 10 15.1
		Ud	iPKP		12 10 20.8
			iPKPl		12 10 27.2
		De	iPKPl		12 10 35.2
			iPKP2		12 10 50.0
		South of Kermadec Islands (h = 45 km).			
"	6	Um	iP		12 10 03.9
		Japan (h = 15 km). Arrival times from this and the preceding event coincide when measured by the Swedish seismograph station network. Separation of events and phase identification is rather difficult.			
"	6	Up	iPKPl		13 14 05.4 C
					micr sec
			PKPl	Z'	0.1 0.8
		Ki	iPKPl		13 13 43.7
		Um	i(PKP)		13 13 52.6
			iPKPl		13 13 54.9
		Ud	iPKPl		13 14 06.6 C
		De	iPKPl		13 14 15.4 C
		Kermadec Islands (h = N).			
1976 June	6	Up	iP		14 02 29.2
		Ud	iP		14 02 41.9
"	6	Up	iP		14 12 44.0
			i		14 12 47.2
		Ki	iP		14 12 05.5
		Sk	iP		14 12 38.6
		Um	iP		14 12 22.8
			i		14 12 25.9
		Ud	iP		14 12 51.8
			i		14 12 55.2
			i		14 12 57.5
		De	iP		14 13 09.8
		Japan (h = 70 km). Double P, average separation 3.3 sec.			
"	6	Up	iP		14 48 44.7
		Sk	iP		14 49 24.5
		Ud	iP		14 48 49.0
		De	iP		14 48 14.7
		Ionian Sea (h = 45 km).			
"	6	Up	iP		17 31 05.3
		Ud	iP		17 31 21.8
		Afghanistan-USSR (h = 220 km).			
"	6	Up	iP		17 55 04.9
			iPcP		17 55 26.5
					micr sec
			P	Z'	1.0 1.0
		Ki	iP		17 54 11.1
			i(PP)		17 56 14.8
					micr sec
			Mx	N	0.9 18
		Sk	iP		17 54 45.3
		Um	iP		17 54 39.3
			iPcP		17 55 13.1
		Ud	iP		17 55 05.3
			iPcP		17 55 30.4
		De	iP		17 55 27.2
			i		17 56 08.3
		Aleutian Islands (h = 55 km).			
"	6	Up	iPKP		21 12 59.2
		Ki	ePKP		21 12 43
		Sk	iPKP		21 12 55.3
		Um	iPKP		21 12 52.4
		Ud	iPKP		21 13 02.0
		New Hebrides Islands (h = 20 km). Late arrivals wrt the NEIS solution.			
"	7	Up	iPKPl		00 16 23.7
			i		00 16 44.1

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 7 (cont.)

Ki	iPKP		00 16 07.9
Sk	iPKPl		00 16 19.0
Um	iPKPl		00 16 13.6
Ud	iPKPl		00 16 25.9 C

South of Kermadec Islands
(h = 50 km).

" 7

Ki	iP		04 04 02.2
Ud	iP		04 04 10.7

Hindu Kush (h = 230 km).

" 7

Up	iP		05 49 03.7
Ud	iP		05 49 05.6

" 7

Up	iP		05 59 59.8
Ki	iP		05 59 09.3
Sk	iP		05 59 46.6
Um	iP		05 59 33.7
Ud	iP		06 00 02.7
	i		06 00 05.8
De	iP		06 00 26.4

Kurile Islands (h = N).

" 7

Ud	iP		07 45 56.8

Vancouver Island (h = 10 km).

" 7

Up	iP		07 49 34.6
	i		07 49 37.0
	iS		08 00 08.0
			micr sec
	P	Z'	0.6 1.1
	Mx	E	15 22
	Mx	N	14 16
	Mx	Z	25 18
Ki	iP		07 49 13.9
	i		07 49 17.0
	i		07 49 33.5
	iS		07 59 31
			micr sec
	P	Z'	0.1 1.0
	i	Z'	1.9 1.6
	Mx	E	19 15
	Mx	N	33 16
	Mx	Z	19 17
Sk	iP		07 49 38.3
Um	iP		07 49 22.2
	i		07 49 25.6
	i		07 49 39.9
	iS		07 59 43
Ud	iP		07 49 42.4
	i		07 49 45.7
De	iP		07 49 52.6
	i		07 50 02.5

(cont.)

1976
June 7 (cont.)

Luzon (h = N).
m = 6.8, M = 6.7 (Up,Ki).
Double P (Up,Ki,Um,Ud),
small and large, average
separation 3 sec.

" 7

Um	iPKP		08 09 47.1
Ud	iPKP		08 09 55.0

New Hebrides Islands
(h = 20 km).

" 7

Up	iP		09 33 47.5
	i		09 34 23.9
	iS		09 44 25
			micr sec
	Mx	E	1.2 21
	Mx	N	1.6 22
	Mx	Z	3.2 16
Ki	iP		09 33 28.6
	iS		09 43 42
			micr sec
	P	Z'	0.1 1.4
	Mx	E	1.1 13
	Mx	N	2.2 15
	Mx	Z	1.2 14
Sk	eP		09 33 52
	i		09 34 27.4
Um	iP		09 33 35.9
	ipP		09 33 47.5
	iS		09 43 55
Ud	iP		09 33 57.4
	ipP		09 34 09.3

Luzon.
h = 40 km (Um,Ud).
M = 5.6 (Up,Ki).

" 7

Up	iP		10 01 02.2
Ki	iP		10 00 40.6
Um	iP		10 00 47.4
Ud	iP		10 01 10.1

Luzon (h = N).

" 7

Up	iP		14 39 26.9 C
	i		14 41 43.2
	iPP		14 42 54.9
	iS		14 49 57
			micr sec
	P	Z'	0.1 1.0
	PP	Z'	5.2 3.5
	Mx	E	8.1 23
	Mx	N	8.6 20
	Mx	Z	19 22
Ki	iP		14 39 10.2

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
June	7	(cont.)				
		Ki	iS		14 49 37	
					micr	sec
			P	Z'	0.5	1.7
			Mx	E	8.6	16
			Mx	N	7.4	16
			Mx	Z	11	16
		Sk	iP		14 39 07.9	
		Um	iP		14 39 20.8	
			iS		14 49 59	
		Ud	iP		14 39 18.8	
		De	iP		14 39 27.0	
			i		14 41 19.3	
		Mexico (h = 45 km).				
		m = 6.3, M = 6.3 (Up,Ki).				
		The recorded PP at Up gives exceptionally high magnitude of m = 7.4.				
"	7	Up	iP		17 55 52.3	
		Ki	epP		17 55 13	
		Um	iP		17 55 28.4	
		Ud	iP		17 55 58.5	
		Kurile Islands (h = N).				
"	7	Up	iPKPl		19 19 00.7	
			i		19 19 14.6	
		Ud	iPKPl		19 19 02.1	
			i		19 19 17.0	
		De	iPKPl		19 19 11.4	
			i		19 19 27.8	
"	7	Ki	iPKP		21 11 38.0	
		Um	iPKP		21 11 45.1	
		Ud	iPKP		21 11 56.0	
		Loyalty Islands (h = 45 km).				
"	7	Up	ipP		21 47 05.4	
		Ki	iP		21 46 39.1	
		Ud	ipP		21 47 13.2	
		Luzon (h = 20 km).				
"	7	Up	ipP		23 52 00.2	
			i		23 52 03.3	
		Ki	iP		23 51 33.4	
			ipP		23 51 42.6	
		Um	iP		23 51 41.2	
			ipP		23 51 49.6	
		Ud	iP		23 52 02.8	
			ipP		23 52 11.5	
		Luzon.				
		h = 30 km (Ki,Um,Ud).				
"	8	Up	iPKP		01 12 13.0	
		Um	iPKP		01 12 00.5	
		Ud	iPKP		01 12 13.0	

1976						
June	8	Up	iP		05 46 13.8	
		Ki	iP		05 45 23.3	
		Ud	iP		05 46 15.1	
"	8	Ki	iP		07 40 28.5	
		Ud	iP		07 40 56.9	
		Luzon (h = 60 km).				
"	8	Ki	iP		07 48 32.7	
"	8	Ki	iPKP		09 41 14.2	
		Um	iPKP		09 41 21.8	
		New Hebrides Islands (h = 15 km).				
"	8	Ki	iP		11 41 27.7	
		Um	iP		11 41 55.4	
		Ud	iP		11 42 20.1	
		De	iP		11 42 43.2	
		Unimak Island (h = 50 km).				
"	8	Up	ipP		12 18 05.8	
			i		12 20 59.2	
			i		12 21 38.8	
			iLgl		12 21 51.2	
			iLg2		12 22 09.0	
					micr	sec
			Mx	E	0.4	8
			Mx	N	0.5	10
			Mx	Z	0.4	10
		Ki	iP		12 19 31.1	
			i		12 24 06.4	
			iLgl		12 26 08.2	
					micr	sec
			Mx	E	0.4	9
			Mx	N	0.4	9
		Sk	iP		12 18 41.4	
			iLg2		12 23 55.8	
		Um	iP		12 18 47.7	
			ipP		12 18 53.3	
			i		12 23 21.7	
			iLg2		12 24 13.1	
		Ud	ipP		12 18 03.1	
			iLg2		12 22 10.6	
		De	iP		12 17 07.2	
			iLg2		12 20 05.2	
		Austria (h = 20 km).				
"	8	Up	i(P)		13 35 34.6	
			i		13 35 39.7	
"	8	Ud	iP		18 16 55.4	
"	8	Up	iP		18 38 34.1	
		Ud	iP		18 38 40.2	
		Mediterranean Sea (h = 20 km).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	8	De	iPKP		21 30 53.0	
		Solomon Islands (h = N).				
"	8	Up	iP		23 25 11.4	
					micr	sec
			Mx	N	1.0	18
			Mx	Z	0.5	18
		Ki			micr	sec
			Mx	E	0.3	10
			Mx	N	0.7	16
		Um	iP		23 25 03.2	
			i		23 25 12.8	
		Ud	iP		23 25 23.3	
		Burma-China (h = N).				
		M = 5.1 (Up,Ki).				
		Late arrivals wrt the				
		NEIS solution.				
"	8	Up	iP		23 39 25.7	
		Ud	iP		23 39 28.2	
"	9	Up	iP		00 15 37.0	
"	9	Up	iP		00 31 13.4	
			i		00 31 16.7	
			iS		00 39 55	
					micr	sec
			P	Z'	0.1	0.7
			i	Z'	0.3	0.9
			Mx	E	2.8	15
			Mx	N	12	17
			Mx	Z	6.8	16
		Ki	iP		00 31 02.9	
			i		00 31 05.9	
			iPP		00 33 23.7	
			iS		00 39 33	
					micr	sec
			P	Z'	0.7	1.5
			Mx	E	3.7	13
			Mx	N	11	16
			Mx	Z	3.7	13
		Sk	iP		00 31 27.0	
			i		00 31 30.0	
			iPP		00 33 50.2	
		Um	iP		00 31 03.5	
			i		00 31 07.0	
			iPP		00 33 23.1	
			iS		00 39 32	
		Ud	iP		00 31 26.1	
			i		00 31 29.5	
			iPP		00 33 55.2	
		De	iP		00 31 29.6	
			i		00 31 32.2	
		Burma-China (h = N).				
		(cont.)				

1976 June	9	(cont.)				
		m = 6.5, M = 6.2 (Up,Ki).				
		Double P, small and large,				
		average separation 3.1 sec.				
"	9	Up	iP		01 30 23.8	
		Ud	iP		01 30 27.9	
		De	iP		01 30 42.7	
"	9	Up	iP		03 09 55.4	C
			iPn		03 11 00.7	
			iPP		03 11 13.6	
					micr	sec
			P	Z'	0.2	0.9
		Ki	iP		03 09 38.0	C
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		03 10 10.3	C
		Um	iP		03 09 39.3	C
			iPP		03 10 53.4	
		Ud	iP		03 10 11.5	
		De	iP		03 10 18.7	C
			iPP		03 11 46.2	
		Kazakh SSR.				
		m = 5.8 (Up,Ki).				
		Underground explosion.				
"	9	Up	iPKPl		10 02 23.4	
		Ki	i(PKP)		10 02 06.9	
		Ud	iPKPl		10 02 24.1	
		De	iPKPl		10 02 32.9	
"	9	Up	iP		10 07 24.3	
			ipP		10 07 27.6	
			i		10 08 12.0	
			iS		10 11 23	
					micr	sec
			pP	Z'	0.1	1.3
			Mx	E	2.8	10
			Mx	N	2.7	12
			Mx	Z	4.0	13
		Ki	iP		10 08 31.6	
			i		10 17 52.4	
					micr	sec
			Mx	E	1.3	10
			Mx	N	0.9	12
			Mx	Z	0.9	12
		Sk	ipP		10 08 12.3	
		Um	ipP		10 08 00.6	
			iS		10 12 24	
		Ud	iP		10 07 36.7	
		De	iP		10 07 04.3	
		Turkey (h = 15 km).				
		M = 5.0 (Up,Ki).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	9	Ud	i(P)		11 06 01.2
"	9	Up	eP		13 16 02
"	9	Up	iP		13 50 32.9
		Ud	iP		13 51 40.6
"	9	Up	iP		14 39 28.4
		Ki	eP		14 39 18
			i		14 39 26.9
		Sk	eP		14 39 41
			i		14 39 47.5
		Um	iP		14 39 23.8
			i		14 39 31.0
		Ud	iP		14 39 39.5
		Banda Sea (h = N).			
"	9	Up			micr sec
			Mx	E	1.2 21
			Mx	N	1.4 20
			Mx	Z	1.6 20
		Ki	iP		14 41 22.0
			i		14 41 25.6
					micr sec
			P	Z'	0.1 1.2
			Mx	E	1.6 21
			Mx	N	1.3 22
			Mx	Z	1.3 19
		Sk	iP		14 41 46.0
		Um	iP		14 41 29.5
		Ud	iP		14 41 48.0
		Banda Sea (h = N).			
		M = 5.6 (Up,Ki).			
"	9	Up	iPKP		16 49 21.2
		Ki	iPKP		16 49 10.1
		Sk	iPKP		16 49 21.3
		Um	iPKP		16 49 15.3
		Ud	iPKP		16 49 24.3
		De	iPKP		16 49 29.9
		New Britain (h = 20 km).			
"	9	Up	iP		17 51 07.9
		Ud	iP		17 51 20.7
		Burma-China (h = N).			
"	9	Up	iLgl		18 55 24.3
		Um	iP		18 52 27.9
		Ud	iP		18 51 33.1
			iLg2		18 55 47.5
		De	iP		18 50 42.6
			iS		18 52 25.2
			iLg2		18 53 53.7
		Italy (h = 20 km).			

1976 June	9	Sk	iP		21 06 08.9
"	9	Up	iP		22 52 47.0
			ipP		22 53 02.3
		Ki	iP		22 52 24.8
		Sk	iP		22 52 50.3
		Um	iP		22 52 33.2
		Ud	iP		22 52 56.4
			ipP		22 53 11.8
		Formosa.			
		h = 55 km (Up,Ud).			
"	9	Ud	iP		23 09 22.7
		South Atlantic Ocean (h = N).			
"	9	Up	iP		23 14 46.0
					micr sec
			P	Z'	0.1 1.4
		Ud	iP		23 14 43.0
		South Atlantic Ocean (h = N).			
"	10	Up	iPKPl		00 33 54.3
		Sk	iPKPl		00 33 43.6
		Um	iPKPl		00 33 41.8
		Ud	iPKPl		00 33 53.7
		De	iPKPl		00 34 04.1
"	10	Up	iP		03 48 28.8
		Um	iP		03 48 10.3
		Ud	iP		03 48 36.1
"	10	Ki	iP		05 07 13.4
		Um	iP		05 06 49.3
		Ud	iP		05 06 50.4
		Iran (h = 35 km).			
"	10	Up	iP		05 38 55.1
		Ki	iP		05 38 30.2
		Um	iP		05 38 39.4
		Ud	iP		05 39 04.9
		Formosa (h = 130 km).			
"	10	Up	iP		06 00 36.0
					micr sec
			Mx	Z	0.5 13
		Ki	eP		06 01 44
		Sk	iP		06 01 15.3
		Um	i		06 01 25.2
		Ud	iP		06 00 43.3
		De	iP		06 00 10.2
		Crete (h = 90 km).			
"	10	Up	iP		10 30 06.1 C
			ipP		10 30 18.9
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 10 (cont.)

Up			micr	sec	
	P	Z'	0.2	1.2	
Ki	iP		10 29 13.3		C
	ipP		10 29 25.7		
			micr	sec	
	P	Z'	0.1	1.0	
Sk	iP		10 29 49.8		
Um	iP		10 29 38.3		C
	ipP		10 29 50.1		
Ud	iP		10 30 09.9		C
	ipP		10 30 22.3		
De	iP		10 30 30.3		
	ipP		10 30 42.9		

Off coast of Kamchatka.
h = 45 km (Up,Ki,Um,Ud,De).
m = 5.9 (Up,Ki).

"	10	De	iPKP1	11 28 26.0	

Loyalty Islands (h = N).

"	10	Up	iP	13 21 29.4	
		Ud	iP	13 22 12.0	
		De	iP	13 22 41.7	
"	10	Up	i(P)	14 25 00.1	
"	10	Ud	iP	15 12 15.3	
"	10	Ud	iP	15 22 03.5	
"	10	Ud	ipP	20 24 50.8	

South Atlantic Ocean (h = N).

"	10	Ud	iP	22 17 24.1	
			i	22 17 29.0	
"	11	Sk	iP	00 58 12.7	
		Um	iP	00 58 01.3	
		Ud	iP	00 57 41.8	

Turkey (h = 30 km).

"	11	Up	iP	01 22 43.1	
		Ud	iP	01 22 44.7	

South Atlantic Ocean (h = N).
Early arrivals wrt the NEIS solution.

"	11	Up	iP	03 53 03.9	
		Ki	iP	03 53 13.0	
		Um	iP	03 53 12.0	
		Ud	iP	03 52 51.9	
			i	03 53 30.3	

(cont.)

1976
June 11 (cont.)

		De	iP	03 52 51.1	

Leeward Islands (h = 40 km).

"	11	Up	iP		05 16 28.7	
			i		05 16 32.0	
			iPP		05 18 13.3	
			i		05 18 28.3	
					micr	sec
			P	Z'	0.1	1.1
			Mx	E	0.7	8
			Mx	N	1.0	7
			Mx	Z	1.3	7
		Ki	iP		05 16 26.8	C
			i		05 16 29.8	
					micr	sec
			P	Z'	0.1	0.6
			Mx	E	1.2	7
			Mx	N	1.3	7
			Mx	Z	1.1	7
		Sk	eP		05 16 50	
			iPP		05 18 36.7	
		Um	iP		05 16 20.7	
			i		05 16 24.6	
			i(PP)		05 17 48.6	
			iPP		05 18 00.3	
			iS		05 22 34	
		Ud	iP		05 16 45.3	C
			i		05 16 48.5	
			iPP		05 18 25.5	
		De	iP		05 16 45.9	C
			i		05 16 48.8	
			iPP		05 18 27.5	

Sinkiang (h = 30 km).
m = 5.6 (Up,Ki).
Double P, average separation 3.3 sec.
The second phase, if interpreted as pP, gives h = 10 km.

"	11	Up	iPKP2	06 11 24.2	
		Sk	ePKP1	06 11 14	
		Um	iPKP1	06 11 08.6	
		Ud	iPKP1	06 11 22.5	
		De	iPKP2	06 11 43.5	

Kermadec Islands (h = N).

"	11	Up	iPKP1	06 36 31.0	
		Ud	iPKP1	06 36 32.3	
		De	iPKP1	06 36 41.4	
"	11	Up	iP	08 24 53.2	
		Ud	iP	08 24 43.8	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	11	Um	iP	10 00 44.8	
			i	10 00 47.9	
		Ud	iP	10 00 23.0	
		Turkey (h = 20 km).			
"	11	Up	iP	10 25 22.8	
			i	10 25 33.4	
			i	10 25 43.2	
		Sk	iP	10 25 18.5	
		Um	iP	10 25 12.8	
		Ud	iP	10 25 23.5	
"	11	Up	iP	13 49 23.0	
		Um	iP	13 49 23.6	
		Ud	iP	13 49 39.6	
		Uzbek SSR (h = N).			
"	11	Up	iPKP	15 45 18.7	
		Sk	i(PKP)	15 45 09.3	
		Um	iPKP	15 45 09.2	
		Ud	iPKP	15 45 18.9	
		Solomon Islands (h = 50 km).			
"	11	Up	iP	17 19 58.1	
			iS	17 23 06.9	
		Ki	iP	17 21 34.3	
			iLgl	17 28 17.4	
				micr	sec
			P	Z' 0.1	1.5
		Sk	iP	17 20 42.9	
			iLgl	17 25 35.1	
		Um	iP	17 20 50.5	
			iLgl	17 26 10.5	
		Ud	iP	17 19 58.2	
			iS	17 22 43.0	
			iLgl	17 23 56.9	
		De	iP	17 19 07.0	
			iS	17 20 51.2	
			iLgl	17 21 52.9	
		Austria (h = 50 km).			
"	11	Up	iP	18 30 50.3 C	
			i	18 30 54.9	
				micr	sec
			P	Z' 0.1	0.9
		Ki	eP	18 32 07	
			i	18 32 14.9	
		Sk	iP	18 31 32.6	
		Um	iP	18 31 29.9	
		Ud	iP	18 30 57.0	
		De	iP	18 30 17.0	
		Greece-Albania (h = 55 km).			
"	11	Up	iP	20 05 30.6	
		(cont.)			

1976 June	11	(cont.)			
		Ki	iP	20 04 45.4	
		Sk	iP	20 05 21.1	
		Um	iP	20 05 05.8	
			i	20 05 19.3	
		Ud	iP	20 05 36.9	
		Kurile Islands (h = 25 km).			
"	11	De	iPKP	20 16 23.4	
		Tonga Islands (h = 35 km).			
"	12	Up	iP	01 04 16.7 C	
			i	01 04 23.3	
			iS	01 08 19.0	
				micr	sec
			P	Z' 0.5	0.9
			i	Z' 0.6	0.8
			Mx	E 4.5	11
			Mx	N 23	13
			Mx	Z 32	13
		Ki	iP	01 05 29.8 C	
			i	01 07 27.7	
				micr	sec
			P	Z' 0.2	1.1
			Mx	E 8.2	11
			Mx	N 14	13
			Mx	Z 14	13
		Sk	iP	01 04 55.8 C	
		Um	iP	01 04 53.7 C	
			iS	01 09 25.0	
		Ud	iP	01 04 22.5 C	
			iS	01 08 31.1	
		De	iP	01 03 45.9 C	
		Ionian Sea (h = 10 km).			
		m = 6.0, M = 5.9 (Up,Ki).			
"	12	Up	iP	02 46 39.8	
		Sk	iP	02 47 19.2	
		Um	eP	02 47 22	
		Ud	iP	02 46 46.1	
			ipP	02 46 54.9	
		De	ipP	02 46 15.4	
		Ionian Sea (h = 40 km).			
"	12	Up	e(PKP)	03 20 49	
			iPKPl	03 20 50.9	
		Sk	e(PKP)	03 20 40	
			iPKPl	03 20 43.0	
		Um	iPKPl	03 20 37.9	
		Ud	iPKPl	03 20 52.0	
		De	iPKPl	03 21 02.3	
		Kermadec Islands (h = 45 km).			
"	12	Up	iPKPl	03 27 50.8	
			i	03 28 03.2	
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 12 (cont.)

Sk	iPKPl		03 27 42.8	
Um	iPKPl		03 27 39.7	
Ud	e(PKP)		03 27 46	
	iPKPl		03 27 52.6	
De	iPKP2		03 28 09.0	

Kermadec Islands (h = N).

" 12	Up	iP	03 42 22.6	
		i	03 42 27.2	
			micr sec	
		Mx Z	0.8 19	
	Ki		micr sec	
		Mx N	0.7 20	
	Sk	iP	03 42 05.0	
	Ud	iP	03 42 12.9	
	De	iP	03 42 19.1	

El Salvador (h = 90 km).

" 12	Up	iP	03 46 39.9	
		i	03 46 46.5	
	Sk	iP	03 47 10.1	
		i	03 47 20.2	C
	Um	iP	03 47 25.8	
	Ud	iP	03 46 46.0	
		i	03 46 53.0	
	De	iP	03 46 11.0	C

Ionian Sea.

" 12	Up	iP	04 59 45.3	
			micr sec	
		Mx N	0.5 13	
		Mx Z	0.8 12	
	Ki	ipP	05 01 09.3	
			micr sec	
		Mx N	0.3 11	
	Sk	iP	05 00 23.4	
	Um	iP	05 00 23.6	
	Ud	iP	04 59 51.8	
		i	04 59 58.7	
	De	iP	04 59 16.0	

Ionian Sea (h = 45 km).
M = 4.2 (Up,Ki).

" 12	Ud	iPKPl	05 46 27.0	
	De	iPKP	05 46 37.8	

Tonga Islands (h = 35 km).

" 12	Up	iPKPl	06 49 34.8	
	Sk	iPKPl	06 49 27.2	
	Ud	iPKPl	06 49 35.7	
	De	iPKPl	06 49 45.3	
" 12	Up	iPKPl	06 54 00.9	

1976
June 12 (cont.)

Ud	iPKPl		06 53 59.9	
	i		06 54 07.9	
De	iPKPl		06 54 15.2	
" 12	Up	iP	10 29 54.6	
	Ki	eP	10 31 10	
	Sk	iP	10 30 34.1	
	Um	iP	10 30 34.1	
	Ud	iP	10 30 01.7	
		i	10 30 10.9	
	De	iP	10 29 25.7	

Greece (h = N).

" 12	Up	iP	10 38 25.2	
	Ki	iP	10 37 18.6	
		iS	10 39 18.1	
			micr sec	
		P Z'	0.1 0.8	
	Sk	iP	10 37 24.8	
		iS	10 39 23.7	
	Um	iP	10 37 53.2	
		iS	10 40 12.0	
		iSS	10 40 44.0	
	Ud	iP	10 38 07.8	
	De	iP	10 38 53.7	

Jan Mayen Island (h = N).

" 12	Um	i(P)	14 07 59.4	
" 12	Ud	iP	15 56 18.0	
" 12	Ud	iP	17 06 24.8	
" 12	Up	iP	17 32 32.3	
	Ud	eP	17 32 02	
" 12	Up	iP	23 58 27.4	
	Ud	iP	23 58 05.6	
" 13	Up	iP	00 24 55.6	
	Ki	eP	00 26 09	
	Sk	iP	00 25 35.4	
	Um	iP	00 25 33.2	
	Ud	iP	00 25 02.4	C
	De	ipP	00 24 36.7	

Ionian Sea (h = 50 km).

" 13	Up	iP	04 09 02.4	
	Ki	iP	04 09 24.8	
	Um	iP	04 09 17.9	
	Ud	i	04 08 42.5	

North Atlantic Ocean (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	13	Ki	iP		04 34 37.7	
			i		04 34 46.3	
					micr sec	
			Mx	E	0.5 15	
			Mx	N	0.3 12	
			Mx	Z	0.6 15	
		Sk	eP		04 34 25	
		Ud	i		04 35 06.7	
		De	iP		04 35 37.6	
		Iceland (h = N).				
"	13	Um	ipP		05 29 12.7	
		Ud	ipP		05 29 17.4	
		De	iP		05 29 44.3	
		Iceland (h = N).				
"	13	Up	iP		11 40 36.8	
"	13	Ud	iP		11 56 08.8	
"	13	Ud	iP		17 32 12.6	
		De	iP		17 32 24.5	C
"	13	Up	iP		18 49 40.7	
			iPP		18 53 41.8	
					micr sec	
			PP	Z'	0.1 1.3	
			Mx	E	2.6 22	
			Mx	N	2.1 23	
			Mx	Z	5.7 22	
		Ki	iP		18 49 25.3	
					micr sec	
			P	Z'	0.1 1.2	
			Mx	E	3.3 20	
			Mx	N	1.8 20	
			Mx	Z	1.6 18	
		Sk	iP		18 49 47.2	
		Um	iP		18 49 29.8	C
			i		18 49 47.9	
			iPP		18 53 14.4	
			iSKS		19 00 05	
			iS		19 00 41	
		Ud	iP		18 49 49.5	C
			i		18 49 53.6	
		De	iP		18 49 54.3	
		Molucca Sea (h = N).				
		M = 5.8 (Up,Ki).				
"	13	Ki	eP		19 01 37	
		Sk	iP		19 01 53	
		Um	iP		19 01 40.3	
		Ud	iP		19 01 57.2	
		Molucca Sea (h = 30 km).				

1976 June	13	Up	iP		19 17 43.8	
					micr sec	
			P	Z'	0.1 1.2	
		Ki	iP		19 17 46.8	
					micr sec	
			P	Z'	0.2 1.5	
		Sk	iP		19 17 28.4	
		Um	iP		19 17 49.4	
		Ud	iP		19 17 32.0	
		De	iP		19 17 34.5	
		Mona Passage (h = 50 km).				
		m = 5.7 (Up,Ki).				
"	13	Up	iP		21 41 03.3	
		Ki	iP		21 41 33.6	
		Um	eP		21 41 13	C
		Ud	iP		21 41 15.5	
		De	iP		21 41 04.7	
		Iran (h = 50 km).				
"	13	Up	iSKS		22 27 39	
			iS		22 28 43	
					micr sec	
			Mx	N	0.7 20	
			Mx	Z	1.8 22	
		Ki			micr sec	
			Mx	E	0.6 18	
			Mx	N	0.7 20	
			Mx	Z	1.7 22	
		Um	iSKS		22 27 35	
			iS		22 28 59	
		Peru (h = N).				
		M = 5.3 (Up,Ki).				
"	14	Um	iP		04 48 32.0	
		Mona Passage (h = 15 km).				
"	14	Up	iP		06 57 27.4	
			ipP		06 57 32.4	
			iPP		06 57 50.0	
					micr sec	
			pP	Z'	0.2 1.5	
			Mx	E	0.6 10	
			Mx	N	0.4 11	
			Mx	Z	0.7 11	
		Ki	iP		06 58 35.2	
					micr sec	
			P	Z'	0.1 1.0	
			Mx	E	0.5 11	
			Mx	N	0.5 11	
			Mx	Z	0.6 12	
		Sk	i		06 58 14.3	
		Um	iP		06 58 00.5	
		Ud	iP		06 57 38.5	
			i		06 57 41.4	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 14 (cont.)

Ud	ipP		06 57 45.5
De	iP		06 57 07.2

Turkey.
h = 25 km (Up,Ud).
m = 5.5, M = 4.4 (Up,Ki).

" 14	Up	i(P)		10 33 37.2
" 14	Ki	iP		11 16 10.6
" 14	Up	iP		11 19 22.6
	Ud	iP		11 19 38.2
" 14	Ud	iP		14 29 01.0
" 14	Um	i		14 48 47.4
	Ud	iPKPl		14 48 39.5
	De	iPKPl		14 48 51.9
" 14	Ki	iP		17 08 20.4
	Ud	iP		17 08 34.3

Tadzhik-Sinkiang (h = 45 km).

" 14	Up	iPKPl		17 22 18.7
	Ud	iPKPl		17 22 20.8 C
	De	iPKPl		17 22 31.1
" 14	Ki	iP		17 22 01.0
	Um	iP		17 22 28.8

Aleutian Islands (h = 50 km).

" 14	Up	iP		18 12 37.3
		ipP		18 12 39.7
			micr	sec
		pP	Z' 0.1	1.0
		Mx	N 1.0	18
		Mx	Z 2.0	17
	Ki	iP		18 11 43.9 C
			micr	sec
		P	Z' 0.1	1.0
		Mx	E 1.0	16
		Mx	N 1.0	16
		Mx	Z 1.2	16
	Sk	iP		18 12 15.4
	Um	iP		18 12 10.5
		ipP		18 12 12.8
	Ud	iP		18 12 35.7
	De	iP		18 12 59.4

Aleutian Islands.
h = 10 km (Up,Um).
m = 6.0, M = 5.1 (Up,Ki).

" 14	Up	iP		20 24 58.3

(cont.)

1976
June 14 (cont.)

Up	i		20 25 21.3
Ki	iP		20 24 04.4
Sk	iP		20 24 41.1
Um	iP		20 24 28.4
	i		20 24 41.0
Ud	iP		20 25 02.5
De	iP		20 25 23.0

Kamchatka (h = N).

" 14	Ki	iP		23 18 41.7
	Um	iP		23 18 35.3
	Ud	iP		23 18 56.5

Tadzhik-Sinkiang (h = 60 km).

" 14	Ki	iP		23 59 40.6

Tadzhik-Sinkiang (h = N).

" 15	Up	iP		00 13 24.9
	Ki	eP		00 14 33
	Ud	iP		00 13 33.7
	De	iP		00 12 58.3

Crete (h = N).

" 15	Up	iP		06 22 55.8
		ipP		06 23 08.0
		i(PP)		06 26 19.3
		iPP		06 27 06.2
		iS		06 34 35
			micr	sec
		pP	Z' 0.1	1.1
		Mx	E 11	21
		Mx	N 27	24
		Mx	Z 20	21
	Ki	iP		06 22 35.9
		ipP		06 22 47.4
		i(PP)		06 26 29.6
			micr	sec
		pP	Z' 0.1	1.5
		Mx	E 12	23
		Mx	N 22	23
		Mx	Z 12	22
	Sk	eP		06 22 52
		iPP		06 27 16.9
	Um	i(P)		06 22 42.4
		i		06 22 53.4
		iS		06 34 11
	Ud	iP		06 23 03.2
		ipP		06 23 15.1
	De	iPP		06 28 40.2

West Irian.
h = 40 km (Up,Ki,Ud).
m = 6.2, M = 6.7 (Up,Ki).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 15 Up iP 07 20 15.6
Ud iP 07 20 15.6
Aleutian Islands (h = 45 km).

" 15 Up iP 12 34 21.6
micr sec
P Z' 0.1 0.8
Ki iP 12 33 27.3
Sk iP 12 34 04.7
Um iP 12 33 53.4
Ud iP 12 34 25.6 C
De iP 12 34 47.3
Kamchatka (h = 30 km).

" 15 Up iP 12 51 48.9
Ki eP 12 52 58
Sk iP 12 52 28.3
Um iP 12 52 22.6
i 12 52 39.0
Ud iP 12 51 55.4 C
De iP 12 51 19.2
Ionian Sea (h = 40 km).

" 15 Up iPKPl 16 29 15.0
micr sec
PKPl Z' 0.1 0.7
Sk iPKPl 16 29 07.3
Um i(PKP) 16 29 02.2
iPKPl 16 29 04.5
Ud iPKPl 16 29 16.6
De iPKPl 16 29 26.0
Kermadec Islands (h = 190 km).

" 15 Ki iP 18 28 25.8
i 18 28 33.7
Um iP 18 28 25.5
i 18 28 31.9
Ud iP 18 28 55.4
Luzon (h = 20 km).

" 15 Ki iP 19 32 25.9
Um iP 19 32 37.9
Mariana Islands (h = N).

" 15 Ki iP 20 44 52.3 D
Sk eP 20 45 26
Um iP 20 45 09.0 D
Japan (h = 35 km).

" 15 Up iP 22 47 48.7
ipP 22 47 56.1
micr sec
P Z' 0.1 1.0
pP Z' 0.2 1.2
Mx E 0.6 17
(cont.)

1976
June 15 (cont.)
Up micr sec
Mx N 0.6 18
Ki iP 22 47 10.7 C
ipP 22 47 17.5
micr sec
P Z' 0.1 1.0
Mx E 1.2 12
Mx N 1.7 15
Mx Z 1.0 14
Sk iP 22 47 44.3
ipP 22 47 51.3
Um iP 22 47 27.2
ipP 22 47 34.2
Ud iP 22 47 56.2 C
ipP 22 48 03.2
De iP 22 48 11.3
Japan.
h = 25 km (Up,Ki,Sk,Um,Ud).
m = 5.9, M = 5.3 (Up,Ki).

" 15 Up iP2 23 45 21.3
iS 23 54 05
micr sec
P2 Z' 0.1 1.0
Mx E 1.5 16
Mx N 2.2 20
Mx Z 4.7 23
Ki iPl 23 46 03.3
iP2 23 46 07.4
iS 23 55 32
micr sec
P2 Z' 0.1 0.1
Mx E 3.3 15
Mx N 2.6 18
Mx Z 1.5 16
Sk iP2 23 45 34.4
Um iPl 23 45 43.7
iP2 23 45 47.6
ipP2 23 45 55.4
iS 23 54 52
Ud iPl 23 45 12.1
iP2 23 45 16.1
ipP2 23 45 24.0
De ipP2 23 45 05.9
North of Ascension Island.
h = 25 km (Um,Ud).
m = 5.9, M = 5.6 (Up,Ki).
Interpreted as double P, small and large, average separation 3.9 sec.

" 16 Ki iP 00 16 06.7
Sk iP 00 16 40.8
Um iP 00 16 23.6
Japan (h = 35 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
June	16	Ud	iPKP1	01 43 28.1	
			i	01 43 34.1	
		De	iPKP1	01 43 39.0	
			iPKP2	01 43 43.5	
		Tonga-Kermadec Islands (h = N).			
"	16	Up	iP	03 29 09.7	
		Ki	eP	03 28 17	
		Ud	iP	03 29 15.3	
		Kamchatka (h = 140 km).			
"	16	Ki	iP	05 21 04.1	
		Um	iP	05 21 17.1	
		Japan (h = 40 km).			
"	16	Um	i(PKP)	06 21 59.1	
			iPKP	06 22 04.4	
		New Guinea (h = 45 km).			
"	16	Ud	i(P)	08 47 04.0	
"	16	Up	iP	14 36 03.8	
"	16	Up	iP	15 36 40.7	
		Ki	iP	15 36 50.1	
		Sk	iP	15 37 06.8	
		Um	iP	15 36 39.4	
		Ud	iP	15 36 57.2	C
			i	15 37 54.6	
		De	iP	15 36 52.9	
		Hindu Kush (h = 170 km).			
"	16	Ki	iP	16 46 45.6	
		Sk	iP	16 46 27.5	
		Um	iP	16 46 48.7	
		Ud	iP	16 46 31.1	
		Mona Passage (h = 55 km).			
"	16	Ud	iP	16 51 32.8	
"	16	Up	iP	17 05 08.4	
		Ki	iP	17 05 19.2	
		Sk	iP	17 05 35.1	
		Um	iP	17 05 08.8	C
		Ud	iP	17 05 26.9	
		De	iP	17 05 23.8	
		Hindu Kush (h = 220 km).			
"	17	Up	iP	02 55 20.5	C
			i	02 55 34.6	
			ipP	02 55 41.2	
				micr	sec
			P Z'	0.1	0.7
		(cont.)			

1976					
June	17	(cont.)			
		Ki	iP	02 54 25.2	C
			ipP	02 54 45.4	
				micr	sec
			P Z'	0.2	1.0
		Sk	iP	02 54 53.6	C
			ipP	02 55 13.9	
		Um	iP	02 54 54.0	C
			ipP	02 55 13.9	
		Ud	iP	02 55 17.6	C
			i	02 55 29.8	
			ipP	02 55 36.9	
		De	iP	02 55 41.6	C
			ipP	02 56 02.0	
		Kodiak Island.			
		h = 80 km (Up,Ki,Sk,Um,Ud,De).			
		m = 6.0 (Up,Ki).			
"	17	Ki	iP	08 50 28.1	
		Sk	iP	08 51 04.7	
		Ud	iP	08 51 13.5	
		De	i	08 51 29.0	
		USSR-Mongolia (h = 20 km).			
"	17	Up	iP	10 16 17.3	
		Ud	iP	10 16 20.2	
"	17	Up	iS	14 34 45.9	
			iLg2	14 36 27.0	
			i	14 37 07.9	
				micr	sec
			Mx E	0.5	9
		Ki	iP	14 33 42.9	
				micr	sec
			P Z'	0.1	1.5
			Mx E	0.7	9
			Mx Z	0.4	9
		Sk	iP	14 32 50.2	
		Um	iP	14 32 52.4	
			iLg2	14 38 50.1	
		Ud	i	14 32 10.0	
			iLg2	14 36 25.2	
		De	iP	14 31 15.7	
			iS	14 33 11.1	
			iLg2	14 34 19.5	
		Italy (h = 25 km).			
"	17	Ud	iP	15 04 35.8	
		De	iP	15 04 05.1	C
"	17	Up	i(P)	15 31 15.2	
		Ud	i(P)	15 31 05.3	
"	17	Up	iRg	17 08 38.2	
		Ud	iRg	17 08 57.1	
		East-central Sweden.			
		Near-surface event.			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	17	Ki	iP		18 47 12.6
		Sk	iP		18 47 25.0
		Ud	iP		18 47 23.3
		Sumatra (h = 80 km).			
"	17	Ki	i		22 31 05.6
		Sk	i(PKP)		22 31 05.7
		Ud	i		22 31 16.2
		New Hebrides Islands (h = 20 km).			
"	18	Ud	iP		00 05 57.0
"	18	Ki	iP		01 01 21.8
			i		01 01 37.6
		Um	iP		01 01 35.1
		Mariana Islands (h = N).			
"	18	Up	iPKPl		02 05 05.9
					micr sec
			PKPl	Z'	0.1 1.1
		Ki	ePKP		02 04 54
		Sk	iPKPl		02 04 57.1
		Um	iPKPl		02 04 55.0
			i		02 05 01.5
		Ud	iPKPl		02 05 07.8
			i		02 05 21.8
		De	iPKPl		02 05 18.8
		South of Tonga Islands (h = N).			
"	18	Up	iSgl		10 11 10.7
		Sk	iSgl		10 10 31.5
		Ud	iSgl		10 10 08.2
		De	iSgl		10 11 08.6
		Southwest Norway, 60.4°N, 7.1°E.			
		Origin time = 10 08 27.			
		M_L = 2.5 (Sk,Ud).			
		By combination with Kongsberg and Bergen readings.			
"	18	Up	iSKS		10 38 39
			iS		10 39 45
					micr sec
			Mx	E	0.9 22
			Mx	N	0.7 20
			Mx	Z	2.2 23
		Ki			micr sec
			Mx	E	2.0 21
			Mx	N	1.0 19
			Mx	Z	1.0 17
		Um	iS		10 40 00
		Peru (h = N).			
		M = 5.6 (Up,Ki).			
"	18	Ud	iP		15 12 00.2

1976 June	18	Ud	iP		18 53 47.7
		Sulu Sea (h = N).			
"	18	Up	iP		19 00 26.8
"	18	Um	iP		22 30 19.3
		Japan (h = 35 km).			
"	18	Sk	iP		22 55 25.2
"	19	Ki	iP		00 17 48.9
		Mariana Islands (h = 200 km).			
"	19	Ud	iP		00 53 06.5
		Hindu Kush (h = 100 km).			
"	19	Ud	i(PKP)		06 41 00.8
		Solomon Islands (h = 45 km).			
"	19	Ki	ePKP		07 57 15
		New Hebrides Islands (h = 120 km).			
"	19	Up	iP		08 00 49.5
		Um	iP		08 00 33.2
		Ud	iP		08 01 00.6
"	19	Up	iP		08 57 40.7
		Ud	iP		08 57 51.4
		De	iP		08 57 13.0
"	19	Ud	iP		10 43 35.1
"	19	Ud	iP		11 35 01.8
		Sinkiang, China (h = N).			
"	19	Up	iP		15 13 29.1
			i		15 13 32.0
			iS		15 24 10.5
					micr sec
			P	Z'	0.2 1.1
			Mx	E	2.0 21
			Mx	N	2.8 22
			Mx	Z	5.2 21
		Ki	iP		15 13 48.2
			iPP		15 17 31.7
					micr sec
			Mx	E	5.5 24
			Mx	N	6.8 25
			Mx	Z	1.9 18
		Sk	iP		15 13 49.5
			i		15 13 52.5
			iPP		15 17 29.4
		Um	iP		15 13 38.1
			iPP		15 17 05.7
			iS		15 24 25

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 19 (cont.)

Ud	iP		15 13 40.1
	iPP		15 17 07.6
De	iP		15 13 25.5
	i		15 13 33.2

Mascarene Islands (h = N).
M = 5.9 (Up,Ki).
Late arrivals wrt the NEIS solution.

" 19	Up	iP		15 42 02.0
	De	iP		15 41 59.7
" 19	Up	iP		20 57 35.5
" 19	Up	iPKP		22 19 38.5
	Ud	iPKP		22 19 37.5
" 20	Ud	iP		01 21 29.1
" 20	Up	iP		02 43 43.8
	Ki	eP		02 43 33
	Um	iP		02 43 35.2
	Ud	iP		02 43 55.5

Burma-China (h = 15 km).

" 20	Up	iP		02 52 45.4
	Sk	iP		02 53 24.6
	Um	iP		02 53 27.9
	Ud	iP		02 52 54.6
	De	iP		02 52 13.5

Ionian Sea (h = 70 km).

" 20	Up	iP		04 50 00.7	C
		i		04 50 15.5	
		iS		04 59 47	
				micr sec	
		P	Z'	0.3 0.8	
		i	Z'	2.8 1.9	
		Mx	E	3.6 16	
		Mx	N	8.4 17	
		Mx	Z	9.2 16	
	Ki	iP		04 49 34.0	C
		i		04 49 46.6	
		iS		04 58 58	
				micr sec	
		P	Z'	0.3 0.9	
		i	Z'	1.4 2.0	
		Mx	E	5.3 18	
		Mx	N	7.8 20	
		Mx	Z	8.5 19	
	Sk	iP		04 50 02.7	C
		i		04 50 16.9	
	Um	iP		04 49 44.0	C
		i		04 49 57.5	

(cont.)

1976
June 20 (cont.)

Um	iS		04 59 17	
Ud	iP		04 50 09.5	C
	i		04 50 24.2	
De	iP		04 50 19.5	
	i		04 50 33.8	

Ryukyu Islands.
h = 50 km (Up,Ki,Sk,Um,Ud,De).
m = 6.8, M = 6.1 (Up,Ki).

" 20	Up	iP		04 56 01.8
				micr sec
		P	Z'	0.1 1.0
	Ki	iP		04 57 15.3
	Sk	iP		04 56 43.5
	Um	iP		04 56 39.0 C
	Ud	iP		04 56 10.1
		i		04 56 29.8
	De	iP		04 55 34.2

Greece (h = 50 km).

" 20	Up	iPKPl	09 27 28.3
	Ud	iPKPl	09 27 29.7
	De	iPKPl	09 27 43.2
" 20	Ki	iP	09 57 33.1
	Ud	iP	09 58 12.7

Ryukyu Islands (h = N).

" 20	Up	iP	15 40 13.1
	Um	iP	15 40 09.0
	Ud	iP	15 40 32.2

" 20	Up	iP		21 05 27.6	C
		i		21 05 32.3	
		i		21 07 37.2	
		iS		21 15 32.5	
		iP'P'		21 32 14.6	
				micr sec	
		P	Z'	0.4 1.3	
		i	Z'	3.8 1.5	
		Mx	E	36 25	
		Mx	N	139 27	
		Mx	Z	50 18	
	Ki	iP		21 05 28.6	
		i		21 05 33.4	
		iS		21 15 36.2	
		iP'P'		21 32 08.4	
				micr sec	
		P	Z'	0.2 1.1	
		i	Z'	7.0 1.9	
		Mx	E	52 18	
		Mx	N	85 22	
		Mx	Z	73 18	
	Sk	iP		21 05 42.3	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 20 (cont.)

Sk	i	21 05 47.5
	iS	21 16 05.6
	iP'P'	21 32 06.2
Um	iP	21 05 24.7
	i	21 05 29.2
	iS	21 15 31
	iP'P'	21 32 10.2
Ud	iP	21 05 38.3
	i	21 05 43.1
	iPP	21 08 50.5
	iS	21 15 59.4
	iP'P'	21 32 11.4
De	iP	21 05 35.7
	i	21 05 41.1
	iPP	21 08 37.9
	iP'P'	21 32 01.0

Sumatra (h = 35 km).
m = 7.3, M = 7.2 (Up,Ki).
Double P, small and large, average separation 4.8 sec.

" 20

Ki	iP	21 21 23.1
Um	iP	21 21 19.4

Probably Sumatra.

" 20

Ki	iP	21 23 12.9

" 20

Ki	iP	21 25 51.4
Um	iP	21 25 47.9

Probably Sumatra.

" 20

Up	iP	21 37 28.3
Um	iP	21 37 27.3
Ud	iP	21 37 18.1

" 20

Up	iP	21 39 01.6
Ki	iP	21 39 00.0
Um	iP	21 38 57.0
Ud	iP	21 39 09.7

Sumatra.
Origin time = 21 26 47.
Approximate origin times, assuming the same focus as for the earthquake at 20 53 13 this day, are given for those aftershocks for which NEIS lacks information.

" 20

Up	iP	21 40 28.7
Ki	eP	21 40 29
Sk	iP	21 40 43.9
Um	iP	21 40 25.7
	i	21 40 31.6
Ud	iP	21 40 39.6
De	iP	21 40 37.7

Sumatra (h = 15 km).

1976
June 20

Up	iP	21 41 47.0
Ki	iP	21 41 49.0
	i	21 41 52.7
Um	iP	21 41 45.8
Ud	iP	21 41 56.1

Sumatra.
Origin time = 21 29 36.

" 20

Up	iP	21 45 30.6

" 20

Up	i	21 46 50.5
Ki	iP	21 46 45.0
	i	21 46 47.1
Sk	iP	21 47 00.4
Um	iP	21 46 42.7
Ud	iP	21 46 57.1
De	iP	21 46 54.9

Sumatra (h = N).

" 20

Up	iP	21 55 58.6
Ki	iP	21 55 59.7
Sk	iP	21 56 15.3
Um	iP	21 55 56.4
Ud	iP	21 56 09.3
De	iP	21 56 08.9

Sumatra.
Origin time = 21 43 46.

" 20

Ki	iP	22 04 44.4

" 20

Up	iP	22 11 28.9
Ki	eP	22 11 32
Sk	i	22 11 58.9
Um	iP	22 11 27.4
Ud	iP	22 11 41.4
De	iP	22 11 38.9

Sumatra (h = N).

" 20

Ud	iP	22 31 57.7

" 20

Up	iP	22 51 17.6
Ki	iP	22 51 16.6
Sk	eP	22 51 34
Um	iP	22 51 13.2
Ud	iP	22 51 27.1

Sumatra.
Origin time = 22 39 03.

" 20

Up	eP		22 53 04	
			micr	sec
	Mx	E	2.1	22
	Mx	N	1.5	21
	Mx	Z	5.7	21
Ki	iP		22 53 04.3	
			micr	sec
	Mx	E	2.3	19

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 20 (cont.)

Ki			micr	sec
	Mx	N	1.3	19
	Mx	Z	2.4	20
Sk	iP		22 53 18.5	
Um	iP		22 52 59.2	
Ud	iP		22 53 14.6	
De	iP		22 53 12.8	

Sumatra (h = N).
M = 5.6 (Up,Ki).

" 20	Ki	iP	23 06 36.1	
	Ud	iP	23 06 45.8	

Probably Sumatra.

" 20	Up	iP	23 23 57.9	
	Ki	iP	23 23 58.5	
	Sk	iP	23 24 13.4	
	Um	iP	23 23 54.3	
	Ud	iP	23 24 08.7	

Sumatra.
Origin time = 23 11 44.

" 20	Um	iP	23 30 14.3	
	Ud	iP	23 30 23.9	
" 20	Up	iP	23 30 37.8	
	Ki	iP	23 30 38.8	C
	Um	iP	23 30 33.8	C
	Ud	iP	23 30 46.3	
	De	iP	23 30 53.1	

Sumatra.
Origin time = 23 18 24.

" 20	Up	iP	23 40 36.3	
		ipP	23 40 40.9	
		i	23 41 31.0	
		i(PP)	23 41 44.3	
		iPP	23 41 59.3	
			micr	sec
		pP Z'	0.1	0.9
		Mx E	0.9	12
		Mx N	1.5	14
		Mx Z	1.6	11
	Ki	iP	23 40 51.3	
		ipP	23 40 54.9	
		i	23 41 47.1	
		iPn	23 42 03.8	
		i	23 48 27.5	
			micr	sec
		pP Z'	0.1	0.6
		Mx E	1.7	12
		Mx N	0.8	11
		Mx Z	1.8	12

(cont.)

1976
June 20 (cont.)

Sk	iP	23 41 06.1	
	ipP	23 41 09.8	
	iPP	23 42 37.0	
Um	iP	23 40 37.3	
	ipP	23 40 41.1	
	iPn	23 41 37.6	
Ud	iP	23 40 53.6	
	ipP	23 40 58.3	
	iPn	23 42 06.1	
De	iP	23 40 48.8	
	ipP	23 40 53.3	
	iPP	23 42 08.0	

Uzbek SSR.
h = 15 km (Up,Ki,Sk,Um,Ud,De).
m = 5.8, M = 5.0 (Up,Ki).

" 21	Up	iP	00 07 14.2	
	Ki	iP	00 07 14.9	
	Um	iP	00 07 11.1	C
	Ud	iP	00 07 25.4	
	De	iP	00 07 22.7	

Sumatra (h = N).

" 21	Ki	iP	00 33 43.7	
	Um	iP	00 33 40.1	
	Ud	iP	00 33 53.0	
" 21	Ud	iP	01 01 10.3	
" 21	Ki	iP	01 35 52.3	
	Um	iP	01 35 46.9	
	Ud	i	01 36 18.0	

Sinkiang, China (h = 45 km).

" 21	Um	iP	01 40 13.9	
" 21	Up	iP	04 55 03.8	C
		ipP	04 55 12.1	
			micr	sec
		p Z'	0.1	1.1
	Ki	iP	04 55 05.0	C
		ipP	04 55 13.2	
			micr	sec
		P Z'	0.2	1.7
	Sk	iP	04 55 19.0	
	Um	iP	04 55 01.1	
		ipP	04 55 09.4	
	Ud	iP	04 55 14.8	C
		ipP	04 55 23.0	
	De	iP	04 55 12.4	C
		ipP	04 55 20.9	

Sumatra.
h = 25 km (Up,Ki,Um,Ud,De).
m = 5.8 (Up,Ki).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	21	Up	iP		05 17 22.8	
		Ki	iP		05 17 24.1	C
		Sk	iP		05 17 40.0	
		Um	iP		05 17 19.5	
		Ud	iP		05 17 33.8	
		De	iP		05 17 31.5	
		Sumatra (h = 40 km).				
"	21	Um	iP		06 04 29.2	
"	21	Up	iP		07 29 49.4	C
			iS		07 39 57	
					micr	sec
			P	Z'	0.3	1.3
			Mx	N	1.3	24
			Mx	Z	1.0	23
		Ki	iP		07 29 50.0	
			iS		07 40 08	
					micr	sec
			P	Z'	0.3	1.4
			Mx	E	0.7	20
			Mx	N	0.7	16
			Mx	Z	1.0	20
		Sk	iP		07 30 04.6	
		Um	iP		07 29 46.7	C
			iS		07 39 53	
		Ud	iP		07 29 59.9	
		Sumatra (h = 30 km).				
		m = 6.2, M = 5.2 (Up,Ki).				
"	21	Ki	iP		08 52 50.1	
"	21	Up	iP		09 23 16.7	
			ipP		09 23 25.3	
		Ki	iP		09 23 18.2	
			ipP		09 23 26.4	
		Sk	ipP		09 23 40.9	
		Um	iP		09 23 14.4	
			ipP		09 23 22.4	
		Ud	iP		09 23 26.6	
			i		09 23 37.3	
		Sumatra.				
		h = 25 km (Up,Ki,Um).				
"	21	Ki	iP		11 05 50.8	
		Sk	iP		11 05 20.7	
		Ud	iP		11 04 48.6	
		De	iP		11 04 17.8	
		Crete (h = 20 km).				
"	21	Ud	iP		11 37 37.3	
		Greece (h = N).				
"	21	Ki	iP		12 11 18.8	
		Turkey (h = N).				

1976 June	21	Ki	iP		14 09 35.0	
		Sumatra (h = N).				
"	21	Up	iPKP1		18 39 08.5	C
		Sk	iPKP1		18 39 01.5	
		Um	iPKP1		18 38 56.0	
		Ud	iPKP1		18 39 10.2	
		De	iPKP1		18 39 23.0	
"	21	Up	i		19 58 17.1	
			iRg		19 58 18.7	
		Ud	iRg		19 59 01.5	
		East-central Sweden.				
		Near-surface event.				
"	21	Um	iP		20 15 47.6	C
		Japan (h = 35 km).				
"	21	Up	iPKP2		22 23 59.6	
		Um	iPKP1		22 23 42.8	
		Ud	iPKP2		22 24 02.5	
		Kermadec Islands (h = 400 km).				
"	22	Up	i		02 03 03.6	
			iRg		02 03 05.1	
		Regional near-surface event.				
"	22	Up	iP		02 36 23.0	
			i		02 36 31.4	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		02 36 23.5	C
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		02 36 37.9	
		Um	iP		02 36 20.3	
		Ud	iP		02 36 33.5	
		De	iP		02 36 30.5	
			i		02 36 36.1	
		Sumatra (h = 45 km).				
		m = 5.8 (Up,Ki).				
"	22	Ud	iP		06 56 33.2	
"	22	Ud	iP		07 17 15.0	
"	22	Ud	iP		10 17 20.6	
"	22	Up	iP		12 11 19.9	
			i		12 11 26.7	
			i		12 13 21.9	
			iS		12 21 25	
					micr	sec
			P	Z'	0.1	1.1
			Mx	N	0.8	22
			Mx	Z	0.5	20

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 22 (cont.)

Ki	iP		12 11 21.4	
	iS		12 21 31	
			micr	sec
	P	Z'	0.1	1.4
	Mx	E	0.7	20
	Mx	N	1.3	22
	Mx	Z	1.0	20
Sk	iP		12 11 35.2	
Um	iP		12 11 16.5	
	iS		12 21 21	
Ud	iP		12 11 29.3	
De	iP		12 11 28.6	

Sumatra (h = N).
m = 5.7, M = 5.2 (Up,Ki).

" 22

Up	iP		14 10 11.2	
Ud	iP		14 10 16.6	

Mariana Islands (h = 490 km).
Early arrivals wrt the NEIS solution.

" 22

Up	iPKPl		14 36 12.3	
			micr	sec
	PKPl	Z'	0.1	1.3
Sk	iPKPl		14 36 04.3	
Um	iPKPl		14 35 59.7	
Ud	iPKPl		14 36 13.6	C
De	iPKPl		14 36 21.5	

" 22

Up	ipP		15 36 18.1	
Ki	iP		15 36 09.5	
Um	ipP		15 36 14.0	
Ud	ipP		15 36 27.1	
De	ipP		15 36 26.1	

Sumatra (h = N).

" 22

Up	iP		18 38 06.0	
Ki	iP		18 38 11.0	
Um	iP		18 38 06.0	
Ud	iP		18 38 21.1	
De	iP		18 38 17.4	

Sumatra (h = N).

" 22

Up	iP		18 42 25.1	
Ki	iP		18 42 26.0	
Sk	iP		18 42 39.7	
Um	iP		18 42 22.6	
Ud	iP		18 42 35.9	C
De	iP		18 42 33.5	

Sumatra.
Origin time = 18 30 13.

" 22

Up	ipP		19 40 32.6	
Ki	iP		19 40 27.0	C

(cont.)

1976
June 22 (cont.)

Um	ipP		19 40 30.8	
Ud	ipP		19 40 44.2	

Sumatra (h = N).

" 22

Up	iPKPl		20 21 13.3	
Um	iPKPl		20 20 58.5	
Ud	iPKPl		20 21 11.8	
De	i		20 21 26.0	

" 22

Ki	i		21 58 15.2	
Sk	iP		21 58 00.4	
	i		21 58 12.7	
Um	iP		21 58 14.7	
	i		21 58 26.2	

Mexico (h = 90 km).

" 22

Up	iP		22 49 34.7	
	i		22 49 41.1	
Ki	iP		22 49 40.7	
Sk	iP		22 49 47.2	
Um	iP		22 49 36.7	
Ud	iP		22 49 49.9	
De	iP		22 49 48.3	

Sumatra (h = N).
Early arrivals (Up,Sk) wrt the NEIS solution.

" 23

Ki	iP		01 20 11.4	
Um	iP		01 20 08.0	
Ud	iP		01 20 21.8	
De	iP		01 20 18.9	

Sumatra (h = N).

" 23

Um	iP		02 40 25.8	
Ud	iP		02 40 40.0	

" 23

Ki	iP		04 40 04.8	
Sk	iP		04 40 15.9	
Um	iP		04 40 40.4	
Ud	iP		04 41 02.6	

Jan Mayen (h = N).

" 23

Up	iP		04 59 06.9	
Ki	iP		04 58 41.6	
Sk	iP		04 59 10.1	
Ud	iP		04 59 16.1	

Ryukyu Islands (h = 40 km).

" 23

Up	iP		06 12 24.2	

" 23

Up	iP		08 36 12.1	
	i		08 36 13.9	
Ki	i(P)		08 36 35.3	
	iP		08 36 44.1	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 23 (cont.)

Sk	iP		08 36 42.4
	i		08 36 44.8
Um	iP		08 36 23.8
	i		08 36 26.4
Ud	iP		08 36 23.8
De	iP		08 36 08.1

Arabian Sea (h = N).
Double P (Up,Sk,Um), average separation = 2.3 sec.

" 23

Ud	iP		09 21 33.2
De	iP		09 21 28.0

Sumatra (h = 90 km).

" 23

Up	iP		09 27 28.6
Ki	iP		09 27 29.8
Sk	iP		09 27 43.8
Um	iP		09 27 25.5
Ud	iP		09 27 39.2
De	iP		09 27 37.2

Sumatra (h = N).

" 23

Up	iP		09 56 17.7
Um	iP		09 56 18.1
Ud	iP		09 56 34.5
De	iP		09 56 30.2

Uzbek SSR (h = N).

" 23

Up			micr sec
	Mx	N	0.8 22
	Mx	Z	1.5 22
Ki	iP		11 02 35.8
			micr sec
	Mx	Z	0.9 20
Um	iP		11 02 40.7
	i		11 02 49.9
Ud	iP		11 03 00.9

West Irian (h = N).

" 23

Up	iP		14 03 52.1
	ipP		14 04 04.2
	i(PP)		14 07 39.9
	iPP		14 08 07.0
	iS		14 15 29
			micr sec
	P	Z'	0.1 1.0
	Mx	E	3.6 19
	Mx	N	3.0 21
	Mx	Z	7.5 22
Ki	iP		14 03 31.6
	ipP		14 03 43.6
	i		14 07 05.7

(cont.)

1976
June 23 (cont.)

Ki			micr sec
	P	Z'	0.2 1.5
	Mx	E	2.9 21
	Mx	N	2.6 22
	Mx	Z	3.1 21
Sk	iP		14 03 54.3
	iPP		14 08 12.8
Um	iP		14 03 39.7
	ipP		14 03 50.9
Ud	iP		14 04 00.0
	i		14 07 14.6
De	iP		14 04 06.8
	iPP		14 08 31.0

West Irian.
h = 40 km (Up,Ki,Um).
m = 6.4, M = 5.9 (Up,Ki).

" 23

Up	iP		15 49 01.5
	ipP		15 49 15.3
			micr sec
	Mx	Z	0.8 20
Ki	iP		15 49 00.6
Sk	iP		15 49 19.9 C
	ipP		15 49 34.2
Um	iP		15 48 57.0 C
	ipP		15 49 11.1
Ud	iP		15 49 15.4 C
	ipP		15 49 29.2
De	iP		15 49 13.6

India.
h = 50 km (Up,Sk,Um,Ud).

" 23

Ki	iPgl		16 00 16.8
	i		16 00 23.8
	iSn		16 00 40.8
	iSgl		16 00 49.9
Um	iSn		16 02 09.3
	iSgl		16 02 47.3

Off coast of north Norway, 70.0°N, 17.0°E.
Origin time = 15 59 32.
M_L = 2.8 (Ki,Um).
Checked with Finnish station readings.

" 23

Up	eP		19 34 24
Ki	iP		19 34 02.5
Sk	eP		19 34 25
Ud	eP		19 34 33
De	i		19 34 56.0

Luzon (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	23	Up	i		19 47 10.2	
		Ki	i		19 47 10.2	
		Ud	iP		19 47 13.5	
			i		19 47 23.3	
		De	iP		19 47 10.3	
		Sumatra (h = N).				
"	23	Ki	iSgl		20 58 00.3	
"	23	Up	iPKP		21 02 03.2	
			i		21 02 07.2	
			i		21 02 23.7	
		Ki	iPKP		21 02 19.8	
			iSKPl		21 05 39.0	
		Sk	e		21 02 17	
		Um	iPKP		21 02 10.6	
			i		21 02 30.2	
			iSKPl		21 05 23.6	
		Ud	iPKP		21 02 01.8	
		De	i		21 01 59.4	
		South Sandwich Islands (h = 60 km).				
"	23	Up	i(P)		21 55 56.8	
"	24	Up	iP		06 11 46.2	
			iS		06 21 56	
					micr	sec
			Mx	E	0.8	20
			Mx	N	0.6	18
			Mx	Z	1.0	19
		Ki	iP		06 11 48.7	
			iS		06 22 02	
					micr	sec
			P	Z'	0.1	1.0
			Mx	E	1.1	20
			Mx	N	1.2	18
			Mx	Z	1.3	19
		Sk	i		06 12 04.7	
		Um	iP		06 11 45.0	
			iS		06 21 51	
		Ud	iP		06 11 58.2	
			i		06 12 00.3	
		De	iP		06 11 55.4	
		Sumatra (h = N).				
		M = 5.3 (Up,Ki).				
"	24	Up	iP		08 33 58.1	
			i		08 34 14.8	
		Ki	iP		08 33 58.1	
		Sk	iP		08 34 14.7	
		Um	iP		08 33 55.0	
		Ud	iP		08 34 07.9	
		De	iP		08 34 06.6	
		Sumatra (h = 45 km).				

1976 June	24	Um	iPKP		09 53 24.1	
		Solomon Islands (h = 35 km).				
"	24	Up	iP		13 56 56.2	
		Ki	iP		13 56 10.0	
		Um	iP		13 56 30.9	
		Ud	iP		13 57 02.4	C
		De	iP		13 57 17.8	
		Kurile Islands (h = N).				
"	24	Up	iP		18 14 19.1	
			ipP		18 14 26.1	
		Ki	iP		18 14 19.9	
			ipP		18 14 27.6	
		Um	iP		18 14 16.1	
			ipP		18 14 23.7	
		Ud	iP		18 14 29.2	
			ipP		18 14 36.8	
		De	iP		18 14 26.3	
			ipP		18 14 34.1	
		Sumatra. h = 25 km (Up,Ki,Um,Ud,De).				
"	25	Up	iP		02 48 38.0	
		Ud	iP		02 48 44.0	
"	25	Up	iP		07 06 28.6	
			iS		07 10 51	
					micr	sec
			P	Z'	0.1	1.1
			Mx	E	0.7	12
			Mx	N	1.9	12
			Mx	Z	2.6	11
		Ki	iP		07 07 38.7	
					micr	sec
			P	Z'	0.1	0.9
			Mx	E	1.5	12
			Mx	N	2.3	13
			Mx	Z	2.2	13
		Sk	iP		07 07 07.7	
		Um	iP		07 07 02.7	
			iS		07 11 51	
		Ud	iP		07 06 36.0	
		De	iP		07 06 01.7	
			iS		07 10 08.4	
		Crete (h = N). m = 5.5, M = 5.0 (Up,Ki).				
"	25	Up	iP		07 59 00.5	D
			i		07 59 19.9	
			iS		08 08 15.2	
					micr	sec
			P	Z'	0.3	0.6
		Ki	iP		07 58 27.1	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 25 (cont.)

Ki	iS		08 07 14	
			micr	sec
	P	Z'	0.2	0.9
Sk	iP		07 58 57.1	D
Um	iP		07 58 41.3	D
	i		07 59 04.1	
	iPP		08 01 35.6	
	iS		08 07 39.8	
Ud	iP		08 59 07.6	D
	i		07 59 29.4	
	iS		08 08 29.6	
De	iS		08 08 53.3	

Japan (h = 430 km).
m = 5.9 (Up,Ki).

" 25

Um	eP	09 41 20
Ud	eP	09 42 02
De	iP	09 42 32.7

" 25

Ud	iP	11 43 05.7

Uzbek SSR (h = N).

" 25

Up	iP		12 16 47.9	
Ki	iP		12 16 45.0	
			micr	sec
	P	Z'	0.1	1.0
Sk	iP		12 17 09.1	
Um	iP		12 16 40.3	C
Ud	iP		12 17 04.1	C
De	iP		12 17 04.6	

Kirgiz-Sinkiang (h = N).

" 25

Ud	iP	12 47 49.6

" 25

Up	iRg	15 10 13.9
Ud	iRg	15 10 25.8

East-central Sweden.
Near-surface event.

" 25

Up	iRg	15 17 59.1
Ud	iRg	15 18 11.0

East-central Sweden.
Near-surface event.

" 25

Up	iRg	15 41 23.1
Ud	iRg	15 41 35.1

East-central Sweden.
Near-surface event.

" 25

Ud	iP	15 52 57.2

Andaman Islands (h = N).

" 25

Up	iPdiff	19 33 23.1

(cont.)

1976
June 25 (cont.)

Up	i		19 33 29.8	
	iPKP		19 37 21.8	
	iSKS		19 44 13	
	iPKKP		19 48 35.1	
			micr	sec
	Pdiff	Z'	0.2	1.6
	Mx	E	60	20
	Mx	N	71	19
	Mx	Z	159	20
Ki	iPdiff		19 33 01.8	
	i		19 33 16.7	
	iPKP		19 37 16.1	
	iSKS		19 44 01	
	iPS		19 46 40.6	
	iPKKP		19 48.42.5	
			micr	sec
	Pdiff	Z'	0.4	1.6
	Mx	E	61	20
	Mx	N	81	20
	Mx	Z	101	20
Sk	iPdiff		19 33 26.2	
	i		19 33 42.4	
	i(PKP)		19 37 14.8	
	eSKKS		19 56 29	
Um	iPdiff		19 33 09.6	
	i		19 33 16.5	
	iPKP		19 37 17.9	
	iPP		19 38 02.0	
	iPS		19 46 46.4	
Ud	iPdiff		19 33 30.5	
	i		19 37 41.4	
	iPP		19 38 25.1	
	iSKKS		19 56 18.6	
De	iPdiff		19 33 38.8	
	i		19 33 56.9	
	i(PKP)		19 37 25.4	
	iPP		19 38 41.4	
	i		19 44 32.4	
	iPKKP		19 48 23.4	

West Irian (h = N).
m = 7.1, M = 7.3 (Up,Ki).

" 25

Up	iPKP	19 51 00.9
Ud	iPKP	19 51 03.9
De	iPKP	19 51 07.6

West Irian (h = N).

" 25

Up	iP	20 02 09.8
Ud	iP	20 02 11.9

" 25

Um	iP	21 44 20.7
Ud	iP	21 43 47.5

" 25

Ud	iP	23 40 45.0

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
June	26	Up	iPKP		02 20 21.5	
			iSKPl		02 23 25.9	
		Ki	iPKP		02 20 08.8	C
		Sk	iPKP		02 20 19.5	
		Um	iPKP		02 20 14.7	C
		Ud	iPKP		02 20 24.9	
			iSKPl		02 23 28.6	
		De	iPKP		02 20 31.0	C
			iSKPl		02 23 40.9	
		New Hebrides Islands (h = 210 km).				
"	26	Up	iP		03 10 57.9	
					micr sec	
			Mx	N	1.0 18	
			Mx	Z	1.0 19	
		Ki	iP		03 10 40.2	
					micr sec	
			Mx	E	0.7 20	
			Mx	N	1.3 22	
			Mx	Z	1.4 20	
		Sk	i		03 11 04.9	
		Um	iP		03 10 44.9	
			iSKS		03 21 19	
			iS		03 21 55	
		Ud	iP		03 11 04.9	
		De	iP		03 11 12.4	
		Talaud Islands (h = 35 km). M = 5.4 (Up,Ki).				
"	26	Ud	iP		05 58 38.6	
"	26	Ud	iP		06 11 00.2	
"	26	Up	iP		07 18 15.8	
			i		07 18 18.2	
		Ki	iP		07 18 00.0	
		Sk	eP		07 18 20	
		Um	iP		07 18 04.9	
		Ud	iP		07 18 25.3	
		De	iP		07 18 30.4	
		Talaud Islands (h = 20 km).				
"	26	Ud	iP		08 35 52.8	
"	26	Ud	iP		09 29 38.0	
"	26	Up	iP		10 44 23.4	
			iSKS		10 55 01	
			iS		10 55 41	
					micr sec	
			P	Z'	0.3 1.3	
			Mx	E	8.3 19	
			Mx	N	27 22	
			Mx	Z	18 20	
		(cont.)				

1976					
June	26	(cont.)			
		Ki	iP		10 44 06.8
			i		10 44 11.0
			iPP		10 47 45.1
			i		10 51 12.5
			iSKS		10 54 35
			iS		10 55 13
					micr sec
			P	Z'	0.7 1.4
			Mx	E	22 20
			Mx	N	15 19
			Mx	Z	21 19
		Sk	iP		10 44 28.4
			i		10 44 31.9
			iPP		10 48 25.3
		Um	iP		10 44 12.2
			i		10 44 16.0
			iSKS		10 54 49
			iS		10 55 22
		Ud	iP		10 44 31.7
			i		10 44 34.8
			i		10 44 41.3
			iPP		10 48 34.4
		De	iP		10 44 37.1
			i		10 44 40.9
		Talaud Islands (h = N). m = 6.8, M = 6.7 (Up,Ki). Double P, small and large, average separation 3.7 sec. The second onset when interpreted as pP, gives a focal depth of h = 10 km (Ki,Sk,Um,Ud,De).			
"	26	Ud	iP		11 07 08.9
"	26	Up	iP		11 11 37.8
		Ki	iP		11 11 30.4
		Um	iP		11 11 33.2
		Ud	iP		11 11 57.4
"	26	Up	iP		11 17 07.5
			i		11 20 20.3
			iLg2		11 21 18.3
		Ki	iP		11 18 42.3
		Sk	iP		11 17 47.8
		Um	iP		11 17 59.4
			iLgl		11 23 18.6
		Ud	iP		11 17 05.4
			i		11 19 46.1
			i		11 20 30.4
		De	iP		11 16 13.9
			i		11 18 07.2
			iLg2		11 19 20.0
		Austria (h = N).			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 June	26	Ud	iP	13 00 19.4
"	26	Up	iP	19 52 21.5
		Ud	iP	19 52 30.3
"	27	Up	i(PKP)	01 32 24.2
		Ki	i(PKP)	01 32 09.7
			iPKP	01 32 19.8
		Sk	i(PKP)	01 32 19.5
			iPKP	01 32 29.5
		Um	i(PKP)	01 32 15.2
			iPKP	01 32 26.9
			iSKP1	01 35 03.6
		Ud	i(PKP)	01 32 25.3
			iPKP	01 32 37.2
		De	iPKP1	01 32 35.0
		Fiji Islands (h = 580 km).		
"	27	Ki	iP	02 07 11.2
		Ud	iP	02 07 21.7
		De	iP	02 07 18.9
		Off coast of northern Sumatra (h = N).		
"	27	Um	iP	05 00 14.5
		Ud	iP	05 00 46.3
"	27	Up	iPKP2	09 21 11.1 C
		Sk	iPKP1	09 21 02.7
		Um	iPKP1	09 20 56.1 C
		Ud	iPKP1	09 21 08.8
			iPKP2	09 21 14.5
		De	iPKP1	09 21 18.4
		Kermadec Islands (h = N).		
"	27	Ki	iP	09 34 30.7 C
		Um	iP	09 34 06.6 C
		Ud	iP	09 34 08.1 C
		De	iP	09 33 50.9
		Iran (h = 10 km).		
"	27	Ki	iP	09 35 27.4
		Um	iP	09 35 04.6
		Ud	iP	09 35 04.9
		The same focal area as the preceding event. Approximate origin time = 09 27 30.		
"	27	Ki	iP	12 03 29.5
		Ud	iP	12 03 15.9
"	27	De	i(P)	12 51 58.2
"	27	Ud	iP	16 32 38.2

1976 June	27	Ki	iP	18 14 33.8
		Um	i	18 14 34.6
		Ud	iP	18 14 44.2
		De	iP	18 14 40.9
		Sumatra (h = 170 km).		
"	27	Up	i	19 31 41.4
				micr sec
			Mx E	0.8 20
			Mx N	0.7 20
			Mx Z	1.5 19
		Ki	iPdiff	19 26 34.9
			iPKP	19 30 48.4
		Um	iPdiff	19 26 42.3
		Ud	iPdiff	19 27 04.3
			i	19 31 06.1
		De	iPKP	19 31 01.7
		West Irian (h = N).		
"	27	Up	iPKP1	20 23 14.3 C
			iPKP2	20 23 18.7
			i	20 23 26.2
			ipPKP1	20 23 36.0
				micr sec
			PKP2 Z'	0.1 1.0
			i Z'	0.1 0.9
			pPKP1 Z'	0.1 0.9
		Ki	ePKP1	20 22 53
			ipPKP1	20 23 12.4
		Sk	iPKP1	20 23 07.8 C
			i	20 23 19.1
			ipPKP1	20 23 29.1
		Um	iPKP1	20 23 02.7 C
			i	20 23 14.1
			ipPKP1	20 23 24.0
		Ud	iPKP1	20 23 16.1
			iPKP2	20 23 21.2
			ipPKP1	20 23 37.5
		De	iPKP1	20 23 24.4 C
			iPKP2	20 23 34.8
			ipPKP1	20 23 46.1
		Kermadec Islands. h = 70 km (Up,Sk,Um,Ud,De).		
"	27	Ki	iP	22 11 49.6
		Um	iP	22 11 42.1
		Ud	iP	22 11 54.1
		De	eP	22 12 02
		Sumatra (h = N).		
"	28	Up	i(P)	07 35 17.5
			i	07 35 45.6
"	28	Up	iP	11 31 53.7

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
June	28	Ud	iP	12 47 29.6
		Japan (h = 130 km).		
"	28	Up	iP	13 31 50.8
"	28	Ud	iP	14 45 30.7
		Guatemala (h = 100 km).		
"	28	Up	iP	14 59 37.7
		Ki	iP	14 59 15.9
		Ud	iP	14 59 46.6
		Philippine Islands (h = 15 km).		
"	28	Ud	iSgl	16 25 30.2
		De	eSgl	16 26 38
		Southwest Norway, 60.5°N, 7.6°E.		
		Origin time = 16 23 54.		
		M_L = 2.2 (Ud).		
		By combination with Bergen and Kongsberg readings.		
"	28	Up	iP	17 03 28.0
		Ud	iP	17 03 32.6
		De	i	17 03 57.3
		Kurile Islands (h = 15 km).		
"	28	Um	iP	17 08 25.1
		Ud	iP	17 08 28.6
		De	iP	17 08 15.1
		Iran (h = 5 km).		
"	28	De	iPKPl	20 28 38.0
		Fiji Islands (h = 600 km).		
"	29	Up	iPKP	00 58 30.5
		Ud	iPKP	00 58 31.9
		De	iPKP	00 58 40.5
"	29	Up	iP	03 25 59.1
			i	03 26 09.1
		Sk	iP	03 25 41.9
		Um	iP	03 25 30.5
		Ud	iP	03 25 59.7
			i	03 26 02.5
		De	iP	03 26 20.7
			i	03 26 36.6
		Off coast of Kamchatka (h = 40 km).		
"	29	Up	iPKPl	03 37 42.9 C
			iPKP2	03 37 47.2
		Sk	iPKPl	03 37 36.8
		(cont.)		

1976				
June	29	(cont.)		
		Um	iPKPl	03 37 31.4 C
			i	03 37 35.5
		Ud	iPKPl	03 37 44.4
		De	i	03 37 52.9
		Kermadec Islands (h = N).		
"	29	Up	iP	05 13 31.0 C
		Sk	iP	05 13 28.3 C
		Um	iP	05 13 14.5
		Ud	iP	05 13 37.5 C
		De	iP	05 13 48.2 C
		Mariana Islands (h = 290 km).		
"	29	De	iPKPl	06 01 41.9
		Fiji Islands (h = 600 km).		
"	29	Ud	iP	09 53 49.5
		De	iP	09 53 18.2
"	29	Up	iP	13 58 48.3
		Sk	iP	13 58 36.1
		Um	iP	13 58 24.4
		Ud	iP	13 58 54.4
		De	iP	13 59 14.1
		Japan (h = 100 km).		
"	29	De	iP	16 48 56.5
"	29	Up	iPKP	18 49 52.0
			iPKPl	18 49 59.0
			iPKP2	18 50 08.5
			iPP	18 53 39.0
				micr sec
			PKP Z'	0.4 1.5
			PKPl Z'	0.8 1.1
			Mx E	1.4 24
			Mx N	2.1 23
			Mx Z	3.7 24
		Ki	i(PKP)	18 49 36.9
			iPKPl	18 49 38.2
				micr sec
			PKPl Z'	2.1 1.5
			Mx E	2.0 23
			Mx N	1.9 23
			Mx Z	2.9 22
		Sk	iPKP	18 49 47.5
			iPKPl	18 49 53.7
		Um	iPKP	18 49 44.9
			iPKPl	18 49 49.2
		Ud	iPKP	18 49 52.5 C
			iPKPl	18 50 00.7
			iPKP2	18 50 10.5
			i	18 59 11.0
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
June 29 (cont.)

De	iPKP	18 49 57.8	C
	iPKP1	18 50 08.2	
	iPKP2	18 50 25.4	
	i	18 50 46.7	

South of Kermadec Islands
(h = 50 km).
M = 6.0 (Up,Ki).

" 29	Up	iP	22 11 46.1
	Ud	iP	22 11 54.9

Philippine Islands (h = N).

" 29	Ud	iPKP	23 36 38.5
	De	iPKP	23 36 48.0
" 30	Up	iP	03 52 35.9
	Um	iP	03 52 14.9
" 30	Up	ipP	05 59 20.9
	Ki	ipP	05 59 19.9
	Ud	iP	05 59 31.5
		ipP	05 59 36.6
	De	iP	05 59 32.0

Sinkiang, China (h = 20 km).

" 30	De	iPKP1	09 47 25.1

Fiji Islands (h = 570 km).

" 30	Ud	iP	11 56 26.8

Afghanistan-USSR (h = N).

" 30	Up	i	12 26 58.6
	Ki	i	12 26 56.8
	Ud	iP	12 27 03.7
		i	12 27 13.9

Sinkiang, China (h = N).

" 30	Up	iP	13 00 48.4
	Ki	iP	13 00 00.6
	Ud	iP	13 00 54.0

Kurile Islands (h = 140 km).

" 30	Up	iP	14 57 28.1	
		i	14 57 31.6	
			micr	sec
		P	Z' 0.2	1.5
	Ki	iP	14 57 29.8	
			micr	sec
		P	Z' 0.2	0.8
	Sk	iP	14 57 44.7	
	Um	iP	14 57 27.0	
	Ud	iP	14 57 40.0	

(cont.)

1976
June 30 (cont.)

De	iP	14 57 39.5

Sumatra (h = 140 km).
m = 6.4 (Up,Ki).

March 31, 1978

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BOX 517
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SWEDEN

S E I S M O L O G I C A L B U L L E T I N

U P P S A L A, K I R U N A, S K A L S T U G A N, U M E Å, U D D E H O L M and D E L A R Y

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

J U L Y 1 - 31, 1976

1976 July	1	Up	iP		03 32 28.4
		Um	iP		03 32 10.0
		Ud	iP		03 32 37.8
		De	iP		03 32 46.2
		Ryukyu Islands (h = 35 km).			
"	1	Up	iP		03 33 37.8
		Ud	iP		03 33 44.4
"	1	Ki	iP		03 49 31.7
		Sk	iP		03 49 09.6
		Ud	iP		03 49 10.7
		De	iP		03 49 09.7
		Leeward Islands (h = 35 km).			
"	1	Ud	iPKPl		05 25 55.7
		De	iPKPl		05 26 06.6
"	1	Ud	iP		07 33 50.1
"	1	Up	iP		11 24 11.9
			ipP		11 24 18.3
					micr sec
			pP	Z'	0.2 1.0
		Ki	iP		11 22 46.4
			ipP		11 22 51.6
					micr sec
			P	Z'	0.2 1.5
			pP	Z'	0.5 1.5
		Sk	iP		11 23 31.4
			ipP		11 23 40.1
		Um	iP		11 23 31.6
		Ud	iP		11 24 07.0
			ipP		11 24 14.0
		De	iP		11 24 39.8
			ipP		11 24 46.4
		North of Svalbard.			
		h = 30 km (Up,Ki,Sk,Ud,De).			
		m = 5.8 (Up,Ki).			

1976 July	1	Up	iP		11 36 58.4
			iS		11 47 52
					micr sec
			P	Z'	0.4 1.3
			Mx	E	1.1 14
			Mx	N	1.1 15
			Mx	Z	1.1 14
		Ki	iP		11 37 34.2
					micr sec
			P	Z'	0.2 1.5
			Mx	E	2.7 17
			Mx	N	1.3 17
		Sk	iP		11 37 16.6
		Um	iP		11 37 15.3
			iS		11 48 29
		Ud	iP		11 37 01.3
		De	iP		11 36 43.4
		South Africa (h = N).			
		m = 6.5, M = 5.7 (Up,Ki).			
"	1	Up	iPKP2		13 11 31.6
		Ki	iPKPl		13 10 59.3
		Um	iPKPl		13 11 07.5
		North Island, New Zealand (h = 35 km).			
"	1	Up	iP		15 42 09.2
"	1	Sk	iP		17 52 36.9
		Ud	iP		17 52 04.7
"	1	Ud	iP		20 10 53.6
"	1	Ud	iP		21 51 53.3
		Mexico (h = N).			
"	2	Up	iP		01 03 16.8
		Ki	iP		01 02 29.2
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 2 (cont.)

Sk	iP	01 03 07.1
Um	iP	01 02 51.4
Ud	iP	01 03 22.4
De	iP	01 03 40.7

Kurile Islands (h = N).

" 2

Ud	iPKPl	03 43 57.5
De	iPKPl	03 44 07.6

" 2

Up	iP	05 21 20.4
Ki	iP	05 22 36.1
Sk	iP	05 22 03.5
Um	iP	05 22 02.7
Ud	iP	05 21 30.4
De	iP	05 20 49.0

Greece (h = 35 km).

" 2

Um	iP	05 47 54.6

Nicaragua (h = 150 km).

" 2

Ud	iP	05 53 04.3

" 2

Up	iP	06 39 38.5
Ud	iP	06 39 56.6

" 2

Up	iPKPl	08 08 36.9
Um	iPKPl	08 08 24.3
Ud	iPKPl	08 08 37.3
De	iPKPl	08 08 47.9

South of Tonga Islands
(h = N).

" 2

De	iP	08 55 36.0

Turkey (h = 30 km).

" 2

Up	iRg	10 13 17.8
Ud	i	10 13 00.0
	iRg	10 13 02.4

Central Sweden.
Near-surface event.

" 2

Ud	i(P)	10 32 28.3

" 2

Ud	i(P)	10 32 40.1

" 2

Ud	i(P)	11 13 39.9

" 2

Ud	i(P)	11 14 12.7

" 2

Ki	iP	11 28 05.5
Sk	iP	11 28 26.7
Um	iP	11 28 11.3
Ud	iP	11 28 30.1

Molucca Passage (h = 80 km).

1976
July 2

Up	iSgl	11 53 50.6
	iRg	11 53 57.2
Um	iSgl	11 54 36.4
Ud	iPgl	11 53 41.5
	iSgl	11 54 08.2

Coast of Hälsingland, Sweden,
61.2°N, 17.1°E.
Origin time = 11 53 05.
M_L = 2.0 (Um,Ud).
Near-surface event.

" 2

Up	iP	12 47 28.4
Ud	iP	12 47 34.5
De	iP	12 47 52.5

Kurile Islands (h = 25 km).

" 2

Up	iP	12 49 34.2
Ki	eP	12 49 35
Sk	iP	12 49 14.7
Um	iP	12 49 37.9
Ud	eP	12 49 24
De	iP	12 49 24.1

Dominican Republic (h = 55 km).

" 2

Ud	iP	13 01 49.7

Kurile Islands (h = N).

" 2

Ud	iP	13 49 36.5

" 2

Ud	iP	16 05 27.5

" 2

Ki	iP	16 37 39.0
Um	iP	16 38 08.5
Ud	iP	16 38 30.2
De	iP	16 38 53.3

Alaska (h = 25 km).

" 2

Ud	iP	17 03 48.5

" 2

Up	iP	17 21 14.8
Ki	iP	17 20 38.2
Sk	eP	17 20 07
Um	iP	17 20 54.3 D
	ipP	17 21 08.4
Ud	iP	17 21 21.9
De	iP	17 21 35.2

Japan.
h = 55 km (Um).

" 2

Up	iPKPl	17 43 50.6
	ipPKPl	17 44 01.4
Sk	iPKPl	17 43 43.1

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 2 (cont.)

Sk	ipPKPl	17 43 54.1
Um	iPKPl	17 43 38.1
Ud	iPKPl	17 43 52.0
	ipPKPl	17 44 02.8
De	iPKPl	17 43 59.3

Kermadec Islands.
h = 35 km (Up,Sk,Ud).

" 2 Um iPKP 20 53 16.8
New Hebrides Islands
(h = 120 km).

" 2 Ud iSgl 21 00 22.2

" 2

Up	iP	22 06 25.2
Ki	eP	22 06 26
Um	iP	22 06 22.8
Ud	iP	22 06 35.9
De	iP	22 06 34.0

Sumatra (h = N).

" 2

Up	iPKPl	22 16 30.8
Ki	iPKP	22 16 20.0
Um	iPKP	22 16 27.4
Ud	iPKPl	22 16 32.3
De	iPKPl	22 16 43.1

Tonga-Kermadec Islands
(h = 570 km).

" 2 Ud iP 23 11 45.0

" 3

Up	iP	01 12 07.1
Ki	eP	01 11 22
Ud	iP	01 12 13.5

Kurile Islands (h = 25 km).

" 3

Up	iRg	02 16 35.1
Ud	iRg	02 16 20.7

Central Sweden.
Near-surface event.

" 3

Up	iP	04 34 58.7
Ki	iP	04 34 40.3
Sk	eP	04 35 06
Um	iP	04 34 46.2
Ud	iP	04 35 07.7

Luzon (h = N).

" 3 Ud iP 05 13 05.0

" 3

Up	iP	06 54 38.4
	i	06 54 46.7
Ud	iP	06 54 21.2
	i	06 54 30.3

1976
July 3

Up	iPgl	07 26 43.4
	iSn	07 27 10.4
	iSgl	07 27 14.9
Ki	eSgl	07 31 07
Sk	eSn	07 28 17
	iSgl	07 28 39.6
Um	iSgl	07 29 12.3
Ud	iPgl	07 26 29.1
	iSgl	07 26 51.0
De	iPgl	07 26 35.0
	iSgl	07 27 00.6

Västergötland, Sweden,
58.4°N, 13.8°E.
Origin time = 07 26 01.
M_L = 2.8 (Up,Sk,Um,Ud,De).
Felt.

" 3 Ud iPKPl 10 24 32.1
De iPKPl 10 24 43.0

" 3

Up	iSgl	11 52 27.9
Ud	iPgl	11 51 03.8
	iSgl	11 51 26.7
	iRg	11 51 34.1

Regional near-surface event.
Origin time = 11 50 33.

" 3

Up	iP		16 44 02.0
	iS		16 52 45
		micr	sec
	P	Z' 0.1	1.3
	Mx	E 1.4	18
	Mx	N 7.9	20
	Mx	Z 2.7	17
Ki	iP		16 43 49.5
		micr	sec
	Mx	E 1.7	12
	Mx	N 7.4	17
	Mx	Z 2.0	13
Sk	iP		16 44 13.8
Um	iP		16 43 52.4
	iS		16 52 27
Ud	iP		16 44 14.1
De	iP		16 44 17.9

Burma-China (h = N).
M = 6.0 (Up,Ki).

" 3

Um	iPKP	17 08 27.7
Ud	i(PKP)	17 08 26.2
	iPKP	17 08 32.5
De	iPKP	17 08 36.8

Loyalty Islands (h = 60 km).

" 3 Up eP 17 44 09
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
July	3	(cont.)			
		Ki	iP	17 43 51.4	
		Ud	iP	17 44 16.8	
		Talaud Islands (h = 45 km).			
"	3	Ud	iP	18 41 31.2	
"	3	Up	iP	19 07 26.6	
		Ud	iP	19 07 23.2	
"	3	Up	iPKP1	20 14 55.7	
			iPKP2	20 14 59.8	
		Sk	iPKP1	20 14 48.5	
		Um	iPKP1	20 14 43.4	
		Ud	iPKP1	20 14 57.8	
			iPKP2	20 15 03.0	
		De	iPKP1	20 15 06.0	
"	3	Ud	iP	22 39 17.6	
"	4	Up	iP	03 03 55.7	C
			iPn	03 05 01.9	
			iPP	03 05 14.2	
				micr sec	
			P Z'	1.3 0.8	
			Mx E	0.6 10	
			Mx N	0.5 10	
			Mx Z	1.1 10	
		Ki	iP	03 03 39.1	C
			i	03 04 43.1	
				micr sec	
			P Z'	1.6 0.8	
			Mx E	0.7 9	
			Mx N	0.4 10	
			Mx Z	0.4 8	
		Sk	iP	03 04 10.6	C
			iPP	03 05 33.8	
		Um	iP	03 03 40.2	C
			i	03 04 25.1	
			iPP	03 04 56.4	
		Ud	iP	03 04 12.0	C
		De	iP	03 04 19.1	C
			iPn	03 05 40.9	
		Kazakh SSR.			
		m = 6.9, M = 4.8 (Up,Ki).			
		Underground explosion.			
"	4	Ud	eP	04 32 33	
		Japan (h = N).			
"	4	Ud	eP	05 19 02	
"	4	Up	iPKP1	19 20 25.6	D
			i	19 20 32.3	
		(cont.)			

1976					
July	4	(cont.)			
		Up	ipPKP1	19 21 17.8	
				micr sec	
			PKP1 Z'	0.3 0.8	
		Ki	i(PKP)	19 20 01.3	
			i(PKP)	19 20 04.9	
			iPKP	19 20 12.4	
		Sk	iPKP1	19 20 17.8	D
		Um	iPKP1	19 20 12.9	
			i	19 20 18.8	
		Ud	iPKP	19 20 24.2	
			iPKP1	19 20 27.2	D
			ipPKP1	19 21 20.6	
		De	iPKP	19 20 30.8	
			iPKP1	19 20 36.4	D
			iPKP2	19 20 43.4	
			ipPKP1	19 21 29.8	
		Kermadec Islands.			
		h = 200 km (Up,Ud,De).			
"	4	Ud	iPKP	22 59 19.2	
		Tonga Islands (h = 90 km).			
"	5	Up	iP	02 58 34.1	
		Ki	iP	02 57 53.1	
		Sk	eP	02 58 29	
		Um	iP	02 58 11.1	
		Ud	iP	02 58 41.0	
		Japan (h = 15 km).			
"	5	Up	iPKP	03 02 02.9	
		Ki	ePKP	03 01 51	
		Um	iPKP	03 01 59.8	
		New Hebrides Islands			
		(h = 20 km).			
"	5	Ud	iP	07 58 48.6	
		De	iP	07 58 45.5	
"	5	Ud	iP	09 04 16.9	
"	5	Ud	iP	10 05 26.2	
		De	iP	10 04 51.0	
"	5	Up	iPKP1	12 15 36.2	C
				micr sec	
			PKP1 Z'	0.3 0.8	
		Ki	iPKP	12 15 24.1	
			iSKP1	12 18 08.7	
		Sk	ePKP1	12 15 29	
			iSKP1	12 18 23.7	
		Um	iPKP	12 15 29.6	
			iSKP1	12 18 18.7	
		Ud	iPKP1	12 15 38.0	C
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July 5 (cont.)

De iPKP1 12 15 48.1 C
Tonga-Kermadec Islands
(h = 510 km).

" 5 Ud iP 12 51 35.2

" 5 Ki iP 14 01 44.2
Um iP 14 01 50.5
Ud iP 14 02 10.0
Halmahera (h = 90 km).

" 5 Up iP 17 04 15.6
i 17 04 28.9
Ud iP 17 04 15.6
Aleutian Islands (h = 55 km).

" 5 Sk iP 17 18 18.0

" 5 Up iP 18 36 13.9
Um iP 18 35 46.3
Ud iP 18 36 13.3
Aleutian Islands (h = 60 km).

" 5 Up iP 18 39 24.6
micr sec
P Z' 0.1 0.8
Ki iP 18 38 30.7
Um iP 18 38 57.2
Ud iP 18 39 24.0
i 18 39 43.9
De iP 18 39 46.5
Aleutian Islands (h = 55 km).

" 5 Up micr sec
Mx Z 1.1 23
Ki ePKP1 20 12 03
i 20 12 07.6
micr sec
PKP1 Z' 0.4 2.1
Mx N 1.1 20
Mx Z 1.4 20
Sk ePKP1 20 11 57
Um iPKP1 20 12 02.5
i 20 12 09.4
i 20 12 19.7
Ud iPKP2 20 12 01.5
De iPKP1 20 11 56.3
i 20 12 03.6
South Pacific Ocean (h = N).

" 6 Up iP 03 04 26.7 C
Ki iP 03 04 30.0 C
Sk iP 03 04 48.8
(cont.)

1976 July 6 (cont.)

Ud iP 03 04 42.6 C
De eP 03 04 41
Kashmir-Tibet (h = 55 km).

" 6 Ud eP 04 06 57
California (h = 5 km).

" 6 Ud eP 07 01 23
Colombia (h = 130 km).

" 6 Up iP2 10 45 15.3
Ki iP1 10 44 29.1
Sk iP2 10 44 48.6
Ud iP1 10 45 02.6
iP2 10 45 09.0
California (h = N).

" 6 Up iP 12 20 49.6
Ki iP 12 19 54.7
Sk iP 12 20 31.4
De iP 12 21 13.8
Kamchatka (h = 50 km).

" 6 Ud iPKP1 13 06 43.3
De iPKP1 13 06 54.5

" 6 Up iP 13 52 17.1
Ki iP 13 52 19.9
Sk eP 13 52 05
Ud iP 13 52 07.3
De iP 13 52 08.3
Colombia (h = 160 km).

" 6 Ud iP 14 35 26.9

" 6 Ud iP 20 49 38.1

" 6 Um iP 23 52 12.0

" 7 Ud iPKP1 01 59 43.7
De iPKP1 01 59 55.3

" 7 Ud iP 06 29 28.6

" 7 Ud i(P) 09 22 35.1

" 7 Ki iP 14 08 20.7
Sk eP 14 07 43
Ud iP 14 07 37.6
De iP 14 07 32.3
Azores Islands (h = N).

" 7 Up iP 18 35 39.7
Um iP 18 35 18.4
Ud iP 18 35 48.4

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July	7	Ud	ePKP		20 12 44
		D'Entrecasteaux Islands (h = 15 km).			
"	7	Ud	i(P)		21 53 12.1
"	8	Up	iP		04 09 44.0
		Ki	iP		04 08 50.9
		Sk	iP		04 09 15.6
		Um	iP		04 09 02.8
		Ud	iP		04 09 40.5
		De	iP		04 10 04.7
		Alaska (h = 40 km).			
"	8	Ud	i(P)		11 08 14.7
"	8	Up	iP		11 58 10.1 C
			iS		12 07 17
					micr sec
			Mx	E	1.5 19
			Mx	N	2.9 20
			Mx	Z	4.0 21
		Ki	iP		11 57 28.2 C
			ipP		11 57 42.3
			eS		12 06 00
					micr sec
			P	Z'	0.1 1.0
			Mx	E	2.7 15
			Mx	N	1.7 16
			Mx	Z	4.3 16
		Sk	iP		11 58 02.8
		Um	iP		11 57 47.1 C
			i		11 57 59.0
			iPP		12 00 28.4
			iS		12 06 34
		Ud	iP		11 58 17.1 C
			ipP		11 58 31.6
			iPP		12 01 03.5
		Japan.			
		h = 55 km (Ki,Ud).			
		M = 5.6 (Up,Ki).			
"	8	Up	i(P)		14 34 10.7
"	8	Up	iP		15 25 33.7
			i		15 25 40.0
		Ki	iP		15 26 46.5
		Sk	iP		15 26 12.7
		Um	iP		15 26 09.2
			i		15 26 17.3
			i		15 26 40.4
		Ud	iP		15 25 39.1
			i		15 25 42.5
		De	iP		15 25 04.2
			i		15 25 12.5
		Ionian Sea (h = 50 km).			

1976 July	8	Up	eP		18 11 13
		Ki	iP		18 10 37.6
		Sk	eP		18 11 11
		Um	iP		18 10 53.7
		Ud	iP		18 11 21.4
		De	iP		18 11 35.2
		Japan (h = 50 km).			
"	8	Ud	iP		18 23 11.0
"	8	Up	iP		23 42 23.0
		Ki	iP		23 42 37.7
		Sk	iP		23 42 52.0
		Um	iP		23 42 23.7
		Ud	iP		23 42 40.2
		De	iP		23 42 36.0
			i		23 42 40.0
		Uzbek SSR (h = N).			
"	9	Up	iP		05 20 08.5
		Um	iP		05 19 40.7
		Ud	iP		05 20 06.5
"	9	Up	iPKP1		05 49 47.4 D
			iPKP2		05 49 50.4
					micr sec
			PKP1	Z'	0.1 0.8
		Ki	ePKP		05 49 31
		Sk	iPKP1		05 49 40.8 D
		Um	iPKP1		05 49 35.5 D
		Ud	iPKP		05 49 45.3
			iPKP1		05 49 49.1 D
			iPKP2		05 49 53.9
			ipPKP1		05 51 16.7
		De	iPKP1		05 49 57.9 D
			iPKP2		05 50 07.4
			ipPKP1		05 51 23.5
		Kermadec Islands.			
		h = 360 km (Ud,De).			
"	9	Up	iPKP1		08 17 01.6
		Ud	iPKP1		08 17 02.4
		De	iPKP1		08 17 13.9
		Fiji Islands (h = 540 km).			
"	9	Ud	eP		09 16 40
		Afghanistan-USSR (h = 140 km).			
"	9	Up	eP		09 40 14
		Ki	iP		09 41 06.4
		Um	iP		09 40 38.3
		Ud	iP		09 40 30.4
		De	iP		09 40 07.9
		Turkey (h = N).			
"	9	Up	iP		10 18 05.7
		Ki	iP		10 17 33.5
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July	9	(cont.)			
		Sk	iP		10 18 01.8
		Um	iP		10 17 47.9 C
		Ud	iP		10 18 12.2
			i		10 18 20.8
		De	iP		10 18 24.4
		Bonin Islands (h = N).			
"	9	Up	iP		13 59 45.3
		Ki	iP		13 59 27.8
		Um	iP		13 59 33.2
		Ud	iP		13 59 52.6
		Talaud Islands (h = 80 km).			
"	9	Ud	iP		14 11 15.2
"	9	Up	iP		14 13 15.8
		Ki	iP		14 12 58.9
			i		14 13 06.8
		Sk	eP		14 13 21
		Um	iP		14 13 04.8
			i		14 13 08.1
		Ud	iP		14 13 23.7
		De	eP		14 13 29
		Talaud Islands (h = 80 km).			
"	9	Up	iPKPl		17 34 48.5
		Ud	iPKPl		17 34 50.9
		De	iPKPl		17 35 00.5
"	9	Um	iP		19 41 37.8
		Ud	iP		19 42 03.9
			i		19 42 19.5
"	9	Ud	iP		22 06 14.3
"	9	Up	iP		22 37 17.6
				micr	sec
			Mx	Z 1.0	23
		Ki	iP		22 36 47.4
		Sk	iP		22 37 18.9
		Um	iP		22 36 59.4
		Ud	iP		22 37 26.6
		De	iP		22 37 37.2
		Ryukyu Islands (h = 60 km).			
"	9	Up	iPKPl		23 04 11.8
		Um	iPKPl		23 03 59.1
		Ud	iPKPl		23 04 13.1
"	10	Up	iP		00 30 46.6
		Ki	iP		00 30 22.3
		Um	iP		00 30 32.1
		Ud	eP		00 30 54
		West Caroline Islands (h = 90 km).			

1976 July	10	Up	iP		04 13 36.0
		Ud	iP		04 13 32.1
"	10	Ki	eP		04 16 22
		Sk	iP		04 15 28.9
		Um	iP		04 15 35.3
		Ud	iP		04 14 40.9
		De	iP		04 13 51.9
		Austria (h = N).			
"	10	Up	iPKPl		05 33 07.9
		Um	iPKPl		05 32 57.9
		Ud	iPKPl		05 33 09.5
		De	iPKPl		05 33 18.1
"	10	Up	iP		09 29 38.9
		Ki	iP		09 29 41.3
		Um	iP		09 29 36.4
		Ud	iP		09 29 50.3
		De	iP		09 29 47.7
		Sumatra (h = 70 km).			
"	10	Up	iP		09 35 00.1
		Ud	iP		09 35 12.7
"	10	Up	iP		10 28 47.1 D
			iPP		10 30 16.2
				micr	sec
			P	Z' 0.1	1.0
		Ki	iP		10 28 53.3 D
				micr	sec
			P	Z' 0.1	0.8
		Sk	iP		10 29 11.7 D
		Um	iP		10 28 43.7 D
		Ud	iP		10 29 04.3 D
		De	iP		10 29 01.6 D
		Tadzhik SSR (h = 30 km).			
		m = 5.6 (Up,Ki).			
"	10	Up	iP		10 35 48.7
		Um	iP		10 35 28.8
		Ud	iP		10 35 57.0
"	10	Up	iP		11 47 12.7
			iPcP		11 47 42.4
			ipP		11 48 44.2
			iS		11 55 20.3
			iScS		11 56 23.7
				micr	sec
			P	Z' 1.1	0.8
			Mx	E 0.8	15
			Mx	N 1.0	14
			Mx	Z 1.3	14
		Ki	iP		11 46 26.6
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 10 (cont.)

Ki			micr	sec	
	P	Z'	1.4	1.1	
	Mx	E	1.1	15	
	Mx	N	1.0	12	
	Mx	Z	1.0	12	
Sk	iP		11 47 02.6		
	i		11 47 15.8		
	ipP		11 48 25.9		
Um	iP		11 47 47.2		
	iS		11 55 33		
	iScS		11 55 55.5		
Ud	iP		11 47 18.8		
De	iP		11 47 37.1		
	iPP		11 50 14.6		
	iS		11 56 06.9		

Sea of Okhotsk.
h = 410 km (Up,Sk).
m = 6.4, M = 5.3 (Up,Ki).

"	10	Up	iP	12 17 35.3
		Ud	iP	12 17 34.8
"	10	Up	iP	16 48 48.7 C
			iPP	16 50 30.1
				micr sec
			P Z'	0.2 1.1
			Mx N	0.6 12
			Mx Z	0.5 13
		Ki	iP	16 49 05.0 C
				micr sec
			P Z'	0.1 1.0
			Mx E	0.6 10
			Mx N	0.4 10
			Mx Z	0.5 10
		Sk	iP	16 49 16.2 C
		Um	iP	16 48 51.3 C
			iPP	16 50 39.7
		Ud	iP	16 49 04.5 C
			iPP	16 50 56.6
		De	iP	16 48 56.7 C
			iPP	16 50 44.0

Pakistan (h = N).
m = 5.9, M = 4.9 (Up,Ki).

"	10	De	iP	16 50 13.6
"	10	Ki	e	19 55 08
		Ud	eP	19 55 29

Talaud Islands (h = 50 km).

"	10	Up	iPKP	22 27 47.1
		Ki	iPKP	22 27 32.7

(cont.)

1976
July 10 (cont.)

Um	iPKP	22 27 40.1
Ud	iPKP	22 27 47.9
De	iPKP1	22 27 46.1

Fiji Islands (h = 490 km).

"	11	Ud	iP	00 34 29.6
"	11	Ud	ePKP	00 49 20

South Pacific Ocean.
Explosion?

"	11	Ki	iP	02 08 43.8
		Um	iP	02 09 14.4

Alaska (h = 130 km).

"	11	Ki	iP	02 41 47.8
		Um	iP	02 41 56.0
		Ud	iP	02 42 13.5

Mindanao (h = 45 km).

"	11	Ud	iP	05 53 39.1
"	11	Ud	i(P)	08 41 24.6
"	11	Up	iP	10 33 20.2
		Ki	iP	10 32 32.3
		Um	iP	10 32 54.4
		Ud	iP	10 33 25.6

Kurile Islands (h = N).

"	11	Um	iP	10 38 44.0
"	11	Ki	iP	10 46 32.4
		Um	iP	10 46 38.8
		Ud	iP	10 46 59.7
"	11	Ud	iP	12 27 35.8
			i	12 28 02.6
"	11	Up	iP1	12 33 22.5
			iP2	12 33 29.7
		Ki	iP1	12 33 22.3
			iP2	12 33 30.5
		Sk	iP2	12 33 44.4
		Um	iP2	12 33 26.9
		Ud	iP1	12 33 33.2
			iP2	12 33 39.7
		De	iP2	12 33 38.2

Sumatra (h = 55 km).

"	11	Up	iP	14 32 46.2
			i	14 33 06.1
		Ud	iP	14 33 01.1
		De	eP	14 32 31

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July	11	Up	iP		14 44 28.6
		Ud	iP		14 44 34.8
"	11	Up	i		14 54 54.8
		Ud	iP		14 54 41.9
			i		14 54 59.7
"	11	Up	iP		15 07 02.0
		Ki	iP		15 06 10.1
		Um	iP		15 06 38.0
		Ud	iP		15 07 01.3
"	11	Up	iP		17 07 14.3
			i		17 07 15.5
			i		17 07 18.1
			iS		17 17 39.1
					micr sec
			P	Z'	0.4 1.5
			i	Z'	0.8 1.2
			Mx	E	17 24
			Mx	N	15 25
			Mx	Z	37 24
		Ki	iP		17 07 13.9
			i		17 07 15.9
			i		17 07 18.0
			iPP		17 10 38.0
			iS		17 17 42.3
					micr sec
			P	Z'	0.4 1.4
			i	Z'	2.6 1.9
			Mx	E	36 23
			Mx	N	29 24
			Mx	Z	39 25
		Sk	iP		17 07 00.4
			i		17 07 02.2
			i		17 07 04.5
			iPP		17 10 16.2
		Um	iP		17 07 17.3
			i		17 07 19.4
			i		17 07 21.7
			iPP		17 10 45.2
			iS		17 17 46
		Ud	iP		17 07 04.7
			i		17 07 06.2
			i		17 07 08.5
		De	iP		17 07 07.5
			i		17 07 09.5
			i		17 07 11.8
		Panama (h = 20 km).			
		m = 7.0, M = 6.7 (Up,Ki).			
		Multiple event with			
		successively increasing			
		amplitudes.			
"	11	Ki	iP		17 11 57.5
		(cont.)			

1976 July	11	(cont.)		
		Sk	iP	17 11 44.2
		Um	iP	17 12 02.7
		De	iP	17 11 52.2
		Panama.		
"	11	Up	iP2	17 13 58.0
		Ki	iP2	17 13 57.7
		Sk	iP2	17 13 44.0
		Um	iP1	17 13 58.7
			iP2	17 14 01.1
		Ud	iP2	17 13 47.7
		De	iP2	17 13 49.7
		Panama.		
"	11	Um	iP	17 17 38.7
"	11	Up	iP2	17 27 41.7
		Ki	iP2	17 27 40.6
		Sk	iP1	17 27 24.7
			iP2	17 27 27.7
			i	17 33 19.8
		Um	iP1	17 27 41.9
			iP2	17 27 44.8
		Ud	iP2	17 27 32.1
		De	iP2	17 27 33.5
		Panama (h = N).		
"	11	Up	iP2	17 34 15.7
		Ki	iP2	17 34 16.1
		Sk	iP2	17 34 02.7
		Um	iP1	17 34 16.3
			iP2	17 34 20.1
		Ud	iP2	17 34 05.6
		Panama.		
"	11	Sk	iP	17 49 26.8
"	11	Sk	eP	17 53 34
		Um	iP	17 53 51.0
		Panama.		
"	11	Ki	iP	18 08 15.9
		Sk	eP	18 07 37
		Ud	iP	18 07 06.1
"	11	Up	eP	18 09 49
		Ki	eP	18 09 48
		Sk	eP	18 09 34
		Um	iP	18 09 51.7
		Panama.		
"	11	Ki	eP	18 29 05
		Sk	eP	18 28 51
		Um	iP	18 29 08.3
		Panama.		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976

July	11	Up	iP		18 33 04.0	C
					micr	sec
			P	Z'	0.2	1.5
		Ki	iP		18 33 03.9	C
			i		18 33 22.4	
					micr	sec
			P	Z'	0.4	1.7
		Sk	iP		18 32 50.6	C
			i		18 33 07.4	
			i		18 33 37.5	
		Um	iP		18 33 06.6	C
		Ud	iP		18 32 54.8	
		De	iP		18 32 57.2	

Panama (h = N).
m = 6.3 (Up,Ki).

"	11	Up	eP	18 47 12
		Ki	eP	18 47 13
		Um	iP	18 47 16.2

Panama.

"	11	Ki	iP	18 58 11.4
		Sk	iP	18 57 57.7
		Um	iP	18 58 14.9

Panama-Colombia (h = N).

"	11	Ki	eP	19 20 32
		Sk	iP	19 20 17.8
		Um	iP	19 20 34.6

Panama-Colombia (h = N).

"	11	Up	eP	19 31 13
		Ki	iP	19 31 12.9
		Sk	iP	19 30 59.3
		Um	iP	19 31 16.0

Panama-Colombia (h = N).

"	11	Up	eP	19 38 26
		Ki	eP	19 38 26
		Sk	iP	19 38 10.8
		Um	iP	19 38 29.1
			i	19 38 33.6
		Ud	iP	19 38 14.8

Panama (h = N).

"	11	Up	iP		20 54 32.2	C
			i		20 54 38.1	
			iS		21 04 55.1	
					micr	sec
			P	Z'	0.3	1.3
			i	Z'	1.3	1.4
			Mx	E	41	27
			Mx	N	32	25
			Mx	Z	87	27

(cont.)

1976

July	11	(cont.)				
		Ki	iP		20 54 32.5	C
			i		20 54 38.2	
			iS		21 04 59	
			iP'P'		21 20 37.7	
					micr	sec
			P	Z'	0.4	1.2
			i	Z'	3.3	1.7
			Mx	E	55	22
			Mx	N	54	23
			Mx	Z	57	24
		Sk	iP		20 54 18.7	C
			i		20 54 24.1	
			iPP		20 57 38.9	
			iP'P'		21 20 42.7	
		Um	iP		20 54 35.8	C
			i		20 54 41.7	
			iS		21 05 04	
			iP'P'		21 20 38.7	
		Ud	iP		20 54 22.6	C
			i		20 54 28.6	
		De	iP		20 54 25.5	C
			i		20 54 31.1	
			iP'P'		21 20 36.6	

Panama (h = 5 km).
m = 7.1, M = 6.9 (Up,Ki).
Double event, small and large, in average about 5.6 sec apart.

"	11	Sk	iP	21 04 21.5
		Um	iP	21 04 38.1

Panama.

"	11	Up	iP	21 05 24.7
		Sk	iP	21 05 10.6
		Um	iP	21 05 27.3
		Ud	iP	21 05 14.7
		De	iP	21 05 16.9

Panama.

"	11	Up	iP	21 07 31.3
		Ki	iP	21 07 31.9
		Sk	iP	21 07 17.5
		Um	iP	21 07 34.5
		De	iP	21 07 25.0

Panama.

"	11	Ki	iP	21 09 17.9
		Sk	iP	21 09 03.9
		Um	iP	21 09 21.0
		De	iP	21 09 10.5

Panama.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July	11	Up	iP	21 11 05.6 C
		Ki	iP	21 11 05.7 C
				micr sec
			P Z'	0.1 1.0
		Sk	iP	21 10 51.6 C
		Um	iP	21 11 08.9 C
		Ud	iP	21 10 55.5
		De	iP	21 10 58.1 C
		Panama (h = N).		
"	11	Sk	iP	21 12 26.3
		Um	iP	21 12 43.3
		Panama.		
"	11	Sk	eP	21 17 47
		Um	iP	21 18 04.2
		Panama.		
"	11	De	iP	21 29 46.0
"	11	Um	iP	21 30 05.8
"	11	Ki	iP	21 31 00.3
		Sk	iP	21 30 46.2
		Um	iP	21 31 02.3
		De	eP	21 30 54
		Panama (h = N).		
"	11	Sk	eP	21 32 33
		Um	iP	21 32 51.2
		Panama.		
"	11	Um	iP	21 33 39.6
"	11	Sk	eP	21 37 51
		Um	iP	21 38 07.7
		Panama.		
"	11	Um	iP	21 44 35.6
"	11	Ki	iP	21 45 54.1
		Sk	eP	21 45 40
		Um	iP	21 45 57.6
		Panama.		
"	11	Um	iP	21 48 50.2
"	11	Um	eP	22 00 33
"	11	Sk	eP	22 04 18
		Um	iP	22 04 35.3
		Panama.		

1976 July	11	Up	eP	22 16 01
		Ki	iP	22 15 59.5
				micr sec
			P Z'	0.1 1.5
		Sk	iP	22 15 43.8
		Um	iP	22 16 01.2
			i	22 16 22.2
		Ud	iP	22 15 49.3
		De	eP	22 15 53
		Panama (h = 10 km).		
"	11	Um	iP	22 17 53.8
"	11	Ki	eP	22 21 42
		Sk	iP	22 21 28.0
		Um	iP	22 21 45.1
		Panama.		
"	11	Up	eP	22 23 31
		Ki	iP	22 23 27.1
		Sk	eP	22 23 14
		Um	iP	22 23 30.4
			i	22 23 35.1
		Ud	eP	22 23 21
		De	eP	22 23 24
		Panama (h = N).		
"	11	Ki	iP	22 42 03.9
		Sk	iP	22 41 49.3
		Um	iP	22 42 06.3
		Panama (h = N).		
"	11	Ki	iP	22 45 27.2
		Sk	iP	22 45 13.7
		Um	iP	22 45 31.0
		Ud	iP	22 45 18.8
		Panama (h = N).		
"	11	Um	iP	22 52 12.2
"	11	Um	iP	23 30 36.8
"	12	Ki	ipP	00 02 07.2
		Sk	ipP	00 01 52.1
		Panama (h = N).		
"	12	Ki	iP	00 19 14.5
		Sk	iP	00 19 00.8
		Um	iP	00 19 17.3
		Panama-Colombia (h = N).		
"	12	Ki	eP	00 21 06
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 12 (cont.)

Sk	eP	00 20 52	
Um	i	00 21 13.2	

Panama-Colombia (h = N).

" 12	Up	eP	00 23 16
	Ki	iP	00 23 12.9
	Sk	eP	00 22 59
	Um	iP	00 23 15.9

Panama (h = N).

" 12	Up	iP	00 27 22.3
	Ki	iP	00 27 20.3
	Sk	iP	00 27 06.3
	Um	iP	00 27 24.3
	Ud	iP	00 27 09.8

Panama (h = 60 km).

" 12	Up	iP	00 29 24.0
	Ki	iP	00 29 22.3
	Sk	iP	00 29 08.7
	Um	iP	00 29 26.3
	Ud	iP	00 29 12.9
	De	eP	00 29 17

Panama (h = N).

" 12	Sk	eP	00 37 40
	Um	iP	00 37 55.0

Panama.

" 12	Ki	eP	01 09 37
	Sk	eP	01 09 21
	Um	eP	01 09 39

Panama.

" 12	Up	iPKP2	01 45 29.2
		ipPKP1	01 45 33.3
	Ki	ePKP	01 45 10
	Sk	iPKP1	01 45 18.3
	Um	iPKP1	01 45 13.5
		ipPKP1	01 45 25.2
	Ud	iPKP1	01 45 26.5
		ipPKP1	01 45 36.5
	De	iPKP1	01 45 34.9
		ipPKP1	01 45 44.3

Kermadec Islands.
h = 35 km (Um,Ud,De).

" 12	Um	iP	02 11 33.8

" 12	Up	iPKP1	02 28 10.5
	Um	iPKP1	02 27 59.0
	Ud	iPKP1	02 28 11.4

" 12	Sk	eP	02 30 54
	Um	eP	02 31 11

Panama.

1976
July 12

Up	ipP	02 49 03.0	
Ki	eP	02 48 59	
	ipP	02 49 03.3	
Sk	iP	02 48 44.9	
Um	iP	02 48 01.4	
	ipP	02 48 06.8	
Ud	iP	02 48 48.6	
	ipP	02 49 53.8	
De	ipP	02 48 55.1	

Panama.
h = 20 km (Ki,Um,Ud).

" 12	Sk	eP	03 06 49
	Um	iP	03 07 05.5

Panama (h = N).

" 12	Up	iP	03 21 44.5	
			micr	sec
		Mx Z	0.6	14
	Ki	iP	03 21 38.4	
			micr	sec
		Mx E	0.6	13
		Mx N	1.0	16
		Mx Z	0.7	13
	Sk	iP	03 22 02.7	
	Um	iP	03 21 36.2	
	Ud	iP	03 21 58.9	
	De	iP	03 22 01.5	

Tibet (h = N).

" 12	Sk	eP	03 24 25
	Um	iP	03 24 43.6

Panama.

" 12	Up	iSgl	03 31 20.5
	Sk	iSgl	03 31 13.3
	Um	iPgl	03 30 11.8
		iSgl	03 30 27.7
	Ud	iSgl	03 31 37.4

Ångermanland, Sweden,
62.8°N, 18.2°E.
Origin time = 03 29 50.
M_L = 2.2 (Um,Ud).

" 12	Ki	eP	04 19 24
	Sk	eP	04 19 08
	Um	iP	04 19 24.9

Panama (h = N).

" 12	Ki	iP	04 40 02.3
	Sk	iP	04 39 49.1
	Um	iP	04 40 05.6

Panama (h = 35 km).

" 12	Sk	eP	04 49 43

Panama (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July	12	Up	iP	04 57 44.0
		Um	iP	04 57 44.9
		Ud	iP	04 57 34.3
		Costa Rica (h = 120 km).		
"	12	Up	eP	05 08 21
		Ki	iP	05 08 19.6
		Sk	iP	05 08 05.0
		Um	iP	05 08 22.7
		Panama-Colombia (h = N).		
"	12	Up	iP	06 30 34.8
			ipP	06 30 47.1
		Ki	iP	06 30 11.6
			ipP	06 30 24.4
		Sk	iP	06 30 38.1
			ipP	06 30 51.2
		Um	iP	06 30 19.7
			ipP	06 30 32.0
		Ud	iP	06 30 43.9
			ipP	06 30 57.0
		De	eP	06 30 53
		Formosa.		
		h = 45 km (Up,Ki,Sk,Um,Ud).		
"	12	Ki	iP	06 37 15.7
		Sk	iP	06 37 01.2
		Um	iP	06 37 18.4
			i	06 37 28.2
		Ud	iP	06 37 06.2
		De	iP	06 37 07.8
		Panama (h = 20 km).		
"	12	Sk	iP	08 36 02.7
		Um	iP	08 36 19.2
		Panama-Colombia (h = N).		
"	12	Up	iRg	09 04 55.6
		Ud	iRg	09 04 39.1
		Central Sweden.		
		Near-surface event.		
"	12	Sk	iPKPl	09 38 23.5
		Um	iPKPl	09 38 17.1
"	12	Um	eP	10 08 12
"	12	Um	ipP	10 58 04.0
		Panama (h = N).		
"	12	Ki	iP	11 20 49.3
		Sk	iP	11 20 35.6
		Um	iP	11 20 52.4
		Ud	eP	11 20 39
		De	iP	11 20 41.6
		Panama-Colombia (h = N).		

1976 July	12	Up	iPl	11 54 32.2
			iP2	11 54 40.3
		Ki	iPl	11 54 32.8
			iP2	11 54 40.5
		Sk	iP2	11 54 55.6
		Um	iPl	11 54 28.8
			iP2	11 54 36.1
		Ud	iPl	11 54 43.8
			iP2	11 54 51.2
		De	iPl	11 54 40.8
			iP2	11 54 49.1
"	12	Um	iPKP	14 18 13.3
		Ud	ePKP	14 18 23
		De	ePKP	14 18 29
"	12	Up	iP	14 55 51.2
				micr sec
			P Z'	0.1 1.0
		Ki	iP	14 55 51.6 C
				micr sec
			P Z'	0.1 1.0
		Sk	iP	14 55 38.2 C
			ipP	14 55 46.2
		Um	iP	14 55 55.2 C
			ipP	14 55 03.7
		Ud	iP	14 55 42.0 C
		De	iP	14 55 44.9 C
			ipP	14 55 53.3
		Panama.		
		h = 30 km (Sk,Um,De).		
		m = 6.0 (Up,Ki).		
"	12	Ki	iP	15 10 48.3
		Sk	iP	15 10 34.4
		Um	iP	15 10 51.3
		Panama (h = N).		
"	12	Up	iP	15 17 26.4
		Ki	iP	15 17 25.1
		Sk	iP	15 17 12.4
		Um	iP	15 17 29.2
		Ud	iP	15 17 16.4
		De	iP	15 17 19.0
		Panama (h = N).		
"	12	Ki	eP	15 30 14
		Sk	iP	15 30 00.2
		Um	eP	15 30 17
		Panama.		
"	12	Up	iPKPl	16 36 04.6
			i	16 36 13.4
		Ki	ePKP	16 35 49
		Sk	iPKPl	16 35 58.1
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July	12	(cont.)			
		Um	iPKPl	16 35 53.1	
		Ud	iPKPl	16 36 06.7	
		De	iPKPl	16 36 15.1	
			i	16 36 23.8	
		Kermadec Islands (h = 40 km).			
"	12	Up	iP	17 18 03.1	
"	12	Um	iP	17 40 33.3	
"	12	Um	iP	17 48 04.7	
"	12	Um	iP	18 36 44.9	
		Ud	iP	18 37 10.3	
"	12	Um	iP	19 36 24.0	
		Ud	eP	19 36 44	
"	12	Ki	iP	19 57 44.3	
		Ud	iP	19 58 21.8	
"	12	Up	i(pP)	20 04 22.0	
		Ki	iP	20 04 14.4	
		Sk	iP	20 03 58.8	
		Um	iP	20 04 16.6	
		Panama (h = N).			
"	12	Um	iP	21 16 12.6	
"	12	Sk	ePKPl	22 28 03	
		Um	iPKPl	22 27 58.0	
		Ud	ePKPl	22 28 11	
"	12	Sk	eP	23 58 49	
		Um	iP	23 59 06.3	
		Panama.			
"	13	Ki	eP	01 06 17	
		Sk	iP	01 06 03.1	
		Um	iP	01 06 19.9	
		Panama.			
"	13	Up	iP	01 38 49.7	
		Ki	iP	01 38 49.6	C
			i	01 38 52.4	
				micr sec	
			P Z'	0.1 1.0	
		Sk	iP	01 38 35.9	C
			i	01 38 38.5	
		Um	iP	01 38 52.4	C
			i	01 38 55.7	
		Ud	iP	01 38 39.8	
		De	iP	01 38 42.2	
		Panama (h = N).			

1976 July	13	Ud	iP	03 13 49.7	
"	13	Up	iPKPl	03 21 37.1	C
			ipPKPl	03 21 45.6	
				micr sec	
			PKPl Z'	0.1 1.0	
		Ki	ePKPl	03 21 15	
		Sk	iPKPl	03 21 29.9	C
		Um	iPKPl	03 21 24.8	C
			ipPKPl	03 21 33.3	
		Ud	iPKPl	03 21 38.4	C
			iPKP2	03 21 44.1	
			ipPKPl	03 21 46.8	
		De	iPKPl	03 21 47.1	C
			ipPKPl	03 21 55.0	
			i	03 22 05.2	
		Kermadec Islands.			
		h = 30 km (Up,Um,Ud,De).			
"	13	Up	i	03 25 19.7	
		Um	iPKPl	03 24 59.8	
		Ud	iPKPl	03 25 13.3	
		De	iPKP2	03 25 28.9	
"	13	Up	il	03 47 20.2	
			i	03 48 37.5	
			i	03 48 46.2	
		Sk	il	03 47 13.7	
		Um	iPKPl	03 47 00.7	
			i	03 47 08.0	
		Ud	iPKPl	03 47 14.3	
			il	03 47 22.4	
		De	il	03 47 30.3	
"	13	Up	iPKPl	03 48 37.5	
			il	03 48 46.2	
		Um	iPKPl	03 48 26.6	
			il	03 48 34.3	
		Ud	iPKPl	03 48 39.4	
			il	03 48 48.3	
		De	il	03 48 57.0	
"	13	Um	iP	04 12 19.9	
		Panama (h = N).			
"	13	Up	iP	06 21 21.0	
		Ki	iP	06 21 21.1	
		Sk	iP	06 21 07.3	
		Um	iP	06 21 24.3	
		Ud	iP	06 21 09.9	
		Panama (h = N).			
"	13	Up	iP	06 34 12.6	
		Ki	iP	06 34 12.1	
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July	13	(cont.)			
		Sk	iP		06 33 58.8
		Um	iP		06 34 15.2
		Panama (h = N).			
"	13	Up	iP		07 39 15.4
		Ki	iP		07 39 04.4
		Sk	eP		07 39 25
		Um	iP		07 39 05.4
		Ud	iP		07 39 26.4
		Burma-China (h = N).			
"	13	Up	iP		07 45 55.9
		Ki	iP		07 45 54.7
		Sk	eP		07 46 16
		Um	iP		07 45 49.6
		Ud	iP		07 46 12.3
		De	eP		07 46 14
		Kashmir-Tibet (h = N).			
"	13	Ki	iP		08 09 12.3
		Ud	iP		08 09 26.4
"	13	Um	iP		08 50 31.9
"	13	Sk	iP		09 37 13.3
		Um	iP		09 37 30.4
		Panama-Colombia (h = N).			
"	13	Ud	iP		12 14 04.7
		Yugoslavia (h = N).			
"	13	Up	iP		15 28 48.7
			iS		15 31 37.0
			i		15 32 02.1
					micr sec
			Mx	E	4.1 21
			Mx	N	9.8 19
			Mx	Z	13 18
		Ki	iP		15 27 18.8
			i		15 27 29.9
			iSn		15 28 39.7
			iS		15 28 55.9
			iTSgl		15 32 58.2
					micr sec
			P	Z'	0.1 0.9
			i	Z'	0.3 0.8
			Mx	E	12 18
			Mx	N	14 19
			Mx	Z	11 15
		Sk	iP		15 27 50.0
			iS		15 29 31.6
		Um	iP		15 28 05.1
			i		15 28 09.3
			iS		15 29 56.7
		(cont.)			

1976 July	13	(cont.)			
		Ud	iP		15 28 37.5
			iS		15 30 58.3
		De	iP		15 29 26.7
			iS		15 32 43.5
		Norwegian Sea (h = N).			
"	13	Up	iP		15 38 34.9
			i		15 41 44.6
		Ki	iP		15 37 06.6
			i		15 37 15.0
			iS		15 38 41.4
					micr sec
			P	Z'	0.1 0.6
		Sk	iP		15 37 35.1
			iS		15 39 14.3
		Um	iP		15 37 49.8
			iS		15 39 39.4
		Ud	iP		15 38 23.2
			iS		15 40 42.3
		De	iP		15 39 12.1
			i		15 39 20.8
			i		15 43 03.5
		Norwegian Sea (h = N).			
"	13	Up	iP		17 03 04.7
			i		17 06 14.5
					micr sec
			Mx	E	1.2 20
			Mx	N	3.4 19
			Mx	Z	5.7 20
		Ki	iP		17 01 36.1
			i		17 01 45.6
			iS		17 03 09.2
			eTPgl		17 06 35
			iTSgl		17 07 09.9
					micr sec
			P	Z'	0.1 0.7
			Mx	E	3.3 15
			Mx	N	4.5 17
			Mx	Z	4.1 15
		Sk	iP		17 02 06.7
			i		17 02 08.4
			iS		17 03 46.8
			i		17 03 51.0
		Um	iP		17 02 22.0
			i		17 02 24.9
			iS		17 04 11.1
		Ud	iP		17 02 54.1
			i		17 05 31.5
		De	iP		17 03 42.5
		Norwegian Sea (h = N).			
"	13	Ud	iP		18 41 36.7

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July	13	Up	eP2		18 58 07	
		Ki	iP1		18 58 01.1	
		Ud	iP1		18 58 18.8	
			iP2		18 58 23.3	
		Kashmir-Tibet (h = 45 km).				
"	13	Up	iP		20 42 22.1	
		Ki	iP		20 43 35.4	
		Sk	iP		20 43 00.9	
		Ud	iP		20 42 28.2	
		De	iP		20 41 51.6	
		Ionian Sea (h = 50 km).				
"	13	Ud	iP		21 13 06.8	
			i		21 13 14.8	
"	13	Up	iP		21 46 32.6	
		Um	iP		21 47 13.6	
		Ud	iP		21 46 39.0	
"	14	Up	iP		01 02 44.8	
		Ud	iP		01 02 02.7	
"	14	Up	iP		01 45 15.8	
			i		01 45 17.3	
			iS		01 55 39	
					micr	sec
			P	Z'	0.1	1.5
			Mx	E	1.2	20
			Mx	N	1.1	20
			Mx	Z	2.6	19
		Ki	iP		01 45 14.8	
			i		01 45 17.5	
			iS		01 55 41	
					micr	sec
			P	Z'	0.4	1.5
			Mx	E	2.2	24
			Mx	N	1.6	24
			Mx	Z	2.1	24
		Sk	iP		01 45 00.7	
			i		01 45 03.7	
		Um	iP		01 45 18.1	
			i		01 45 21.1	
			iS		01 55 46	
		Ud	iP		01 45 04.2	
			i		01 45 07.5	
		De	iP		01 45 07.8	
			i		01 45 10.5	
		Panama (h = N).				
		m = 6.2, M = 5.5 (Up,Ki).				
"	14	Ki	ePKP		02 10 11	
		Pacific Ocean (h = N).				
"	14	Up	iP		03 49 25.0	
		(cont.)				

1976 July	14	(cont.)				
		Up	ipP		03 49 44.1	
		Ki	iP		03 48 45.8	
		Sk	iP		03 49 19.8	
		Um	iP		03 49 03.4	
			i		03 49 06.4	
			ipP		03 49 18.3	
		Ud	iP		03 49 32.4	
		De	iP		03 49 46.3	
		Japan.				
		h = 70 km (Up,Um).				
"	14	Ki	eP		05 10 16	
		Sinkiang, China (h = 50 km).				
"	14	Up	eP		05 23 03	
		Ki	eP		05 22 59	
		Sk	eP		05 22 45	
		Um	iP		05 23 01.9	
		Panama-Colombia (h = N).				
"	14	Up	iP		05 42 50.8	
			i		05 46 19.9	
			iLg2		05 47 00.5	
					micr	sec
			Mx	E	0.4	8
			Mx	N	0.4	8
			Mx	Z	0.5	9
		Ki	iP		05 44 26.9	
					micr	sec
			Mx	E	0.4	8
			Mx	N	0.4	10
			Mx	Z	0.4	8
		Sk	iP		05 43 37.1	
		Um	iP		05 43 45.4	
		Ud	iP		05 42 50.7	
		De	iP		05 41 59.5	
			i		05 43 40.2	
			iLg2		05 45 00.3	
		Austria (h = N).				
"	14	Up	iP		07 27 08.5	
			iPP		07 31 15.4	
			iSKS		07 37 43	
			iS		07 38 40	
					micr	sec
			PP	Z'	1.1	1.9
			Mx	E	12	18
			Mx	N	11	18
			Mx	Z	24	20
		Ki	iP		07 27 01.1	
			iPP		07 31 05.4	
			iSKS		07 37 34	
					micr	sec
			PP	Z'	0.6	2.0
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 14 (cont.)

Ki			micr	sec
	Mx	E	17	17
	Mx	N	14	19
	Mx	Z	14	17
Sk	iP		07 27 17.5	
	iPP		07 31 34.2	
	i		07 31 41.7	
Um	iP		07 27 01.3	
	iPP		07 31 11.1	
	iSKS		07 37 36	
	iS		07 38 28	
Ud	iP		07 27 17.1	
	iPP		07 31 30.5	
	i		07 31 38.7	
De	iP		07 27 18.6	
	iPP		07 31 29.6	
	i		07 31 33.2	

Bali Island (h = 40 km).
m = 7.0, M = 6.7 (Up,Ki).

" 14 Um iP 07 58 49.2
Ud iP 07 59 13.4
Alaska Peninsula (h = N).

" 14 Up iP 09 36 00.8
Ki iP 09 35 51.2
Sk iP 09 35 41.9
Um iP 09 35 59.4
Ud iP 09 35 50.9
De iP 09 35 57.2
Honduras (h = 35 km).

" 14 Up iP1 10 37 30.7
iP2 10 37 35.3
iPP 10 41 29.3

		micr	sec
PP	Z'	0.3	1.4
Mx	N	0.9	16
Mx	Z	1.0	19

Ki iP1 10 37 23.0
iP2 10 37 27.7
ePP 10 41 25

		micr	sec
P1	Z'	0.1	1.0
PP	Z'	0.1	1.4
Mx	E	0.8	17
Mx	N	0.8	17
Mx	Z	1.0	17

Sk iP2 10 37 44.9
iPP 10 41 57.8
Um iP2 10 37 28.4
iPP 10 41 27.5
Ud iP1 10 37 39.8
iP2 10 37 44.3
(cont.)

1976
July 14 (cont.)
Ud iPP 10 41 47.1
De iP1 10 37 40.6
iPP 10 41 49.8
Bali Island (h = N).
m = 6.4, M = 5.4 (Up,Ki).

" 14 Up eP 12 30 06
i 12 30 13.1
i 12 30 20.4
Sk iP 12 30 44.7
Ud iP 12 30 12.2
De iP 12 29 36.0

" 14 Ki eP 13 30 18
Sk eP 13 30 51
Um iP 13 31 02.1
Ud eP 13 31 33

" 14 Sk eP 15 08 30
Panama (h = N).

" 14 Ud iP 15 28 18.4

" 14 Um iP 16 27 36.2
Ud iP 16 28 02.5

" 14 Ud iP 16 55 47.0

" 14 Up iP 19 15 34.0
Ki iP 19 15 33.4
Sk iP 19 15 19.6
Um iP 19 15 36.3
i 19 15 45.1
Ud iP 19 15 24.4
De iP 19 15 25.9
Panama (h = N).

" 14 Up iP 19 19 08.7
i 19 19 14.9
Ki iP 19 19 08.5
Sk iP 19 18 55.1
Um iP 19 19 11.9
Ud iP 19 18 58.7
Panama (h = N).

" 14 Up iP 19 23 00.5
Sk iP 19 22 47.2
Um iP 19 23 04.9
Panama.

" 14 Up i(P) 20 06 27.6

" 14 Ud iP 21 26 22.3

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 14 Up micr sec
Mx N 1.1 21
Ki iP 21 27 52.8
micr sec
Mx E 0.5 11
Mx N 0.5 13
Sk eP 21 28 16
Ud iP 21 28 09.9
De iP 21 28 10.2
Kashmir-Tibet (h = N).
M = 4.8 (Up,Ki).

" 14 Ud iP 21 43 35.2

" 15 Up iP 00 14 37.0
micr sec
Mx N 1.1 20
Ki eP 00 14 36
micr sec
Mx N 1.1 20
Ud iP 00 14 52.0
i 00 15 02.4
De eP 00 14 55
Kashmir-Tibet (h = 45 km).
M = 4.8 (Up,Ki).

" 15 Up iP 00 19 03.0
Ki iP 00 19 08.5
Um iP 00 19 09.1
Ud iP 00 18 50.4
Virgin Islands (h = N).

" 15 Up iP 00 48 12.7
micr sec
P Z' 0.1 1.2
Ki iP 00 48 12.6 C
micr sec
P Z' 0.1 1.3
Sk iP 00 47 59.1 C
Um iP 00 48 16.2 C
Ud iP 00 48 02.6 C
i 00 48 19.3
De iP 00 48 05.4 C
Panama (h = N).
m = 6.0 (Up,Ki).

" 15 Ud iP 02 21 40.0

" 15 Up iP 02 30 30.1
Ud iP 02 30 45.4
Hindu Kush (h = 25 km).

" 15 Up iSgl 05 03 19.4
Ud iSgl 05 02 13.7
Regional event.

1976
July 15 Up iP 05 13 17.5 C
Ki iP 05 13 17.4 C
micr sec
P Z' 0.1 1.0
Sk iP 05 13 03.3
Um iP 05 13 19.8
i 05 13 26.8
iS 05 24 00
Ud iP 05 13 06.6
De iP 05 13 10.3
Panama (h = N).

" 15 Ki iP 08 18 35.6
Sk i 08 19 09.3
Alaska (h = 25 km).

" 15 Up iP 12 11 49.0
micr sec
Mx N 0.5 10
Mx Z 0.4 11
Ki micr sec
Mx E 0.4 10
Mx N 0.4 10
Mx Z 0.5 10
Sk eP 12 12 33
Um iP 12 12 21.3
Ud iP 12 12 01.0
Turkey (h = N).
M = 4.4 (Up,Ki).

" 15 Ki eP 12 19 21
Ud iP 12 19 38.3

" 15 Up iLgl 13 06 06.0
Ud i 13 05 28.2
De iS 13 03 23.3
iLgl 13 04 11.2
Austria (h = N).

" 15 Ud iP 13 35 58.4

" 15 De iP 15 06 40.9

" 15 Up iP 19 45 52.1
Ki eP 19 47 11
Sk iP 19 46 37.9
Um iP 19 46 34.4
Ud iP 19 46 02.2
De i 19 45 23.0
Greece-Albania (h = 10 km).

" 15 Up iP 20 29 32.5
i 20 29 58.0
Ki iP 20 30 29.5
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July 15 (cont.)

				micr	sec
Ki					
	Mx		E	0.5	11
	Mx		N	0.5	11
	Mx		Z	0.6	12
Sk	eP			20 30 11	
Um	iP			20 29 56.9	
Ud	iP			20 29 45.5	
De	iP			20 29 20.7	

Turkey (h = N).

" 15	Up	iP	22 23 58.5
	Sk	eP	22 24 08
	Um	iP	22 23 41.8
	Ud	iP	22 24 06.6
" 15	Sk	eP	22 48 22
" 16	Up	iPKP1	02 30 14.4
	Sk	iPKP1	02 30 07.8
	Um	iPKP1	02 30 02.6
	Ud	iPKP1	02 30 16.1
		iPKP2	02 30 21.2
	De	iPKP1	02 30 23.8
		iPKP2	02 30 34.7

Kermadec Islands (h = 15 km).

" 16	Up	iP	03 03 26.9
	Ki	iP	03 03 27.5
	Sk	iP	03 03 41.7
	Um	iP	03 03 23.9
	Ud	iP	03 03 37.7
	De	iP	03 03 35.0

Sumatra (h = 20 km).

" 16	Up	iP	04 17 12.0
	Ki	iP	04 16 54.1
	Um	iP	04 17 02.3
	Ud	iP	04 17 19.7

Mindanao (h = 140 km).

" 16	Ki	iP	08 54 09.2
	Sk	iP	08 53 55.0
	Um	iP	08 54 10.8
	De	iP	08 54 01.5

Panama-Colombia (h = 35 km).

" 16	Up	i(P)	10 32 18.6
" 16	Up	iP	15 12 16.0

			micr	sec
	Mx	N	0.7	13
Ki	iP		15 12 13.6	

(cont.)

1976 July 16 (cont.)

			micr	sec
Ki				
	Mx	N	0.5	12
Sk	iP		15 12 36.8	
Um	iP		15 12 09.3	
Ud	iP		15 12 31.5	
De	iP		15 12 31.3	

Kashmir-Tibet (h = N).
M = 4.7 (Up,Ki).

" 16	Ki	eS	15 39 59
	Um	i	15 42 11.6

Svalbard, near 77 1/2°N, 20 1/2°E.
Origin time = 15 35 53.
Solution from Helsinki regional bulletin.

" 16	Ud	iPKP1	15 43 11.8
	De	iPKP1	15 43 22.5
" 16	Up	iPP	16 19 29.3
	Ki	ePKP	16 18 15
	Um	ipPKP	16 18 29.6
	Ud	iPKP	16 18 04.6
		ipPKP	16 18 21.9
		iPP	16 19 13.4
	De	ipPKP	16 18 18.1

Chile.
h = 60 km (Ud).

" 16	Up	iP	16 28 58.9
	Ki	iP	16 28 41.2
	Ud	iP	16 29 06.5
	De	iP	16 29 12.9
" 16	Up	iP	16 30 05.6
	Ki	iP	16 30 35.4
	Sk	iP	16 30 45.8
	Um	iP	16 30 15.9
	Ud	iP	16 30 27.5
	De	iP	16 30 17.4
" 16	Um	iP	19 04 09.7
	Ud	iP	19 03 45.2
" 16	Ud	iP	19 19 02.1

Hindu Kush (h = 160 km).

" 16	Sk	iP	19 33 24.1
	Um	iP	19 33 41.5

Panama-Colombia (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 16 Up iP 22 17 06.1
Ki eP 22 16 30
Um iP 22 16 45.4
ipP 22 16 56.1
Ud iP 22 17 13.1
Japan.
h = 40 km (Um).

" 17 Um iP 01 44 33.5
Ud iP 01 44 38.1

" 17 Ud eP 02 11 26

" 17 Up iP 02 18 21.2
iS 02 29 13
micr sec
Mx E 1.3 23
Mx Z 2.3 24
Ki iP 02 18 17.6
i 02 19 15.7
micr sec
Mx N 1.6 24
Mx Z 1.9 23
Sk iP 02 18 06.5
Um iP 02 18 22.3
ipP 02 18 30.3
iSKS 02 28 54
iS 02 29 18
Ud iP 02 18 12.4
ipP 02 18 18.6
South of Panama.
h = 30 km (Um,Ud).
M = 5.3 (Up,Ki).

" 17 Up iP 04 25 24.3
ipP 04 25 30.5
iS 04 34 37
micr sec
Mx E 1.3 22
Mx N 1.1 20
Mx Z 1.7 24
Ki iP 04 26 10.0
ipP 04 26 15.6
micr sec
Mx E 0.7 16
Mx N 0.7 15
Mx Z 0.9 16
Sk iP 04 25 38.4
ipP 04 25 44.5
Um iP 04 25 48.4
ipP 04 25 56.3
iS 04 35 27
Ud iP 04 25 19.3
ipP 04 25 25.9
(cont.)

1976
July 17 (cont.)
De iP 04 24 59.1
Ascension Island.
h = 25 km (Up,Ki,Sk,Um,Ud).
M = 5.3 (Up,Ki).

" 17 Up iPKPl 05 24 00.2
Ud iPKPl 05 24 01.6
De iPKPl 05 24 12.2
Tonga-Kermadec Islands
(h = 630 km).

" 17 Up iP 05 36 21.6
ipP 05 36 28.2
Ki iP 05 36 21.3
ipP 05 36 28.1
Sk iP 05 36 07.5
ipP 05 36 14.5
Um iP 05 36 25.1
i 05 36 31.6
Ud iP 05 36 11.2
Panama.
h = 25 km (Up,Ki,Sk,Um).

" 17 Up eP 05 47 14
i 05 48 43.2
iSKS 05 57 48
micr sec
Mx E 1.2 20
Mx N 1.4 20
Mx Z 2.4 20
Ki eP 05 46 46
micr sec
Mx E 1.6 21
Mx N 1.4 20
Mx Z 1.9 23
Um iP 05 46 56.5
i 05 47 05.3
iSKS 05 57 33
Ud eP 05 47 20
West Irian (h = N).
M = 5.7 (Up,Ki).

" 17 Up eP 07 38 41
Ud iP 07 38 54.6

" 17 Up iP 08 44 11.8
Ud iP 08 44 27.1
De iP 08 44 10.9
Iran (h = 30 km).

" 17 Up iP 09 14 58.5
Ki iP 09 14 39.9
micr sec
P Z' 0.1 1.2
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 17 (cont.)

	Sk	iP		09 14 39.2
	Um	iP		09 14 51.5
		i		09 14 56.9
	Ud	iP		09 14 49.9
	De	iP		09 14 59.7

Mexico (h = 70 km).

" 17	Up	iP		09 20 12.3
	Ki	iP		09 19 51.7
	Sk	iP		09 20 17.4
	Um	iP		09 19 58.8
	Ud	iP		09 20 20.8

Luzon (h = 60 km).

" 17	Um	i(P)		09 35 05.1
" 17	Um	iPKP		09 59 14.7

New Hebrides Islands (h = 30 km).

" 17	Up	iP		14 21 59.0
	Ki	iP		14 22 00.9
	Sk	iP		14 22 22.0
	Um	iP		14 21 53.8
	Ud	iP		14 22 16.0
	De	iP		14 22 15.0

Sinkiang, China (h = 130 km).

" 17	Up	iPdiff		21 21 17
		iPKP		21 25 06.7
		iPP		21 26 02.3
		iSKS		21 31 51.7
		iPKKP		21 35 44.5
			micr	sec
		PP	Z' 0.3	1.6
		Mx	E 5.8	20
		Mx	N 13	23
		Mx	Z 15	26
	Ki	iPdiff		21 20 48.9
		i(PP)		21 24 06.8
		iPKP		21 24 55.4
		iSKS		21 31 25
		ePKKP		21 36 04
		i		21 36 16.6
		i		21 36 28.4
			micr	sec
		PKP	Z' 0.1	1.2
		Mx	E 12	23
		Mx	N 16	22
		Mx	Z 9.6	23
	Sk	iPKP		21 25 06.0
		ePKKP		21 35 47
	Um	iPKP		21 25 00.7

(cont.)

1976
July 17 (cont.)

	Um	iSKS		21 31 36
		iPKKP		21 35 58.6
	Ud	iPKP		21 25 08.1
		iPKKP		21 35 40.1
	De	iPKP		21 25 14.6 C
		iSKP		21 28 50.6
		iPKKP		21 35 32.6
		i		21 35 43.9

New Britain (h = 55 km).
M = 6.6 (Up,Ki).

" 17	Up	iPKP		21 54 10.2
	Ud	iPKP		21 54 13.1
	De	iPKP		21 54 18.3

New Britain (h = 55 km).

" 17	Ki	eP		22 13 35
	Ud	iP		22 14 29.4
" 17	Up	iPKP2		22 54 59.4
	Ki	iPKP1		22 54 22.1
	Sk	ePKP2		22 54 54
	Um	iPKP1		22 54 29.2
	Ud	iPKP2		22 55 01.8
	De	iPKP2		22 55 11.5

South Island, New Zealand (h = 45 km).

" 18	Up	iP		02 22 15.8
	Sk	eP		02 22 54
	Ud	iP		02 22 24.5
	De	iP		02 21 49.8

Greece (h = 70 km).

" 18	Ud	iP		03 17 23.7

Aleutian Islands (h = N).

" 18	Ud	eP		03 22 15

Aleutian Islands (h = N).

" 18	Up	iP		03 48 26.6
	Ki	iP		03 47 51.2
	Um	iP		03 48 06.8
	Ud	iP		03 48 34.9

Japan (h = 330 km).

" 18	Up	ePKP1		04 09 07
	Ud	ePKP1		04 09 10
	De	iPKP1		04 09 19.3

Fiji Islands (h = 450 km).

" 18	Ud	eP		05 21 31
" 18	Up	iPKP1		07 02 12.3

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 18 (cont.)

Ki	iPKP		07 02 06.3
Sk	ePKP		07 02 18
Um	iPKP		07 02 11.8
Ud	iPKPl		07 02 14.6
De	iPKPl		07 02 25.4

Fiji Islands (h = 570 km).

" 18

Up	iP		08 18 52.9
Ki	iP		08 18 15.1
Um	iP		08 18 31.3
Ud	iP		08 19 00.0

Japan (h = 80 km).

" 18

Up	iP		13 35 32.1	
	i		13 35 35.6	
			micr	sec
	Mx	E	0.6	11
	Mx	N	0.6	12
	Mx	Z	0.6	14
Ki	i		13 37 09.1	
			micr	sec
	Mx	E	0.6	14
	Mx	N	0.6	14
Sk	iP		13 36 14.0	
Um	iP		13 36 10.4	
	i		13 36 13.7	
Ud	iP		13 35 39.8	
De	eP		13 34 59	

Greece (h = 30 km).
M = 4.4 (Up,Ki).

" 18

Ud	iP		15 46 32.8

Panama (h = N).

" 18

Up	iP		17 14 18.0
	i		17 14 28.3
Ki	iP		17 13 55.4
Um	iP		17 14 03.3
Ud	iP		17 14 27.8

Formosa (h = 50 km).

" 18

Up	eP		17 23 28
Ki	eP		17 23 30
	i		17 23 35.9
Ud	eP		17 23 39
	i		17 23 45.6
De	eP		17 23 39

Sumatra (h = N).

" 18

Up	i		21 23 50.4
Um	iP		21 23 21.3
Ud	iP		21 23 14.4
	i		21 23 28.3

" 18

Ud	eP		22 14 05

Yugoslavia (h = N).

1976
July 18

Up	eP		22 47 16
	i		22 47 18.4
Um	iP		22 47 03.5
Ud	iP		22 47 28.6

" 18

Up	iP		23 19 33.5
	i		23 19 38.0
Ki	iP		23 19 11.0
Sk	iP		23 19 37.7
Um	iP		23 19 19.4 D
Ud	iP		23 19 42.9
De	eP		23 19 52

Formosa (h = 45 km).

" 19

Up	iP		09 50 14.5
Um	iP		09 49 48.1
Ud	iP		09 50 19.1

" 19

Up	i		14 27 17.6
	iSgl		14 27 31.0
Ki	eSgl		14 29 41
Sk	iSgl		14 26 50.7
Um	iSgl		14 28 32.3
Ud	iPgl		14 25 40.6
	iSgl		14 26 30.5
De	iSgl		14 27 21.2

Southwest Norway,
60.1°N, 6.0°E.
Origin time = 14 24 33.
M_L = 2.6 (Up,Um,Ud).

" 19

Um	iP		18 08 37.5

" 19

Up	iP		18 09 48.8
Ki	iP		18 09 20.6
Um	iP		18 09 33.6

Mariana Islands (h = 150 km).

" 19

Up	ePKPl		21 07 12
Um	iSKPl		21 09 48.5
Ud	iPKPl		21 07 14.7
De	iPKPl		21 07 25.7 C

Fiji Islands (h = 600 km).

" 20

Up	iP		00 59 20.1	
			micr	sec
	P	Z'	0.1	1.0
	Mx	N	1.0	18
	Mx	Z	1.8	19
Ki	iP		00 58 30.4	
			micr	sec
	Mx	E	0.9	18
	Mx	N	0.8	17
	Mx	Z	1.2	18
Sk	iP		00 59 07.5	
Um	iP		00 58 53.6	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 20 (cont.)

	Ud	iP		00 59 25.3
	De	iP		00 59 45.0

Kurile Islands (h = 35 km).
M = 5.1 (Up,Ki).

" 20	Up	i		01 31 19.3
	Um	iPKP		01 31 08.7
	Ud	i		01 31 17.6

Pacific Ocean (h = N).

" 20	Up	iP		01 35 11.3
		i		01 35 28.2
		iS		01 46 06
				micr sec
		Mx	E	1.2 21
		Mx	N	1.6 22
		Mx	Z	2.1 19
	Ki	iP		01 35 11.9
		i		01 35 28.8
		iSKS		01 45 38
		iS		01 46 08
				micr sec
		P	Z'	0.1 1.0
		Mx	E	3.0 20
		Mx	N	3.9 21
		Mx	Z	3.0 19
	Sk	iP		01 35 24.8
	Um	iP		01 35 08.7
		i		01 35 26.2
		iS		01 46 02
	Ud	iP		01 35 21.5
		i		01 38 22.7
	De	iP		01 35 19.8

Sumatra (h = N).
M = 5.7 (Up,Ki).

" 20	Um	iP		05 10 08.3
" 20	Up	iPKP1		05 36 21.4
	Sk	iPKP1		05 36 13.4
	Um	iPKP1		05 36 06.6
	Ud	iPKP1		05 36 22.7
	De	iPKP1		05 36 31.2

Kermadec Islands (h = N).

" 20	Up	iP		05 39 07.4
	Ki	iP		05 38 01.0
		i		05 38 12.4
	Um	iP		05 38 31.8
	Ud	iP		05 39 11.6
	De	iP		05 39 40.1

Severnaya Zemlya (h = N).

" 20	Up	iPKP1		05 41 34.1
	Um	iPKP1		05 41 22.1
	Ud	iPKP1		05 41 34.4

1976
July 20

	Ud	eP		05 59 03
" 20	Ud	iP		06 42 22.0
" 20	Um	iP		10 55 19.6
" 20	Up	eP		11 27 46
	Ki	iP		11 26 52.1
				micr sec
		P	Z'	0.1 1.0
	Um	iP		11 27 20.6
	Ud	iP		11 27 43.8

South of Alaska (h = 10 km).

" 20	Um	iP		14 40 46.2
" 20	Ki	iP		17 36 47.5

South of Mariana Islands (h = N).

" 20	Ki	iP		18 06 17.0
	Um	iP		18 06 03.5

North Atlantic Ocean (h = N).

" 20	Ki	eP		20 22 32
	Um	iP		20 22 37.8
	Ud	iP		20 22 51.1
	De	iP		20 22 47.6
" 20	Up	iPKP1		23 10 46.6 D
		iPKP2		23 10 52.1
		i		23 11 22.7
		i		23 12 31.9
				micr sec
		PKP1	Z'	0.4 1.3
		PKP2	Z'	0.6 1.4
	Ki	i(PKP)		23 10 23.3
	Sk	i(PKP)		23 10 29.5
		iPKP1		23 10 41.0 D
	Um	iPKP1		23 10 36.0 D
	Ud	iPKP		23 10 42.6
		iPKP1		23 10 48.5 D
		iPKP2		23 10 55.7
	De	iPKP		23 10 48.4
		iPKP1		23 10 56.4 D
		iPKP2		23 11 09.2

Kermadec Islands (h = 370 km).

" 20	Up	iPKP1		23 26 31.8
	Sk	iPKP1		23 26 25.0
	Um	iPKP1		23 26 19.6
	Ud	iPKP1		23 26 33.0
	De	iPKP1		23 26 40.7

Kermadec Islands.

" 21	Um	iP		03 28 16.0

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
July	21	Up	iP		04 11 24.8	
		Ki	iP		04 11 25.0	
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		04 11 10.2	
		Um	iP		04 11 27.6	
		Ud	iP		04 11 14.7	
		De	iP		04 11 17.9	
		Panama (h = N).				
"	21	Ud	iP		04 33 15.0	
"	21	Up	iP		15 21 23.2	
			i		15 21 32.5	
			iS		15 30 06	
					micr	sec
			P	Z'	0.5	1.1
			Mx	E	10	20
			Mx	N	54	19
			Mx	Z	18	19
		Ki	iP		15 21 12.3	
			iPP		15 23 32.2	
			iS		15 29 45	
					micr	sec
			P	Z'	0.4	1.3
			Mx	E	8.7	13
			Mx	N	50	17
			Mx	Z	9.1	14
		Um	iP		15 21 13.3	
			iS		15 29 46	
		Ud	iP		15 21 35.9	
		De	iP		15 21 38.9	
		Burma-China (h = 10 km).				
		m = 6.6, M = 6.8 (Up,Ki).				
"	21	Up	iP		15 41 08.4	
		Um	iP		15 40 58.8	
		Ud	iP		15 41 21.1	
		Burma-China.				
"	21	Ki	eP		17 10 13	
		Um	iP		17 10 31.8	
		Ud	iP		17 11 01.9	
		Japan (h = 40 km).				
"	22	Up	iP		04 36 57.6	
		Ki	iP		04 36 46.3	
		Um	iP		04 36 47.0	
		Ud	iP		04 37 10.5	
		De	iP		04 37 12.4	
		Burma-China (h = N).				
"	22	Ki	iP		06 59 35.6	
"	22	Up	iP		07 08 10.6	
		Ki	iP		07 07 24.5	
		(cont.)				

1976				
July	22	(cont.)		
		Um	iP	07 07 45.3
		Ud	iP	07 08 16.0
		Kurile Islands (h = 80 km).		
"	22	Ud	iSgl	10 49 33.8
		Southwest Norway,		
		59.1°N, 6.8°E.		
		Origin time = 10 47 40.		
		By combination with Bergen		
		and Kongsberg readings.		
"	22	Up	iPKPl	14 07 51.8
		Ud	iPKPl	14 07 51.6
		De	iPKPl	14 08 01.7
"	22	Up	iP	14 41 13.5
		Ki	iP	14 40 19.8
		Um	iP	14 40 39.9
		Ud	iP	14 41 10.2
		Aleutian Islands (h = 60 km).		
"	22	Ki	iP	14 50 34.7
		Um	iP	14 50 52.7
		Ud	iP	14 51 12.6
"	22	Up	iP	16 48 01.8
		Ki	iP	16 48 01.2
				micr sec
			P Z'	0.1 0.9
		Sk	iP	16 47 47.7
		Um	iP	16 48 04.6
		Ud	iP	16 47 52.3
		De	iP	16 47 54.4
		Panama (h = 15 km).		
"	22	Up	iP	16 55 40.1
		Ki	iP	16 55 40.0
		Sk	iP	16 55 26.9
		Um	iP	16 55 43.5
		Ud	iP	16 55 30.5
		De	iP	16 55 34.8
		Panama (h = 20 km).		
"	22	Up	iP	16 59 38.4
		Sk	iP	16 59 25.6
		Ud	iP	16 59 41.7
"	22	Up	iP	17 14 41.9
		Ki	eP	17 14 10
		Ud	iP	17 14 50.2
			i	17 15 15.6
"	22	Up	iP	19 20 39.9
		Ki	iP	19 19 45.8
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 22 (cont.)

Sk	iP		19 20 20.8
Um	iP		19 20 10.5
Ud	iP		19 20 41.1

Aleutian Islands (h = 15 km).

" 22	Ki	iP	21 20 12.8
	Um	iP	21 20 17.9
	Ud	iP	21 20 36.4

Banda Sea (h = 190 km).

" 22	Ud	iP	22 28 42.6
" 23	Up	eP	00 54 47
	Ki	iP	00 54 48.8
	Ud	iP	00 54 35.3
	De	iP	00 54 36.1

Colombia (h = 170 km).

" 23	Up	iP	01 13 37.1
	Ki	iP	01 13 05.7
	Um	iP	01 13 18.7
	Ud	iP	01 13 46.3

Japan (h = 170 km).

" 23	Up	iP		01 54 32.9
		i		01 54 37.4
				micr sec
		P	Z'	0.1 1.0
		Mx	N	1.5 17
		Mx	Z	0.6 14
	Ki	iP		01 54 22.5
		i		01 54 26.8
				micr sec
		Mx	E	0.6 14
		Mx	N	1.0 16
		Mx	Z	0.7 14
	Sk	iP		01 54 45.6
		i		01 54 49.8
	Um	iP		01 54 23.2
		i		01 54 27.5
	Ud	iP		01 54 45.9
		i		01 54 49.9
	De	iP		01 54 47.9

Burma-China (h = N).
M = 5.2 (Up,Ki).

" 23	Up	iP1		02 05 07.8
		iP2		02 05 10.9
				micr sec
		P2	Z'	0.1 1.0
	Ki	iP1		02 05 05.7
	Sk	iP1		02 05 28.3
	Um	iP2		02 05 04.2

(cont.)

1976
July 23 (cont.)

Ud	iP1		02 05 23.1
	iP2		02 05 25.9
De	iP1		02 05 22.7
	iP2		02 05 25.5

Tibet (h = 30 km).

" 23	Ki	iPKP	02 33 03.5
	Sk	ePKP	02 33 15
	Um	iPKP	02 33 10.0

New Hebrides Islands
(h = 160 km).

" 23	Up	iP		02 39 53.0
		iPn		02 40 58.1
		iPP		02 41 11.9
	Ki	iP		02 39 37.2 C
				micr sec
		P	Z'	0.1 0.6
	Sk	iP		02 40 08.6
	Um	iP		02 39 38.0
		iPn		02 40 39.4
	Ud	iP		02 40 09.5 C
	De	iP		02 40 16.6
		iPP		02 41 43.9

Kazakh SSR.
Underground explosion.

" 23	Ud	iP	05 56 07.2
" 23	Up	iPKP1	06 43 30.1 C
			micr sec
		PKP1	Z' 0.1 1.0
	Ki	iPKP1	06 43 07.7
	Sk	iPKP1	06 43 23.4 C
	Um	iPKP1	06 43 17.8 C
	Ud	iPKP1	06 43 32.0 C
	De	iPKP1	06 43 40.5 C

Kermadec Islands (h = 60 km).

" 23	Up	ePKP1	06 58 12
	Ud	iPKP1	06 58 12.5
	De	iPKP1	06 58 23.0

Fiji Islands (h = 600 km).

" 23	Um	iP	07 48 28.3
	Ud	iP	07 48 56.3

Japan (h = 35 km).

" 23	Ud	iP	09 08 47.4
" 23	Ki	iP	12 03 36.9
" 23	Up	iP	12 54 53.6

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 23 (cont.)

Sk	iP		12 55 11.1
Um	iP		12 54 50.3
	i		12 54 52.9
Ud	iP		12 55 04.6
De	iP		12 55 01.6

Sumatra (h = N).

" 23

Um	iP2		15 04 02.9
Ud	iP1		15 04 07.4
	iP2		15 04 20.8

Sumatra (h = N).

" 23

Up	iSgl		17 39 33.4
Ud	iSgl		17 38 36.2

Regional event.

" 23

Up	iSgl		17 45 39.8
Sk	iSgl		17 44 42.2
Ud	iSgl		17 44 36.2

Southwest Norway,
60.9°N, 6.8°E.
Origin time = 17 42 48.
M_L = 1.8 (Ud).
By combination with Bergen reading.

" 23

Up	Mx		17 51	
			micr	sec
	Mx	E	1.2	20
	Mx	N	3.2	20
	Mx	Z	2.7	20
Ki	Mx		17 52	
			micr	sec
	Mx	E	1.4	17
	Mx	N	1.3	17
	Mx	Z	1.5	16

Bismarck Sea.
M = 5.8 (Up,Ki).

" 23

Ud	iPn		18 17 54.6
	i		18 18 09.0
	iSgl		18 18 58.2
De	iPgl		18 17 58.9
	iSn		18 18 33.3
	iSgl		18 18 50.1

Off coast of south Norway,
near 57 1/2°N, 7°E.
Origin time = 18 16 51.
M_L = 2.0 (Ud,De).
By combination with Kongsberg readings.

1976
July 23

Um	iP		19 32 48.3

" 23

Ki	iP		19 34 28.8
Um	i		19 34 39.9
Ud	iP		19 34 10.8

" 23

Up	eP		19 42 43
Ud	iP		19 42 13.0

" 23

Ud	iP		19 59 24.6

" 23

Up	iP		20 55 55.2
Ki	iP		20 57 07.8
Sk	eP		20 56 34
Um	eP		20 56 32
Ud	iP		20 55 59.9
	i		20 56 04.8
De	iP		20 55 23.4

Greece (h = N).

" 23

Up	iP		22 28 54.2	
			micr	sec
	Mx	Z	0.8	20
Ki	iP		22 28 06.9	
Um	iP		22 28 28.7	
Ud	iP		22 28 59.0	

Kurile Islands (h = N).

" 23

Up	iSgl		22 34 17.2
	i		22 34 39.1
	iRg		22 34 50.5
Ki	iSgl		22 36 25.8
Sk	eSgl		22 36 06
	i		22 36 25.3
Um	i		22 34 15.8
	iSgl		22 34 29.2
	iRg		22 35 04.6
Ud	i		22 34 59.3
	iSgl		22 35 19.6
De	e		22 35 32
	iSgl		22 35 46.8

Western USSR,
near 59 1/2°N, 28°E.
Origin time = 22 31 33.
M_L = 2.6 (Up,Um,Ud,De).
Near-surface event.
Explosion?

" 24

Up	iPKP		06 31 43.7	C
			micr	sec
	PKP	Z'	0.2	0.9
Ki	i(PKP)		06 31 52.5	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 24 (cont.)

Ki	iPKP		06 32 00.6		
			micr	sec	
	PKP	Z'	0.1	1.0	
Sk	iPKP		06 31 48.7		
Um	i(PKP)		06 31 39.4		
	iPKP		06 31 52.1		C
Ud	iPKP		06 31 41.7		
De	iPKP		06 31 36.9		

South Sandwich Islands
(h = 30 km).

" 24	Ki	iP		07 00 18.5	
	Ud	iP		07 00 07.4	
	De	eP		07 00 00	
" 24	Up	iP		08 41 22.2	
	Ki	iP		08 40 33.8	
	Um	iP		08 40 55.1	
	Ud	iP		08 41 26.5	
" 24	Up	iP		10 56 22.2	
				micr	sec
		Mx	Z	1.6	28
	Ki	eP		10 56 21	
				micr	sec
		Mx	N	1.1	20
	Sk	iP		10 56 08.3	
	Um	iP		10 56 24.6	
		iSKS		11 07 58	
		iS		11 07 22	
	Ud	iP		10 56 14.0	
	De	eP		10 56 18	

South of Panama (h = N).

" 24	Um	iP		14 50 55.3	

Hindu Kush (h = 210 km).

" 24	Up	iP		21 40 02.7	
	Ki	iP		21 40 06.4	
	Um	iP		21 40 00.0	
	Ud	iP		21 40 13.5	
	De	iP		21 40 11.3	
" 25	Ud	iP		00 06 26.5	
" 25	Up	eP		04 12 17	
	Um	iP		04 12 01.1	
	Ud	iP		04 12 24.1	
" 25	Up	iPKPl		06 02 11.2	
	Um	iPKP		06 02 09.1	
	Ud	iPKPl		06 02 13.4	
	De	iPKPl		06 02 24.6	

Tonga-Kermadec Islands
(h = 500 km).

1976
July 25

Ud	ePKP		08 30 26		

D'Entrecasteaux Islands
(h = N).

" 25	Um	iPKPl		12 29 59.0	
	Ud	iPKPl		12 30 11.7	
" 25	Ud	iP		13 28 25.6	

Hindu Kush (h = 40 km).

" 25	Up	eP		14 16 23	
				micr	sec
		Mx	E	1.1	19
		Mx	Z	0.7	18
	Ki	iP		14 16 09.4	
				micr	sec
		Mx	E	1.0	16
		Mx	N	0.7	16
		Mx	Z	0.9	16
	Um	iP		14 16 10.5	
		iS		14 26 55	
	Ud	iP		14 16 27.9	

Borneo (h = N).
M = 5.4 (Up,Ki).

" 25	Ud	iP		15 31 27.2	
" 25	Up	iP		21 27 41.2	
	Ud	iP		21 27 57.5	
	De	iP		21 27 54.2	

Afghanistan-USSR (h = 160 km).

" 25	Ud	iP		22 19 40.5	
" 26	Ki	i		02 00 30.1	
	Ud	i		02 00 36.3	

Pacific Ocean (h = N).

" 26	Up	iP		03 09 44.7	
		iS		03 20 33	
				micr	sec
		Mx	E	7.2	18
		Mx	N	10	21
		Mx	Z	11	18
	Ki	iP		03 09 30.7	
		i		03 09 31.8	
		iS		03 20 14	
				micr	sec
		P	Z'	0.1	0.9
		Mx	E	14	15
		Mx	N	6.9	14
		Mx	Z	13	15
	Sk	iP		03 09 48.4	
	Um	iP		03 09 32.5	
		iS		03 20 17	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 26 (cont.)

Ud	iP		03 09 50.7
De	iP		03 09 55.2
	iPP		03 13 49.2

Borneo (h = N).
M = 6.5 (Up,Ki).

" 26

Up	ipP		03 16 26.0
Ki	iP		03 16 06.7
Um	iP		03 16 07.6
Ud	iP		03 16 22.5

Borneo (h = N).

" 26

Ki	iP		04 00 39.7
Um	iP		04 00 44.7
Ud	iP		04 01 08.7

" 26

Ki	iPKP		05 48 01.6
De	iPKP		05 48 39.1

West Irian (h = N).

" 26

Up			micr	sec
	Mx	Z	1.0	19
Ki			micr	sec
	Mx	E	0.7	15
	Mx	N	0.8	17
	Mx	Z	1.0	17
Um	iP		05 48 02.3	
Ud	iP		05 48 21.9	

Borneo (h = N).

" 26

Sk	iP		06 32 24.3
De	iP		06 31 08.0

" 26

Up	iP		08 49 13.1
Ki	iP		08 49 02.8
	i		08 49 07.2
Sk	eP		08 49 24
Um	iP		08 49 03.8
Ud	iP		08 49 22.6
De	iP		08 49 26.3

Borneo (h = N).

" 26

Up	iP		09 02 38.0	
			micr	sec
	Mx	N	1.2	22
	Mx	Z	0.9	22
Ki	iP		09 02 25.7	
			micr	sec
	Mx	E	1.0	16
	Mx	N	0.7	15
	Mx	Z	0.9	16
Sk	eP		09 02 40	
Um	iP		09 02 27.4	
Ud	iP		09 02 44.4	

(cont.)

1976
July 26 (cont.)

De	iP		09 02 47.6

Borneo (h = N).
M = 5.4 (Up,Ki).

" 26

Ki	iP		09 56 43.2
Um	iP		09 56 43.3

Borneo (h = N).

" 26

Ud	i(P)		10 56 06.8

" 26

Up	iP		11 00 28.3
Ki	iP		10 59 59.4
Sk	eP		11 00 30
Um	iP		11 00 10.6
	i		11 00 26.4
Ud	iP		11 00 36.8
De	iP		11 00 47.5

Ryukyu Islands (h = 70 km).

" 26

Up	iP		11 26 30.5
Ki	eP		11 26 16
Sk	iP		11 26 45.3
Um	iP		11 26 16.9
Ud	iP		11 26 45.7

Sinkiang, China (h = N).

" 26

Up	iP		11 51 49.3	
			micr	sec
	P	Z'	0.1	1.4
	Mx	E	0.7	13
	Mx	N	0.6	12
	Mx	Z	0.7	11
Ki	iP		11 52 38.7	
	i		11 52 13.9	
			micr	sec
	Mx	E	0.7	13
	Mx	N	0.6	14
	Mx	Z	1.0	14
Sk	eP		11 52 29	
Um	iP		11 52 02.6	
Ud	iP		11 52 05.3	
De	iP		11 51 51.4	

Caucasus (h = N).
M = 4.5 (Up,Ki).

" 26

Ki	iP		15 28 14.0
Ud	iP		15 27 26.0

" 26

Up			micr	sec
	Mx	Z	0.7	18
Ki	eP		18 07 00	
Um	iP		18 07 08.1	
Ud	iP		18 07 30.8	

South of Mariana Islands
(h = 80 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 26 Um iP 18 41 49.1
Ud iP 18 42 05.7
Hindu Kush (h = 200 km).

" 26 Up ePKPl 19 48 11
Ud ePKPl 19 48 13

" 27 Up iP 01 00 00.5
micr sec
P Z' 0.2 1.4
Mx E 1.3 14
Mx N 3.9 15
Mx Z 6.4 15
Ki iP 00 58 41.5
i 00 58 51.7
iS 01 00 07.3
micr sec
P Z' 0.1 0.9
i Z' 0.6 1.0
Mx E 8.1 14
Mx N 7.2 16
Mx Z 11 16
Um iP 00 59 20.1
i 00 59 23.0
Ud iP 00 59 49.2
i 01 00 02.3
De iP 01 00 35.5
Norwegian Sea (h = 35 km).

" 27 Up iP 04 04 51.5
iS 04 08 12.9
micr sec
P Z' 0.3 1.5
Mx E 1.2 11
Mx N 2.7 11
Mx Z 2.6 10
Ki eP 04 04 28
i 04 04 40.2
micr sec
P Z' 1.3 3.0
i Z' 0.5 1.8
Mx E 2.3 10
Mx N 2.9 11
Mx Z 4.1 15
Um iP 04 04 43.7
i 04 04 46.7
iS 04 07 54.5
Ud iP 04 04 25.1
i 04 04 31.6
i 04 04 34.6
De iP 04 04 54.8
Iceland (h = N).
m = 5.3 (Up,Ki).

1976
July 27 Up iSgl 05 10 51.4
Ud iPn 05 09 03.3
iSgl 05 09 50.9
De eSgl 05 10 53
Southwest Norway,
60.6°N, 7.4°E.
Origin time = 05 08 13.
M_L = 2.5 (Ud).
By combination with Bergen and Kongsberg readings.

" 27 Up iP 09 21 36.5 D
iS 09 31 16
micr sec
P Z' 0.1 1.1
Mx N 1.0 19
Mx Z 1.1 17
Ki iP 09 21 40.4 D
micr sec
Mx E 0.8 17
Mx N 0.7 16
Mx Z 1.0 17
Sk iP 09 21 53.3
Um iP 09 21 33.2
iS 09 31 11
Ud iP 09 21 48.4 D
De iP 09 21 46.1
Nicobar Islands (h = N).
M = 5.2 (Up,Ki).

" 27 Up iP 10 33 57.5
Ki iP 10 33 59.0
Sk eP 10 34 17
Um iP 10 33 53.7
Ud iP 10 34 08.3
i 10 34 16.8
De iP 10 34 07.4
i 10 34 14.2
Nicobar Islands (h = N).

" 27 Um iP 10 40 17.8

" 27 Up iPKPl 11 39 01.0
Ud ePKPl 11 39 02
De iPKPl 11 39 14.4
Fiji Islands (h = 630 km).

" 27 Up iSgl 14 17 45.6
Sk iSgl 14 17 44.6
Ud i 14 16 41.0
iSgl 14 16 47.6
De iSgl 14 16 53.6
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 27 (cont.)
Coast of south Norway,
58.2°N, 6.2°E.
Origin time = 14 14 36.
M_L = 2.6 (Ud).
By combination with
Kongsberg readings.

" 27	Up	iSKPl		17 14 28.1
	Ki	iPKP		17 11 11.2
	Um	iSKPl		17 14 15.9
	Ud	iPKP		17 11 28.1

New Hebrides Islands
(h = 280 km).

" 27	Up	iP		18 45 21.0
	Ki	eP		18 45 57
	Sk	eP		18 45 55
	Um	iP		18 45 31.6
		i		18 45 39.6
	Ud	iP		18 45 36.9
	De	eP		18 45 26

Caucasus (h = N).

" 27	Up	iP		19 53 09.0
		i		19 53 10.8
		i		19 53 18.9
		iS		20 01 34
			micr	sec
		P	Z' 0.1	1.0
		i	Z' 0.1	0.9
		i	Z' 1.0	0.9
		Mx	E 615	18
		Mx	N 953	18
	Ki	iP		19 52 36.9
		i		19 52 40.4
		i		19 52 47.6
		iS		20 00 27
			micr	sec
		P	Z' 0.3	2.0
		i	Z' 0.9	1.5
		i	Z' 2.3	1.5
	Sk	iP		19 53 10.2
		i		19 53 14.4
		i		19 53 18.7
	Um	iP		19 52 47.3
		i		19 52 52.6
	Ud	iP		19 53 19.6
		i		19 53 23.5
		i		19 53 27.4
	De	iP		19 53 32.6
		i		19 53 35.7
		i		19 53 41.6

(cont.)

1976
July 27 (cont.)
China (h = 25 km).
m = 7.0 (Up,Ki), M = 8.1 (Up).
LP amplitudes and magnitude M
given for Up refer in this
case to Wiechert.

" 27	Up	iP		20 41 48.5 C
			micr	sec
		P	Z' 0.1	1.0
	Ki	iP		20 41 14.6 C
			micr	sec
		P	Z' 0.1	1.0
	Sk	iP		20 41 21.9
	Um	iP		20 41 34.4
	Ud	iP		20 41 41.1
	De	iP		20 41 57.0

Nevada.
m = 6.0 (Up,Ki).
Underground explosion.

" 27	Up	eP		21 14 47
	Ki	eP		21 14 17
	Um	iP		21 14 28.6
	Ud	iP		21 15 01.5

China (h = N).

" 27	Ki	iP		21 20 49.7
	Um	iP		21 21 01.9
	Ud	iP		21 21 32.5

China (h = N).

" 27	Ki	iP		23 13 01.8
	Sk	eP		23 13 39
	Um	iP		23 13 13.0
	Ud	iP		23 13 44.1

China (h = N).

" 27	Up	iP		23 27 46.0
		i		23 27 51.2
			micr	sec
		P	Z' 0.1	1.0
	Ki	iP		23 27 13.8
		i		23 27 19.0
			micr	sec
		P	Z' 0.1	1.0
		Mx	E 6.7	12
		Mx	N 17	12
		Mx	Z 7.8	14
	Sk	iP		23 27 46.7
		i		23 27 53.7
	Um	iP		23 27 26.5
		i		23 27 31.5
	Ud	iP		23 27 55.9

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 27 (cont.)

Ud	i		23 28 03.3
De	iP		23 28 10.9
	i		23 28 15.4

China (h = N).

" 28

Ki	iP		01 08 29.0
Um	iP		01 08 41.1
Ud	iP		01 09 11.5

China (h = N).

" 28

Up	iP		01 31 52.4
Um	iP		01 31 31.1
Ud	iP		01 32 03.0

China (h = 20 km).

" 28

Up	iP		01 55 56.3
Ki	iP		01 55 24.1
			micr sec
	Mx	E	0.6 13
	Mx	N	1.1 15
	Mx	Z	0.9 13
Sk	iP		01 55 58.3
Ud	iP		01 56 06.7

China (h = N).

" 28

Ki	eP		02 35 46
De	iP		02 36 15.6

Talaud Islands (h = 70 km).

" 28

Ki	iP		09 52 03.5
Sk	iP		09 52 38.8
Um	iP		09 52 15.5
Ud	iP		09 52 46.5
De	iP		09 52 58.7

China (h = N).

" 28

Up	iP		09 58 37.6
Ki	eP		09 58 05
Sk	eP		09 58 41
Um	iP		09 58 17.5
Ud	iP		09 58 46.7
De	iP		09 59 01.6

China (h = N).

" 28

Up	iP		10 55 50.5 D
	i		10 55 56.5
	iS		11 04 13
			micr sec
	P	Z'	0.3 1.0
	i	Z'	2.3 1.3
	Mx	E	272 19
	Mx	N	237 19
	Mx	Z	177 13
Ki	iP		10 55 17.7 D
	i		10 55 22.8

(cont.)

1976
July 28 (cont.)

Ki	iS		11 03 11
			micr sec
	P	Z'	0.4 1.5
	i	Z'	1.6 1.4
Sk	iP		10 55 51.3
	i		10 55 56.8
Um	iP		10 55 30.2 D
	i		10 55 35.1
Ud	iP		10 56 00.9 D
	i		10 56 03.0
	i		10 56 06.3
De	iP		10 56 13.6 D

China (h = 25 km).
m = 7.1 (Up,Ki), M = 7.6 (Up).

" 28

Up	eP		11 08 49
Ki	iP		11 08 15.6
Um	iP		11 08 28.1
Ud	iP		11 08 59.6

China (h = N).

" 28

Up	iPKPl		11 35 15.8
Um	iPKPl		11 35 04.8
Ud	iPKPl		11 35 17.3

" 28

Ki	iP		11 56 29.7
Ud	iP		11 57 14.8

China (h = N).

" 28

Up	iP		15 46 13.4
	i		15 46 41.8
			micr sec
	P	Z'	0.1 1.0
	Mx	E	2.0 12
	Mx	N	1.7 11
	Mx	Z	2.9 10
Ki	iP		15 45 40.1
	i		15 46 09.5
			micr sec
	Mx	E	2.0 10
	Mx	N	2.2 14
	Mx	Z	2.1 10
Sk	iP		15 46 13.5
	i		15 46 18.2
Um	iP		15 45 51.5
	i		15 45 56.0
	i		15 46 21.5
Ud	iP		15 46 24.0
	i		15 46 27.9
De	iP		15 46 36.3

China (h = 15 km).
M = 5.6 (Up,Ki).

" 28

Up	iPKPl		17 06 52.5
	i		17 07 06.3

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 28 (cont.)

Up			micr	sec
	Mx	E	1.8	30
	Mx	N	2.8	30
Ki	ePKPl		17 06 32	
			micr	sec
	Mx	E	2.4	28
	Mx	N	1.4	23
Um	iPKPl		17 06 41.1	
Ud	iPKPl		17 06 54.2	
	i		17 07 02.3	
De	iPKPl		17 07 01.1	

Kermadec Islands (h = 35 km).
M = 5.9 (Up,Ki).

" 28

Up			micr	sec
	Mx	E	1.2	21
	Mx	N	2.2	20
	Mx	Z	4.0	24
Ki	iPKP		17 34 09.4	
	i		17 34 17.1	
			micr	sec
	PKP	Z'	0.1	1.0
	Mx	E	1.8	18
	Mx	N	1.5	18
	Mx	Z	3.4	18
Um	iPKP		17 34 16.5	
	i		17 34 24.3	
Ud	iPKP		17 34 22.4	
	i		17 34 33.2	
De	iPKP		17 34 28.2	

New Hebrides Islands
(h = 5 km).
M = 5.9 (Up,Ki).

" 28

Ki	i	17 40 13.0
Um	iPKP	17 40 16.5
Ud	iPKP	17 40 23.3
De	iPKP	17 40 31.4

New Hebrides Islands
(h = 40 km).

" 28

Up	iP		18 31 57.6	
	i		18 32 03.7	
Ki	iP		18 32 00.0	
	i		18 32 04.2	
			micr	sec
	Mx	E	1.3	10
	Mx	N	2.1	10
	Mx	Z	1.7	9
Sk	iP		18 32 21.2	
Um	iP		18 31 52.5	
Ud	iP		18 32 13.9	
De	iP		18 32 13.2	

Kirgiz SSR (h = 50 km).

1976
July 28

Ki	eP	18 59 10
Um	iP	18 59 22.2

China (h = N).

" 28

Up	iP		20 22 55.8	
	i		20 23 00.6	
	i		20 23 12.3	
	iS		20 27 09	
			micr	sec
	P	Z'	0.1	1.0
	i	Z'	0.5	1.0
	i	Z'	0.7	1.0
	Mx	E	77	12
	Mx	N	104	13
	Mx	Z	87	12
Ki	iP		20 23 34.3	
	i		20 23 39.4	
	i		20 23 55.2	
	iS		20 28 21	
			micr	sec
	P	Z'	0.1	0.8
	i	Z'	0.3	1.0
	i	Z'	0.5	1.0
	Mx	E	66	12
	Mx	N	94	14
	Mx	Z	88	12
Sk	iP		20 23 31.5	
Um	iP		20 23 07.7	
	i		20 23 12.2	
	iS		20 27 34	
Ud	iP		20 23 12.2	
	i		20 23 19.3	
De	iP		20 22 58.8	
	i		20 23 04.2	

Caucasus (h = 20 km).
m = 6.2, M = 6.6 (Up,Ki).

" 28

Up	iP	21 10 03.3
Ki	iP	21 10 41.5
	i	21 11 10.5
Um	iP	21 10 15.5
Ud	iP	21 10 19.7
	i	21 10 46.3
De	iP	21 10 05.8

Caucasus (h = 30 km).

" 28

Ki	eP	21 38 07
Um	iP	21 38 21.2
Ud	iP	21 38 28.5
De	iP	21 37 43.0

" 28

Um	iP	21 52 18.0
Ud	iP	21 52 22.2

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 July	28	Up	iP		23 06 43.0	
		Ki	iP		23 07 20.6	
		Um	iP		23 06 54.8	
		Ud	iP		23 06 58.6	
		De	iP		23 06 45.3	
		Caucasus (h = 45 km).				
"	29	Ki	iP		01 10 42.8	
					micr	sec
			Mx	E	0.4	10
			Mx	N	0.4	10
		Sk	iP		01 11 18.5	
		Um	iP		01 10 56.6	
		Ud	iP		01 11 27.8	
		China (h = 35 km).				
"	29	Up	iP		02 27 05.1	
"	29	Ki	iP		04 47 11.5	
		Ud	iP		04 48 04.2	
"	29	Up	iP		05 04 47.6	
					micr	sec
			P	Z'	2.8	0.9
			Mx	E	0.7	10
			Mx	N	0.9	10
			Mx	Z	1.7	11
		Ki	iP		05 05 18.9 C	
					micr	sec
			P	Z'	2.8	1.0
			Mx	E	0.8	9
			Mx	N	0.5	9
			Mx	Z	1.0	9
		Sk	iP		05 05 25.0 C	
			i		05 05 26.5	
			i		05 05 34.5	
		Um	iP		05 04 54.2 C	
		Ud	iP		05 05 08.7 C	
		De	iP		05 04 59.0 C	
		Kazakh SSR.				
		m = 6.8, M = 4.6 (Up,Ki).				
		Underground explosion.				
"	29	Sk	iP		05 40 55.0	
		Um	iP		05 40 33.2	
		China (h = N).				
"	29	Ud	iP		05 54 25.2	
		De	iP		05 54 37.1	
"	29	Up	i		06 35 47.2	
		Um	iP		06 35 53.4	
		Ud	iP		06 35 58.7	
		Caucasus (h = N).				

1976 July	29	Ki	iP		07 07 16.3	
		Sk	iP		07 07 03.5	
		Um	iP		07 07 20.3	
			i		07 07 24.4	
		Ud	iP		07 07 06.8	
		De	iP		07 07 08.5	
			i		07 07 17.2	
		Panama (h = 30 km).				
"	29	Up	iP		07 54 28.4	
					micr	sec
			P	Z'	0.1	1.2
"	29	Up	iP		11 05 21.0	
					micr	sec
			P	Z'	0.1	0.9
		Ud	iP		11 05 43.6	
"	29	Sk	iP		11 16 05.9	
		Um	iP		11 15 42.1	
		Ud	iP		11 16 11.3	
		China (h = N).				
"	29	Ki	iP		12 39 12.5	
		Um	iP		12 39 23.8	
		Ud	i		12 40 00.8	
		De	iP		12 40 08.8	
		China (h = 15 km).				
"	29	Up	iPKPl		17 32 08.5	
		Sk	iPKPl		17 32 02.0	
		Um	iPKPl		17 31 58.7	
		Ud	iPKPl		17 32 10.8	
		De	iPKPl		17 32 19.9	
"	29	Up	eP		21 56 55	
		Ki	iP		21 57 16.9	
		Ud	iP		21 57 03.1 C	
		Mid-Indian Ocean (h = N).				
"	29	Up	i(P)		22 40 50.0	
"	30	Ki	iP		00 02 46.1	
		Sk	iP		00 03 21.1	
		Ud	eP		00 03 31	
		China (h = N).				
"	30	Up	iP		02 57 28.8	
		Ki	iP		02 57 11.5	
		Um	iP		02 57 17.4	
		Ud	iP		02 57 30.9	
		De	iP		02 57 38.9	
"	30	Up	iP		03 26 37.6	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 30 (cont.)

Up			micr	sec
	P	Z'	0.1	0.9
Ki	iP		03 26	03.7
			micr	sec
	P	Z'	0.1	1.0
Sk	iP		03 26	34.3
Um	iP		03 26	17.8
Ud	iP		03 26	45.5
De	iP		03 26	58.8

Japan (h = 370 km).
m = 5.5 (Up,Ki).

" 30

Up	i		07 29 02.4
Ki	iP		07 29 49.2
Um	iP		07 29 19.9
	i		07 29 36.6

Turkey (h = 40 km).

" 30

Up	iP		07 35 53.7
Ud	iP		07 35 48.1

Austria (h = 10 km).

" 30

Up	iP		07 38 33.1

" 30

Ki	iP		14 03 28.9

Alaska (h = 40 km).

" 30

Up	iP		20 17	03.9
			micr	sec
	P	Z'	0.1	1.1
Ki	iP		20 16	30.3
Sk	iP		20 17	06.0
Um	iP		20 16	43.1
Ud	iP		20 17	14.7
De	iP		20 17	26.9

China (h = 10 km).

" 30

Sk	iPKP		21 13 16.0

New Britain (h = 80 km).

" 30

Up	iP		21 33	28.0
	i		21 33	41.3
			micr	sec
	P	Z'	0.1	1.0
	Mx	E	0.8	15
	Mx	N	0.7	14
	Mx	Z	1.3	14
Ki	iP		21 32	55.5
			micr	sec
	P	Z'	0.1	1.0
	Mx	E	0.5	12
	Mx	N	0.5	13
	Mx	Z	0.7	13

(cont.)

1976
July 30 (cont.)

Sk	iP	21 33 30.2
Um	iP	21 33 08.5
Ud	iP	21 33 39.3
De	iP	21 33 50.9

China (h = N).
m = 5.9, M = 5.1 (Up,Ki).

" 30

Um	iP	22 55 11.5

" 31

Up	iP	01 02 06.7

" 31

Up	i(PKP)		01 06	36.7
	iPKPl		01 06	43.7
			micr	sec
	(PKP)	Z'	0.2	1.4
	PKPl	Z'	1.0	0.8
	Mx	E	3.6	26
	Mx	N	9.2	23
	Mx	Z	13	23
Ki	i(PKP)		01 06	18.6
	iPKP		01 06	22.4
	i		01 06	29.3
			micr	sec
	i	Z'	0.3	1.0
	Mx	E	5.4	22
	Mx	N	6.0	20
	Mx	Z	6.3	21
Sk	iPKPl		01 06	35.7 C
	i		01 11	43.5
Um	iPKPl		01 06	30.4 C
	iSKKS		01 16	52.5
	i		01 17	29.1
Ud	i(PKP)		01 06	41.0
	iPKPl		01 06	43.7
De	i(PKP)		01 06	46.3 C
	iPKPl		01 06	49.6

Kermadec Islands (h = 20 km).
M = 6.5 (Up,Ki).

" 31

Sk	iPKPl		01 36 06.3
Um	iPKPl		01 36 01.3
Ud	iPKPl		01 36 14.6

The same focal region as for the earthquake at 00 46 58, December 30.

" 31

Up	iPKPl		01 52	07.6
			micr	sec
	PKPl	Z'	0.1	0.8
Ki	iPKP		01 51	45.0
Sk	iPKPl		01 52	00.9 C
	ipPKPl		01 52	04.3
Um	iPKPl		01 51	55.4 C

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
July 31 (cont.)

Ud	iPKP1	01 52 09.0	
	ipPKP1	01 52 13.6	
De	iPKP1	01 52 17.5	
	ipPKP1	01 52 22.5	

Kermadec Islands.
h = 15 km (Sk,Ud,De).

" 31

Up	iPKP1	02 14 24.7	
	i	02 14 31.0	
Sk	iPKP1	02 14 17.1	
Um	iPKP1	02 14 12.0	
	i	02 14 28.0	
Ud	iPKP1	02 14 26.0	
	i	02 14 41.0	
De	iPKP1	02 14 34.0	
	i	02 14 39.1	
	i	02 14 51.2	

Kermadec Islands (h = 60 km).

" 31

Up	iPKP1	02 18 59.2	
Sk	iPKP1	02 18 51.7	
Um	iPKP1	02 18 46.4	
Ud	iPKP1	02 19 00.3	

The same focal region as for the earthquake at 00 46 58, December 30.

" 31 Um iP 02 57 44.2

" 31

Up	iP	03 31 44.7	
Sk	iPKP1	03 31 37.7	
Ud	iPKP1	03 31 43.8	
De	iPKP1	03 32 17.5	

Kermadec Islands (h = 110 km).

" 31

Um	iP	07 33 35.7	
Ud	iP	07 34 06.7	

China (h = 40 km).

" 31 Ud iP 07 45 30.4

" 31 Um iP 10 35 45.7
Mexico (h = 110 km).

" 31

Up	iPKP1	11 43 36.9	
Um	iPKP1	11 43 25.0	
Ud	iPKP1	11 43 40.0	C
De	iPKP1	11 43 50.2	

Tonga-Kermadec Islands
(h = 550 km).

" 31

Up	iPKP1	12 28 19.0	
Sk	iPKP1	12 28 12.1	

(cont.)

1976
July 31 (cont.)

Sk	i	12 28 23.8
Um	i	12 28 15.5
Ud	iPKP1	12 28 20.5
	i	12 28 35.6
De	iPKP2	12 28 40.5

Kermadec Islands (h = 130 km).

" 31 Ud iP 15 40 04.1

" 31 Ki iP 15 55 06.4
Kashmir-Tibet (h = 15 km).

" 31 Um iP 18 11 11.0
China (h = N).

" 31 Ud iP 22 37 07.6

" 31

Ki	iP	22 44 14.7
Um	iP	22 44 31.9
Ud	iP	22 44 34.8

Gulf of California (h = N).

Torild van Eck
Ota Kulhánek
Klaus Meyer
Rutger Wahlström

April 19, 1978

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BOX 517
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BOX 517
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S E I S M O L O G I C A L B U L L E T I N

U P P S A L A, K I R U N A, S K A L S T U G A N, U M E Å, U D D E H O L M and D E L A R Y

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

A U G U S T 1 - 31, 1976

1976 Aug.	1	Ki	eP		02 13 57
		Ud	iP		02 14 11.2
		De	i		02 14 13.4
		Kashmir-Tibet (h = 15 km).			
"	1	Up	iP		02 14 59.6
					micr sec
			P	Z'	0.1 1.0
		Ki	iP		02 15 01.1
		Sk	iP		02 15 14.5
		Um	iP		02 14 58.0
		Ud	iP		02 15 10.6
		De	iP		02 15 09.0
		Sumatra (h = 80 km).			
"	1	Up	iP		04 50 00.2
		Ki	iP		04 49 06.3
		Sk	iP		04 49 43.2
		Um	iP		04 49 31.7
		Ud	iP		04 50 03.4
		De	iP		04 50 25.6
		Kamchatka (h = 90 km).			
"	1	Up	iP		08 20 24.3
			i		08 20 32.5
			i		08 20 41.1
		Ki	iP		08 20 35.9
			i		08 20 43.8
		Sk	iP		08 20 51.8
		Um	iP		08 20 24.3
			i		08 20 32.5
			i		08 20 41.9
			iPP		08 22 26.4
		Ud	iP		08 20 41.0
		De	iP		08 20 36.5
		Hindu Kush (h = 55 km).			
"	1	Up	iP		10 42 00.9
		Ki	iP		10 42 07.5
		(cont.)			

1976 Aug.	1	(cont.)		
		Ud	iP	10 42 18.4
		De	iP	10 42 14.7
		Afghanistan-USSR (h = 150 km).		
"	1	Ki	e(P)	12 34 33
"	1	Um	iP	13 43 18.6
		Ud	iP	13 43 38.4
"	1	De	iPKPl	15 44 56.1
		Fiji Islands (h = 640 km).		
"	1	Up	iP	18 12 53.5
		Ud	iP	18 13 05.1
		Burma-China (h = N).		
"	1	Ud	iPKP	18 26 19.6
		Tonga Islands (h = N).		
"	1	Ud	iP	19 03 34.1
"	1	Ki	eP	21 03 38
		Um	iP	21 03 48.1
		Ud	iP	21 04 17.4
		China (h = N).		
"	2	Up	iP	05 19 47.6
		Ud	iP	05 19 54.3
		Japan (h = 70 km).		
"	2	Up	iP	05 20 47.8
			ipP	05 21 17.0
		Ud	iP	05 20 54.9
		De	iP	05 20 22.3
		Crete.		
		h = 140 km (Up).		
"	2	Up	i(PKP)	11 14 27.3
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 2 (cont.)

Up	i(PKP)		11 14 34.2	
	iPKP		11 14 40.7	
	iPP		11 17 17.1	
	iSKPl		11 18 08.9	
			micr	sec
	PKP	Z'	0.1	0.9
	SKPl	Z'	0.3	0.9
	Mx	E	15	20
	Mx	N	30	21
	Mx	Z	52	22
Ki	e(PKP)		11 14 11	
	iPKP		11 14 26.7	
	iSKPl		11 17 44.0	
			micr	sec
	PKP	Z'	0.3	1.1
	SKPl	Z'	0.2	1.3
	Mx	E	30	23
	Mx	N	30	23
	Mx	Z	33	23
Sk	i(PKP)		11 14 27.2	
	iPKP		11 14 37.2	
	iSKPl		11 18 03.7	
Um	i(PKP)		11 14 23.0	
	iPKP		11 14 33.2	
	iSKPl		11 17 56.6	
	iSKKP		11 27 09.5	
Ud	i(PKP)		11 14 32.3	
	iPKP		11 14 42.9	
	iPP		11 17 26.8	
	iSKPl		11 18 12.2	
	iSKKP		11 26 35.9	
De	i(PKP)		11 14 39.9	
	i(PKP)		11 14 43.3	
	iSKPl		11 18 20.6	

New Hebrides Islands
(h = 50 km).
M = 7.1 (Up,Ki).

" 2	Up	iP	16 26 55.3	
	Sk	iP	16 26 37.7	
	Um	iP	16 26 26.7	
	Ud	iP	16 26 58.5	
	De	iP	16 27 19.5	

Kamchatka (h = N).

" 2	De	iP	16 37 16.1	
" 2	Up	iP	17 28 25.8	
	Um	iP	17 28 29.9	
" 3	Up	iP	07 58 03.0	

(cont.)

1976
Aug. 3 (cont.)

Up	i		07 58 08.5	
	iS		08 04 13	
			micr	sec
	P	Z'	0.1	1.0
	i	Z'	0.6	1.6
	Mx	E	0.9	7
	Mx	Z	1.8	7
Ki			micr	sec
	Mx	E	4.0	12
	Mx	N	1.3	9
	Mx	Z	5.8	15
Sk	iP		07 58 23.4	
	i		07 58 28.5	
	i		08 13 19.8	
Um	iP		07 57 54.5	
	i		07 57 59.8	
	iPP		07 59 44.8	
	iS		08 04 02	
	i		08 10 23.5	
Ud	iP		07 58 19.6	
	i		07 58 24.9	
De	iP		07 58 20.8	
	i		07 58 25.8	

Kirgiz-Sinkiang (h = N).

" 3	Ki	iP	09 55 43.9	
	Um	iP	09 55 41.5	
		i	09 56 18.8	

Andaman Islands (h = 40 km).

" 3	Sk	iP	10 48 28.4	
	Um	iP	10 48 43.1	
	Ud	iP	10 48 36.5	

Guatemala (h = 110 km).

" 3	Ki	iP	11 44 58.0	
" 3	Ki	iP	14 47 13.4	
	Um	iP	14 47 16.7	
	Ud	iP	14 47 30.7	
" 3	Up	i(P)	19 38 13.8	
" 3	Ki	iP	22 19 36.2	
	Um	iP	22 19 49.0	

Volcano Islands (h = 210 km).

" 3	Up	iP	23 49 08.3	
	Ki	iP	23 48 30.7	
	Sk	iP	23 49 05.8	
	Um	iP	23 48 47.0	
		ipP	23 49 08.7	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 3 (cont.)

Ud	iP	23 49 16.2

Japan.
h = 80 km (Um).

" 4	Um	iP	00 19 06.9
" 4	Ud	iP	06 02 34.4

Aleutian Islands (h = 35 km).

" 4	Ki	iP	06 19 11.6
	Um	iP	06 19 34.6
	Ud	iP	06 20 06.5

Kurile Islands (h = 310 km).

" 4	Ud	iP	11 41 54.2
" 4	Up	iPKPl	16 14 05.2
	Sk	iPKPl	16 13 58.0
	Um	iPKPl	16 13 54.6
	Ud	iPKPl	16 14 06.5
" 4	Up	iPKPl	17 43 15.6
	Ud	iPKPl	17 43 16.6
" 4	Up	iP	23 32 56.5 D
		iPP	23 36 01.2
		iS	23 42 09.9
			micr sec
		P Z'	0.4 0.8
	Ki	iP	23 32 23.8 D
			micr sec
		P Z'	0.2 0.9
	Sk	iP	23 32 53.3 D
		iPP	23 35 54.8
		eS	23 42 08
	Um	iP	23 32 37.8 D
		i	23 32 58.6
	Ud	iP	23 33 03.9 D
		iS	23 42 25.3
	De	iP	23 33 16.1 D

Japan (h = 440 km).
m = 5.9 (Up,Ki).

" 5	Up	iPKP	02 10 37 4
	Ki	iPKP	02 10 24.0
	Sk	iPKP	02 10 34.8
	Um	iPKP	02 10 30.5
	Ud	iPKP	02 10 40.6
	De	iPKP	02 10 46.9

New Hebrides Islands
(h = 220 km).

" 5	Up	iP	03 41 58.0
		i	03 42 07.5
			micr sec
		P Z'	0.1 1.1

(cont.)

1976
Aug. 5 (cont.)

Ki	iP	03 41 09.0
Sk	iP	03 41 45.2
Um	iP	03 41 31.3
	i	03 41 41.3
Ud	iP	03 42 02.9

Kurile Islands (h = 10 km).

" 5	Ud	iP	06 12 54.4

Kurile Islands (h = N).

" 5	Up	iP	06 59 34.0
		ipP	06 59 45.8
	Ki	ipP	06 59 08.5
	Sk	iP	06 59 30.4
	Um	iP	06 59 14.5
		ipP	06 59 25.4
	Ud	iP	06 59 41.9
		ipP	06 59 52.8
	De	iP	06 59 55.6

Japan.
h = 40 km (Up,Um,Ud).

" 5	Up	iP	07 46 21.7
	Ki	iP	07 46 27.0
	Um	iP	07 46 17.8
	Ud	iP	07 46 37.6

Afghanistan-USSR (h = 60 km).

" 5	Up	iP	09 24 45.9
			micr sec
		P Z'	0.1 1.1
	Ki	iP	09 23 57.6
	Sk	iP	09 24 34.5
	Um	iP	09 24 20.2
	Ud	iP	09 24 51.9
	De	eP	09 25 06

Kurile Islands (h = N).

" 5	Up	iP	10 34 04.2
		i	10 34 09.8
	Sk	iP	10 34 21.1
	Ud	iP	10 34 18.7

India-China (h = 60 km).

" 5	Up	iP	13 49 00.1 C
		iS	13 58 38
			micr sec
		P Z'	0.3 1.0
	Ki	iP	13 49 01.8 C
		iS	13 58 43.2
			micr sec
		P Z'	0.5 0.9
	Sk	iP	13 49 16.6 C
	Um	iP	13 48 57.5 C
		iS	13 58 35.1
	Ud	iP	13 49 11.8 C

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Aug.	5	(cont.)		
		De	iP	13 49 09.5 C
		Nicobar Islands (h = 110 km).		
		m = 6.2 (Up,Ki).		
"	5	Ki	iP	14 46 36.1
		Um	iP	14 46 26.4
		Ud	iP	14 46 45.0
		De	iP	14 46 41.9
		Afghanistan-USSR (h = 200 km).		
"	5	Ud	iP	15 48 26.7
"	5	Up	iPKPl	16 48 32.5
			i	16 48 38.9
		Um	iPKPl	16 48 21.5
		Ud	iPKPl	16 48 33.3
			i	16 48 40.9
		De	iPKPl	16 48 43.2
			i	16 48 48.9
		Kermadec Islands (h = N).		
"	5	Ki	eP	18 36 37
		Ud	iP	18 37 22.8
"	5	Up	eP	19 00 50
		Ki	iP	19 00 40.7
			i	19 00 54.3
		Sk	eP	19 00 33
		Um	iP	19 00 48.1
			i	19 01 02.8
		Ud	iP	19 00 39.9
		De	iP	19 00 45.0
		Central America (h = 70 km).		
"	5	Up	iPKPl	19 36 17.6
		Ud	iP	19 36 22.0
		De	ePKPl	19 36 32
"	5	Up	iPKPl	22 05 31.9
			i	22 05 39.1
		Ud	iPKPl	22 05 34.2
		De	iPKPl	22 05 44.0
		Tonga-Kermadec Islands (h = N).		
"	5	Up	i(P)	22 19 17.3
"	5	Sk	iP	23 18 20.5
		Um	iP	23 18 37.5
		Panama (h = N).		
"	6	Up	iPKPl	03 42 16.8
			i	03 42 35.8
		(cont.)		

1976 Aug.	6	(cont.)		
		Up	i	03 42 50.2
		Ki	i	03 42 04.0
		Sk	iPKPl	03 42 09.6
			i	03 42 23.0
		Um	iPKPl	03 42 04.6
		Ud	iPKPl	03 42 18.5
		De	iPKPl	03 42 23.9
			i	03 42 43.8
		Kermadec Islands (h = 25 km).		
"	6	Up	iP	07 28 16.8
			ipP	07 28 27.3
				micr sec
			P Z'	0.1 1.0
		Ki	iP	07 27 24.8
		Sk	iP	07 28 04.1
		Um	iP	07 27 51.0
		Ud	iP	07 28 22.4
		De	iP	07 28 41.0
			ipP	07 28 51.2
		Kurile Islands.		
		h = 35 km (Up,De).		
"	6	Up	iP	07 38 12.5 C
			i	07 38 23.3
				micr sec
			P Z'	0.2 1.2
		Ki	iP	07 37 24.2
		Sk	iP	07 37 59.3
			i	07 38 10.2
		Um	iP	07 37 46.6
		Ud	iP	07 38 17.7
			i	07 38 28.6
		De	iP	07 38 36.8
		Kurile Islands (h = 20 km).		
"	6	Up	iPKPl	12 44 39.2 C
			ipPKPl	12 44 49.6
		Ki	iPKPl	12 44 19.4
		Sk	iPKPl	12 44 34.4
		Um	iPKPl	12 44 29.8 C
			ipPKPl	12 44 40.2
		Ud	iPKPl	12 44 41.3
		De	iPKPl	12 44 48.7
		South of Kermadec Islands (h = 35 km).		
"	6	Up	iP	18 46 30.9
		Sk	eP	18 46 28
		Um	iP	18 46 12.4
		Ud	iP	18 46 38.1
		De	iP	18 46 50.3

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Aug.	6	Up	iP	19 53 59.6	C
			ipP	19 54 12.5	
				micr sec	
			P Z'	0.1 1.3	
			pP Z'	0.1 1.0	
		Ki	iP	19 53 20.0	C
			ipP	19 53 31.9	
				micr sec	
			P Z'	0.1 1.0	
			pP Z'	0.1 1.1	
		Sk	iP	19 53 53.7	C
			i	19 54 09.1	
		Um	iP	19 53 37.9	C
			i	19 53 46.3	
			ipP	19 53 49.9	
		Ud	iP	19 54 06.9	C
			i	19 54 15.7	
			ipP	19 54 19.6	
		De	iP	19 54 21.6	C
			i	19 54 30.4	
			ipP	19 54 34.8	
			Japan.		
			h = 45 km (Up,Ki,Um,Ud,De).		
			m = 5.7 (Up,Ki).		
"	6	Up	iP	20 41 14.2	
		Ki	iP	20 42 02.8	
		Sk	iP	20 41 47.8	
		Um	iP	20 41 35.6	
		Ud	iP	20 41 24.7	
		De	iP	20 40 59.8	
		Ethiopia (h = N).			
"	6	Up	iP	21 54 52.1	
			ipP	21 55 03.4	
		Ki	iP	21 54 22.4	
			ipP	21 54 34.1	
		Sk	iP	21 54 51.1	
		Um	iP	21 54 34.4	C
			ipP	21 54 45.8	
		Ud	iP	21 55 00.8	
			ipP	21 55 12.2	
		De	iP	21 55 11.4	
		Ryukyu Islands.			
		h = 40 km (Up,Ki,Um,Ud).			
"	7	Ud	iP	04 00 35.7	
"	7	Up	iSgl	04 59 03.7	
		Sk	iSgl	04 58 25.9	
		Um	iSgl	05 00 03.5	
		Ud	iPn	04 57 11.2	
			iPgl	04 57 22.5	
		(cont.)			

1976 Aug.	7	(cont.)		
		Ud	i	04 57 44.3
			iSgl	04 58 03.2
		De	iSgl	04 59 05.7
		Southwest Norway, 60.4°N, 7.4°E.		
		Origin time = 04 56 27.		
		M_L = 2.2 (Ud).		
		By combination with Bergen and Kongsberg redings.		
"	7	Ud	eP	05 13 23
"	7	Ki	iP	06 27 28.3
		Um	iP	06 27 51.0
			ipP	06 28 02.8
		Ud	iP	06 28 22.1
		Kurile Islands.		
		h = 45 km (Um).		
"	7	Up	iPKPl	07 14 44.4
		Sk	ePKPl	07 14 36
		Ud	iPKPl	07 14 46.1
"	7	Up	iPKPl	07 33 37.6
		Sk	iPKPl	07 33 30.7
		Ud	iPKPl	07 33 38.7
		De	iPKPl	07 33 47.9
"	7	Sk	iSgl	08 17 37.2
		Ud	eSgl	08 17 52
		Near west coast of Norway, not far from Bergen.		
		By combination with Bergen reading.		
"	7	Um	ipPKP	09 56 29.1
		New Hebrides Islands (h = 45 km).		
"	7	De	i(P)	10 10 55.0
"	7	Ud	iSgl	10 10 58.3
		Southwest Norway, 60.0°N, 6.4°E.		
		Origin time = 10 09 06.		
		By combination with Bergen and Kongsberg readings.		
"	7	Up	iP	15 24 43.6
		Ud	iP	15 24 59.4
		De	iP	15 24 56.0
		Afghanistan-USSR (h = 100 km).		
"	7	Um	iP	21 57 08.7
		Panama (h = 25 km).		
	8	Ud	iP	02 07 49.9

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Aug.	8	Up	iP	03 19 01.2
		Um	eP	03 19 18
		Ud	eP	03 18 49
		De	i	03 18 46.1
		North Atlantic Ocean (h = N).		
"	8	Ki	eP	05 51 38
		Ud	iP	05 51 50.6
"	8	Up	iPKP1	08 48 08.9
			iPKP2	08 48 19.4
		Ki	ePKP1	08 47 51
		Sk	iPKP1	08 48 05.4
		Um	iPKP1	08 47 59.7
			i	08 48 02.2
		Ud	iPKP1	08 48 10.6
		De	ePKP2	08 48 35
		South of Kermadec Islands (h = 30 km).		
"	8	Ud	iP	09 10 47.2
"	8	Um	eP	10 27 11
		Ud	eP	10 27 39
		Kurile Islands (h = 40 km).		
"	8	Sk	iP	11 15 05.6
		Um	iP	11 15 21.0
		Ud	iP	11 15 14.1
		Guatemala (h = 80 km).		
"	8	Up	iP	11 19 27.6
		Sk	eP	11 19 30
		Um	iP	11 19 08.4
		Ud	iP	11 19 39.4
		De	eP	11 19 54
		China (h = N).		
"	8	Up	iP	15 24 52.2
		Ki	iP	15 24 22.9
		Sk	iP	15 24 49.6
		Um	iP	15 24 36.0
			i	15 24 42.6
		Ud	iP	15 24 58.9
		De	iP	15 25 10.2
		Volcano Islands (h = 180 km).		
"	8	Up	eP	17 39 17
		Ki	iP	17 38 26.0
		Ud	iP	17 39 20.7
"	8	Up	iPKP1	20 22 38.0
		Ud	iPKP1	20 22 40.0
		De	iPKP1	20 22 50.3
"	8	Ud	iPKP1	20 26 51.7
		De	iPKP1	20 27 02.3

1976 Aug.	8	Up	iPKP1	20 50 38.5
		Ud	iPKP1	20 50 40.6
		De	iPKP1	20 50 51.1
"	8	Up	iP	22 51 47.8
			i	22 51 58.6
				micr sec
			Mx E	1.2 16
			Mx N	2.9 15
			Mx Z	2.0 14
		Ki	iP	22 51 13.5
				micr sec
			Mx E	1.6 15
			Mx N	1.2 11
			Mx Z	1.4 15
		Sk	eP	22 51 49
		Um	iP	22 51 26.9
			i	22 52 16.9
		Ud	iP	22 51 57.5
			i	22 52 28.6
		De	eP	22 52 10
		China (h = N).		
		M = 5.5 (Up,Ki).		
"	8	Up	eP	23 16 27
		Ud	iP	23 16 34.5
		Mediterrean Sea (h = 60 km).		
"	9	Up	eP	00 31 57
		Um	iP	00 31 29.7
		Ud	iP	00 32 01.2
		Kurile Islands (h = N).		
"	9	Um	iP	00 33 14.1
		Ud	iP	00 33 34.0
"	9	Ud	iP	00 37 45.6
"	9	Ud	eP	01 17 28
"	9	Up	iP	03 24 21.7
"	9	Up	iPKP1	05 51 52.8
		Sk	ePKP	05 51 57
		Um	iPKP	05 51 54.4
		Ud	iPKP1	05 51 54.8
		De	iPKP1	05 52 06.3
			i	05 52 37.9
		Tonga Islands (h = N).		
"	9	Up	iP1	10 38 38.5
			iP2	10 38 41.9
		Sk	iP1	10 38 51.6
		Um	iP2	10 38 31.9
		Ud	iP1	10 38 51.2
		Tsinghai, China (h = N).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Aug.	9	Up	i(P)		14 28 26.4
		De	i(P)		14 28 20.4
"	9	Up	eP		17 14 30
			il		17 14 43.6
		Ki	eP		17 14 19
		Sk	eP		17 14 10
		Um	iP		17 14 27.4
			il		17 14 42.2
		Ud	il		17 14 33.5
		De	iP		17 14 24.3
		Central America (h = 80 km).			
"	10	Up	iP		00 23 30.6
			i		00 23 48.3
			iS		00 34 26
					micr sec
			Mx	E	1.4 24
			Mx	Z	3.0 24
		Ki	iP		00 23 31.3
			eSKS		00 34 07
			eS		00 34 24
					micr sec
			Mx	E	1.8 25
		Um	iP		00 23 33.8 C
			iS		00 34 36
		Ud	iP		00 23 21.1 C
		De	iP		00 23 23.4
		South of Panama (h = N).			
		M = 5.4 (Up,Ki).			
"	10	Up	iP		00 42 29.6
		Ki	iP		00 41 48.0
					micr sec
			P	Z'	0.1 1.1
		Um	iP		00 41 52.4
			i		00 42 04.4
		Ud	iP		00 42 26.3
			i		00 42 36.1
		De	iP		00 42 42.9
"	10	Ki	iP		02 43 39.3
		Ud	eP		02 44 36
"	10	Ud	iP		05 01 32.5
"	10	Up	i(P)		14 37 36.1
"	11	Ud	iP		07 06 55.1
"	11	Ud	ipP		14 13 56.8
		Mindanao (h = 60 km).			
"	11	Up	iPKPl		16 33 49.9
		Sk	iPKPl		16 33 41.9
		(cont.)			

1976				
Aug.	11	(cont.)		
		Um	iPKPl	16 33 36.9
		Ud	iPKPl	16 33 50.8
		De	iPKPl	16 33 59.9
"	11	Ud	eP	18 41 42
"	11	Ki	iP	19 16 32.6
		Um	iP	19 16 22.4
		Ud	iP	19 16 40.8
		Hindu Kush (h = 240 km).		
"	11	Ud	iP	19 32 29.0
"	11	Ki	iP	19 47 51.3
		Sk	eP	19 47 51
		Um	iP	19 48 03.0
"	11	Um	iPKP	22 45 45.7
			i	22 45 57.7
		De	iPKPl	22 45 57.4
		New Hebrides Islands (h = 60 km).		
"	12	Up	iP	00 45 54.0
		Sk	iP	00 46 05.8
		Um	iP	00 46 16.9
		Ud	iP	00 45 48.6
		De	iP	00 45 31.0
		Ascension Island (h = N).		
"	12	Up	iP	00 47 37.5
		Sk	iP	00 47 49.3
		Um	iP	00 48 00.3
			i	00 48 06.6
		Ud	iP	00 47 32.4
		Ascension Island (h = N).		
"	12	Ki	eP	04 07 06
		Sk	eP	04 06 55
		Um	iP	04 07 11.8
		Central America (h = N).		
"	12	Up	iP	09 43 07.8
		Um	eP	09 43 20
		Ud	iP	09 43 18.2
			i	09 43 28.4
"	12	Up	iPKP	10 18 39.8
		Sk	iPKP	10 18 38.2
			i	10 18 55.3
		Um	iPKP	10 18 32.5
			i	10 18 55.5
		Ud	iPKP	10 18 41.8
		De	iPKP	10 18 47.4
		Solomon Islands (h = 45 km).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Aug.					
	12	Up	iP	11 53 53.3	
				micr	sec
			P Z'	0.1	0.9
		Sk	iP	11 53 43.7	
		Um	iP	11 53 28.3	
		Ud	iP	11 53 59.5	
		De	iP	11 54 16.9	
		Japan (h = 50 km).			
"	12	Up	iP	11 56 01.6	
		Um	ipP	11 55 55.2	
		Ud	iP	11 56 06.8	
			ipP	11 56 16.5	
			i	11 56 31.4	
		Philippine Islands (h = N).			
"	12	De	iPKPl	13 06 40.9	
		Fiji Islands (h = 190 km).			
"	12	Ud	iP	14 05 56.6	
"	12	Ud	ePKP	18 07 12	
		De	ePKP	18 07 18	
"	12	Um	iP	20 26 42.7	
"	12	Up	iP	21 06 31.8	
			ipP	21 07 50.6	
			iPP	21 10 28.1	
			iSKS	21 16 30	
			iS	21 17 09	
				micr	sec
			P Z'	0.1	0.6
			Mx E	1.7	18
			Mx N	1.9	18
			Mx Z	2.2	18
		Sk	iP	21 06 37.8	
			i	21 08 13.9	
			ePP	21 10 39	
		Um	iP	21 06 22.1 D	
			ipP	21 07 43.3	
			iPP	21 10 13.3	
			iSKS	21 16 20	
			iS	21 16 52	
		Ud	iP	21 06 40.5 D	
			ipP	21 08 01.3	
			iPP	21 10 44.3	
		De	iP	21 06 45.8 D	
			iPP	21 10 52.2	
		Celebes Sea.			
		h = 350 km (Up,Um,Ud).			
		m = 6.2 (Up).			
"	12	Up	eP	21 23 17	
		(cont.)			

1976 Aug.				
	12	(cont.)		
		Um	iP	21 23 32.5
		Ud	eP	21 23 16
"	12	Ud	iP	21 49 06.2
"	12	Up	iP	23 37 06.3 C
			iS	23 45 30.3
				micr sec
			P Z'	4.3 1.3
			Mx E	2.4 14
			Mx N	14 18
		Sk	iP	23 37 19.9 C
			iPcP	23 37 53.9
			iPP	23 39 40.6
		Um	iP	23 36 56.4 C
			iPcP	23 37 39.8
			iS	23 45 14.3
			eP'P'	00 06 05
		Ud	iP	23 37 19.4 C
			iPP	23 39 39.8
			iS	23 45 57.5
		De	iP	23 37 21.8 C
		Burma (h = 25 km).		
		m = 7.2 (Up).		
"	12	Um	iP	23 38 51.2
		Ud	iP	23 39 23.0
		Sakhalin Island (h = 300 km).		
"	13	Up	iP	00 16 41.9
		Ud	iP	00 16 54.3
"	13	Up	ePKPl	03 21 54
		Sk	ePKPl	03 21 47
		Ud	iPKPl	03 21 56.2
		De	iPKPl	03 22 05.6
"	13	Um	iP	09 03 46.6
		Ud	iP	09 04 05.6
		De	iP	09 04 10.3
		Celebes Sea (h = 360 km).		
"	13	Up	iPKPl	09 16 04.8
			i	09 16 07.6
		Sk	iPKPl	09 15 57.2
		Um	iPKPl	09 15 52.1
		Ud	iPKPl	09 16 05.5
		De	iPKPl	09 16 14.7
			i	09 16 23.7
"	13	Up	iPKPl	13 09 41.1 C
				micr sec
			PKPl Z'	0.1 1.0
		Sk	iPKPl	13 09 32.5
		Um	iPKPl	13 09 28.5
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 13 (cont.)

Ud	iPKPl	13 09 42.2 C
	i	13 09 44.6
De	iPKPl	13 09 51.6 C

Kermadec Islands (h = N).

"	13	Up	i(P) 14 02 39.0
"	13	Um	iP 15 41 12.0
		Ud	iP 15 41 26.8
"	13	Um	iP 15 55 35.2
"	13	Up	iSgl 16 26 08.0
		Sk	iSgl 16 25 28.6
		Um	iSgl 16 27 02.5
		Ud	iPgl 16 24 25.5
			iSgl 16 25 06.2
		De	eSgl 16 26 08

Southwest Norway, 60.5°N, 7.4°E.
Origin time = 16 23 29.
M_L = 2.4 (Um,Ud).
By combination with Bergen readings.

"	13	Up	iSgl 17 09 47.3
		Sk	iSgl 17 08 28.0
		Ud	iSgl 17 08 46.6
		De	eSgl 17 09 55

Off west coast of Norway, 61.6°N, 4.1°E.
Origin time = 17 06 16.
M_L = 2.2 (Ud).
By combination with Bergen readings.

"	13	Up	eP 23 17 32
		Sk	eP 23 17 13
		Um	iP 23 17 25.3

Mexico (h = 70 km).

"	13	Up	iP 23 33 44.0
		Ki	iP 23 33 06.0
		Sk	iP 23 33 38.8
		Um	iP 23 33 23.1
		Ud	iP 23 33 50.5
		De	eP 23 34 07

Japan (h = 280 km).

"	14	Sk	eP 01 24 20
		Um	iP 01 24 36.2

Mexico (h = 70 km).

"	14	Up	iP 01 33 43.9

(cont.)

1976
Aug. 14 (cont.)

Ki	iP	01 33 35.6
Um	iP	01 33 34.4
Ud	iP	01 33 56.6
De	iP	01 34 01.5

"	14	Um	iP 03 59 46.9
"	14	Um	iP 07 35 44.0

Austria (h = N).

"	14	Ud	iP 07 37 17.7

Hindu Kush (h = 240 km).

"	14	Ud	iP 08 30 44.6
"	14	Ud	eP 10 21 15

Turkey (h = N).

"	14	Up	ePKPl 10 28 27
		Ud	iPKPl 10 28 28.8
		De	iPKPl 10 28 39.4
"	14	Ki	iP 11 23 18.6
		Sk	iP 11 23 37.3
		Um	iP 11 23 20.8
		Ud	iP 11 23 40.2
		De	iP 11 23 44.6

Borneo (h = 35 km).

"	14	Um	i(P) 14 20 18.2
"	14	Ki	eP 15 58 36
		Um	iP 15 58 51.2

Mariana Islands (h = 40 km).

"	14	Um	iP 16 12 39.8
		Ud	eP 16 13 11

China (h = N).

"	14	Up	iP		19 59 37.8
			i		19 59 42.4
					micr sec
			Mx	E	1.1 19
			Mx	N	1.0 18
			Mx	Z	0.7 18
		Ki	iP		19 58 42.1
			i		19 58 47.5
					micr sec
			Mx	E	0.9 15
			Mx	N	0.7 15
		Sk	epP		19 59 32
		Um	iP		19 59 08.3
		Ud	iP		19 59 45.5
			i		19 59 58.8

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 14 (cont.)

	De	eP	20 00 06

Kamchatka (h = N).
M = 5.1 (Up,Ki).

" 14	Um	iP	21 48 38.6
" 14	Ud	iP	22 19 59.5

Hindu Kush (h = 170 km).

" 14	Up	iSKPl	23 14 08.1
	Sk	ePKP	23 10 56
	Um	iPKP	23 10 52.4
	Ud	iPKP	23 11 02.1
		iSKPl	23 14 12.6
" 15	Up	iPKPl	00 58 24.1
	Sk	iPKPl	00 58 16.4
	Um	iPKPl	00 58 11.3
	Ud	iPKPl	00 58 25.3
" 15	Ud	iP	05 29 42.8
" 15	Up	iP	06 49 23.1
	Ki	iP	06 48 34.3
	Sk	iP	06 49 10.6
	Um	iP	06 48 56.8
	Ud	iP	06 49 27.9
	De	iP	06 49 46.9

Kurile Islands (h = N).

" 15	Um	iP	10 31 11.8

China (h = N).

" 15	Um	iP	10 38 32.3

China (h = N).

" 15	Up	iP	17 16 04.4
	Ki	iP	17 15 47.3
	Um	iP	17 15 53.6
	Ud	iP	17 16 13.0

Philippine Islands (h = 140 km).

" 15	Ud	eP	18 34 03

El Salvador (h = 70 km).

" 15	Up	iPKPl	19 02 17.0	D
		iSKPl	19 05 09.6	
			micr sec	
		PKPl	Z' 0.4 0.8	
	Ki	iPKP	19 02 04.5	
		iSKPl	19 04 48.6	
	Sk	i(PKP)	19 02 09.3	
		iPKP	19 02 17.9	
		iSKPl	19 05 03.5	

(cont.)

1976
Aug 15 (cont.)

	Um	i(PKP)	19 02 03.9
		iPKP	19 02 13.7
		iSKPl	19 04 59.0
	Ud	i(PKP)	19 02 05.4
		iPKPl	19 02 19.2 D
	De	iPKP	19 02 26.5
		iPKPl	19 02 29.4 D

Tonga-Kermadec Islands
(h = 510 km).

" 15	Up	eP	22 48 19	
			micr sec	
		Mx	N 1.1 20	
	Ki	iP	22 48 03.5	
		i	22 48 11.9	
			micr sec	
		Mx	N 1.2 21	
	Um	eP	22 48 10	
	Ud	iP	22 48 27.9	

Talaud Islands (h = 40 km).
M = 5.3 (Up,Ki).

" 15	Um	iP	22 49 43.0
		i	22 50 33.3
" 16	Up	iP	01 40 30.6
	Sk	iP	01 40 43.1
	Um	iP	01 40 57.1
		i	01 41 04.1
	Ud	iP	01 40 25.8

North of Ascension Island
(h = 40 km).

" 16	Up	iP	02 38 22.7
		ipP	02 38 31.1
			micr sec
		pP	Z' 0.1 1.0
	Ki	iP	02 39 07.9
	Sk	iP	02 38 34.6
		ipP	02 38 41.9
	Um	iP	02 38 47.7
		ipP	02 38 55.5
	Ud	iP	02 38 16.3
		ipP	02 38 24.3
	De	iP	02 37 54.1

North of Ascension Island.
h = 30 km (Up,Sk,Um,Ud)

" 16	Ud	iP	04 17 59.2
" 16	Up	iP	05 22 32.6 C
		iPcP	05 22 55.8
			micr sec
		P	Z' 0.1 1.0

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 16 (cont.)

Ki	iP	05 21 39.8	
	iPcP	05 22 24.6	
Sk	iP	05 22 11.9	
	iPcP	05 22 44.3	
Um	iP	05 22 04.8	
	iPcP	05 22 40.5	
Ud	iP	05 22 33.2	
De	iP	05 22 54.2	

Aleutian Islands (h = 70 km).

" 16

Up	iSgl	10 10 48.1	
Sk	ePgl	10 07 50	
	iSgl	10 08 39.2	
Um	iSgl	10 10 10.6	
Ud	iSn	10 09 36.1	
	iSgl	10 10 05.3	
De	iSgl	10 11 50.8	

Norwegian Sea,
near 65 1/2°N, 5°E.
Origin time = 10 06 44.
M_L = 2.7 (Up,Sk,Um,Ud,De).

" 16

Up	iP	10 22 29.2	
	iPcP	10 22 53.5	
Ki	iP	10 21 35.0	
Ud	iP	10 22 28.4	
De	iP	10 22 51.7	

Aleutian Islands (h = 55 km).

" 16

Up	iP		12 39 01.8	
	i		12 39 26.1	
			micr	sec
	i	Z'	0.1	1.0
Ki	iP		12 38 10.3	
Sk	iP		12 38 46.5	
Um	iP		12 38 34.8	
	i		12 39 03.3	
Ud	iP		12 39 06.3	
De	iP		12 39 26.8	

Kamchatka (h = 50 km).

" 16

Up	iP		14 16 56.7	C
	iS		14 25 11	
			micr	sec
	P	Z'	1.8	1.0
	Mx	E	40	14
	Mx	N	130	14
	Mx	Z	62	18
Ki	iP		14 16 37.3	C
	iS		14 24 37	
			micr	sec
	P	Z'	1.9	1.3

(cont.)

1976
Aug. 16 (cont.)

Sk	iP	14 17 05.7	C
Um	iP	14 16 42.5	C
	iS	14 24 46	
Ud	iP	14 17 08.4	C
De	iP	14 17 16.1	C

Szechwan, China (h = 15 km).
m = 7.1 (Up,Ki).

" 16 Ud iP 15 06 58.0

" 16

Up	iP	15 07 29.9
Ud	iP	15 07 41.7

" 16

Up	iP	15 11 02.0
Ki	iP	15 10 42.5
Sk	iP	15 11 11.2
Um	iP	15 10 47.1
Ud	iP	15 11 14.2
De	iP	15 11 22.6

Szechwan, China (h = N).

" 16

Up	iP	15 31 00.8
Sk	iPKPl	15 30 51.4
Um	iPKPl	15 30 47.4
Ud	iPKPl	15 31 02.1
De	iPKPl	15 31 11.7

" 16

Up	iP	15 36 22.6
	i	15 36 27.5
Ki	iP	15 36 03.2
Sk	iP	15 36 31.2
Um	iP	15 36 07.9
Ud	iP	15 36 34.9
De	iP	15 36 43.4

Szechwan, China (h = N).

" 16

Up	iP		16 24 16.6
	i		16 24 20.5
	i		16 24 41.0
	i		16 25 01.9
			micr sec
	i	Z'	0.3 1.1
	i	Z'	0.6 1.2
	i	Z'	11.4 2.1
	Mx	E	314 23
	Mx	N	662 20
Ki	iP		16 24 01.5
	i		16 24 06.7
	i		16 24 28.7
	i		16 24 46.0
			micr sec
	P	Z'	0.1 1.0

(cont.).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 16 (cont.)

Ki			micr	sec
	i	Z'	0.4	1.1
	i	Z'	1.9	1.4
	i	Z'	21.2	2.9
Sk	iP		16 24	22.1
	i		16 24	27.9
	i		16 24	50.7
Um	iP		16 24	05.2
	i		16 24	10.2
	i		16 24	32.2
Ud	iP		16 24	24.8
	i		16 24	30.8
	i		16 24	52.9
	i		16 25	10.5
De	iP		16 24	30.8
	i		16 24	37.1
	i		16 24	59.2
	i		16 25	14.3

Mindanao (h = N).
m = 6.6 (Up,Ki)
Multiple event with successively increasing amplitudes.

" 16 Um iP 16 37 25.7
i 16 37 39.5
Mindanao.

" 16 Up iP 16 41 48.9

			micr	sec
	P	Z'	0.2	1.3
Ki	iP		16 40	33.2
			micr	sec
	P	Z'	0.2	1.4
Sk	iP		16 40	54.8
Um	iP		16 40	38.8
Ud	iP		16 40	57.3

Mindanao (h = N).
m = 6.3 (Up,Ki).

" 16 Ud iP 16 46 19.7

" 16 Up iP 16 49 37.6

			micr	sec
	P	Z'	0.1	0.9
Ki	iP		16 49	22.6
			micr	sec
	P	Z'	0.1	1.0
Sk	iP		16 49	43.4
Um	iP		16 49	28.3
Ud	iP		16 49	46.9
De	iP		16 49	52.7

Philippine Islands.
m = 6.1 (Up,Ki).

1976
Aug. 16 Up iP 16 51 32.9
i 16 51 49.6
Ki eP 16 51 21
Um iP 16 51 40.3
Ud iP 16 51 51.9

" 16 Um iP 17 06 14.2
Ud iP 17 06 33.0
Philippine Islands.

" 16 Up iP 17 22 31.6
Um iP 17 22 20.2
Ud eP 17 22 40
Philippine Islands.

" 16 Up eP 17 35 51
Um iP 17 35 38.3
Ud iP 17 35 58.7
Philippine Islands.

" 16 Um iP 17 38 34.3

" 16 Up iP 17 50 11.2
Ki eP 17 49 58
Sk eP 17 50 15
Um iP 17 50 00.2
Ud iP 17 50 19.2
i 17 50 33.5
De iP 17 50 26.1
Mindanao (h = N).

" 16 Um iP 17 54 29.0

" 16 Um iP 17 58 10.3
i 17 58 20.2

" 16 Um iP 18 02 48.4
Ud iP 18 03 05.6
Philippine Islands.

" 16 Um iP 18 04 32.4
Ud iP 18 04 36.8

" 16 Up iP 18 13 27.3
Um iP 18 13 16.6
Ud iP 18 13 35.2
Philippine Islands.

" 16 Um iP 18 18 25.9

" 16 Up iP 18 25 44.5
Um iP 18 25 30.1
Ud iP 18 25 55.6

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Aug.	16	Up	iP	18 29 26.9
		Ki	iP	18 29 11.7
			i	18 29 18.8
				micr sec
			i Z'	0.1 1.5
		Sk	iP	18 29 32.9
		Um	iP	18 29 16.1
		Ud	iP	18 29 34.8
		De	iP	18 29 41.0
		Mindanao (h = 25 km).		
"	16	Up	iP	18 30 22.0
		Ki	eP	18 30 07
		Um	iP	18 30 12.2
			i	18 30 17.2
		Ud	iP	18 30 31.0
		De	eP	18 30 37
		Philippine Islands.		
"	16	Up	iP	18 34 22.4
		Ud	iP	18 34 25.3
		De	iP	18 34 31.7
"	16	Ud	iP	18 36 05.7
"	16	Ki	i	18 41 44.4
		Ud	iP	18 41 56.1
"	16	Um	iP	18 42 57.9
"	16	Up	iP	18 46 23.4
		Ki	iP	18 46 07.4
		Sk	iP	18 46 28.1
		Um	iP	18 46 12.7
		Ud	iP	18 46 31.8
		De	iP	18 46 37.3
		Mindanao (h = 50 km).		
"	16	Ud	iP	18 58 26.6
		Mindanao (h = 70 km).		
"	16	Up	iP	19 06 08.6
		Ki	iP	19 05 53.3
		Sk	eP	19 06 18
		Um	iP	19 05 58.5
		Ud	iP	19 06 17.6
		Mindanao (h = N).		
"	16	Um	iP	19 07 46.5
		Ud	iP	19 08 05.6
		Mindanao (h = N).		
"	16	Um	iP	19 22 01.9
		Ud	iP	19 22 19.0
		Philippine Islands.		

1976				
Aug.	16	Um	iP	19 32 52.1
"	16	Um	iP	19 50 27.2
		Ud	iP	19 50 47.2
		Philippine Islands.		
"	16	Um	eP	20 24 46
		Ud	iP	20 25 00.6
		Philippine Islands.		
"	16	Um	iP	20 32 35.3
		Ud	iP	20 32 54.5
		Philippine Islands.		
"	16	Ki	eP	20 42 34
		Um	iP	20 42 39.7
		Ud	iP	20 42 58.0
		Mindanao (h = 50 km).		
"	16	Up	eP	20 49 42
		Ki	eP	20 49 28
		Sk	eP	20 49 47
		Um	iP	20 49 31.6
		Ud	iP	20 49 50.2
		De	i	20 50 01.6
		Mindanao (h = 35 km).		
"	16	Up	iP	20 54 24.3
			ipP	20 54 34.9
				micr sec
			P Z'	0.1 1.3
		Ki	iP	20 53 29.8
		Sk	iP	20 54 07.3
		Um	iP	20 53 55.4
		Ud	iP	20 54 27.5
			ipP	20 54 36.3
		Kamchatka.		
		h = 35 km (Up,Ud).		
"	16	Um	iP	21 42 08.6
		Ud	iP	21 42 28.4
		Mindanao (h = N).		
"	16	Ud	i(P)	22 28 17.4
"	16	Up	iP	22 42 44.3
			i	22 43 06.5
		Um	iP	22 42 35.0
			i	22 42 38.8
		Ud	iP	22 42 53.5
		Mindanao (h = 35 km).		
"	16	Um	iP	22 52 26.2
		Ud	eP	22 52 45
		Philippine Islands.		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
Aug.	16	Up	iP		23 02 41.5	C
			i		23 02 44.3	
					micr	sec
			P	Z'	0.1	0.9
			i	Z'	0.2	1.0
			Mx	E	1.7	15
			Mx	N	1.3	15
			Mx	Z	2.4	14
		Ki	iP		23 02 25.5	C
			i		23 02 32.0	
					micr	sec
			P	Z'	0.2	1.5
			i	Z'	0.1	1.1
			Mx	E	3.0	16
			Mx	N	2.1	17
			Mx	Z	3.4	16
		Sk	iP		23 02 46.3	
			i		23 02 49.0	
		Um	iP		23 02 30.8	C
			i		23 02 33.3	
		Ud	iP		23 02 49.6	C
			i		23 02 52.6	
		De	iP		23 02 54.7	
			i		23 02 57.6	
		Mindanao (h = N).				
		m = 6.3, M = 5.8 (Up,Ki).				
"	16	Ki	i		23 29 41.5	
		Um	iP		23 29 40.4	
		Ud	iP		23 29 59.0	
		Mindanao (h = N).				
"	16	Um	iP		23 53 01.7	
		Ud	iP		23 52 42.0	
		Leeward Islands(h = 25 km).				
"	17	Ud	iP		00 08 15.7	
		Mindanao (h = 55 km).				
"	17	Ud	iP		00 24 44.2	
"	17	Up	iP		01 24 07.3	
			i		01 24 19.1	
			iS		01 34 55	
					micr	sec
			P	Z'	0.2	1.1
			Mx	E	1.9	20
			Mx	N	2.1	23
			Mx	Z	4.0	21
		Ki	iP		01 23 49.2	
			iS		01 34 20	
					micr	sec
			P	Z'	0.1	1.0
			Mx	E	3.0	20
			Mx	N	2.0	18
			Mx	Z	3.8	20
		(cont.)				

1976				
Aug.	17	(cont.)		
		Sk	iP	01 24 10.9
		Um	iP	01 23 55.0 D
			iPP	01 27 19.5
			iS	01 34 32
		Ud	iP	01 24 16.1 D
		De	iP	01 24 22.1
			i	01 24 33.5
		Leyte (h = 35 km).		
		m = 6.1, M = 5.7 (Up,Ki).		
"	17	Um	iP	02 03 40.8
		Mindanao (h = N).		
"	17	Up	iP	02 14 12.2
		Um	iP	02 13 46.7
		Ud	iP	02 14 17.7
		De	iP	02 14 35.2
"	17	Up	iP	02 20 39.9
		Ki	eP	02 20 23
		Um	eP	02 20 29
		Ud	iP	02 20 48.6
			i	02 21 06.0
		Philippine Islands (h = 70 km).		
"	17	Um	iP	03 38 45.2
		Ud	eP	03 39 03
		Mindanao (h = 55 km).		
"	17	Up	iP	04 32 31.4
			ipP	04 32 38.5
			iPP	04 36 15.7
			iSKS	04 43 07
				micr sec
			pP Z'	0.4 1.5
			Mx E	39 23
			Mx N	65 21
			Mx Z	62 22
		Ki	iP	04 32 15.4
			ipP	04 32 22.7
				micr sec
			P Z'	0.1 1.3
			pP Z'	0.5 1.3
			Mx E	69 17
			Mx N	56 17
			Mx Z	39 16
		Sk	iP	04 32 37.5
			ipP	04 32 44.3
		Um	iP	04 32 20.7
			ipP	04 32 28.2
		Ud	iP	04 32 39.7
			ipP	04 32 46.6
			iPP	04 36 29.7
		De	iP	04 32 44.4
			ipP	04 32 51.7
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 17 (cont.)
Mindanao.
h = 25 km (Up,Ki,Sk,Um,Ud,De).
m = 6.6, M = 7.2 (Up,Ki).

" 17 Up iP 04 53 55.0
Ki iP 04 53 12.0
Sk eP 04 53 47
Um iP 04 53 31.4
Ud iP 04 54 02.1
Japan (h = 70 km).

" 17 Up iP 05 31 57.2
iPP 05 35 38.4
Ki eP 05 31 41
micr sec
P Z' 0.1 1.5
Sk eP 05 32 03
Um iP 05 31 46.7
Ud iP 05 32 05.1
Mindanao (h = 30 km).

" 17 Um iP 06 31 28.7
Ud eP 06 31 46
Philippine Islands.

" 17 Um iP 06 35 33.6
Mindanao (h = N).

" 17 Um iP 06 50 34.8
Mindanao (h = N).

" 17 Up iP 08 02 00.5
Um iP 08 01 49.8
Ud eP 08 02 09
Mindanao (h = 30 km).

" 17 Up iP 08 06 36.8
ipP 08 06 41.4
micr sec
pP Z' 0.1 1.1
Mx N 1.1 20
Mx Z 1.3 24
Ki eP 08 06 20
ipP 08 06 24.9
micr sec
pP Z' 0.1 1.1
Mx E 1.2 21
Mx N 1.2 21
Sk iP 08 06 42.3
ipP 08 06 46.6
Um iP 08 06 26.1
ipP 08 06 30.6
Ud iP 08 06 44.0
ipP 08 06 49.5
(cont.)

1976
Aug. 17 (cont.)
De iP 08 06 51.0
ipP 08 06 55.4
Mindanao.
h = 15 km (Up,Ki,Sk,Um,Ud,De).
m = 6.1 (Up,Ki).

" 17 Um eP 09 10 48
Ud iP 09 11 05.6
Mindanao (h = 50 km).

" 17 Ud iPKP1 11 19 35.3
De iPKP1 11 19 46.4

" 17 Ud iP 11 45 01.4
Mindanao (h = 40 km).

" 17 Up eP 13 39 08
Ud iP 13 39 16.6
Mindanao (h = 70 km).

" 17 Up ePKP2 13 52 20
Sk iPKP1 13 52 12.6
Um iPKP1 13 52 07.2
Ud iPKP1 13 52 15.5
De iPKP2 13 52 27.1

" 17 Sk eP 14 44 07
Panama-Colombia (h = 45 km).

" 17 Up iP 17 18 22.2
Ki iP 17 18 07.2
Um iP 17 18 11.3
Ud iP 17 18 29.8
Mindanao (h = 55 km).

" 17 Up iP 17 30 35.3
micr sec
Mx N 0.8 12
Mx Z 0.7 13
Ki eP 17 29 58
micr sec
Mx E 0.8 12
Mx N 0.8 12
Mx Z 0.5 10
Sk eP 17 30 31
Um iP 17 30 15.4
i 17 30 24.9
eS 17 39 31
Ud iP 17 30 43.8
De iP 17 30 57.5
Japan (h = 25 km).

" 17 Up iP 17 42 54.9
ipP 17 43 23.8
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 17 (cont.)

Up	iS	17 47 00.0	
	iScP	17 49 55.9	
Ki	iP	17 44 00.9	
Sk	iP	17 43 34.7	
	iS	17 48 07.3	
Um	iP	17 43 26.1	
	iScP	17 50 06.0	
Ud	iP	17 43 02.7	
	i	17 43 04.5	
	iS	17 47 18.3	
De	iP	17 42 31.6	
	iS	17 46 19.0	

Dodecanese Islands.
h = 150 (Up).
ScP phases at Up, Um!

" 17

Up	ipP	18 21 44.3	
Ki	iP	18 21 21.4	
	ipP	18 21 28.5	
		micr	sec
	pP Z'	0.1	1.0
Sk	ipP	18 21 48.6	
Um	iP	18 21 26.6	
	ipP	18 21 33.8	
Ud	iP	18 21 45.0	

Ceram.
h = 25 km (Ki,Um).

" 17 Up iP 22 27 33.7

" 17

Ki	iSgl	22 33 58.1
Sk	iSgl	22 35 21.5
Um	iSgl	22 33 53.3

North Gulf of Bothnia,
65.7°N, 22.6°E.
Origin time = 22 32 48.
M_L = 2.2 (Ki,Um).
By combination with Finnish station readings.

" 17

Up	iPKP1	22 50 35.8
Sk	iPKP1	22 50 28.7
Um	iPKP1	22 50 24.5
Ud	iPKP1	22 50 37.1
	iPKP2	22 50 42.7
De	iPKP1	22 50 46.2

Kermadec Islands (h = 30 km).

" 17

Up	iP	23 04 33.3
Ki	iP	23 04 16.8
Um	iP	23 04 22.2
Ud	iP	23 04 40.7

Mindanao (h = 45 km).

1976
Aug. 17

Up	iP	23 08 48.1
Sk	iP	23 08 32.8
Um	iP	23 08 49.2
Ud	iP	23 08 37.6
De	iP	23 08 42.5

Costa Rica (h = 55 km).

" 17

Up	iP	23 10 48.2
Ki	eP	23 10 34
Um	iP	23 10 39.8
Ud	iP	23 10 58.7

Mindanao (h = 60 km).

" 17

Up	iP	23 42 07.6
Ki	iP	23 41 51.9
Ud	iP	23 42 15.7

Mindanao (h = 30 km).

" 18

Up	iP	01 03 07.8
	ipP	01 03 36.0
Sk	iP	01 03 47.0
Ud	iP	01 03 15.9
De	iP	01 02 44.6

Dodecanese Islands.
h = 150 km (Up).

" 18

Up	iP	02 05 15.9	
	iPP	02 08 59.9	
		micr	sec
	Mx N	1.2	17
	Mx Z	2.1	16
Ki	iP	02 04 59.9	
		micr	sec
	P Z'	0.1	1.2
	Mx E	3.8	17
	Mx N	4.4	18
	Mx Z	3.8	17
Sk	iP	02 05 20.8	
Um	iP	02 05 05.0	
	iS	02 15 54	
Ud	iP	02 05 23.7	
De	iP	02 05 30.7	
	i	02 05 51.1	

Mindanao (h = 30 km).

" 18

Um	i	02 41 31.8
Ud	iP	02 40 55.6

" 18

Up	iP	02 47 41.5
Ud	iP	02 47 50.0

Mindanao (h = 40 km).

" 18

Up	iP1	03 36 21.6	
	iP2	03 36 24.8	
		micr	sec
	P2 Z'	0.1	1.0

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 18 (cont.)

Ki	iP1	03 36 01.5
Sk	eP2	03 36 34
Um	iP1	03 36 06.8
Ud	iP1	03 36 33.0
De	iP2	03 36 43.9

Szechwan, China (h = N).

" 18

Up	iP	06 11 38.4
Ki	iP	06 11 21.5

Mindanao (h = 55 km).

" 18

Ud	eP	10 01 16

Mindanao (h = N).

" 18

Ud	iP	10 54 36.9

Mindanao (h = N).

" 18

Ki	iP	11 01 26.8
Um	iP	11 01 32.8
Ud	iP	11 01 51.6

Mindanao (h = 30 km).

" 18

Ud	iP	12 03 05.7

" 18

Up	iPKP1	13 57 02.0
	iPKP2	13 57 06.1
Ki	iPKP1	13 56 41.2
Sk	iPKP1	13 56 55.0
Um	iPKP1	13 56 50.2
Ud	iPKP1	13 57 03.5
De	iPKP1	13 57 11.5

Kermadec Islands (h = 15 km).

" 18

Ud	iP	15 17 47.4

Mindanao (h = N).

" 18

Up	eP	15 20 00
Ki	eP	15 19 45
Sk	eP	15 20 10
Um	iP	15 19 52.1
Ud	eP	15 20 11

Mindanao (h = 50 km).

" 18

Ki	eP	15 41 31
Um	iP	15 41 36.7
Ud	iP	15 41 55.7

Mindanao (h = 55 km).

" 18

Up	iP	17 11 35.7
Sk	eP	17 12 14
Ud	iP	17 11 44.3
De	iP	17 11 12.4

Dodecanese Islands
(h = 160 km).

1976
Aug. 18

Ud	iRg	19 10 37.9

Regional near-surface event.

" 18

Up	iP	20 40 37.7	
	iS	20 51 37	
		micr	sec
	P	Z' 0.1	1.0
	Mx	E 3.1	18
	Mx	N 3.1	16
	Mx	Z 6.0	20
Ki	iP	20 40 21.1	
	iS	20 51 10	
		micr	sec
	P	Z' 0.3	1.8
	Mx	E 3.4	14
	Mx	N 3.0	14
	Mx	Z 4.1	15
Sk	eP	20 40 42	
	i	20 40 52.1	
Um	iP	20 40 26.2	
	eS	20 51 18	
Ud	iP	20 40 45.6	
De	iP	20 40 50.6	

Mindanao (h = N).
m = 6.2, M = 6.0 (Up,Ki).

" 18

Up	iPn	20 47 25.5
	iSn	20 48 38.9
	iSgl	20 49 15.8
Ki	iSgl	20 50 29.7
Sk	e	20 46 56
	i	20 47 22.0
	i	20 47 41.8
	iSgl	20 47 53.0
Um	i	20 49 22.6
	iSgl	20 49 43.9
Ud	iPn	20 46 58.5 C
	i	20 47 12.8
	i	20 47 46.6
	i	20 48 04.1
	iSgl	20 48 18.8
De	iSn	20 48 48.4
	iSgl	20 49 27.1

Off west coast of Norway,
61.8°N, 4.4°E.
Origin time = 20 45 48.
M_L = 3.5 (Up,Ki,Sk,Um,Ud,De).
Felt.
By combination with Bergen and Kongsberg readings.

" 19

Up	ipPKP1	01 16 11.1
Sk	ePKP1	01 16 01

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Aug.	19	(cont.)			
		Um	iPKPl		01 15 55.3
		Ud	iPKPl		01 16 08.4
			ipPKPl		01 16 14.9
		De	iPKPl		01 16 16.7
			ipPKPl		01 16 23.3
		Kermadec Islands.			
		h = 20 km (Ud,De).			
"	19	Up	iPl		01 17 45.0
			iP2		01 17 50.0
			iS		01 21 59
					micr sec
			P2	Z'	0.1 1.0
			Mx	E	5.4 19
			Mx	N	4.7 19
			Mx	Z	3.3 19
		Ki	iPl		01 18 53.9
					micr sec
			Mx	E	2.3 9
			Mx	N	2.4 16
			Mx	Z	2.1 16
		Sk	iPl		01 18 26.5
			i		01 18 36.3
		Um	iPl		01 18 16.1
			iP2		01 18 20.2
			iS		01 22 58
		Ud	iPl		01 17 56.1 C
			iP2		01 18 00.5
		De	iPl		01 17 25.0
			iP2		01 17 29.3
		Turkey (h = 5 km).			
		M = 5.2 (Up,Ki).			
"	19	Up	iPKPl		01 34 41.4
			ipPKPl		01 34 46.7
			i		01 34 57.3
					micr sec
			pPKPl	Z'	0.1 0.9
		Ki	ePKPl		01 34 20
		Sk	iPKPl		01 34 33.8
			ipPKPl		01 34 40.6
			i		01 34 48.3
		Um	iPKPl		01 34 28.7
			ipPKPl		01 34 34.5
			i		01 34 42.2
		Ud	iPKPl		01 34 42.0
			ipPKPl		01 34 48.8
		De	iPKPl		01 34 50.6
			ipPKPl		01 34 57.7
		Kermadec Islands.			
		h = 20 km (Up,Sk,Um,Ud,De).			
"	19	Ud	iPKPl		01 47 59.7
			i		01 48 11.9
		De	ePKPl		01 48 09
"	19	Ud	iP		01 52 37.6

1976					
Aug.	19	Up	iPKPl		01 53 37.5
			ipPKPl		01 53 44.1
			i		01 53 54.4
					micr sec
			pPKPl	Z'	0.1 0.9
		Ki	ePKPl		01 53 15.6
			i		01 53 27.6
		Sk	iPKPl		01 53 31.2
			ipPKPl		01 53 37.6
			i		01 53 47.2
		Um	iPKPl		01 53 25.8
			ipPKPl		01 53 31.7
		Ud	iPKPl		01 53 39.4
			ipPKPl		01 53 46.2
		De	iPKPl		01 53 47.8
			ipPKPl		01 53 54.3
		Kermadec Islands.			
		h = 20 km (Up,Sk,Um,Ud,De).			
"	19	Sk	iP		02 08 24.1
"	19	Ud	iP		02 16 27.0
"	19	Up	iPKPl		02 26 18.2
		Um	iPKPl		02 26 05.7
		Ud	iPKPl		02 26 19.7
		De	iPKPl		02 26 28.8
"	19	Up	iPKPl		04 34 42.0
			ipPKPl		04 34 48.5
		Ki	iPKP		04 34 29.3
		Sk	iPKPl		04 34 36.1
			ipPKPl		04 34 42.7
		Um	iPKPl		04 34 29.9
			ipPKPl		04 34 35.8
			i		04 34 43.3
		Ud	iPKPl		04 34 43.3
		De	iPKPl		04 34 52.6
			ipPKPl		04 34 58.6
		Kermadec Islands.			
		h = 20 km (Up,Sk,Um,De).			
"	19	Up	iPKPl		05 14 32.4
			ipPKPl		05 14 39.0
		Sk	ipPKPl		05 14 31.8
		Um	iPKPl		05 14 20.7
			ipPKPl		05 14 27.2
		Ud	iPKPl		05 14 34.0
			ipPKPl		05 14 40.2
		De	ipPKPl		05 14 49.8
		Kermadec Islands.			
		h = 20 km (Up,Um,Ud).			
"	19	Ud	iP		08 03 00.1
"	19	Ud	iP		08 19 42.3

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Aug.	19	Ud	iP		08 22 43.0	
"	19	Ud	iP		08 31 39.7	
"	19	Up	iP		08 45 21.9	
		Ud	iP		08 45 40.9	
		De	iP		08 45 36.2	
"	19	Up	iP		09 04 12.2	
		Ki	iP		09 03 26.0	
		Ud	iP		09 04 18.2	
		De	iP		09 04 35.2	
		Kurile Islands (h = 90 km).				
"	19	Ud	iP		09 06 56.9	
			i		09 07 04.9	
"	19	Ud	iP		09 42 25.8	
		De	iP		09 42 46.1	
"	19	Up	iP		12 59 55.4	
					micr	sec
			P	Z'	0.1	0.9
			Mx	E	1.0	13
			Mx	N	3.7	15
			Mx	Z	1.4	13
		Ki	iP		12 59 35.7	
					micr	sec
			P	Z'	0.1	1.0
			Mx	E	2.8	11
			Mx	N	2.4	10
			Mx	Z	2.9	12
		Sk	iP		13 00 04.6	
		Um	iP		12 59 41.1	
		Ud	iP		13 00 07.6	
		De	iP		13 00 15.5	
		Szechwan, China (h = N).				
		m = 5.9, M = 5.7 (Up,Ki).				
"	19	Up	iSgl		14 16 20.6	
		Ud	i		14 15 14.0	
			iSgl		14 15 22.2	
		De	iPgl		14 14 35.7	
			i		14 15 09.9	
		Southwest Norway,				
		58.5°N, 6.4°E.				
		Origin time = 14 13 17.				
		M_L = 2.8 (Ud).				
		By combination with Bergen and Kongsberg readings.				
"	19	Ud	iPKPl		15 41 44.9	
		De	iPKPl		15 41 53.9	

1976 Aug.	19	Up	iP		17 20 34.3	
		Ki	iP		17 20 17.2	
					micr	sec
			P	Z'	0.1	1.0
		Um	iP		17 20 23.8	
		Ud	iP		17 20 42.8	
		De	iP		17 20 45.6	
		Mindanao (h = N).				
"	19	Up	iPl		19 16 43.0	
			iP2		19 16 49.4	
			iS		19 27 17	
					micr	sec
			P2	Z'	0.3	1.3
			Mx	E	1.1	19
			Mx	N	1.5	17
		Ki	iPl		19 16 23.5	
			iP2		19 16 30.7	
					micr	sec
			P2	Z'	0.2	1.0
		Sk	ePl		19 16 48	
		Um	iPl		19 16 30.8	
			iP2		19 16 39.8	
			iS		19 26 54	
		Ud	iPl		19 16 50.9	
			iP2		19 16 59.2	
			iPP		19 20 21.9	
		De	iP2		19 17 08.7	
			iPP		19 20 30.9	
		Luzon (h = 15 km).				
		m = 6.3 (Up,Ki).				
"	19	Ud	iP		19 31 32.2	
"	19	Up	iP		22 41 03.5	
		Sk	iP		22 41 46.4	
		Ud	iP		22 41 12.5	
		Greece (h = 60 km).				
"	19	Ud	iP		23 11 29.8	
		South of Mariana Islands (h = 160 km).				
"	20	Up	iP		04 06 57.0	
					micr	sec
			Mx	E	1.3	22
			Mx	N	2.5	20
			Mx	Z	3.6	22
		Ki	iP		04 06 10.1	
		Sk	eP		04 06 46	
		Um	iP		04 06 32.0	
		Ud	iP		04 07 02.1	
		De	iP		04 07 21.0	
		Kurile Islands (h = 45 km).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Aug.	20	Up	iP		06 04 27.9
		Ud	i(pP)		06 04 42.8
		Mindanao (h = N).			
"	20	Up	iSKS		07 18 49
		Ud	ipP		07 08 23.5
			iPP		07 12 26.2
		Chile (h = 80 km).			
"	20	Up	iPKP2		08 04 16.7
					micr sec
			PKP2	Z'	0.1 0.9
		Sk	ePKP2		08 04 08
		Um	iPKP1		08 03 58.2
		Ud	iPKP2		08 04 18.1
		De	i		08 04 26.9
		Kermadec Islands (h = 45 km).			
"	20	Up	i(P)		09 53 24.5
"	20	Um	iP		11 17 26.6
		Ud	iP		11 17 45.8
		Mindanao (h = 80 km).			
"	20	Sk	iP		11 30 34.1
		Ud	iP		11 30 20.1
		Pakistan (h = N).			
"	20	Ud	iP		14 37 39.7
"	20	Ki	iP		15 17 49.8
		Um	iP		15 17 55.6
		Ud	iP		15 18 14.9
		Mindanao (h = 60 km).			
"	20	Ud	ipP		15 46 57.4
		Dodecanese Islands (h = 40 km).			
"	20	Ki	iP		17 41 02.2
		Um	iP		17 41 30.6
		Ud	iP		17 41 54.1
"	21	Ud	eP		02 37 54
		Mindanao (h = 80 km).			
"	21	Up	iP		07 10 47.0
			i		07 11 01.2
			i(PP)		07 14 22.5
			i(PP)		07 14 59.5
			iPP		07 15 15.3
			iSKS		07 21 09
			iS		07 22 25
			iPKKP		07 26 17.1
					micr sec
			PP	Z'	0.1 1.0
		(cont.)			

1976					
Aug.	21	(cont.)			
		Up			micr sec
			Mx	E	0.9 16
			Mx	N	2.4 19
			Mx	Z	2.5 23
		Ki	iP		07 10 32.9
			ipP		07 11 16.7
			i(PP)		07 14 46.6
			iPP		07 14 52.2
			iS		07 20 55
			iPKKP		07 26 26.6
					micr sec
			P	Z'	0.1 1.0
			PP	Z'	0.4 1.9
			Mx	E	1.8 18
			Mx	N	1.9 19
			Mx	Z	1.0 17
		Sk	iP		07 10 54.2
			i(PP)		07 14 59.1
			iPP		07 15 25.5
			iPKKP		07 26 13.4
		Um	iP		07 10 37.7 C
			i		07 10 41.2
			ipP		07 11 21.9
			i(PP)		07 14 30.3
			iPP		07 14 59.2
			i		07 18 11.6
			iSKS		07 21 00
			iS		07 22 06
			iPKKP		07 26 22.9
		Ud	iP		07 10 55.7
			i(PP)		07 15 00.0
			iPP		07 15 31.9
			iPKKP		07 26 11.3
		De	iP		07 11 00.0
			i(PP)		07 15 19.4
		Banda Sea.			
		h = 180 km (Ki,Um).			
		m = 6.3, M = 5.8 (Up,Ki).			
"	21	Up	iP1		07 47 17.3
			iP2		07 47 29.0
		Ki	iP1		07 47 01.3
			iP2		07 47 13.2
		Um	iP1		07 47 06.9
		Ud	iP1		07 47 25.9
		Mindanao (h = 70 km).			
"	21	Ud	iP		07 53 36.1
"	21	Up	iP		08 19 35.0
		Sk	iP		08 19 48.4
		Ud	iP		08 19 48.4
"	21	Um	iP		09 00 18.1
		Banda Sea (h = N).			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Aug.	21	Up	iP	09 59 23.0	
		Ki	iP	09 59 05.3	
		Um	iP	09 59 12.1	
		Ud	iP	09 59 30.4	
		Mindanao (h = 70 km).			
"	21	Up	i(pP)	12 22 25.1	
		Ud	iP	12 22 33.2	
		Uzbek SSR (h = N).			
"	21	Up	iP	12 58 37.2	C
			ipP	12 58 49.7	
		Ki	iP	12 58 38.3	C
		Sk	iP	12 58 52.5	
		Um	iP	12 58 34.6	C
			ipP	12 58 47.2	
		Ud	iP	12 58 48.0	C
			ipP	12 59 00.6	
		De	iP	12 58 45.9	C
			ipP	12 58 58.1	
		Sumatra.			
		h = 45 km (Up,Um,Ud,De).			
"	21	Up	iPKPl	13 46 33.7	
		Ud	iPKPl	13 46 35.0	
		De	iPKPl	13 46 45.9	
		Tonga-Kermadec Islands			
		(h = 620 km).			
"	21	Up	iP	16 44 58.4	
		Um	eP	16 44 48	
		Ud	iP	16 45 08.1	
		Mindanao (h = 60 km).			
"	21	Sk	eP	16 50 08	
		Um	iP	16 50 25.2	
		Colombia (h = 20 km).			
"	21	Up	iP	20 26 44.4	
		Ki	ipP	20 26 45.6	
		Sk	iP	20 26 49.9	
		Um	iP	20 26 33.8	
			ipP	20 26 51.1	
		Ud	iP	20 26 52.5	
			ipP	20 27 08.0	
		Mindanao.			
		h = 60 km (Um,Ud).			
"	21	Um	iP	21 16 24.6	
			i	21 16 32.4	
		Ud	iP	21 16 46.7	
		Mindanao (h = 55 km).			
"	21	Up	iP	22 00 03.1	
			i	22 00 04.5	
			i	22 00 06.5	
		(cont.)			

1976						
Aug.	21	(cont.)				
		Up	iS		22 08 20.9	
					micr	sec
			i	Z'	0.4	1.1
			i	Z'	1.3	1.3
			Mx	E	21	16
			Mx	N	9.9	10
			Mx	Z	43	16
		Ki	iP		21 59 43.7	
			i		21 59 44.7	
			i		21 59 47.0	
			iS		22 07 49	
					micr	sec
			i	Z'	0.3	1.1
			i	Z'	1.1	1.5
			Mx	E	38	13
			Mx	N	42	16
			Mx	Z	29	12
		Sk	iP		22 00 12.3	
			i		22 00 16.9	
		Um	iP		21 59 48.7	
			i		21 59 49.9	
			i		21 59 52.0	
			iS		22 07 54	
		Ud	iP		22 00 16.6	
			i		22 00 17.3	
			i		22 00 19.5	
		De	iP		22 00 22.7	
		Szechwan, China (h = N).				
		m = 6.8, M = 6.7 (Up,Ki).				
		Multiple event.				
"	22	Up	iP		02 11 40.3	
			iS		02 19 38	
			iP'P'		02 41 03.0	
			i		02 41 10.7	
					micr	sec
			P	Z'	0.2	1.2
			Mx	E	1.0	18
			Mx	N	1.4	19
			Mx	Z	1.7	18
		Ki	iP		02 10 43.6	
			i		02 10 47.1	
			iS		02 17 57	
					micr	sec
			i	Z'	0.3	1.0
			Mx	E	0.7	16
			Mx	N	2.1	20
			Mx	Z	1.2	16
		Sk	iP		02 11 12.0	
			iP'P'		02 41 15.7	
		Um	iP		02 11 14.0	
			i		02 19 39.3	
			iP'P'		02 41 08.6	
			i		02 41 15.2	
			iS		02 18 50	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 22 (cont.)

Ud	iP	02 11 37.0	
	iP'P'	02 41 03.4	
De	iP	02 12 01.5	
	i	02 12 36.8	

Alaska (h = 140 km).
m = 5.9, M = 5.2 (Up,Ki).

" 22

Up	iP	02 16 11.4
Sk	iP	02 15 52.5
Ud	iP	02 16 08.9

" 22

Up	iP	02 53 04.5
Sk	iP	02 53 40.1
Um	iP	02 53 50.2
Ud	iP	02 53 01.4
	i	02 53 15.3

Italy (h = N).

" 22

Up	eP	03 10 16
Ud	iP	03 10 30.0

Turkey (h = N).

" 22

Up	ePKPl	05 37 49
Sk	iPKPl	05 37 43.3
Ud	iPKPl	05 37 50.5

" 22

Up	iPKPl	07 06 28.2
Sk	iPKPl	07 06 20.5
Um	iPKPl	07 06 15.7
Ud	iPKPl	07 06 29.6
De	iPKPl	07 06 38.7

Kermadec Islands (h = N).

" 22

Ud	iP	08 52 18.2

" 22

Up	iP	13 30 03.0
Sk	eP	13 30 13
Um	iP	13 29 48.3
Ud	iP	13 30 16.0

Szechwan, China (h = N).

" 22

Up	iP		13 33 42.9	
	iS		13 37 39	
			micr	sec
	P	Z'	0.1	1.0
	Mx	E	0.8	11
	Mx	N	0.9	13
	Mx	Z	1.1	12
Ki	iP		13 34 50.5	
			micr	sec
	Mx	E	1.0	10
	Mx	N	0.7	10
Sk	iP		13 34 26.6	
Um	iP		13 34 14.4	
	iS		13 38 48	

(cont.)

1976
Aug. 22 (cont.)

Ud	iP	13 33 53.6
	i	13 34 00.0
De	iP	13 33 19.9
	i	13 33 23.9

Turkey (h = 15 km).
M = 4.7 (Up,Ki).

" 22

Ki	iPgl	15 15 33.1
	iSgl	15 15 43.5
	i	15 15 49.6
Um	iPgl	15 16 30.5
	iSgl	15 17 26.1

Swedish Lapland-Norrbotten, Sweden, 67.9°N, 22.7°E.
Origin time = 15 15 17.
M_L = 2.2 (Um).
By combination with Finnish station readings.

" 22

Sk	iP	16 15 47.9

" 22

Up	iP	17 23 41.8
	i	17 23 48.0
Sk	iP	17 24 20.5
Um	iP	17 24 19.4
Ud	iP	17 23 47.8
De	iP	17 23 11.6

Ionian Sea (h = 60 km).

" 22

Ud	iP	19 55 33.7

Japan (h = 400 km).

" 22

Sk	e(PKP)	20 22 41
Um	iPKP	20 22 40.7
De	iPKP	20 22 55.0

Santa Cruz Islands (h = 60 km).

" 22

Up	eP		21 28 49	
			micr	sec
	Mx	E	1.3	23
	Mx	N	2.1	23
	Mx	Z	4.0	24
Ki			micr	sec
	Mx	E	2.4	25
	Mx	N	3.2	20
	Mx	Z	5.0	24
Sk	ePKP		21 28 49	
Um	iPKP		21 28 41.2	
	i		21 28 48.9	
Ud	ePKP		21 28 49	
De	iPKP		21 28 56.9	

New Hebrides Islands (h = 30 km).
M = 5.9 (Up,Ki).

" 22

Ud	iP	23 51 25.2
De	iP	23 51 56.0

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Aug.	22	Ud	iP		23 53 23.6
"	23	Ud	iPKP1		00 06 58.7
		De	iPKP1		00 07 09.6
"	23	Up	iP		03 20 02.7
			i		03 20 08.6
					micr sec
			P	Z'	0.1 0.7
		Ki	iP		03 21 20.5
		Sk	iP		03 20 43.4
		Um	iP		03 20 42.5
		Ud	iP		03 20 08.7
			i		03 20 13.8
			iS		03 24 13.2
		De	iP		03 19 31.6
		Greece (h = 50 km).			
"	23	Up	iP		03 40 17.8 C
			iS		03 48 33
					micr sec
			P	Z'	1.2 1.1
			Mx	E	16 13
			Mx	N	85 17
			Mx	Z	26 13
		Ki	iP		03 39 57.8 C
			i		03 40 00.7
					micr sec
			P	Z'	1.1 1.5
			Mx	E	48 12
			Mx	N	116 14
			Mx	Z	45 12
		Sk	iP		03 40 26.3 C
			i		03 40 29.5
		Um	iP		03 40 02.9 C
			i		03 40 05.8
			iS		03 48 08
		Ud	iP		03 40 29.5 C
			i		03 40 32.5
		De	iP		03 40 36.6 C
			i		03 40 39.7
		Szechwan, China (h = N).			
		m = 6.9, M = 7.1 (Up,Ki).			
"	23	Up	iP		03 55 50.5
					micr sec
			P	Z'	0.3 1.9
		Ki	iP		03 55 33.5
					micr sec
			P	Z'	0.2 1.3
		Sk	iP		03 55 54.4
		Um	iP		03 55 39.0
		Ud	iP		03 55 58.2
		Mindanao (h = 60 km).			
		m = 6.3 (Up,Ki).			

1976				
Aug.	23	Up	iP	04 23 18.3
		Ki	iP	04 22 31.1
		Ud	iP	04 23 23.8
		Kurile Islands (h = 320 km).		
"	23	Up	iP	04 41 20.2
"	23	Ud	iP	09 08 37.2
		De	iP	09 08 39.7
"	23	Um	iP	09 52 26.3
		Ud	iP	09 52 43.8
		De	iP	09 52 48.3
		Celebes (h = 120 km).		
"	23	Ud	iP	10 28 45.3
		Japan (h = 60 km).		
"	23	Up	iP	14 07 47.5
		Ki	iP	14 07 57.5 C
				micr sec
			P	Z' 0.1 0.9
		Sk	iP	14 07 36.4
		Um	iP	14 07 56.1
		Ud	iP	14 07 37.0
		De	iP	14 07 35.3
		Windward Islands (h = 70 km).		
"	23	Up	iPKP2	19 05 15.6
		Um	iPKP1	19 05 00.7
		Ud	iPKP1	19 05 13.0
"	23	Sk	iP	21 12 28.1
		Um	iP	21 12 04.5
		Ud	iP	21 12 31.2
		Szechwan, China (h = N).		
"	23	Up	iPKP1	21 51 15.1
		Sk	iPKP1	21 51 06.6
		Ud	iPKP1	21 51 17.6
		De	iPKP1	21 51 26.1
"	24	Um	iP	06 03 49.3
			ipP	06 03 59.0
		Ud	iP	06 04 18.7
			ipP	06 04 28.2
		Japan.		
		h = 35 km (Um,Ud).		
"	24	De	iP	06 09 58.6
"	24	Up	eP	07 32 00
		Sk	iP	07 32 35.7
		Um	iP	07 32 29.0
		Ud	iP	07 32 05.4
		De	iP	07 31 33.2
		Crete (h = N).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 24 Up iSgl 14 29 05.8
Ud iPgl 14 27 41.8
iSgl 14 28 02.8
iRg 14 28 12.5
De iSgl 14 29 01.3
Gulf of Oslo, 59,4°N, 10.5°E.
Origin time = 14 27 15.
M_L = 1.7 (Ud).
Near-surface event.

" 24 Ud iPgl 16 27 36.8
iSgl 16 27 44.7
iRg 16 27 49.8
Regional near-surface event.

" 24 Ud eSgl 19 17 20

" 25 Up iP 03 28 59.7
Ud iP 03 29 11.2

" 25 Up iP 04 09 28.5

			micr	sec
	Mx	E	0.8	11
	Mx	N	0.7	10
	Mx	Z	0.9	10

Ki iP 04 10 05.3
i 04 10 40.4

			micr	sec
	Mx	E	0.4	8
	Mx	N	0.4	8

Sk eP 04 10 05
Um iP 04 09 40.6
i 04 09 44.3
Ud iP 04 09 44.1
i 04 09 47.5
De iP 04 09 29.8
Caucasus (h = N).

" 25 Up iP 12 42 37.7
i 12 42 50.3
iSKS 12 52 57
iS 12 53 09

			micr	sec
	P	Z'	0.1	0.8
	i	Z'	0.3	1.0
	Mx	E	2.2	23
	Mx	N	4.4	24
	Mx	Z	2.4	25

Ki iP 12 42 18.3
i 12 42 33.3
iS 12 52 31

			micr	sec
	P	Z'	0.2	1.3
	i	Z'	0.3	1.0

(cont.)

1976
Aug. 25 (cont.)
Ki

			micr	sec
	Mx	E	1.7	16
	Mx	N	2.1	20
	Mx	Z	3.0	19

Sk eP 12 42 42
Um iP 12 42 25.4
i 12 42 42.9
iSKS 12 52 42
Ud iP 12 42 46.2
De iP 12 42 52.8
i 12 43 10.9
ePP 12 46 30
Luzon (h = 25 km).
m = 6.4, M = 5.8 (Up,Ki).

" 25 Um iP 17 41 48.1

" 25 Ki eP 17 57 37
Um iP 17 57 40.1
Ud iP 17 58 00.2
Mindanao (h = 50 km).

" 25 Up i(P) 18 39 11.3
Ud i(P) 18 39 56.1

" 25 Up iPgl 21 24 57.4 C
iSgl 21 25 18.1
i 21 25 19.9
Ki eSgl 21 29 12
Sk eSn 21 26 36
iSgl 21 26 57.6
Um iSgl 21 27 15.0
Ud iPgl 21 24 51.8
i 21 24 54.1
i 21 25 09.7
iSgl 21 25 10.5
De iPgl 21 25 14.0
iSgl 21 25 47.0
Närke, Sweden, 58.9°N, 15.1°E.
Origin time = 21 24 28.
M_L = 2.9 (Up,Sk,Um,Ud,De).
Felt.

" 26 Ud iPKPl 06 29 05.0
De iPKPl 06 29 15.9
Tonga-Kermadec Islands (h = 550 km).

" 26 Up iP 14 41 49.4

			micr	sec
	P	Z'	0.1	1.0

Ki iP 14 41 14.3
Sk iP 14 41 22.5
Um iP 14 41 34.3
Ud iP 14 41 41.0
Nevada.
Underground explosion.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Aug.	26	Up	iSgl	14 48 55.0
		Sk	eSgl	14 48 32
		Ud	iPgl	14 47 32.2
			iSgl	14 47 53.0
			i	14 47 54.9
			iRg	14 48 04.0

Southeast Norway, 60.7°N, 10.7°E.
Origin time = 14 47 04.
M_L = 2.1 (Up,Ud).
Near-surface event.

"	26	Up	iSgl	17 07 25.1
		Sk	iPgl	17 05 56.6
			iSgl	17 06 47.5
		Um	iSgl	17 08 21.1
		Ud	iPgl	17 05 42.7
			iSgl	17 06 24.0
		De	iSgl	17 07 24.8

Southwest Norway, 60.4°N, 7.4°E.
Origin time = 17 04 47.
M_L = 2.6 (Ud).
By combination with Bergen and Kongsberg readings.

"	26	Sk	eP	18 09 52
		Ud	iP	18 09 26.4

Zambia (h = N).

"	27	Up	iP	02 43 10.6
		Ud	iP	02 43 16.1
		De	iP	02 43 34.3

Kurile Islands (h = N).

"	27	Sk	eP	08 51 29
		Ud	iP	08 51 39.8
"	27	Ud	iP	20 10 37.8
"	27	Up	iPKPl	21 48 06.1
		Sk	iPKPl	21 47 59.0
		Ud	iPKPl	21 48 07.8
		De	iPKPl	21 48 17.1
"	28	Up	iP	02 28 08.7
		Ud	iP	02 28 02.6
"	28	Up	iP	02 40 49.3 D
			ipP	02 41 24.9
				micr sec
			P Z'	0.1 0.7
		Ki	iP	02 39 56.6
			ipP	02 40 32.6
		Sk	iP	02 40 27.2
		Um	iP	02 40 22.5 D

(cont.)

1976				
Aug.	28	(cont.)		
		Um	ipP	02 40 56.9
		Ud	iP	02 40 49.7 D
			ipP	02 41 23.7
		De	iP	02 41 11.7

Aleutian Islands.
h = 150 km (Up,Ki,Um,Ud).

"	28	Up	iP	03 03 55.3 C
			i	03 04 06.2
			iPn	03 05 01.5
			iPP	03 05 12.7
				micr sec
			i Z'	0.3 0.5
		Ki	iP	03 03 38.9 C
				micr sec
			P Z'	0.6 0.6
		Sk	iP	03 04 10.5 C
			iPP	03 05 33.4
		Um	iP	03 03 39.8 C
		Ud	iP	03 04 11.9 C
		De	iP	03 04 19.0 C
			iPP	03 05 41.0

Eastern Kazakh SSR.
m = 6.6 (Up,Ki).
Underground explosion.

"	28	Up	iP	06 44 16.3
		Um	i	06 44 08.9
		Ud	eP	06 44 32

China (h = N).

"	28	Ud	iPKP	10 24 41.7

Fiji Islands (h = 620 km).

"	28	Up	iP	10 42 36.1
"	28	Ud	iP	11 35 22.9
"	28	Ud	iP	15 54 09.0

Mindanao (h = 35 km).

"	28	Up	iP1	16 33 28.6
			iP2	16 33 33.2
		Um	iP2	16 33 11.3

China (h = N).

"	28	Up	iP	17 40 29.0
		Ud	iP	17 40 29.7

Aleutian Islands (h = 40 km).

"	28	Sk	el	19 03 43
		Um	iPKPl	19 03 19.6
			il	19 03 37.4
		Ud	ePKPl	19 03 34
"	28	Ud	eP	20 45 44

Mindanao (h = 50 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Aug.	28	Ud	iP	22 14 46.5
		Mindanao (h = 55 km).		
"	28	Ud	eP	22 26 05
		Oregon (h = N).		
"	28	Up	iP	23 09 10.6
		Ki	eP	23 09 08
		Ud	iP	23 09 26.3
			i	23 09 32.3
		De	iP	23 09 26.8
		Sinkiang, China (h = N).		
"	29	Ki	ePl	02 20 37
			i	02 20 45.1
		Ud	i	02 21 14.5
		Ceram Sea (h = N).		
"	29	Up	iP	02 57 42.7
		Um	iP	02 57 32.3
		Ud	iP	02 57 51.5
		Mindanao (h = 70 km).		
"	29	Up	eP	05 43 17
		Ki	iP	05 43 00.4
				micr sec
			P Z'	0.1 1.0
		Sk	iP	05 43 32.3
		Um	eP	05 43 02
		Ud	iP	05 43 22.6
		Mindoro (h = 30 km).		
"	29	De	iP	08 32 38.2
"	29	Up	eP	10 53 49
		Ki	iP	10 52 32.7
		Um	iP	10 53 12.2
		De	iP	10 54 29.8
		North of Severnaya Zemlya (h = N).		
"	29	Um	iP	12 54 09.7
"	29	Ud	iPKP	13 06 14.1
		Chile (h = N).		
"	29	Ud	iP	13 37 07.4
"	29	Up	eP	14 30 07
		Um	iP	14 29 48.8
		Ud	iP	14 30 15.0
		Bonin Islands (h = N).		
"	29	Up	iP	15 25 13.2
			i	15 25 20.4
		(cont.)		

1976				
Aug.	29	(cont.)		
		Ki	iP	15 25 15.3
		Sk	iP	15 25 30.1
		Um	iP	15 25 11.4
		Ud	iP	15 25 25.4
		De	iP	15 25 23.2
		Sumatra (h = 50 km).		
"	29	Ud	iP	15 45 15.5
"	29	Up	iP	16 16 22.5
			ipP	16 16 54.6
		Ki	iP	16 15 58.3
		Sk	iP	16 16 25.7
		Um	iP	16 16 06.9
		Ud	iP	16 16 32.4
			ipP	16 17 04.6
		De	iP	16 16 42.6
		Formosa.		
		h = 130 km (Up,Ud).		
"	29	Up	ePKPl	17 19 39
		Sk	ePKPl	17 19 33
		Um	iPKPl	17 19 27.5
		Ud	iPKPl	17 19 41.6
		De	iPKPl	17 19 49.9
"	29	Up	iPKPl	18 48 37.5
		Sk	iPKPl	18 48 30.6
		Um	iPKPl	18 48 26.4
		Ud	iPKPl	18 48 39.3
		De	iPKPl	18 48 47.8
		Kermadec Islands (h = 70 km).		
"	29	Ud	iP	19 28 34.1
"	29	Up	iP	19 35 00.9
		Ud	iP	19 35 08.9
"	29	Ud	iP	20 08 06.4
"	29	Up	iP2	20 08 09.7
		Um	iPl	20 08 27.4
			iP2	20 08 29.6
		Ud	iPl	20 08 24.6
			iP2	20 08 27.7
		De	iPl	20 08 05.3
			iP2	20 08 08.6
"	29	Um	eP	23 49 32
		Sakhalin Island (h = 360 km).		
"	30	Um	iP	00 19 01.9
		Ud	iP	00 19 22.1

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 30 Up iP 02 13 17.8
iS 02 24 17
micr sec
Mx E 1.0 18
Mx N 1.6 18
Mx Z 2.4 18
Ki iP 02 13 01.3
micr sec
Mx E 2.7 19
Mx N 1.7 16
Mx Z 2.4 17
Sk iP 02 13 22.8
Um iP 02 13 06.9
iS 02 23 55
Ud iP 02 13 26.0
De iP 02 13 32.0
Mindanao (h = N).
M = 5.7 (Up,Ki).

" 30 Um iSKPl 03 05 44.0
Ud iPKPl 03 03 06.6
De iPKPl 03 03 17.6
Tonga-Kermadec Islands
(h = 570 km).

" 30 Up iP 04 38 25.8
Ki iP 04 37 49.7
Sk eP 04 38 21
Um iP 04 38 05.4
Ud iP 04 38 33.1
Japan (h = 120 km).

" 30 Ud iPKPl 05 46 53.0
De iPKPl 05 47 03.3
Fiji Islands (h = 610 km).

" 30 De iPKPl 05 51 46.0
Fiji Islands (h = 610 km).

" 30 Up eP 08 52 11
i(PP) 08 56 18.9
micr sec
Mx E 2.5 19
Mx N 1.3 18
Mx Z 3.6 18
Ki eP 08 51 45
micr sec
Mx E 2.0 16
Mx N 3.2 18
Mx Z 3.4 18
Um iPP 08 56 17.4
i 08 56 32.0
Ud eP 08 52 15
i(PP) 08 56 17.4
(cont.)

1976
Aug. 30 (cont.)
Ud iPP 08 56 37.7
Caroline Islands (h = 55 km).
M = 5.9 (Up,Ki).

" 30 Ud i(P) 10 16 00.5

" 30 Ud iP 13 09 17.9
Mindanao (h = 70 km).

" 30 Ud iP 14 08 25.2
De iP 14 08 43.4
Kurile Islands (h = 160 km).

" 30 Up iP 14 18 01.2
Ud iP 14 18 11.1

" 30 Up iP 16 00 46.1
Ud iP 16 00 52.6

" 30 Up iSKS 17 27 31
micr sec
Mx E 1.3 22
Mx Z 1.4 25
Um iS 17 27 35
Ud eP 17 17 03
Mindanao (h = N).

" 30 Ud iP 17 52 24.5

" 31 Ki iPKP 02 26 40.6
Ud iPKP 02 26 22.5
South Sandwich Islands
(h = 45 km).

" 31 Up iP2 03 35 47.0
micr sec
Mx E 2.9 14
Mx N 3.2 15
Mx Z 6.9 14
Ki ePl 03 35 08
iP2 03 35 13.2
Sk ePl 03 35 45
Um iPl 03 35 24.4
Ud iP2 03 36 00.7
De iP2 03 36 12.0
China (h = 30 km).

, 31 Up iP2 03 37 45.1
micr sec
P2 Z' 0.1 1.1
Ki iP2 03 37 09.0
micr sec
P2 Z' 0.1 1.0
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Aug. 31 (cont.)

Sk	iP2	03 37 44.1	
Um	iP2	03 37 22.6	
Ud	iP1	03 37 51.9	
De	iP1	03 38 02.4	
	iP2	03 38 07.5	

China (h = 100 km).
m = 5.8 (Up.Ki).

" 31	Up	iPKP1	09 26 30.1	C
		i	09 26 53.9	
			micr sec	
		PKP1 Z'	0.1 1.0	
		i Z'	0.2 0.9	
	Ki	ePKP1	09 26 07	
		i	09 26 19.5	
	Sk	iPKP1	09 26 23.3	C
		i	09 26 56.0	
	Um	iPKP1	09 26 18.0	C
		i	09 26 34.2	
		i	09 26 37.8	
	Ud	iPKP1	09 26 31.7	C
		i	09 26 47.7	
	De	iPKP1	09 26 39.6	
		i	09 27 00.3	

Kermadec Islands (h = 55 km).

" 31	Sk	iP	11 25 11.0

Greece-Bulgaria (h = 50 km).

" 31	Up	iPKP1	13 01 22.0
			micr sec
		PKP1 Z'	0.1 1.0
	Ud	iPKP1	13 01 24.3
	De	iPKP1	13 01 34.6

Tonga-Kermadec Islands
(h = 440 km).

" 31	Up	iPKP1	13 41 46.7	C
			micr sec	
		PKP1 Z'	0.2 1.3	
	Ki	ePKP	13 41 34	
	Sk	iPKP1	13 41 39.5	C
		i	13 41 51.0	
	Um	iPKP1	13 41 35.5	C
	Ud	iPKP1	13 41 48.4	
		i	13 41 59.5	
	De	iPKP1	13 41 58.6	
		i	13 42 09.6	

Kermadec Islands (h = 50 km).

" 31	Up	iPKP1	14 36 03.5
	Ud	iPKP1	14 36 05.1

" 31	Up	iPKP2	15 21 26.1
		i	15 21 34.0

(cont.)

1976
Aug. 31 (cont.)

Ud	iPKP1	15 21 24.2
De	iPKP1	15 21 32.8

Kermadec Islands (h = N).

Torild van Eck
Ota Kulhánek
Klaus Meyer
Rutger Wahlström

May 3, 1978

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BOX 517
751 20 UPPSALA 1
SWEDEN

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BOX 517
S-751 20 UPPSALA
SWEDEN

S E I S M O L O G I C A L B U L L E T I N

U P P S A L A, K I R U N A, S K A L S T U G A N, U M E Å, U D D E H O L M and D E L A R Y

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

S E P T E M B E R 1 - 30, 1976

1976				
Sep.	1	Up	iP	01 17 03.7
			i	01 17 08.1
		Ki	iP	01 16 45.5
		Um	i	01 16 54.4
		Ud	iP	01 17 17.7
		Szechwan, China (h = 20 km).		
"	1	Ud	iP	02 28 09.9
		Aleutian Islands (h = 120 km).		
"	1	Ud	iP	06 21 03.8
"	1	Ud	iP	07 39 06.9
		Afghanistan-USSR (h = 200 km).		
"	1	Ki	iP	10 54 10.6
		Um	iP	10 53 59.9 C
		Ud	iP	10 54 18.2
		Afghanistan-USSR (h = 110 km).		
"	1	Ki	i(PKP)	13 44 14.9
			iPKP	13 44 28.1
				micr sec
			(PKP) Z'	0.1 1.0
		Sk	iPKP	13 44 36.7
			i	13 44 40.1
		Um	iPKP	13 44 33.1
		Ud	i(PKP)	13 44 32.4
		De	iPKPl	13 44 41.7
		New Hebrides Islands (h = 80 km).		
"	1	Ud	i(P)	15 14 52.7
"	1	Ud	iP	20 50 54.7
		Kamchatka (h = N).		
"	2	Up	iP	04 26 02.4
		Ud	iP	04 26 04.0 C
		Aleutian Islands (h = 60 km).		

1976				
Sep.	2	Ud	iP	04 27 24.8
		Honduras (h = 45 km).		
"	2	Up	iP	10 08 11.3
		Ud	iP	10 07 58.7
"	2	Up	iP	10 33 04.9
		Sk	iP	10 32 48.0
		Ud	iP	10 32 55.6
		De	iP	10 33 01.8 D
		Guatemala (h = 80 km).		
"	2	Up	eSgl	14 29 26
		Ud	iSgl	14 28 28.0
"	2	Ud	iP	16 32 09.0
		Philippine Islands (h = 60 km).		
"	2	Ud	iPKPl	17 48 49.5
		De	iPKPl	17 49 02.2
		Fiji Islands (h = 310 km).		
"	2	Um	iP	20 01 13.6
		Ud	iP	20 01 12.7
"	2	Ud	iP	21 30 42.0
		Tadzhik SSR (h = 20 km).		
"	2	Up	iP	21 41 53.9
		Ud	iP	21 42 00.6
		Greece (h = 60 km).		
"	3	Ud	iP	04 09 49.9
		Tadzhik SSR (h = 10 km).		
"	3	Up	iPn	04 28 40.7
			iPgl	04 28 42.7
			iSn	04 29 11.4
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 3 (cont.)

Up	iSgl	04 29 13.9	
Ki	iSn	04 32 12.8	
	i	04 33 04.3	
	iSgl	04 33 09.6	
Sk	ePn	04 29 21	
	iSn	04 30 16.1	
	iSgl	04 30 39.5	
Um	iPgl	04 29 49.5	
	iSn	04 30 37.6	
	iSgl	04 31 10.0	
Ud	iPgl	04 28 28.3	C
	iSgl	04 28 50.3	
De	iPgl	04 28 34.3	
	iSgl	04 28 59.0	

Västergötland, Sweden, 58.4°N, 13.9°E.
Origin time = 04 28 00.
M_L = 3.6 (Up,Ki,Sk,Um,Ud,De).
Felt.

" 3

Ud	iP	05 59 28.5	

Japan (h = 40 km).

" 3

Up	iP	10 07 50.3	
	i	10 08 04.6	
		micr	sec
	P Z'	0.1	0.5
Ki	iP	10 07 37.6	
Sk	iP	10 08 03.4	
Um	iP	10 07 39.7	C
Ud	iP	10 08 03.0	C
De	iP	10 08 08.3	

Szechwan, China (h = N).

" 3

Up	iP	11 56 20.8	
Ud	iP	11 56 30.2	

Formosa (h = 40 km).

" 3

Ud	iPKPl	13 13 50.9	
De	iPKPl	13 15 00.7	

" 3

Up	iPKPl	17 27 13.2	
Um	iPKPl	17 27 02.8	
Ud	iPKPl	17 27 15.0	

Kermadec Islands (h = N).
Late arrivals wrt the NEIS solution.

" 3

Up	iP	22 00 09.8	
	iPP	22 01 40.1	
		micr	sec
	P Z'	0.1	1.0
	Mx E	0.7	13
	Mx N	3.6	12
	Mx Z	1.4	12

(cont.)

1976
Sep. 3 (cont.)

Ki	iP	22 00 17.6	
	iPP	22 01 51.4	
		micr	sec
	Mx E	1.6	11
	Mx N	4.7	10
	Mx Z	0.7	11
Sk	iP	22 00 32.3	
	iPP	22 02 07.9	
Um	iP	22 00 06.8	C
Ud	iP	22 00 26.6	C
	i	22 00 29.7	
	iPP	22 02 05.9	
De	iP	22 00 26.5	C

Afghanistan-USSR (h = 45 km).
M = 5.5 (Up,Ki).

" 3

Um	iP	22 27 48.9	C
Ud	iP	22 28 11.9	C

Tadzhik (h = 10 km).

" 4

Ki	iP	00 07 44.8	
	i	00 07 53.0	
Ud	iP	00 07 55.8	

Sumatra (h = 70 km).

" 4

Up	iP	02 21 59.5	
		micr	sec
	P Z'	0.1	1.0
Ki	iP	02 21 35.4	
	i	02 21 40.6	
		micr	sec
	P Z'	0.1	1.0
Um	iP	02 21 43.7	
	i	02 21 49.0	
Ud	iP	02 22 09.9	

Formosa (h = 40 km).
m = 5.8 (Up,Ki).
The second phase (Ki,Um) when interpreted as pP, gives a focal depth of 15 km.

" 4

Ud	iP	04 05 56.2	

" 4

Up	i	04 30 27.1	
		micr	sec
	i Z'	0.1	1.0
Sk	iPKPl	04 30 15.5	
	i	04 30 24.7	
Ud	iPKPl	04 30 22.1	
	i	04 30 34.2	

Kermadec Islands (h = N).

" 4

Ki	iP	05 23 45.6	
Sk	eP	05 23 57	

Santa Cruz Islands (h = 11 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Sep.	4	Ud	iP	09 05 10.3
"	4	Um	iPKPl	10 05 36.6
		Ud	iPKPl	10 05 50.4
"	4	Ud	iPKP	12 00 50.1
		Solomon Islands (h = 80 km).		
"	4	Up	iSgl	12 11 19.5
		Ud	iSgl	12 10 15.5
		Southern Norway.		
		By combination with Kongsberg readings.		
"	4	Up	iP	12 23 28.0
		Ki	iP	12 23 13.4
		Ud	iP	12 23 38.5
		Luzon (h = 55 km).		
"	4	Um	iP	15 58 05.9 C
		Ud	iP	15 58 34.1
		Japan (h = 45 km).		
"	4	Um	iPKP	16 34 56.7
		Ud	iPKP	16 35 06.0
		New Hebrides (h = 40 km).		
"	4	Ud	iP	17 24 55.8
		Japan (h = N).		
"	4	Ud	iPKPl	17 59 43.6
		De	iPKPl	17 59 54.1
"	4	Ud	iP	18 17 10.1 C
"	4	Ud	iP	23 48 49.5
		Tadzhik SSR (h = N).		
"	5	Sk	iP	00 24 20.7
		Um	iP	00 24 00.3
"	5	Um	iP	01 06 41.2
		Ud	iP	01 07 12.7
		Kurile Islands (h = N).		
"	5	Ud	iPKP	04 19 22.7
		Santa Cruz Islands (h = N).		
"	5	Ki	iP	05 37 07.1
		Ud	iP	05 37 30.9
			i	05 37 38.1
		Mindanao (h = 70 km).		
"	5	Up	iP	05 40 40.6
		Ki	iP	05 40 06.6 C
		(cont.)		

1976 Sep.	5	(cont.)		
		Sk	iP	05 40 37.4
		Um	iP	05 40 19.3
		Ud	iP	05 40 47.1 C
		De	i	05 41 04.7
		Japan (h = 15 km).		
"	5	Ki	iP	06 31 02.3
		Mindanao (h = 60 km).		
"	5	Sk	i	06 43 26.2
		Ud	iP	06 43 20.9
		Formosa (h = 40 km).		
"	5	Sk	iP	07 28 56.0
		Ud	iP	07 28 57.0 C
"	5	Up	iP	10 44 44.6
		Ud	iP	10 44 42.8
		Aleutian Islands (h = 70 km).		
"	5	Up	iP	10 53 06.2
		Ki	iP	10 52 21.6
		Sk	iP	10 52 57.1
		Um	iP	10 52 41.4 C
		Ud	iP	10 53 13.0 C
		Sakhalin Islands (h = 240 km).		
"	5	Up	iPKPl	12 09 58.8 C
				micr sec
			PKPl Z'	0.1 0.7
		Sk	iPKPl	12 09 51.1
		Um	iPKPl	12 09 47.5
		Ud	iPKPl	12 10 00.5 C
		De	iPKPl	12 10 09.7 C
		Kermadec Islands (h = 60 km).		
"	5	Up	iP	15 44 00.0
		Ki	iP	15 44 04.5 C
		Sk	iP	15 44 26.1
		Um	iP	15 43 57.5
		Ud	iP	15 44 13.0
			i	15 44 17.7
		De	iP	15 44 14.4
		Afghanistan-USSR (h = 40 km).		
"	5	Up	iP	16 50 10.5 C
			iPcP	16 52 38.0
				micr sec
			P Z'	0.1 0.8
		Ki	iP	16 50 50.0 C
		Sk	iP	16 50 46.9
		Um	iP	16 50 25.1 C
		Ud	iP	16 50 25.8 C
		De	iP	16 50 08.5 C
		Iran (h = 45 km).		
"	5	Um	iP	17 00 38.2
		Ud	iP	17 00 09.0

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 5 Um iP 18 17 56.4 C
Ud iP 18 17 26.7 C

" 5 Up iPKPl 19 26 13.3
Sk iPKP 19 26 07.1
Ud iPKPl 19 26 15.2 C
De iPKPl 19 26 24.5
Kermadec Islands (h = 70 km).

" 5 Up iP 20 24 15.4
Ki iP 20 23 59.2
micr sec
P Z' 0.2 1.5
Sk iP 20 23 57.1
Um iP 20 24 09.7
Ud iP 20 24 07.4
De iP 20 24 17.0
Mexico (h = 90 km).

" 5 Up iP 22 13 06.3
iS 22 17 39
micr sec
Mx E 0.8 14
Mx N 3.2 20
Mx Z 3.3 19
Ki iP 22 13 55.3
micr sec
P Z' 0.1 1.0
Mx E 2.8 13
Mx N 2.6 15
Mx Z 3.8 20
Um iP 22 13 30.2
iS 22 18 13
Ud iP 22 13 22.5
De iP 22 13 00.0
Turkey (h = 20 km).
M = 5.1 (Up,Ki).

" 5 Up iP 22 31 48.1
Um iP 22 31 32.9

" 5 Up iP 23 29 42.1

" 6 Up iPKPl 00 16 17.5
i 00 16 30.5
Sk iPKPl 00 16 10.3
e 00 16 19
Ud iPKPl 00 16 19.0
i 00 16 29.6
De iPKPl 00 16 28.2
i 00 16 37.5

" 6 Up iP 01 55 20.0
i 01 55 27.3
Ud iP 01 55 30.1
i 01 55 36.2
(cont.)

1976
Sep. 6 (cont.)
De iP 01 55 35.5
Mindanao (h = 25 km).

" 6 Up iPKP 05 45 31.3
Fiji Islands (h = 410 km).

" 6 Up iP 10 01 49.2
micr sec
P Z' 0.1 1.1
Ki iP 10 01 48.4
Sk iP 10 01 19.4 C
Um iP 10 01 49.9 C
i 10 01 51.9
Ud iP 10 01 30.1
i 10 01 32.0
North Atlantic Ocean (h = N).
Double P (Um,Ud) small and large, in average 2 sec apart.

" 6 Ud iP 10 58 32.4

" 6 Ud iP 11 07 57.9
i 11 08 02.5

" 6 Ki iP 12 09 48.7
Ud iP 12 09 20.6

" 6 Ud iP 15 17 34.0

" 6 Up iP 16 11 43.6 C
Ki iP 16 12 23.2
Ud iP 16 11 59.2 C
De iP 16 11 41.8
Iran (h = 40 km).

" 6 Ud iP 17 12 18.3
China (h = N).

" 7 Ki iPKP 02 14 55.3
iPKPl 02 15 02.5
South Island, New Zealand (h = N).

" 7 Ki iP 03 37 28.8
Sk iP 03 38 07.7
Um iP 03 37 45.5
China (h = N).

" 7 Up iP 04 52 28.4
i 04 52 32,5
Ki iP 04 52 27.6 C
Um iP 04 52 20.7
Ud iP 04 52 37.2
Sumatra (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 7 Ki iP 06 13 57.5
Um iP 06 14 18.8 C
Ud iP 06 14 46.1
Japan (h = 15 km).

" 7 Ki iPKP 06 16 17.8 C
New Hebrides Islands
(h = 70 km).

" 7 Up iRg 06 50 56.0
Sk iSgl 06 52 05.7
Um iSgl 06 52 23.3
Ud iRg 06 50 36.7
Central Sweden.
Near-surface event.

" 7 Ud iP 10 01 21.1

" 7 Ki iPKP 10 28 05.0
New Hebrides Islands
(h = 110 km).

" 7 Ud iP 13 47 07.2
Hindu Kush (h = N).

" 7 Ud iP 14 10 51.4
Afghanistan-USSR (h = 70 km).

" 7 Up iP 14 12 04.6

" 7 Up i 15 22 37.1
iSgl 15 23 03.2
Ki iSgl 15 26 33.4
Sk iSgl 15 23 59.1
Um iSgl 15 24 37.8
Ud iPgl 15 22 05.0 C
iSgl 15 22 11.4
De i 15 23 13.4
iSn 15 23 24.8
iSgl 15 23 34.8
Värmland, Sweden,
59.6°N, 13.4°E.
Origin time = 15 21 56.
M_L = 2.7 (Up,Sk,Um,Ud,De).
Felt.

" 7 Up iP 17 41 36.2
i 17 41 51.1
Romania (h = 160 km).

" 7 Up iP 22 19 24.8
micr sec
P Z' 0.1 1.0
Ki iP 22 19 24.1
(cont.)

1976
Sep. 7 (cont.)
Sk iP 22 19 39.7
Um iP 22 19 21.3
Ud iP 22 19 35.6
De iP 22 19 34.1
Sumatra (h = 180 km).

" 7 Ki eP 23 23 58
Gulf of Campeche (h = 260 km).

" 7 Ud iP 23 45 50.3

" 8 Up iP 02 26 20.5
micr sec
Mx E 1.0 26
Mx N 1.0 26
Mx Z 3.3 26
Ki iP 02 26 06.5 C
micr sec
Mx E 1.8 15
Sk eP 02 26 29
Um iP 02 26 10.0 C
iSKS 02 36 47
Ud iP 02 26 28.6
De iP 02 26 34.1
Molucca Sea (h = 60 km).
M = 5.5 (Up,Ki).

" 8 Ud iP 08 31 51.7 C
Washington (h = 50 km).

" 8 Ud iP 09 28 13.4
Mindanao (h = 35 km).

" 8 Ud iP 11 42 53.2

" 8 Ud iP 18 08 05.5
Tadzhik SSR (h = 20 km).

" 8 Sk iPKP 20 16 10.0
Um iPKP 20 16 02.3
i 20 16 20.2
Ud iPKP 20 16 12.9
i 20 16 30.6
Santa Cruz Islands (h = 70 km).

" 8 Up iP 20 21 45.0
ipP 20 21 50.2
i 20 22 02.2
micr sec
P Z' 0.1 0.9
pP Z' 0.3 1.0
Ki iP 20 21 48.7
ipP 20 21 53.9
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 8 (cont.)

Ki			micr	sec	
	pP	Z'	0.1	1.1	
Sk	iP		20 22 08.0		C
	ipP		20 22 13.0		
Um	iP		20 21 40.8		
	ipP		20 21 45.8		
Ud	iP		20 22 01.3		
	ipP		20 22 06.0		
De	iP		20 22 00.2		

Kashmir-Tibet.
h = 15 km (Up,Ki,Sk,Um,Ud).
m = 6.0 (Up,Ki).

" 8 Ud iP 22 22 20.7
Japan (h = N).

" 9

Up	iSgl	03 15 00.0
Ki	eSgl	03 13 20
Um	iSgl	03 13 10.5
Ud	eSgl	03 15 36

Northwest USSR,
65.2°N, 31.0°E.
Origin time = 03 10 42.
M_L = 2.5 (Um).
Solution from Helsinki
regional bulletin.

" 9 Um iP 09 06 11.8
Ud iP 09 06 30.1
Celebes (h = 190 km).

" 9

Up	iP		09 32 01.0		
			micr	sec	
	P	Z'	0.1	1.0	
	Mx	E	1.2	11	
	Mx	N	2.3	13	
	Mx	Z	3.4	13	
Ki	iP		09 30 18.0		
	i		09 30 21.8		
	iS		09 32 20.9		
			micr	sec	
	i	Z'	0.9	1.4	
	Mx	E	3.4	12	
	Mx	N	5.9	14	
	Mx	Z	4.7	14	
Sk	iP		09 31 11.9		
Um	iP		09 31 11.3		C
	iS		09 33 45.4		
Ud	iP		09 31 54.7		
	i		09 31 58.9		
De	iP		09 32 34.5		
	iS		09 36 37.9		

Svalbard (h = 5 km).

1976
Sep. 9

Up	iP		09 51 22.0		
	i		09 51 27.3		
			micr	sec	
	i	Z'	0.1	1.2	
Ki	iP		09 50 00.3		
	i		09 51 08.0		
Sk	eP		09 51 31		
Um	iP		09 51 07.5		
	i		09 51 12.5		
Ud	iP		09 51 33.2		

Formosa (h = 25 km).

" 9 Up iP 10 05 55.1
Ki iP 10 05 31.3
Ud iP 10 06 05.8
Formosa (h = 25 km).

" 9 Um iP 11 55 28.9
Panama (h = N).

" 9 Ud iP 12 05 54.7

" 9 Ud iSgl 15 14 35.5

" 9 Up iP 15 36 49.2
Ki iP 15 36 35.8
Um iP 15 36 42.9
Ud iP 15 37 02.6
Philippine Islands (h = 15 km).

" 9 Um iP 16 22 15.7
Japan (h = 60 km).

" 9 Up iPKP 20 28 22.8
Ki iPKP 20 28 08.7
Sk ePKP 20 28 20
Um iPKP 20 28 14.7 D
De iPKP 20 28 30.7
New Hebrides Islands
(h = 200 km).

" 10 Ki iP 05 12 59.3
Ud iP 05 13 24.9
Mindanao (h = 70 km).

" 10 Ki iSgl 11 20 49.2

" 10 Up iP 12 02 09.9
Ki iP 12 02 47.9
Ud iP 12 02 28.3
Iran (h = N).

" 10 Ud iP 13 29 56.6
Volcano Islands (h = 130 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 10 Sk iSgl 13 31 05.8
Ud iSgl 13 30 40.8
Coast of southwest Norway,
59.8°N, 4.9°E.
Origin time = 13 28 23.
M_L = 2.2 (Ud).
By combination with Bergen
and Kongsberg readings.

" 10 Up iP 14 49 13.7
micr sec
Mx E 0.7 19
Ki iP 14 48 50.3
Sk iP 14 49 20.5 C
Ud iP 14 49 24.4
De eP 14 49 35
Formosa (h = N).

" 10 Ki eP 15 02 56
Mindanao (h = 55 km).

" 10 Up iP 15 07 28.3
Ki iP 15 06 36.2 C
Sk iP 15 07 07.2
Um iP 15 06 57.3
Ud iP 15 07 28.9
De iP 15 07 52.3
Aleutian Islands (h = N).

" 10 Ud iP 18 57 58.2

" 10 Ud iP 19 28 41.3
Mindanao (h = N).

" 10 Ki iP 20 48 09.2
Mindanao (h = N).

" 11 Up iP 02 51 12.9 C
Ud iP 02 51 13.3
Aleutian Islands (h = 100 km).

" 11 Ki iSgl 10 58 36.4
Sk iSgl 10 58 57.5

" 11 Up iP 16 34 28.8 D
i 16 37 37.6
micr sec
P Z' 0.2 1.1
Mx E 8.4 6
Mx N 9.4 12
Mx Z 15 9
Ki iP 16 36 04.6
micr sec
P Z' 0.4 1.5
(cont.)

1976
Sep. 11 (cont.)
Ki micr sec
Mx E 12 6
Mx N 9.8 9
Mx Z 3.3 8
Sk iP 16 35 12.7
iS 16 38 31.4
Um iP 16 35 22.3
iS 16 38 45
Ud iP 16 34 29.2
i 16 37 30.4
De iP 16 33 38.7
i 16 36 00.5
iLgl 16 36 30.2
Austria (h = 15 km).
m = 5.6 (Up,Ki).

" 11 Up iP 16 38 18.4
i 16 41 40.5
iLg2 16 42 34.4
micr sec
P Z' 0.5 1.2
Mx E 21 6
Mx N 19 11
Mx Z 22 9
Ki iP 16 39 57.1
iLgl 16 46 21.9
iLg2 16 46 56.3
micr sec
P Z' 1.1 1.6
Mx E 19 6
Mx N 13 9
Mx Z 11 9
Sk iP 16 39 03.2
Um iP 16 39 09.3 C
i 16 39 14.3
i 16 44 36.8
Ud iP 16 38 14.1
iLgl 16 42 01.7
iLg2 16 42 26.8
De iLgl 16 40 27.5
Austria (h = 20 km).
m = 6.1 (Up,Ki).

" 11 Up iPKP 23 52 14.9
Ki ePKP 23 51 58
Sk ePKP 23 52 09
Um iPKP 23 52 06.3
Ud iPKP 23 52 17.8 C

" 12 Up iPKP1 00 02 55.2
Ud iPKP1 00 02 55.9
De iPKP2 00 03 07.1
Kermadec Islands (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Sep.	12	Up	iP	00 47 19.8	
			i	00 47 48.1	
		Ud	iP	00 47 28.6	C
		De	iP	00 46 56.8	
		Dodecanese Islands (h = 170 km).			
"	12	Ki	iP	03 58 33.7	
		Sk	iP	03 58 53.1	
"	12	Up	iP	04 00 09.8	
		Ki	eP	03 59 17	
		Ud	iP	04 00 15.6	
		Kurile Islands (h = 150 km).			
"	12	Ud	iPKP	07 25 37.4	
		Eastern Island (h = N).			
"	12	Sk	iPKP	09 21 50.3	
		New Ireland (h = N).			
"	12	Ki	iPKP	14 36 44.4	
		Argentina (h = 190 km).			
"	12	Up	iP	15 45 46.3	
		Ki	iP	15 45 45.0	
		Sk	iP	15 46 06.1	
		Ud	iP	15 46 00.5	C
		Nepal (h = N).			
"	12	Ud	iP	17 19 43.5	
		Hindu Kush (h = 190 km).			
"	12	Um	iPKP	17 39 23.8	
		Ud	iPKPl	17 39 28.7	D
		De	iPKPl	17 39 39.0	
		Tonga-Kermadec Islands (h = 550 km).			
"	12	Ki	i	18 15 39.0	
		Ud	ipP	18 16 08.6	
		Mindanao (h = 35 km).			
"	12	Up	i	19 59 49.6	
			iLg2	20 01 02.8	
				micr sec	
			Mx E	1.2 9	
		Ki	iP	19 58 21.5	
				micr sec	
			Mx E	0.8 11	
		Sk	iP	19 57 34.1	
			iLg2	20 03 02.0	
		Um	iP	19 57 38.2	
			iLg2	20 03 12.3	
		Ud	iP	19 56 50.1	
		(cont.)			

1976					
Sep.	12	(cont.)			
		Ud	iLg2	20 01 00.5	
		De	iP	19 55 56.8	
			iS	19 58 07.2	
			iLg2	19 58 59.4	
		Austria (h = 5 km).			
"	13	Um	iP	00 36 19.1	
		Ud	iP	00 36 46.8	
		Japan (h = 340 km).			
"	13	Up	iP	00 40 28.4	
"	13	Ud	iP	01 25 45.9	
"	13	Um	iPKP	06 36 56.2	
		Ud	iPKP	06 37 09.1	
"	13	Ki	iP	06 53 13.7	
		Um	iP	06 53 11.9	
		Ud	iP	06 53 55.4	
"	13	Up	iP	08 37 21.8	C
		Ki	iP	08 37 21.9	
		Um	iP	08 37 19.8	
		Ud	iP	08 37 31.5	
			i	08 37 52.5	
		Sumatra (h = 55 km).			
"	13	Up	iPKPl	09 09 18.2	
		Ki	eSKPl	09 11 49	
		Sk	iSKPl	09 12 04.0	
		Um	iPKP	09 09 13.8	
			iSKPl	09 12 00.3	
		Ud	iPKPl	09 09 20.2	
			iSKPl	09 12 12.3	
		De	iPKPl	09 09 31.6	
			i	09 11 36.1	
			iSKPl	09 12 20.6	
		Tonga-Kermadec Islands (h = 520 km).			
"	13	Ud	iP	13 09 22.7	
"	13	Sk	eSgl	14 14 47	
		Ud	iSgl	14 13 48.6	
		De	eSn	14 13 39	
		Southwest Norway, 58.5°N, 6.7°E.			
		Origin time = 14 11 44.			
		M_L = 2.3 (Ud).			
		By combination with Bergen and Kongsberg readings.			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976					
Sep.	13	Up	iP	16 19 53.0	
		Ki	iP	16 19 10.2	
		Ud	iP	16 19 46.3	
		De	i	16 20 32.8	
		California (h = N).			
"	13	Ki	iP	17 14 40.5	
		Um	iP	17 14 27.1	
		Ud	iP	17 14 49.0	
		Afghanistan-USSR (h = 55 km).			
"	13	Sk	eSgl	17 42 02	
		Ud	iSgl	17 41 58.7	
		Southern Norway.			
		By combination with Bergen			
		readings.			
"	13	Up	ipP	18 58 04.3	
			iLgl	19 02 05.8	
		Ki	iP	18 59 40.8	
			ipP	18 59 43.5	
				micr	sec
			Mx E	0.4	9
		Sk	ipP	18 58 52.3	
			iLgl	19 03 40.3	
		Um	iP	18 58 54.3	
			iLgl	19 04 06.3	
		Ud	ipP	18 58 05.9	
			iLgl	19 02 04.3	
		De	iP	18 57 14.6	
			iLg2	19 00 18.8	
		Austria (h = 10 km).			
"	13	Um	iP	20 41 41.2	
		Ud	iP	20 42 11.2	
"	13	Up	iPKPl	22 05 14.9	C
		Ki	iPKPl	22 04 54.2	
		Sk	iPKPl	22 05 08.2	C
		Um	iPKPl	22 05 03.2	C
		Ud	iPKPl	22 05 16.8	C
			iPKP2	22 05 22.3	
		De	iPKPl	22 05 25.4	C
			i	22 05 29.7	
		Kermadec Islands (h = 60 km).			
"	14	Up	iPKPl	02 46 09.6	C
		Ki	i	02 45 53.4	
		Sk	iPKPl	02 46 04.6	
		Um	iPKPl	02 45 59.8	C
		Ud	iPKPl	02 46 11.6	C
		De	i	02 46 38.5	
		The same focal area as the			
		preceding event.			
"	14	Up	iP	06 53 21.7	
		(cont.)			

1976						
Sep.	14	(cont.)				
		Up	i		06 53 34.3	
			iS		07 01 00	
					micr	sec
			P	Z'	0.1	0.6
		Ki	iP		06 53 16.3	
			i		06 53 28.6	
			iS		07 00 49	
		Sk	iP		06 53 39.4	
			i		06 53 51.6	
		Um	iP		06 53 14.1	
			i		06 53 26.3	
			iS		07 00 45	
		Ud	iP		06 53 36.4	
			i		06 53 49.1	
		De	iP		06 53 37.8	
			i		06 53 49.7	
		Tibet (h = 80 km).				
		Late arrivals wrt the NEIS				
		solution.				
"	14	Up	iP		06 53 49.4	
					micr	sec
			P	Z'	0.2	1.0
			Mx	N	1.3	23
			Mx	Z	1.1	17
		Ki	iP		06 53 43.2	
					micr	sec
			P	Z'	0.1	0.9
			Mx	E	0.7	12
			Mx	N	0.8	12
			Mx	Z	0.7	13
		Sk	iP		06 54 05.8	
		Um	iP		06 53 40.4	
		Ud	iP		06 54 03.7	
		De	iP		06 54 04.4	
		Tibet (h = 15 km).				
		m = 6.0, M = 5.0 (Up,Ki).				
		Late arrivals wrt the NEIS				
		solution.				
"	14	Ki	epP		08 23 12	
		Um	iP		08 23 07.8	
		Mindanao (h = N).				
"	14	Up	iP		15 47 45.0	
		Ki	iP		15 47 28.3	
			e		15 47 35	
		Sk	iP		15 47 57.5	
		Um	iP		15 47 30.7	
		Ud	iP		15 47 58.1	
		Tsinghai, China (h = N).				
"	14	Up	iPP		16 07 48.4	
					micr	sec
			Mx	N	0.8	22
			Mx	Z	3.2	21
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 14 (cont.)

Ki	ePKP		16 05 19
	iSKPl		16 08 51.1
			micr sec
	Mx	E	1.0 19
	Mx	N	0.7 16
	Mx	Z	1.4 24
Um	iPKP		16 05 18.3

Easter Island **Cordillera**
(h = N).
M = 5.5 (Up,Ki).

" 14 Ki iPKPl 16 22 40.5
South Island, New Zealand
(h = N).

" 14

Up	iP		19 05 03.8
			micr sec
	P	Z'	0.1 0.9
Ki	iP		19 04 47.9
Sk	iP		19 05 06.8
Um	iP		19 04 53.8
Ud	iP		19 05 12.6
De	iP		19 05 18.2

Talaud Islands (h = 60 km).

" 14

Up	iPdiff		23 03 45.7
	i		23 04 24.7
	iPP		23 08 20.1
	iSKS		23 14 16
			micr sec
	P	Z'	0.1 0.9
	Mx	E	2.0 21
	Mx	N	4.0 22
	Mx	Z	4.4 26
Ki	iP		23 03 24.6
	i		23 04 01.7
	iPP		23 07 45.8
	iSKS		23 13 56
			micr sec
	P	Z'	0.2 0.8
	Mx	E	1.5 20
	Mx	N	3.6 20
	Mx	Z	1.9 23
Sk	iPdiff		23 03 49.0
	i		23 04 25.8
	iPP		23 08 18.4
Um	iPdiff		23 03 32.7
	i		23 04 12.2
	iPP		23 07 55.9
	iSKS		23 14 04
Ud	iPdiff		23 03 53.4
	iPP		23 08 22.7
De	iPdiff		23 04 01.0
	i(PP)		23 08 32.0

(cont.)

1976
Sep. 14 (cont.)

De iPP 23 08 43.2
West Irian (h = 80 km).
m = 7.1, M = 6.0 (Up,Ki).
M uncorrected for focal depth.

" 14

Up	iP	23 49 00.2
Ki	iP	23 49 37.6
Sk	iP	23 49 36.2
Um	iP	23 49 14.3
Ud	iP	23 49 15.7
De	iP	23 48 59.3

Iran (h = 25 km).

" 14 Sk eP 23 59 58
Guatemala (h = 100 km).

" 15

Ki	iP	02 12 16.4
Ud	iP	02 13 15.1
De	eP	02 13 41

Komandorsky Islands (h = N).

" 15 Ki eP 02 34 33
Komandorsky Islands (h = N).

" 15 Ud iP 03 17 27.9

" 15

Up	iP		03 18 36.3
	iS		03 21 18.3
	iLgl		03 22 34.6
			micr sec
	P	Z'	1.0 1.5
	Mx	E	50 8
	Mx	N	60 9
	Mx	Z	82 10
Ki	iP		03 20 14.3
	iS		03 24 13.9
	iLg2		03 27 06.2
			micr sec
	P	Z'	1.8 1.4
	Mx	E	24 10
	Mx	N	61 9
	Mx	Z	52 9
Sk	iP		03 19 21.1
Um	iP		03 19 29.3
	iS		03 22 54.7
	iLgl		03 24 36.1
Ud	iP		03 18 37.8
	iS		03 21 20.1
De	iP		03 17 46.6

Austria (h = 10 km).
m = 6.3 (Up,Ki).

" 15

Up	iP		04 42 11.6
	iLgl		04 46 19.4
			micr sec
	Mx	E	1.5 9

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 15 (cont.)

Up			micr	sec
	Mx	N	0.8	9
	Mx	Z	2.0	9
Ki	iP		04 43 47.5	
	iLg2		04 50 52.0	
			micr	sec
	P	Z'	0.1	1.2
	Mx	E	0.7	10
	Mx	N	1.2	9
	Mx	Z	1.2	9
Sk	iP		04 43 56.2	
	iLg2		04 48 22.0	
Um	iP		04 43 04.3	
	iLgl		04 48 08.8	
Ud	iP		04 42 09.1	
	iLgl		04 46 17.3	
De	iP		04 41 20.1	
	iLgl		04 44 05.0	
	iLg2		04 44 20.7	

Austria (h = 10 km).

" 15	Up	iP	05 02 01.9
		iS	05 04 45.7
		iLg2	05 06 12.1
	Ki	iP	05 03 36.8
		iLgl	05 10 04.1
	Sk	iP	05 02 47.1
		iLg2	05 08 12.8
	Um	iP	05 02 54.9
	Ud	iP	05 01 57.6
		iLg2	05 06 12.6
	De	iP	05 01 08.7
		iS	05 03 10.5
		iLgl	05 03 53.7
		iLg2	05 04 08.3

Austria (h = 10 km).

" 15	Ud	iPKPl	05 27 06.1
	De	iPKPl	05 27 17.2

" 15	Up	iP	05 41 32.9

Italy (h = 10 km).

" 15	Ki	iP	08 30 56.0
		ipP	08 31 06.1
	Sk	iP	08 31 29.9
		ipP	08 31 39.0
	Um	iP	08 31 13.3
		ipP	08 31 23.8
	Ud	iP	08 31 42.5
		ipP	08 31 53.1
	De	iP	08 31 58.1

Japan.
h = 35 km (Ki,Sk,Um,Ud).

1976
Sep. 15

Up	iP		09 24 34.5	
	iS		09 27 13	
	iLgl		09 28 27.8	
			micr	sec
	P	Z'	0.4	1.1
	Mx	E	83	10
	Mx	N	39	9
	Mx	Z	65	9
Ki	iP		09 26 11.5	
	iS		09 30 24.5	
	iLg2		09 33 14.2	
			micr	sec
	P	Z'	1.6	1.6
	Mx	E	48	8
	Mx	N	50	8
	Mx	Z	44	8
Sk	iP		09 25 19.3	
	iS		09 28 38.1	
	iLg2		09 30 38.0	
Um	iP		09 25 27.5	
	iS		09 28 49	
	iLgl		09 30 41.6	
Ud	iP		09 24 35.9	
	iLgl		09 28 21.3	
De	iP		09 23 44.5	

Austria (h = 15 km).
m = 6.1 (Up,Ki).

" 15	Ud	iP	09 37 18.9

Austria (h = 10 km).

" 15	Ki	eP	09 50 49
	Sk	iP	09 50 00.5
	Um	iP	09 50 09.1
	Ud	iP	09 49 11.1
	De	iP	09 48 22.2
		iLg2	09 51 22.7

Austria (h = 10 km).

" 15	Ud	iP	10 20 55.9

" 15	Up	iP	11 14 28.6	
		iLg2	11 18 41.8	
			micr	sec
		Mx	E	2.8	10
		Mx	N	1.6	9
		Mx	Z	2.6	9
	Ki	iP	11 16 05.2	
		iS	11 20 08.7	
		i	11 20 48.6	
		iLg2	11 22 56.1	
			micr	sec
		P	Z'	0.2	1.2
		Mx	E	2.0	11
		Mx	N	1.5	9

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 15 (cont.)

Ki			micr sec
	Mx	Z	1.3 8
Sk	iP		11 15 13.7
	iS		11 18 32.5
	iLg2		11 20 25.9
Um	iP		11 15 23.4
	iLg1		11 20 27.2
	iLg2		11 20 51.0
Ud	iP		11 14 28.3
	iLg1		11 18 21.5
De	iP		11 13 37.8
	iS		11 15 32.3
	iLg2		11 16 36.3

Austria (h = 10 km).

" 15

Sk	eSg1	13 42 52
Ud	iSg1	13 42 29.2

Southern Norway.
By combination with Bergen readings.

" 15

Up	iPKP1		13 02 36.2
	iPKP2		13 02 42.2
			micr sec
	PKP2	Z'	0.1 0.7
Ki	iPKP1		13 02 14.3
Sk	ePKP1		13 02 30
	i		13 02 35.5
Um	iPKP1		13 02 23.8
	i		13 02 29.9
Ud	iPKP1		13 02 37.2
	iPKP2		13 02 45.1
De	iPKP1		13 02 45.1
	iPKP2		13 02 58.7

Kermadec Islands (h = 450 km).

" 15

Up	iP	13 04 27.6
Sk	iP	13 04 20.7
Ud	iP	13 04 30.2
De	iP	13 04 35.9

" 15

De	iP	15 22 23.3

Italy (h = 10 km).

" 15

De	iP	15 24 50.7
	i	15 25 37.6

" 15

De	iP	19 33 40.0

Austria (h = 10 km).

" 15

De	iP	20 26 37.9

Italy (h = 10 km).

" 15

Ki	iP	21 09 52.8

Japan (h = 80 km).

1976
Sep. 15

De	iPKP1	23 07 37.5

Fiji Islands (h = 610 km).

" 16

Up	iPKP1	00 28 20.3
Sk	iPKP1	00 28 13.5
Um	i(PKP)	00 28 06.3
	iPKP1	00 28 08.3
Ud	iPKP1	00 28 21.7
	i	00 28 27.2
De	iPKP1	00 28 30.3

" 16

Up	iS		01 13 52
Ki	iP		01 08 04.0 C
Sk	iP		01 08 48.1
Um	iS		01 12 47
Ud	iP		01 09 29.1

Probably Svalbard.

" 16

De	iP	01 33 10.0

Austria (h = 10 km).

" 16

Up	iP		03 32 16.8
	i		03 32 22.0
	iS		03 36 36
			micr sec
	i	Z'	2.7 2.8
	Mx	E	2.0 18
	Mx	N	12 26
	Mx	Z	15 23
Ki	iP		03 30 47.7 C
	i		03 33 21.0
	iS		03 34 11
			micr sec
	P	Z'	1.5 1.5
	Mx	E	5.2 13
	Mx	N	12 17
	Mx	Z	7.9 17
Sk	iP		03 31 36.0 C
	iS		03 35 33.5
Um	iP		03 31 34.4
	iS		03 35 33.9
Ud	iP		03 32 12.0
	i		03 32 17.2
	iS		03 36 34.7
De	iP		03 32 46.6
	iS		03 37 34.5

Svalbard (h = 10 km).
m = 6.2 (Up,Ki).

" 16

Ki	iP	03 35 57.8
Sk	iP	03 36 45.5
Ud	iP	03 37 08.9

Svalbard.

" 16

Ud	iP	03 55 19.2

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Sep.	16	Up	iP		03 58 17.9	
			i		03 58 23.4	
		Ki	iP		03 56 50.3	
			i		03 56 56.9	
					micr	sec
			i	Z'	0.1	1.0
		Sk	iP		03 57 39.4	
			i		03 57 43.7	
		Um	iP		03 57 38.6	
			i		03 57 45.4	
		Ud	iP		03 58 15.5	
			i		03 58 21.9	
		De	iP		03 58 48.5	
		Svalbard (h = 10 km).				
		Double P, small and large,				
		average separation 5.9 sec.				
"	16	Up	iP		04 08 28.0	
			i		04 08 32.6	
			iS		04 12 48	
					micr	sec
			i	Z'	0.2	1.4
			Mx	E	1.1	19
			Mx	N	3.0	21
			Mx	Z	6.7	24
		Ki	iP		04 06 59.5	
			iS		04 10 22	
					micr	sec
			P	Z'	0.7	1.9
		Sk	iP		04 07 47.1	
			iLg2		04 14 31.6	
			i		04 16 13.2	
		Um	iP		04 07 46.0	
			i		04 07 50.5	
			iS		04 11 33	
			iLg2		04 14 29.1	
		Ud	iP		04 08 26.6	
			iLgl		04 15 13.0	
		De	iP		04 08 57.6	
		Svalbard (h = 10 km).				
		m = 5.6 (Up,Ki).				
"	16	Up	iP		04 18 40.3	
			i		04 18 44.3	
			iS		04 22 56	
					micr	sec
			i	Z'	0.1	1.2
			Mx	E	1.1	14
			Mx	N	3.0	17
			Mx	Z	5.0	17
		Ki	iP		04 17 11.8	
			iS		04 20 34	
					micr	sec
			P	Z'	1.0	1.8
			Mx	E	2.2	15
		(cont.)				

1976 Sep.	16	(cont.)				
			Mx	N	6.5	16
			Mx	Z	4.0	16
		Sk	iP		04 17 58.0	
		Um	iP		04 17 57.3	
			iS		04 21 47	
		Ud	iP		04 18 33.6	
		De	iP		04 19 06.9	
		Svalbard (h = 10 km).				
		m = 5.5 (Up,Ki).				
"	16	Up	iP		04 32 19.5	
			i		04 32 24.7	
			iS		04 36 52	
		Ki	iP		04 30 52.6 D	
			i		04 30 57.3	
					micr	sec
			P	Z'	0.3	1.5
		Sk	iP		04 31 39.6	
		Um	iP		04 31 38.3 D	
			iS		04 35 30	
		Ud	iP		04 32 17.5	
			i		04 32 22.6	
		De	iP		04 32 47.5	
		Svalbard (h = 10 km).				
"	16	Up	iP		04 33 45.4	
					micr	sec
			P	Z'	3.2	3.0
			Mx	E	1.1	19
			Mx	N	6.8	21
			Mx	Z	7.5	22
		Ki	iP		04 32 17.9	
					micr	sec
			P	Z'	2.1	2.2
			Mx	E	3.1	13
			Mx	N	8.5	17
			Mx	Z	5.5	17
		Sk	iP		04 33 05.2	
		Um	iP		04 33 03.8	
		Ud	iP		04 33 42.4	
		De	iP		04 34 13.5	
		Svalbard (h = 15 km).				
		m = 6.2 (Up,Ki).				
"	16	Up	iP		04 36 56.3	
		Ki	iP		04 35 34.0	
					micr	sec
			P	Z'	0.2	1.6
		Sk	iP		04 36 21.1	
		Um	iP		04 36 17.4	
		Ud	iP		04 36 57.8	
		De	iP		04 37 29.7	
		Svalbard (h = 10 km).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
Sep.	16	Up	iP		05 18 27.7	
			iS		05 22 50	
					micr	sec
			P	Z'	0.2	1.5
			Mx	E	1.2	16
			Mx	N	4.5	21
			Mx	Z	7.9	23
		Ki	iP		05 17 01.3	
			i		05 19 53.7	
			iS		05 20 25	
					micr	sec
			P	Z'	1.0	1.7
			Mx	E	2.6	13
			Mx	N	6.0	16
			Mx	Z	4.0	16
		Sk	iP		05 17 48.4	C
		Um	iP		05 17 47.0	
			iS		05 21 37	
		Ud	iP		05 18 24.1	
		De	iP		05 18 57.1	C
		Svalbard (h = 10 km).				
		m = 5.6 (Up,Ki).				
"	16	Sk	iP		05 48 54.2	
		Um	iP		05 49 10.7	
			i		05 49 21.4	
		Panama (h = 45 km).				
"	16	Up	iP		06 07 45.9	
		Ud	iP		06 07 39.3	
"	16	Ki	iP		10 15 24.2	
		Mariana Islands (h = 130 km).				
"	16	Ki	iP		10 22 05.1	
		Um	iP		10 21 40.5	
		Queen Elizabeth Islands				
		(h = N).				
"	16	Up	iPKP		11 45 21.3	
			iPP		11 46 32	
			i		11 49 04	
			iSKS		11 52 06	
					micr	sec
			Mx	E	1.7	22
			Mx	N	1.2	22
			Mx	Z	3.8	23
		Ki	iPKP		11 45 12.1	
					micr	sec
			Mx	E	1.5	20
			Mx	N	2.1	20
			Mx	Z	1.4	20
		Sk	iPKP		11 45 21.7	
		Um	iPKP		11 45 15.1	
			i		11 48 07.3	
		(cont.)				

1976						
Sep.	16	(cont.)				
		Ud	iPKP		11 45 25.6	
		De	iPKP		11 45 29.9	
		New Guinea (h = 15 km).				
		M = 5.8 (Up,Ki).				
"	16	Ud	iP		12 49 02.9	
		California (h = 0).				
"	16	Ud	iP		12 57 33.6	
"	16	Ud	iP		14 54 21.7	
"	16	Um	iP		18 05 12.6	
		Ud	iP		18 05 16.4	
		Iran (h = N).				
"	16	Up	iPKP		18 31 03.6	
		Ud	iPKP		18 31 06.9	
"	16	Up	iPKPl		23 31 37.7	C
					micr	sec
			PKPl	Z'	0.1	0.6
		Ki	e(PKP)		23 31 21	
			iSKPl		23 34 10.8	
		Sk	ePKPl		23 21 30	
			iPKP		23 31 32.6	
		Um	iPKPl		23 31 25.6	
			iSKPl		23 34 21.5	
		Ud	iPKPl		23 31 39.7	C
		De	iPKPl		23 31 48.5	
		Tonga-Kermadec Islands				
		(h = 450 km).				
"	17	Up	iP		01 28 48.4	
			iS		01 32 59	
		Ki	eP		01 30 03	
		Sk	iP		01 29 23.3	
		Um	iP		01 29 22.5	C
			iS		01 34 13	
		Ud	iP		01 28 47.8	
		De	iP		01 28 11.0	
		Sicily (h = 45 km).				
"	17	Up	iP		07 28 29	
			iS		07 32 54	
		Ki	iP		07 26 59.3	
					micr	sec
			P	Z'	0.4	1.3
		Sk	iP		07 27 46.0	
			i		07 31 13.3	
		Um	iP		07 27 45.4	
			iS		07 31 45	
		Ud	iP		07 28 18.5	
			i		07 28 29.6	
		Svalbard (h = 10 km).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976

Sep.	17	Ud	iP		09 21 08.5	
		Austria (h = 10 km).				
"	17	Ki	eP		11 21 33	
"	17	Up	ipP		16 47 41.8	
					micr	sec
			pP	Z'	0.1	1.0
		Ki	iP		16 47 17.2	
			ipP		16 47 26.9	
		Sk	iP		16 47 47.7	
			ipP		16 47 56.8	
		Um	iP		16 47 19.4	
			ipP		16 47 28.0	
		Ud	iP		16 47 46.8	
		De	i		16 48 06.7	
		Sinkiang, China.				
		h = 30 km (Ki,Sk,Um).				
"	17	Ud	iP		17 27 24.1	
		Turkey (h = 10 km).				
"	17	Up	iP		23 14 41.0	C
		Ud	iP		23 14 55.8	
		Iran (h = N).				
"	18	Up	iPKP		01 40 02.0	
		Ki	iPKP		01 39 51.9	
		Um	i		01 40 39.0	
		De	iPKP		01 40 10.4	
		New Britain (h = 100 km).				
"	18	Up	iP		02 26 16.4	
		Um	iP		02 25 57.8	C
		Ud	eP		02 26 24	
		De	iP		02 26 36.3	
"	18	Um	iP		08 07 40.1	
		Borneo (h = N).				
"	18	Up	iP		10 43 28.2	C
			i		10 43 41.8	
					micr	sec
			P	Z'	0.2	1.1
			Mx	E	1.3	23
			Mx	N	1.2	22
			Mx	Z	0.6	21
		Ki	iP		10 42 35.4	
					micr	sec
			P	Z'	0.1	0.8
			Mx	E	0.8	17
			Mx	N	0.5	16
		Sk	iP		10 43 11.9	
		Um	iP		10 43 00.3	C
			i		10 43 14.9	
		(cont.)				

1976

Sep.	18	(cont.)				
		Ud	iP		10 43 32.0	
		De	iP		10 43 53.1	C
		Kamchatka (h = 35 km).				
		m = 6.0, M = 5.1 (Up,Ki).				
"	18	Ki	iSn		12 17 55.1	
			iSgl		12 18 11.9	
"	18	Up	iP		13 25 19.7	
		Ki	iP		13 25 02.4	
		Sk	iP		13 25 21.0	
		Um	iP		13 25 07.8	
		Ud	iP		13 25 27.5	
		De	i		13 25 38.7	
		Molucca Passage (h = 50 km).				
"	18	Up	iPKP2		15 14 45.8	
		Sk	iPKP1		15 14 34.7	
		Um	iPKP1		15 14 41.3	
		Kermadec Islands (h = N).				
"	18	Up			micr	sec
			Mx	N	0.9	17
		Ki	eP		19 24 44	
					micr	sec
			Mx	N	0.4	14
		Sk	iP		19 25 17.8	
		Um	iP		19 24 56.9	
		De	iP		19 25 37.3	
		China (h = N).				
		M = 4.8 (Up,Ki).				
"	19	Up	iP		00 58 50.3	C
		Sk	iP		00 59 06.7	
		Um	iP		00 58 43.0	
		Ud	iP		00 59 03.5	
"	19	Ud	iP		02 12 14.5	
"	19	Up	iP		04 07 33.8	
		Sk	iP		04 07 28.1	
		Um	iP		04 07 22.7	
		Ud	iP		04 07 36.6	
"	19	Ki	eP		06 58 27	
		Sk	eP		06 59 13	
		Um	iP		06 59 05.8	
"	19	De	iP		09 08 15.5	
		Turkey (h = N).				
"	19	Um	ipP		09 24 02.3	
		Ud	ipP		09 24 33.0	
		Alaska (h = 140 km).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Sep.					
	19	Up	eP	11 08 02	
"	19	Up	iP	12 36 24.8	
		Ki	eP	12 36 22	
		Sk	iP	12 36 10.7	C
			iPP	12 39 27.6	
		Um	iP	12 36 26.3	
		Ud	iP	12 36 15.4	
		De	i	12 36 30.0	
		Panama (h = 5 km).			
"	19	Up	iP	13 23 08.9	
		Ki	eP	13 22 28	
		Ud	iP	13 23 18.1	
		Japan (h = N).			
"	19	Up	iP	14 07 09.1	C
		Ki	iP	14 06 58.2	
		Sk	iP	14 07 21.4	
		Um	iP	14 06 59.3	
		Ud	iP	14 07 21.1	
		De	iP	14 07 26.5	
		Burma-China (h = 25 km).			
"	19	Up	i	14 55 49.4	
		Sk	iP	14 56 33.1	
		Um	iP	14 56 35.9	
		Ud	i	14 55 52.7	
		Yugoslavia (h = N).			
"	19	Up	iP	15 11 04.3	
			ipP	15 11 12.6	
			iS	15 20 22	
				micr	sec
			P	Z' 0.1	1.0
			Mx	E 0.7	18
			Mx	N 0.9	16
			Mx	Z 1.1	16
		Ki	iP	15 11 47.6	
			ipP	15 11 56.2	
				micr	sec
			P	Z' 0.2	1.4
			pP	Z' 0.2	1.5
			Mx	E 0.8	14
			Mx	N 0.6	14
			Mx	Z 0.5	14
		Sk	iP	15 11 29.4	
			ipP	15 11 38.1	
		Um	iP	15 11 23.8	
			ipP	15 11 33.7	
			iS	15 21 02	
		Ud	iP	15 11 09.3	
			ipP	15 11 17.4	
		De	iP	15 10 48.5	
			ipP	15 10 56.9	
		(cont.)			

1976 Sep.					
	19	(cont.)			
		Zambia.			
		h = 30 km (Up,Ki,Sk,Um,Ud,De).			
		m = 5.9, M = 5.3 (Up,Ki).			
"	19	Ud	iP	15 39 11.4	
"	19	Up	iP	16 12 20.7	
				micr	sec
			Mx	E 0.8	20
			Mx	N 1.0	19
			Mx	Z 0.8	20
		Ki	iPn	16 10 39.4	
			iTSg	16 16 23.3	
				micr	sec
			Pn	Z' 0.1	1.0
			Mx	E 0.9	18
			Mx	N 0.8	17
			Mx	Z 0.6	16
		Sk	eP	16 11 26	
		Um	iP	16 11 30.9	
		Ud	iP	16 12 13.2	
			i	16 12 22.4	
		De	iP	16 13 02.2	
		Greenland Sea (h = N).			
"	19	Up	iP	16 20 38.9	
				micr	sec
			Mx	E 1.5	19
			Mx	N 2.2	20
			Mx	Z 1.7	21
		Ki	iPn	16 18 57.2	
			iSn	16 20 28.7	
			iTSg	16 24 40.4	
				micr	sec
			Pn	Z' 0.1	1.0
			Mx	E 1.4	17
			Mx	N 1.0	16
			Mx	Z 1.5	14
		Sk	iP	16 19 45.2	
		Um	iP	16 19 47.3	
			i	16 22 23.7	
		Ud	iP	16 20 30.6	
			i	16 20 37.2	
		De	iP	16 21 20.4	
		Greenland Sea (h = N).			
"	19	Ki	ePn	17 14 34	
		Um	iPn	17 15 19.9	
			i	17 15 26.4	
		Ud	iP	17 16 09.9	
			i	17 16 15.9	
		De	iP	17 16 58.8	
		Norwegian Sea (h = N).			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Sep.	19	Um	iP		18 35 09.1	
		Ud	iP		18 35 59.8	
"	19	Up	eP		21 10 46	
			ipP		21 11 08.9	
					micr sec	
			P	Z'	0.1 1.1	
		Ki	iP		21 10 31.3	D
			ipP		21 10 53.2	
					micr sec	
			P	Z'	0.4 1.5	
		Sk	iP		21 10 29.0	D
			ipP		21 10 49.9	
		Um	iP		21 10 41.9	
			i		21 10 56.4	
			ipP		21 11 03.3	
			iS		21 21 17	
		Ud	iP		21 10 38.8	
			ipP		21 10 54.8	
		De	iP		21 10 48.6	
			i		21 11 02.7	
			ipP		21 11 10.0	

Mexico.
h = 80 km (Up,Ki,Sk,Um,Ud,De).
m = 6.0 (Up,Ki).

"	20	Ki	iP		01 57 19.1	

Colombia (h = 160 km).

"	20	Ki	iSgl		02 16 33.2	
"	20	Ki	iP		03 43 13.1	
		Sk	eP		03 42 50	

Leeward Islands (h = 50 km).

"	20	Ki	iP		05 19 01.3	
		Sk	iP		05 19 22.5	
		Um	iP		05 19 06.1	
		Ud	iP		05 19 25.6	

Talaud Islands (h = 180 km).

"	20	Ud	iP		05 21 58.4	
"	20	Up	i		09 16 11.0	
			iLgl		09 17 17.7	
		Ki	eP		09 14 52	
			i		09 15 39.4	
		Sk	eP		09 14 03	
		Um	iP		09 14 09.9	
		Ud	i		09 14 00.9	
		De	iLgl		09 15 00.8	

Austria (h = 20 km).

"	20	Ki	eP		13 55 45	

Sumatra (h = 90 km).

1976 Sep.	20	Up	e		15 17 59	
			iS		15 28 54	
					micr sec	
			Mx	E	1.0 17	
			Mx	N	0.9 16	
			Mx	Z	1.1 16	
		Ki	e		15 17 41	
			iS		15 28 23	
					micr sec	
			Mx	E	1.5 18	
			Mx	N	1.1 17	
			Mx	Z	1.4 17	
		Sk	e		15 18 01	
		Um	iP		15 17 41.9	
			iSKS		15 28 07	
			iS		15 28 31	
		Ud	iP		15 18 00.7	

Mindanao (h = 45 km).
M = 5.5 (Up,Ki).

"	20	Um	iP		16 06 08.4	
		Ud	iP		16 06 34.4	

Philippine Islands (h = N).

"	20	Ud	iP		16 52 55.7	
"	20	Um	iP		18 17 27.7	

Mexico (h = N).

"	20	Up	iP		22 55 35.7	D
					micr sec	
			Mx	N	0.6 18	
		Ki	iP		22 55 16.0	
					micr sec	
			Mx	N	0.7 15	
		Sk	iP		22 55 45.0	
		Um	iP		22 55 20.8	
		Ud	iP		22 55 47.9	

Szechwan, China (h = 40 km).
M = 4.8 (Up,Ki).

"	20	Um	iP		23 38 27.3	

Austria (h = N).

"	21	Up	iPKPl		02 36 33.0	
			iSKPl		02 39 23.2	
		Ki	iPKP		02 36 26.3	
			iSKPl		02 38 59.4	
		Sk	eSKPl		02 39 13	
		Um	i(PKP)		02 36 26.8	
			iSKPl		02 39 11.0	
		Ud	iPKPl		02 36 35.5	
			iSKPl		02 39 24.4	
		De	iPKPl		02 36 45.7	
			i		02 36 50.2	

Fiji Islands (h = 580 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Sep.	21	Up	iP	03 10 25.9
		Ki	iP	03 09 31.4
		Sk	iP	03 09 58.6
		Probably the same focal region as the following event.		
"	21	Up	iP	03 11 24.9
		Ki	iP	03 10 30.3
		Sk	iP	03 10 57.1
		Um	iP	03 10 58.7
		Ud	iP	03 11 21.0
		De	iP	03 11 46.0
		Kodiac Island (h = N).		
"	21	Up	iP	04 26 24.2
		Sk	iP	04 26 10.3
		Ud	iP	04 26 27.4
"	21	Ki	iP	06 56 51.9
		Sk	iP	06 57 26.0
		Um	iP	06 57 22.8
		Ud	iP	06 57 48.1
"	21	Ud	iP	13 11 53.4
"	21	Sk	eSgl	14 13 14
		Ud	eSgl	14 13 44
		Southern Norway. By combination with Bergen reading.		
"	21	Up	iP	15 06 11.2
		Ki	iP	15 07 25.2
		Sk	iP	15 06 46.1
			i	15 10 13.8
		Um	iP	15 06 49.6
			i	15 10 14.5
		Ud	iP	15 06 12.8 D
			i	15 09 58.7
		De	iP	15 05 36.3 D
		Sicily (h = 300 km).		
"	21	Ki	iP	16 08 04.9
"	21	Up	iP	16 54 11.3
		Ki	iP	16 53 52.2
		Um	iP	16 53 58.3
		Ud	iP	16 54 21.7
		De	iP	16 54 28.1
		Luzon (h = 35 km).		
"	21	Up	iP	17 48 53.5
		Ki	iP	17 48 09.8
		Sk	i	17 48 49.9
		(cont.)		

1976				
Sep.	21	(cont.)		
		Um	iP	17 48 27.7
			i	17 48 33.4
		Ud	iP	17 48 59.7
			i	17 49 04.1
		De	iP	17 49 15.8
			i	17 49 22.0
		Japan (h = 55 km).		
"	21	Sk	eSgl	17 53 11
		Ud	iSgl	17 53 05.8
		Southern Norway. By combination with Bergen reading.		
"	21	Ud	iPKPl	18 21 18.2
		Loyalty Islands (h = N).		
"	21	Up	iP	21 05 40.3
		Ki	iP	21 05 26.0
		Sk	iP	21 05 46.6
		Um	iP	21 05 30.7
		Ud	iP	21 05 48.3
		De	iP	21 05 54.1
		Celebes (h = 80 km).		
"	21	Sk	iP	21 10 12.8
		Celebes (h = 130 km).		
"	21	Up	iP	21 14 30.7
		Ki	iP	21 14 19.4
		Sk	iP	21 14 41.2
		Um	iP	21 14 24.8
		Ud	iP	21 14 44.5
		Mindanao (h = N).		
"	21	Up	iP	21 36 09.8
		Ki	iP	21 35 55.5
		Um	iP	21 36 00.8
		Ud	iP	21 36 18.5
		De	eP	21 36 23
		Celebes (h = 90 km).		
"	22	Up	iP	00 27 02.3 C
			i	00 27 04.3
			iS	00 35 53.8
			iScS	00 36 54.5
			iP'P'	00 55 14.7
			i	00 55 39.7
				micr sec
			i Z'	0.5 0.9
			Mx E	2.4 21
			Mx N	5.5 25
			Mx Z	5.5 26
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 22 (cont.)

Ki	iP		00 26 16.0	C
	iPcP		00 26 59.6	
	iS		00 34 29	
			micr sec	
	P	Z'	0.4 1.4	
	Mx	E	3.3 19	
	Mx	N	8.5 23	
	Mx	Z	3.9 23	
Sk	iP		00 26 51.5	
	i		00 26 53.2	
Um	iP		00 26 36.5	C
	iPcP		00 27 12.0	
	iS		00 35 07	
Ud	iP		00 27 08.2	
	i		00 27 10.2	
	iS		00 36 14.2	
	iP'P'		00 55 33.3	
De	iP		00 27 26.1	
	i		00 27 28.3	
	i		00 38 00.8	

Kurile Islands (h = 60 km).
m = 6.4, M = 5.8 (Up,Ki).
Double P (Up,Sk,Ud,De),
small and large,
average separation 2 sec.

" 22 Ud iP 01 19 04.0

" 22 Up iP 02 41 21.2

		micr	sec
Mx	N	1.2	22
Mx	Z	2.3	21
Ki iP		02 40 29.1	
		micr	sec
Mx	E	0.7	20
Mx	N	0.6	19
Um iP		02 40 55.8	
Ud iP		02 41 21.2	
De iP		02 41 45.3	

Aleutian Islands (h = 45 km).
M = 5.0 (Up,Ki).

" 22 Up iP 03 12 55.1
Ud iP 03 12 57.0

" 22 Up iP 08 32 50.7

Ki iP		08 32 20.8	C
		micr	sec
P	Z'	0.1	0.8
Sk iP		08 32 47.8	
Um iP		08 32 33.5	C
Ud iP		08 32 56.9	
De iP		08 33 09.8	

Volcano Islands (h = 130 km).

" 22 Up iP 09 20 52.7 C
(cont.)

1976
Sep. 22 (cont.)

Up	ipP		09 21 23.4	
			micr sec	
	P	Z'	0.1 1.0	
Ki	iP		09 20 35.6	
Sk	iP		09 20 59.0	
	i		09 21 39.8	
Um	iP		09 20 40.8	C
	i		09 21 18.8	
Ud	iP		09 21 01.8	C
	ipP		09 21 31.3	
	i		09 21 42.1	

Mindoro.
h = 120 km (Up,Ki).

" 22 Up iPKPl 11 24 32.9

Ki iPKPl		11 24 11.8	
Sk iPKPl		11 24 26.2	
Um iPKPl		11 24 20.9	
Ud iPKPl		11 24 34.1	C
De iPKPl		11 24 43.5	

Kermadec Islands (h = N).

" 22 Up eP 12 14 09

iS		12 25 06	
		micr	sec
Mx	E	0.8	20
Mx	N	0.7	20
Mx	Z	0.8	20
Ki		micr	sec
Mx	E	1.0	16
Mx	N	0.8	14
Mx	Z	0.5	14
Um i		12 14 03.9	
iS		12 24 43	

Mindanao (h = N).
M = 5.4 (Up,Ki).

" 22 Ud iP 15 10 23.8

" 22 Ud iP 16 32 56.2

" 22 Up Mx 17 15

		micr	sec
Mx	E	0.8	20
Mx	N	0.7	20
Mx	Z	1.9	20
Ki Mx		17 20	
		micr	sec
Mx	E	0.7	19
Mx	N	1.4	20
Mx	Z	0.9	19

South Atlantic Ocean (h = N).
M = 5.5 (Up,Ki).

" 22 Up iP 19 48 24.8
Ki i 19 48 57.8
Sk eP 19 48 55
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 22 (cont.)

	Sk	i		19 49 04.3	
	Um	i		19 48 45.6	
	Ud	i		19 48 44.3	
	De	i		19 48 38.7	

Pakistan (h = N).

" 22	Up	iP		20 16 38.7	C
		i		20 16 46.5	
		iS		20 24 26	
				micr sec	
		P	Z'	0.2 0.9	
		Mx	E	3.4 18	
		Mx	N	2.8 16	
		Mx	Z	6.8 16	
	Ki	iP		20 16 12.8	C
		i		20 16 19.4	
		iS		20 23 35	
				micr sec	
		P	Z'	0.2 0.9	
		Mx	E	5.1 11	
		Mx	N	8.4 16	
		Mx	Z	2.7 10	
	Sk	iP		20 16 45.6	C
	Um	iP		20 16 20.6	C
		iS		20 23 53	
	Ud	iP		20 16 51.5	C
	De	iP		20 17 01.3	C
		i		20 17 10.3	

China (h = 30 km).
m = 6.1, M = 5.8 (Up,Ki).

" 22	Up	iP		21 56 26.1	
	Ki	iP		21 56 40.5	
	Sk	iP		21 56 55.2	
	Um	iP		21 56 26.9	
	Ud	iP		21 56 43.6	C
	De	iP		21 56 39.0	

Uzbek SSR (h = N).

" 22	Up	iP		22 11 28.4	
	Ud	iP		22 11 30.6	
" 23	Up	eP		00 47 08	
	Ki	iP		00 46 48.4	
	Um	i		00 47 13.3	
	Ud	iP		00 47 15.2	

Halmahera (h = 40 km).

" 23	Um	iP		05 09 09.1	
	Ud	iP		05 09 40.3	
" 23	Up	iPKPl		08 24 12.0	
	Um	iPKPl		08 24 01.4	
	Ud	iPKPl		08 24 13.6	C

1976
Sep. 23

	Up	iP		09 58 24.1	
	Ki	iP		09 57 38.8	
	Sk	iP		09 58 22.3	
	Um	iP		09 57 59.3	
	Ud	iP		09 58 35.6	
	De	eP		09 58 52	

Lake Baikal (h = N).

" 23	Ud	iP		15 04 23.7	
" 23	Up	iP		15 05 53.9	
	Ki	iP		15 05 35.9	
				micr sec	
		P	Z'	0.1 0.9	
	Sk	iP		15 05 57.5	
	Um	i		15 05 49.3	
	Ud	iP		15 06 01.7	

Philippine Islands (h = 70 km).

" 23	Um	iP		15 58 27.4	
	Ud	iP		15 58 45.9	
" 23	Up	iRg		19 01 22.7	
	Ud	iRg		19 01 00.0	

Central Sweden.
Near-surface event.

" 23	Up	iP		19 13 19.3	
	Ud	iP		19 13 21.2	
" 23	Ud	iP		20 05 40.9	

Hindu Kush (h = 200 km).

" 23	Ud	iPKP		22 41 17.3	
	De	iPKP		22 41 21.9	

New Britain (h = 90 km).

" 24	Up	iP		00 20 04.4	C
	Ki	iP		00 19 57.9	
	Sk	iP		00 20 19.6	C
	Um	iP		00 19 56.8	C
	Ud	iP		00 20 17.7	C
	De	iP		00 20 18.2	

Burma (h = 160 km).

" 24	Ki	iP		06 49 37.0	
		i		06 49 45.9	
	Sk	iP		06 49 41.3	
	Um	iP		06 50 13.4	
" 24	Ki	iP		07 37 04.7	
		i		07 37 07.4	
		iS		07 38 48.8	
	Sk	iP		07 37 20.1	
	Um	iP		07 37 41.4	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 24 (cont.)
Ud iP 07 38 08.6
Jan Mayen region,
near 71°N, 5°W.
Origin time = 07 34 51.

" 24 Up iP 09 11 15.8

" 24 Ud iP 09 32 07.1

" 24 Ud iP 12 35 51.8

" 24 Sk iP 14 24 05.0
Ud iP 14 24 12.8

" 24 Ud iP 16 01 44.2
Crete.

" 24 Ud iP 20 08 38.5
Aegean Sea (h = 10 km).

" 24 Up eP 20 56 04
Sk eP 20 56 07
Um iP 20 56 25.9
Ud eP 20 55 55
Central Mid-Atlantic Ocean
(h = N).

" 25 Up iP 01 49 54.4
i 01 50 23.2
Ki iP 01 49 37.4
Sk iP 01 49 59.1
Ud iP 01 50 01.6
Mindanao (h = 70 km).

" 25 Um iP 01 55 07.3

" 25 Up iP 03 43 08.4 C
iS 03 54 08
micr sec
Mx E 1.4 15
Mx N 0.8 15
Mx Z 2.8 16
Ki iP 03 42 52.6 C
micr sec
P Z' 0.1 1.4
Mx E 2.2 17
Mx N 1.7 16
Mx Z 1.4 15
Sk iP 03 43 14.0
Um iP 03 42 58.5
iSKS 03 53 25
iS 03 53 48
Ud iP 03 43 17.1 C
Mindanao (h = 45 km).
M = 5.7 (Up,Ki).

1976
Sep. 25 Ud iP 04 04 11.6
Mindanao (h = N).

" 25 De iPKPl 04 58 21.8
Tonga-Kermadec Islands
(h = 510 km).

" 25 Ud iP 09 21 58.0

" 25 Up iP 12 00 37.7
Ud iP 12 00 49.2
De iP 12 01 01.8
China (h = 35 km).

" 25 Up eP 12 54 45
Sk iP 12 55 12.9
Ud iP 12 55 02.5
De iP 12 54 58.1
Hindu Kush (h = 50 km).

" 25 Up iSgl 13 57 46.8
Sk eSgl 13 57 08
Ud ePgl 13 56 03
iSgl 13 56 45.9
De iSgl 13 57 54.2
Southwest Norway,
60.5°N, 7.2°E.
Origin time = 13 55 06.
M_L = 2.3 (Ud).

" 25 Up iP 19 20 44.4
i 19 20 52.6
Ud iP 19 20 56.4
De iP 19 20 55.1
Andaman Islands (h = 25 km).

" 25 Ud iP 22 33 45.6

" 26 Ud iP 02 08 12.0

" 26 Up iP 02 31 24.5
Ud iP 02 31 37.2
Formosa (h = 10 km).

" 26 Up iP 08 46 59.7
Ki iP 08 47 03.3
Sk iP 08 47 16.2
Ud iP 08 47 12.1
De iP 08 47 10.3
Sumatra (h = 60 km).

" 26 Ud iP 10 01 49.7

" 26 Um iP 12 24 23.8
Ud iP 12 24 56.8
De iP 12 25 19.6
Kamchatka (h = 80 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Sep.	26	Ki	iPKP	14 52 15.0
		Ud	i	14 52 41.2
		South of Africa (h = 40 km).		
"	26	Ud	eP	15 22 53
"	26	Um	iPKP	16 42 46.5
		Ud	iPKP	16 42 57.9
"	26	Ki	iP	19 47 43.1
		Um	iP	19 47 26.9
		Ud	iP	19 47 28.5
			i	19 47 38.7
		De	iP	19 47 14.6
		Iran (h = N).		
"	26	Up	iSgl	23 44 17.2
			iRg	23 44 48.5
		Ki	i	23 46 40.3
		Sk	iSgl	23 46 08.2
		Um	iSgl	23 44 37.0
			i	23 44 49.4
		Ud	i	23 44 57.0
			iSgl	23 45 18.1
			i	23 45 28.6
		De	i	23 45 22.1
			iSgl	23 45 43.8
		Northeast Esthonia,		
		near 59 1/4°N, 28°E.		
		Origin time = 23 41 43.		
		M_L = 2.2 (Up,Um).		
		Near-surface event.		
"	27	Ud	iP	00 40 50.8
		Hindu Kush (h = 180 km).		
"	27	Ud	iP	02 31 22.6
		Arabian Peninsula (h = N).		
"	27	Up	iPKP1	08 42 37.5
			i	08 42 41.2
		Sk	iPKP1	08 42 31.5
		Um	iPKP1	08 42 26.0
			i	08 42 29.9
		Ud	iPKP1	08 42 39.5 C
			i	08 42 43.5
		De	iPKP1	08 42 47.1
		Kermadec Islands (h = 40 km).		
"	27	Up	iPKP1	13 03 32.4
			iPKP2	13 03 41.7
				micr sec
			PKP1 Z'	0.1 1.0
		Ki	iPKP1	13 03 12.6 C
		Sk	iPKP1	13 03 28.0 C
		(cont.)		

1976				
Sep.	27	(cont.)		
		Um	iPKP	13 03 20.9 C
			iPKP1	13 03 22.4
		Ud	iPKP	13 03 29.1
			iPKP1	13 03 34.4
		De	iPKP1	13 03 43.1
			iPKP2	13 03 58.6
		South of Kermadec Islands		
		(h = 45 km).		
"	27	Ud	iP	14 16 25.2
"	27	Ud	iP	14 26 13.7
"	28	Up	iP	22 58 02.2
		Ud	iP	22 58 10.9
		Greece-Albania (h = 15 km).		
"	28	Ud	iPKP	03 28 01.3
		De	i	03 28 07.8
		New Hebrides Islands		
		(h = 140 km).		
"	28	Ud	iP	14 01 00.2
		De	eP	14 01 37
"	28	Ud	eSgl	17 13 13
		Southern Norway.		
		By combination with Bergen		
		reading.		
"	28	Ki	iPKP2	18 24 47.6
		Um	iPKP1	18 24 26.9
		Ud	ePKP2	18 24 49
		De	iPKP2	18 24 45.4 C
		Macquarie Island (h = N).		
"	28	Ud	iP	20 28 43.0
"	28	Ud	iP	22 40 24.4
"	28	Ki	iP	23 22 43.3
		Sk	i	23 23 18.1
		Um	iP	23 22 53.5
		Ud	iP	23 23 28.9
		China (h = N).		
"	29	Ud	iP	01 59 14.7
"	29	Up	iP	03 00 32.4
		Sk	iP	03 00 53.2
		Um	iP	03 00 27.8
		Ud	iP	03 00 47.5 C
		Nepal (h = N).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Sep.	29	Up	iP		03 04 24.8	
			iS		03 07 51.7	
					micr	sec
			P	Z'	1.1	0.9
			Mx	E	0.7	7
			Mx	N	0.7	8
			Mx	Z	1.1	7
		Ki	iP		03 02 54.6	C
			iS		03 05 07.8	
					micr	sec
			P	Z'	1.8	1.2
			Mx	E	1.6	6
			Mx	N	1.3	6
			Mx	Z	1.3	6
		Sk	iP		03 04 04.1	
			iS		03 07 19.3	
		Um	iP		03 03 32.5	C
			iS		03 06 12.8	
		Ud	iP		03 04 35.9	
			iS		03 08 17.5	
		De	iP		03 05 07.9	C
			iS		03 09 21.6	
		Novaya Zemlya.				
		m = 6.7 (Up,Ki).				
		Underground explosion.				
"	29	Ud	iP		05 00 54.3	
"	29	Ud	iP		07 23 34.1	
"	29	Up	iP		07 55 59.2	
		Ki	iP		07 55 58.8	
		Sk	iP		07 56 21.9	
		Um	iP		07 55 55.9	
		Ud	iP		07 56 14.9	
		Tibet-India (h = 30 km).				
"	29	Ki	iP		09 40 16.5	
		Ud	iP		09 40 52.6	
		Mariana Islands (h = 25 km).				
"	29	Up	iP		10 04 28.9	
			i		10 04 43.3	
		Ki	iP		10 04 22.5	C
					micr	sec
			Mx	E	0.7	15
			Mx	N	0.8	17
			Mx	Z	0.9	16
		Sk	iP		10 04 10.1	
		Um	iP		10 04 29.3	C
			i		10 04 43.7	
		Ud	iP		10 04 17.9	
		De	iP		10 04 23.9	
		Cuba (h = N).				
"	29	Ud	iP		10 48 32.0	
		Mindanao (h = 60 km).				

1976 Sep.	29	Um	iP		14 41 48.7	
		Ud	iP		14 42 12.8	C
		Afghanistan-USSR (h = 190 km).				
"	29	Um	iPKP		15 07 00.8	
		Ud	iPKPl		15 07 04.3	
		De	i		15 07 20.2	
		Tonga Islands (h = N).				
"	29	Up	i(PKP)		15 58 22.6	
			iPKPl		15 58 25.8	
		Ki	iPKP		15 58 13.0	
			i		15 58 15.6	
		Sk	iPKP		15 58 24.0	
		Um	i(PKP)		15 58 15.5	
			i		15 58 23.5	
		Ud	iPKPl		15 58 24.9	C
		De	iPKPl		15 58 35.9	C
		Tonga-Kermadec Islands (h = N).				
"	29	Ud	iP		16 43 51.5	
"	29	Up	iP		17 01 19.6	
		Ki	iP		17 01 21.2	D
		Sk	iP		17 01 06.7	
		Um	iP		17 01 23.3	
		Ud	iP		17 01 09.0	
		De	iP		17 01 13.0	
		Colombia (h = 15 km).				
"	29	Ki	iP		20 25 41.9	
		Um	iP		20 25 49.6	
		Ud	iP		20 26 06.7	
		Mindanao (h = 50 km).				
"	29	Ki	iP		20 53 39.9	
		Um	iP		20 53 55.3	
		Ud	iP		20 54 24.9	
		Japan (h = 270 km).				
"	29	Up	iP		21 15 38.0	
			iS		21 26 42	
					micr	sec
			P	Z'	0.2	1.4
			Mx	E	1.0	18
			Mx	N	1.6	18
			Mx	Z	3.9	18
		Ki	iP		21 15 22.3	
			iS		21 26 15	
					micr	sec
			P	Z'	0.3	1.5
			Mx	E	2.0	16
			Mx	N	2.1	20
			Mx	Z	2.7	17
		Sk	iP		21 15 43.2	
		Um	iP		21 15 27.5	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Sep. 29 (cont.)

Um	iSKS		21 25 59	
	iS		21 26 19	
Ud	iP		21 15 45.9	

Mindanao (h = 40 km).
m = 6.3, M = 5.7 (Up,Ki).

" 30

Up	iP		00 37 57.2	
	iS		00 41 59.2	
			micr	sec
	P	Z'	0.8	2.0
	Mx	E	3.2	17
	Mx	N	3.9	13
	Mx	Z	8.3	13
Ki	iP		00 39 11.2	
			micr	sec
	P	Z'	0.3	1.8
	Mx	E	2.5	12
	Mx	N	4.9	13
	Mx	Z	3.0	11
Sk	iP		00 38 36.9	
Um	iP		00 38 37.3	
	iS		00 43 03	
Ud	iP		00 38 04.2	D
	iS		00 42 12.0	
De	iP		00 37 26.6	

Ionian Sea (h = 45 km).
m = 5.8, M = 5.2 (Up,Ki).

" 30

Um	iP		04 03 12.7
Ud	iP		04 03 35.0

Mindanao (h = 35 km).

" 30

Ud	iP		08 34 08.8

" 30

Um	i		11 46 51.6
Ud	iP		11 47 02.2
	i		11 47 10.8

Tadzhik (h = N).

" 30

Up	iP		17 06 52.1	C
Ki	iP		17 05 58.4	C
Sk	iP		17 06 32.3	
Um	iP		17 06 24.8	C
Ud	iP		17 06 53.6	C

Aleutian Islands (h = 50 km).

" 30

Up	iP		17 14 47.9	
Sk	iP		17 15 28.9	
Ud	iP		17 14 55.5	

Greece (h = 15 km).

" 30

Up	iP		17 52 07.1	C

(cont.)

1976
Sep. 30 (cont.)

Ki	iP		17 51 19.7	
Sk	iP		17 51 54.7	
Um	iP		17 51 41.3	C
Ud	iP		17 52 12.2	
De	iP		17 52 31.7	

Kurile Islands (h = 60 km).

" 30

Um	i		20 10 17.1
Ud	iP		20 10 15.3

Mindanao (h = 55 km).

" 30

Up	iPKPl		23 53 57.7	
	i		23 54 10.6	
			micr	sec
	PKPl	Z'	0.8	1.5
	i	Z'	0.8	1.3
	Mx	E	2.7	20
	Mx	N	6.8	22
	Mx	Z	12	22
Ki	iPKP		23 53 39.2	
	i		23 53 43.9	
			micr	sec
	i	Z'	0.2	1.5
	Mx	E	3.7	20
	Mx	N	6.7	20
	Mx	Z	5.7	20
Sk	iPKPl		23 53 49.8	
Um	iPKPl		23 53 44.8	C
Ud	iPKP		23 53 53.6	
	iPKPl		23 53 58.5	
De	iPKPl		23 54 05.7	
	iPKP2		23 54 16.9	

Kermadec Islands (h = 30 km).
M = 6.5 (Up,Ki).

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June 15, 1978

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SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ, UDDEHOLM and DELARY

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

OCTOBER 1 - 31, 1976

1976					
Oct.	1	Ud	iP		01 13 57.5
"	1	Ki	iP		01 58 09.1
		Ud	iP		01 58 18.7
		De	iP		01 58 16.9
		Sumatra (h = N).			
"	1	Up	iPKPl		03 53 16.4
			i		03 53 45.1
			i		03 53 51.2
					micr sec
			i	Z'	0.1 1.2
			i	Z'	0.1 0.8
		Ki	iPKP		03 53 08.8
		Sk	i		03 53 43.0
			i		03 53 50.8
		Um	iPKP		03 53 11.1
			i		03 53 28.5
			i		03 53 36.4
		Ud	iPKPl		03 53 17.7
			i		03 53 22.2
			i		03 53 41.8
			i		03 53 48.6
		De	iPKPl		03 53 29.5
			i		03 53 31.7
			i		03 53 58.6
		Tonga-Kermadec Islands (h = 370 km).			
"	1	Up	iPKPl		07 32 23.3
		Ki	iPKP		07 32 19.0
			iSKPl		07 35 08.4
					micr sec
			SKPl	Z'	0.1 1.0
		Sk	e(PKP)		07 32 15
			iPKP		07 32 29.8
			iSKPl		07 35 23.7
		Um	i(PKP)		07 32 14.7
			iPKP		07 32 24.6
		(cont.)			

1976					
Oct.	1	(cont.)			
		Um	iSKPl		07 35 20.3
		Ud	iPKPl		07 32 24.8
			iSKPl		07 35 34.5
		De	iPKPl		07 32 35.3
			i		07 32 37.7
			iSKPl		07 35 43.0
		Fiji Islands (h = 380 km).			
"	1	Um	iP		10 30 27.2
		Ud	iP		10 29 58.1
		Ascension Island (h = N).			
"	1	Up	iP		11 35 30.2
		Ki	iP		11 35 31.5
					micr sec
			P	Z'	0.1 0.5
		Sk	iP		11 35 52.2
		Um	iP		11 35 24.7
		Ud	iP		11 35 45.9
			i		11 36 21.8
		De	iP		11 35 45.0
		Kashmir-Sinkiang (h = 80 km).			
"	1	Ud	i(P)		16 02 02.4
"	1	Up	iP		17 54 07.1 C
			iS		17 56 47.4
					micr sec
			P	Z'	0.2 1.0
		Ki	iP		17 55 32.3
			i		17 55 37.1
			iPP		17 55 55.5
					micr sec
			i	Z'	0.1 1.0
			PP	Z'	0.1 0.7
		Sk	iP		17 55 00.3
			i		17 55 04.1
			iPP		17 55 19.5
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 1 (cont.)

Um	iP	17 54 48.4	
	iPP	17 55 04.8	
Ud	iP	17 54 22.4	C
	i	17 54 24.8	
De	iP	17 53 43.3	
	iPP	17 53 51.6	

Rumania (h = 150 km).
m = 5.3 (Up,Ki).

" 1

Up	iPKP	22 10 27.3
Um	iPKP	22 10 14.7
Ud	iPKP	22 10 28.1
De	iPKP	22 10 36.9

" 1

Up	iP	23 47 48.6
Ki	iP	23 47 17.2
Sk	iP	23 47 45.3
Um	iP	23 47 30.9
Ud	iP	23 47 55.2

Volcano Islands (h = N).

" 2

Up	iPKP1	01 25 02.6	
	i	01 25 13.6	
Sk	iPKP1	01 24 54.8	
Ud	iPKP1	01 25 07.2	

" 2

Ud	iP	02 31 24.3	

" 2

Ki	iP	06 36 02.1	

Sumatra (h = 45 km).

" 2

Up	iP	10 11 20.7	
	i	10 11 29.6	
		micr sec	
	i	Z' 0.1 1.0	
Ki	iP	10 12 11.2	C
		micr sec	
	P	Z' 0.1 1.3	
Sk	eP	10 12 00	
Um	iP	10 11 41.3	
	i	10 11 44.1	
Ud	i	10 11 40.2	
	i	10 11 51.1	
De	iP	10 11 16.7	
	i	10 11 19.2	

Turkey (h = 40 km).
m = 5.3 (Up,Ki).

" 2

Ud	iP	10 16 35.3

" 2

Up	iP	11 47 55.7
Sk	eP	11 48 47
Um	iP	11 48 09.8
Ud	iP	11 48 17.9

1976
Oct. 2

Up	iPKP1	11 53 29.4
Sk	ePKP1	11 53 23
Um	i(PKP)	11 53 09.0
	iPKP1	11 53 17.4
Ud	iPKP1	11 53 29.5

" 2

Up	iP	12 50 27.7
Sk	iP	12 51 06.5
Um	iP	12 51 04.4
	i	12 51 22.0
Ud	iP	12 50 33.7
	i	12 50 41.4
De	iP	12 50 58.3

Greece (h = 70 km).

" 2

Up	iPKP1	14 07 24.3	
	iPKP2	14 07 34.7	
Ki	iPKP1	14 07 04.5	
		micr sec	
	PKP1	Z' 0.4 1.5	
Sk	iPKP1	14 07 19.6	
	i	14 07 30.8	
Um	iPKP1	14 07 14.2	
Ud	iPKP1	14 07 26.2	
	iPKP2	14 07 37.9	
	i	14 07 47.2	

North Island, New Zealand
(h = 35 km).

" 2

Up	iP	15 57 02.2
Sk	iP	15 56 54.9
Um	iP	15 56 48.1
Ud	iP	15 57 03.6

" 2

Up	iP	18 22 23.7
Ki	iP	18 21 52.1
Um	iP	18 22 05.2
Ud	iP	18 22 30.3

Bonin Islands (h = 490 km).

" 2

Up	iPKP1	18 57 43.2
	iPKP2	18 57 48.0
Sk	iPKP1	18 57 36.9
Um	iPKP1	18 57 31.8
	i	18 57 39.0
Ud	iPKP1	18 57 45.5
	iPKP2	18 57 49.9
De	iPKP1	18 57 54.4
	i	18 58 09.8

Kermadec Islands (h = 70 km).

" 2

Up	iPKP1	22 14 14.3
	iPKP2	22 14 24.3
Ki	iPKP1	22 13 54.8
	i	22 14 06.2

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 2 (cont.)

			micr	sec
Ki	PKPl	Z'	0.1	0.9
Sk	iPKPl		22 14 08.9	
Um	iPKPl		22 14 04.2	
	i		22 14 16.3	
Ud	iPKPl		22 14 16.1	

South of Kermadec Islands (h = 30 km).

" 2	Up	iP	22 45 00.8
	Ud	iP	22 45 05.6
	De	iP	22 45 16.3
" 2	Um	iP	23 31 25.9
" 3	Ud	iP	00 58 54.4

Aegean Sea (h = 15 km).

" 3	Up	iP	02 51 49.8
		iPn	02 53 14.5
		iPP	02 53 21.4
	Ki	i	02 52 05.6
		i	02 52 20.9
	Sk	i	02 52 17.0
	Um	iP	02 51 49.7
		i	02 51 54.3
	Ud	iP	02 52 07.0
		i	02 52 09.7
	De	eP	02 52 03
		i	02 52 08.8

Hindu Kush (h = 50 km).

" 3	Ud	iP	05 27 25.7
" 3	Up	iP2	05 44 07.5
		iP3	05 44 10.6
	Ki	eP3	05 43 33
		iP4	05 43 40.3
	Sk	eP4	05 44 11
	Um	iP1	05 43 38.8
		iP2	05 43 45.4
		iP3	05 43 49.0
	Ud	iP1	05 44 07.5
		iP2	05 44 13.1
		iP3	05 44 17.1
		iP4	05 44 23.9

Japan (h = 45 km).
Multiple event in average P2-P1 = 6 s, P3-P1 = 10 s and P4-P1 = 17 s.

" 3	Ki	iPgl	07 27 44.3
		i	07 28 16.2

(cont.)

1976
Oct. 3 (cont.)

Ki	iSgl	07 28 19.2
Um	iSgl	07 29 27.7

North Finland, 67.8°N, 27.4°E.
Origin time = 07 26 57.
M_L = 2.2 (Ki,Um).
By combination with Finnish station readings.

" 3	Up	iPKP	08 12 29.3
	Ki	iPKP	08 12 17.4
	Sk	iPKP	08 12 28.3
	Um	iPKP	08 12 22.6
	Ud	iPKP	08 12 32.0
	De	iPKP	08 12 37.3

Solomon Islands (h = 55 km).

" 3	Ud	iP	10 36 34.8
" 3	Ud	iP	13 00 07.9
		i	13 00 11.4
" 3	Up	iP	15 12 27.5 C
		i	15 12 30.0
	Ki	eP	15 12 31
	Sk	iP	15 12 49.5
	Ud	iP	15 12 42.5
		i	15 12 47.2

Tibet-India (h = 15 km).

" 3	De	iPKPl	15 37 08.9

Tonga-Kermadec Islands (h = 580 km).

" 3	Up	iP	18 39 24.9
	Ud	iP	18 39 33.2
" 3	Up	i	20 21 28.5
	Ki	iPKPl	20 21 57.6
	Um	iPKPl	20 21 07.1
	Ud	iPKPl	20 21 19.9
		i	20 21 28.4
" 3	Ud	iP	22 51 22.7
" 4	Ud	iP	00 24 21.2
" 4	Up	iP	02 36 08.0
	Ki	iP	02 36 07.8
		i	02 36 24.6
	Sk	iP	02 36 21.6
	Um	iP	02 36 05.2

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 4 (cont.)

Um	i		02 36 23.0	
Ud	iP		02 36 17.6	
	i		02 36 36.2	

Sumatra (h = 30 km).

" 4	Up	iPKPl	07 09 52.5	
		i	07 09 59.8	
			micr	sec
		i	Z' 0.1	0.8
	Ki	ePKP	07 09 37	
	Sk	iPKPl	07 09 45.5	
		i	07 09 52.7	
	Um	iPKPl	07 09 41.0	
		i	07 09 46.5	
	Ud	iPKPl	07 09 53.7	C
		i	07 10 01.5	
	De	iPKPl	07 10 02.2	
		i	07 10 10.9	

Kermadec Islands (h = N).

" 4	Up	iP	07 11 56.8	
			micr	sec
		P	Z' 0.1	1.2
	Ki	iP	07 11 39.3	C
			micr	sec
		P	Z' 0.2	1.4
	Sk	iP	07 11 36.0	C
	Um	iP	07 11 50.8	C
	Ud	iP	07 11 47.0	
	De	iP	07 11 55.3	

Mexico (h = 15 km).
m = 6.0 (Up,Ki).

" 4	Ud	iP	13 43 09.8

" 4	Um	iPgl	14 36 11.0
		iSgl	14 36 31.2
		iRg	14 36 35.0

Origin time = 14 35 44.
Near-surface regional event.

" 4	Sk	iPgl	14 37 01.2
		iSgl	14 37 06.6
		iRg	14 37 08.3

Origin time = 14 36 54.
Near-surface regional event.

" 4	Ud	i(P)	16 18 24.2

" 4	Ki	iP	21 13 10.6
	De	iP	21 14 24.9

Gulf of Alaska (h = N).

" 5	Up	i	06 36 54.8

(cont.)

1976
Oct. 5 (cont.)

Up	ipP		06 37 05.6	
Ki	eP		06 37 35	
	ipP		06 37 45.2	
			micr	sec
	pP	Z'	0.1	1.0
Um	iP		06 37 13.5	
	ipP		06 37 23.8	

Madagascar.
h = 35 km (Up,Ki,Um).
Large amplitude ratio pP/P at Ki and Um.

" 5	Up	iPKPl	14 03 06.7	C
			micr	sec
		PKPl	Z' 0.1	0.8
	Ki	iPKP	14 02 56.5	
	Um	iPKPl	14 02 54.3	
	Ud	iPKPl	14 03 09.1	C
	De	iPKPl	14 03 19.3	C

Tonga-Kermadec Islands
(h = 500 km).

" 5	Up	iSgl	14 39 11.7
	Ud	iSgl	14 39 13.7

" 5	Up	iPKPl	16 17 13.4
		i	16 17 24.0
			micr sec
		i	Z' 0.1 0.9
	Ki	iPKP	16 16 58.0
	Sk	iPKPl	16 17 06.2
		i	16 17 17.3
	Um	iPKPl	16 17 01.2
		i	16 17 10.3
	Ud	iPKPl	16 17 14.9
		iPKP2	16 17 22.0
	De	iPKPl	16 17 23.7
		i	16 17 33.4

Kermadec Islands (h = 15 km).

" 5	Up	i(PKP)	18 20 49.6	
		iPKP	18 21 00.0	
		i	18 21 30.6	
		iPP	18 22 07.2	
		iPKKP	18 31 28.0	
			micr	sec
		PP	Z' 0.2	1.4
		Mx	E 1.1	19
		Mx	N 2.8	22
		Mx	Z 3.6	22
	Ki	iP	18 16 51.4	
		iPKP	18 20 47.8	
		i	18 20 51.6	
		iPP	18 21 22.9	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 5 (cont.)

Ki	iPKKP		18 31	46.7
			micr	sec
	i	Z'	0.1	1.1
	PP	Z'	0.4	2.5
	Mx	E	3.5	23
	Mx	N	4.7	23
	Mx	Z	2.3	22
Sk	iPKP		18 20	58.6
	iPP		18 22	04.6
Um	iP		18 17	03.2
	iPKP		18 20	51.9
	i		18 20	55.6
	iPP		18 21	42.3
	iPKKP		18 31	39.8
	i		18 31	47.0
Ud	iP		18 17	24.8
	iPKP		18 21	01.8
	iPP		18 22	16.5
	i		18 30	26.8
	iPKKP		18 31	23.4
De	iPKP		18 21	07.0
	i		18 21	10.1
	iPP		18 22	35.6

New Britain (h = 20 km).
m = 6.5, M = 6.0 (Up,Ki).

" 6

Up	iP		01 12	06.5
	i		01 12	08.4
			micr	sec
	i	Z'	0.1	1.3
	Mx	E	0.8	14
	Mx	N	0.8	11
	Mx	Z	1.6	13
Ki	iP		01 11	33.9
	i		01 11	36.2
			micr	sec
	i	Z'	0.1	1.0
	Mx	E	1.2	12
	Mx	N	0.4	9
	Mx	Z	0.6	10
Sk	iP		01 12	06.7
	i		01 12	08.5
Um	iP		01 11	46.0
	i		01 11	48.5
Ud	iP		01 12	16.3
	i		01 12	18.1
De	iP		01 12	28.5

Yellow Sea (h = N).
Multiple event.
m = 5.8, M = 5.3 (Up,Ki).

" 6

Ki	iP		01 37	03.8
	iPP		01 38	50.3

(cont.)

1976
Oct. 6 (cont.)

Ud	iP		01 37	11.9

Pakistan (h = 50 km).

" 6

Up	iP		08 24	18.3
Ki	iP		08 23	44.2
Sk	eP		08 24	14
Um	iP		08 23	58.8
Ud	iP		08 24	25.3
De	iP		08 24	38.3

Japan (h = 470 km).

" 6

Up	iSgl		11 36	37.0
Ud	iSgl		11 36	13.0

" 6

Up	iP		13 50	02.6	
	ipP		13 50	22.3	
	iPP		13 52	38.3	
	iS		13 59	23	
			micr	sec	
	P	Z'	0.2	1.1	
	Mx	N	0.8	15	
	Mx	Z	1.5	22	
Ki	iP		13 49	23.5	C
	ipP		13 49	43.5	
	iPP		13 51	46.6	
			micr	sec	
	P	Z'	0.1	1.2	
	pP	Z'	0.1	1.2	
	PP	Z'	0.2	1.9	
	Mx	E	0.7	13	
	Mx	N	1.9	19	
	Mx	Z	1.9	20	
Sk	iP		13 49	56.7	C
	ipP		13 50	16.4	
	iPP		13 52	29.2	
Um	iP		13 49	40.5	C
	ipP		13 50	00.6	
	iPP		13 52	09.1	
	iS		13 58	41	
Ud	iP		13 50	09.9	C
	ipP		13 50	29.5	
	iPP		13 52	51.9	
De	iP		13 50	24.8	
	iPP		13 53	09.6	

Japan.
h = 80 km (Up,Ki,Sk,Um,Ud).
m = 5.8, M = 5.3 (Up,Ki).

" 6

Up	iPKPl		18 36	30.3
Um	iPKPl		18 36	15.8
Ud	iPKPl		18 36	29.0

" 7

Ud	iRg		01 20	34.8

Regional near-surface event.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Oct.	7	Up	iP	04 46 55.7	
			ipP	04 47 45.3	
		Ki	iP	04 46 26.5	C
				micr sec	
			P Z'	0.1 0.5	
		Sk	iP	04 46 52.6	
		Um	iP	04 46 38.9	C
			ipP	04 47 26.9	
		Ud	iP	04 47 01.8	
			ipP	04 47 51.3	
		De	iP	04 47 13.5	
		Volcano Islands.			
		h = 200 km (Up,Um,Ud).			
"	7	Up	iPKPl	05 28 29.1	
		Sk	iPKPl	05 28 24.0	
		Um	iPKPl	05 28 19.4	
		Ud	iPKPl	05 28 31.3	
			i	05 28 43.4	
"	7	Up	i(P)	05 47 47.2	
"	7	Up	iPKP2	07 29 52.6	
		Ki	iPKPl	07 29 24.3	
		Sk	iPKPl	07 29 40.7	
		Um	iPKPl	07 29 35.1	D
		Ud	iPKPl	07 29 47.9	D
			iPKP2	07 29 56.0	
		Kermadec Islands (h = 430 km).			
"	7	Ki	eP	07 41 10	
		Um	iP	07 40 50.1	
		Ud	iP	07 40 21.1	
		South Atlantic Ocean (h = N).			
"	7	Ud	iP	07 43 27.1	
		South Atlantic Ocean (h = N).			
"	7	Up	iP	07 44 34.6	
		Ki	iP	07 45 18.6	
		Sk	iP	07 44 48.3	
		Um	iP	07 44 59.8	
		Ud	iP	07 44 30.1	
		South Atlantic Ocean (h = N).			
"	7	Ki	iP	10 06 19.0	
		Sk	iP	10 05 48.5	
		Um	iP	10 06 00.0	
		Ud	iP	10 05 30.6	
		South Atlantic Ocean (h = N).			
"	7	Ki	iP	10 15 33.3	
		Sk	iP	10 15 02.6	
		Um	iP	10 15 14.0	
		Ud	iP	10 14 44.8	
		South Atlantic Ocean.			

1976 Oct.	7	Up	iSgl	17 11 30.5	
		Sk	iSgl	17 10 47.9	
		Ud	i	17 10 23.4	
			iSgl	17 10 27.9	
		De	eSgl	17 11 26	
		Southern Norway, 60.5°N, 7.4°E.			
		Origin time = 17 08 48.			
		M_L = 2.0 (Ud).			
		By combination with Bergen and Kongsberg readings.			
"	8	Ud	iP	01 17 25.5	
			i	01 17 33.6	
		Ionian Sea (h = N).			
"	8	Up	iPKPl	01 59 56.6	
		Um	iSKPl	02 02 37.7	
		Ud	iPKPl	01 59 58.7	
		Tonga-Kermadec Islands (h = 570 km).			
"	8	Ki	ipP	09 32 23.5	
		Komandorsky Islands (h = 35 km).			
"	8	Ud	iP	14 49 15.6	
			i	14 49 18.0	
		Kurile Islands (h = 70 km).			
"	8	Up	ipP	17 17 28.9	
			i	17 17 49.8	
				micr sec	
			i Z'	0.1 1.1	
		Ki	iP	17 18 14.7	
			ipP	17 18 21.0	
			iPP	17 19 20.6	
				micr sec	
			pP Z'	0.1 0.9	
			PP Z'	0.1 1.2	
		Ud	ipP	17 17 46.7	
			i	17 18 13.4	
		De	ipP	17 17 23.3	
		Turkey.			
		m = 25 km (Ki).			
"	8	Ud	iSgl	17 32 27.5	
		Southern Norway.			
		By combination with Bergen and Kongsberg readings			
"	8	Ud	iP	20 51 37.6	
"	8	Up	iPl	21 17 35.9	C
			iP2	21 17 38.0	
			iS	21 27 38	
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Oct. 8 (cont.)

Up			micr	sec
	P2	Z'	0.2	1.0
	Mx	E	2.5	15
	Mx	N	3.4	16
	Mx	Z	5.4	14
Ki	iP1		21 17 15.5	C
	iP2		21 17 17.5	
	ipP2		21 17 34.1	
			micr	sec
	P2	Z'	0.3	1.3
	Mx	E	3.3	19
	Mx	N	2.8	15
	Mx	Z	3.0	15
Sk	iP2		21 17 43.4	
Um	iP1		21 17 22.3	C
	iP2		21 17 24.5	
	ipP2		21 17 41.5	
	iS		21 27 13	
Ud	iP1		21 17 45.8	
	iP2		21 17 47.2	
De	iP2		21 17 54.6	

Luzon.
h = 60 km (Ki,Um).
m = 6.0, M = 5.9 (Up,Ki).

" 9

Up	iP1	03 03 30.1
	iP3	03 03 33.6
	i	03 03 40.3
	i	03 03 49.5
	i	03 04 04.9
Ki	iP2	03 02 43.4
	iP3	03 02 45.7
		micr sec
	P3 Z'	0.1 0.8
Um	iP1	03 03 03.7
	iP2	03 03 05.4
	iP3	03 03 07.8
Ud	iP1	03 03 35.2
	iP3	03 03 39.2
	i	03 03 46.3
De	iP3	03 03 57.2

Kurile Islands (h = 35 km).
Multiple event.
In average P2 - P1 = 1.7 s,
P3 - P1 = 3.9 s.

" 9 Um iP 03 50 24.7

" 9 Ud iSgl 05 53 21.1
Off coast of southwest Norway,
near 66 1/4°N, 3 1/2°E.
Origin time = 05 50 40.
By combination with Bergen
and Kongsberg readings.

1976 Oct. 9

Up	iP1	06 22 29.3
	iP2	06 22 32.0
Ki	iP1	06 22 15.5
	iP2	06 22 18.1
	i	06 22 41.5
Um	iP2	06 22 20.4

Yunnan, China (h = N).
Multiple event.

" 9

Ki	iP	07 53 39.2
Um	iP	07 53 30.3
Ud	iP	07 53 51.2
De	iP	07 53 49.1

Tadzhik SSR (h = 160 km).

" 9

Up	iSgl	09 28 56.0
Ki	iPgl	09 25 30.2
	iSgl	09 25 56.1
Sk	i	09 26 55.4
	iSgl	09 27 05.2
Um	iPn	09 26 00.8
	iSn	09 26 48.3
	iSgl	09 27 06.7
Ud	eSn	09 28 09
	iSgl	09 28 53.1
De	eSgl	09 30 43

Coast of Nordland, Norway,
67.5°N, 15.2°E.
Origin time = 09 24 55.
M_L = 2.8 (Up,Ki,Sk,Um,Ud).
Felt.
By combination with Tromsoe
reading.

" 9 Ud iP 10 51 54.8

" 9 Ud iP 11 01 14.7

" 9

Up	iS		12 54 18
			micr sec
	Mx	E	1.2 20
	Mx	N	1.5 21
Ki			micr sec
	Mx	E	2.9 21
	Mx	N	1.0 16
	Mx	Z	2.8 16
Um	iP		12 43 55.1
Ud	iP		12 43 45.6
De	iP		12 43 50.3

Costa Rica (h = 90 km).
M = 5.6 (Up,Ki).

" 9

Ki	eP	16 15 06
Sk	iP	16 14 53.1

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 9 (cont.)

Um	iP	16 15 10.0	

Panama (h = N).
P-arrivals are about 9 s late when related to the NEIS solution.

" 9	Um	iP	19 36 18.8	
		il	19 36 21.4	
	Ud	il	19 36 02.4	

Turkey (h = 5 km).
If phases denoted il are interpreted as ipP a focal depth of 10 km (Um) is yielded.

" 9	Up	ipP	22 22 11.9	
	Ki	iP	22 21 48.1	
		ipP	22 21 55.9	
		i	22 22 35.9	
		iPP	22 25 34.4	
			micr sec	
		i	Z' 0.1 1.1	
	Sk	ipP	22 22 17.4	
	Um	iP	22 21 52.8	
		ipP	22 22 01.6	
	Ud	iP	22 22 12.2	
		ipP	22 22 20.4	
		iPP	22 26 03.9	
	De	ipP	22 22 25.8	
		i	22 22 37.2	

Celebes Sea.
h = 25 km (Ki,Um,Ud).

" 10	Ud	iP	00 00 46.4	
" 10	Up	iP	03 09 56.5	
		iPcP	03 10 23.7	
	Um	iP	03 09 31.3	
	Ud	iP	03 10 02.3	
		ipP	03 10 11.8	
		iPcP	03 10 29.6	

Kurile Islands.
h = 30 km (Ud).

" 10	Ki	iPKP	03 13 09.1	
	Um	iPKP	03 13 12.6	
	Ud	ePKP	03 13 22	
	De	iPKP	03 13 28.4	

New Hebrides Islands
(h = 20 km).

" 10	Up	iP	14 17 34.9	
	Ki	iP	14 16 49.5	
	Um	iP	14 17 10.6	

(cont.)

1976
Oct. 10 (cont.)

Ud	iP	14 17 41.1		
	i	14 17 46.4		

Kurile Islands (h = N).

" 10	Up	iP	14 43 06.4	C
		ipP	14 43 17.4	
			micr sec	
		P	Z' 0.2 1.6	
	Ki	iP	14 42 21.3	C
	Sk	iP	14 42 57.0	
	Um	iP	14 42 41.6	C
		ipP	14 42 52.9	
	Ud	iP	14 43 12.4	C
		i	14 43 14.8	
		ipP	14 43 24.0	
	De	iP	14 43 31.2	

Kurile Islands.
h = 40 km (Up,Um,Ud).

" 10	Ud	iP	14 49 30.7	
" 10	Up	i	17 16 56.9	
		iRg	17 17 00.5	
	Ud	i	17 17 14.3	
		i(Sgl)	17 17 17.5	
		iRg	17 17 26.6	
	De	iSgl	17 18 43.1	

East-central Sweden.
Near-surface event.

" 10	Up	iPKPl	22 47 52.0	
	Ud	iPKPl	22 47 54.1	C
	De	iPKPl	22 48 04.1	
" 10	Ud	iP	22 50 46.8	
" 11	Ud	iP	00 10 14.6	

Hindu Kush (h = 110 km).

" 11	De	iP	03 34 28.4	
" 11	Sk	iP	05 23 34.0	
	Ud	iP	05 22 58.5	
	De	iP	05 22 22.6	
" 11	Ud	iP	05 35 58.0	
" 11	Up	iP	06 42 15.7	
		ipP	06 42 24.1	
			micr sec	
		P	Z' 0.1 1.0	
		pP	Z' 0.2 1.1	
	Ki	iP	06 42 17.8	
		ipP	06 42 26.2	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 11 (cont.)

Ki			micr	sec
	P	Z'	0.1	1.2
	pP	Z'	0.2	1.0
Sk	iP		06 42 32.6	
	ipP		06 42 41.1	
Um	iP		06 42 14.3	
	ipP		06 42 22.6	
Ud	iP		06 42 26.6	
	ipP		06 42 35.3	
	iPP		06 45 13.1	
De	iP		06 42 25.2	
	ipP		06 42 34.2	
	iPP		06 45 35.2	

Sumatra.
h = 30 km (Up,Ki,Sk,Um,Ud,De).
m = 6.1 (Up,Ki).

" 11 De iP 16 43 22.8
Colombia (h = 35 km).

" 11

Ud	iPKPl	21 21 16.8
	i	21 21 19.0
	i	21 21 22.3
De	iPKPl	21 21 26.0
	i	21 21 30.3

Fiji Islands (h = 400 km).

" 11

Up	iP	21 56 41.0
Ki	iP	21 56 35.7
Ud	iP	21 56 57.6

Sinkiang, China (h = 60 km).

" 11 Ud iP 22 41 39.4

" 11 Ud iP 23 39 13.0
Iran (h = 55 km).

" 11 Ud iP 23 40 10.1

" 12

Up	iPKP	00 59 37.6
	i	01 00 10.6
Ki	iPKP	00 59 24.0
	ipPKP	00 59 53.7
	i	00 59 57.8
Sk	ePKP	00 59 36
	ipPKP	01 00 03.6
	i	01 00 09.2
Um	iPKP	00 59 29.7
	ipPKP	00 59 58.3
	i	01 00 03.8
Ud	iPKP	00 59 39.9
	ipPKP	01 00 08.7
	i	01 00 13.1

(cont.)

1976
Oct. 12 (cont.)

De	iPKP	00 59 46.1 C
	ipPKP	01 00 14.1
	i	01 00 18.6

Solomon Islands.
h = 100 km (Ki,Sk,Um,Ud,De).

" Ud iP 01 28 40.1
i 01 28 45.9

" 12 Ud iP 04 31 03.6
Sicily (h = 55 km).

" 12

Up	iP	04 36 52.4
Ki	iP	04 36 16.2
	iPcP	04 36 35.8
Um	iP	04 36 31.8
Ud	iP	04 36 58.9
	i	04 37 11.1

Japan (h = 30 km).

" 12

Up	iP		05 22 03.0	C
Ki	iP		05 22 12.6	C
			micr	sec
	P	Z'	0.1	0.8
Um	iP		05 22 01.7	C
Ud	iP		05 22 19.6	C
De	iP		05 22 15.3	C

Hindu Kush (h = 220 km).

" 12 Ud iP 08 18 02.4

" 12

Up	iP		15 30 09.9	
			micr	sec
	Mx	N	5.0	20
Ki	iP		15 30 00.5	
			micr	sec
	P	Z'	0.1	1.4
	Mx	N	2.6	16
Ud	iP		15 30 23.8	
	i		15 30 32.2	

Burma-China (h = N).
M = 5.6 (Up,Ki).

" 13

Up	i	02 55 24.7
	iLgl	02 55 54.0
Ki	iP	02 53 32.7
Um	iP	02 52 50.9
	iLgl	02 57 56.2
	iLg2	02 58 20.3
Ud	iLgl	02 55 55.5
De	iP	02 51 09.1
	i	02 51 16.7
	iLgl	02 53 58.9
	iLg2	02 54 11.5

Austria (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Oct.	13	Ki	iP	06 32 03.6	
		Ud	iP	06 32 11.2	
		Hindu Kush (h = 100 km).			
"	13	Ud	i(P)	15 57 25.1	
"	13	Ki	iP	17 47 39.2	
			ipP	17 47 56.1	
		Ud	iP	17 47 23.4	
		Trinidad.			
		h = 60 km (Ki).			
"	13	Ud	iP	18 41 06.8	
"	14	Up	iP	03 28 15.5	
		Ki	iP	03 27 52.5	
		Um	iP	03 28 00.3	
			i	03 28 25.5	
		Ud	iP	03 28 31.2	
		De	iP	03 28 40.7	
		Mongolia (h = N).			
"	14	Um	iP	07 58 24.8	
"	14	Ud	iP	09 46 32.1	
"	14	Ud	iP	14 21 58.2	
"	14	Ki	i(P)	17 36 33.2	
		Sk	i(P)	17 36 41.3	
		Um	i(P)	17 37 03.7	
"	14	Ud	iPKPl	22 00 03.5	D
		Tonga-Kermadec Islands			
		(h = 540 km).			
"	15	Up	iP	10 58 03.4	
			iS	11 00 26.7	
			iLg2	11 02 00.3	
		Ki	iS	11 03 23.4	
			iLg2	11 05 40.2	
		Sk	i	11 02 35.9	
			iLg2	11 04 22.6	
		Um	iP	10 58 47.2	
			iS	11 01 42.9	
			iLg2	11 03 37.0	
		Ud	iP	10 58 18.1	
			iS	11 00 55.3	
			iLg2	11 02 45.3	
		De	iLg2	11 01 26.8	
		Romania-USSR.			
		Origin time = 10 55 00 .			
"	15	Ud	iP	14 55 58.9	

1976 Oct.	15	Ki	iP		16 46 00.7	
					micr	sec
			P	Z'	0.1	0.7
"	15	Up	ipP		16 59 47.3	
			iS		17 09 18	
					micr	sec
			pP	Z'	0.1	1.0
			Mx	E	4.8	16
			Mx	N	12	16
			Mx	Z	10	16
		Ki	iP		16 59 12.8	
			ipP		16 59 20.1	
					micr	sec
			P	Z'	0.1	1.5
			pP	Z'	0.1	0.9
			Mx	E	4.7	19
			Mx	N	6.3	15
			Mx	Z	3.9	14
		Sk	ipP		16 59 49.0	
		Um	ipP		16 59 30.4	
			iS		17 08 47	
		Ud	ipP		16 59 56.9	
		Formosa.				
		h = 25 km (Ki).				
		m = 5.8, M = 6.2 (Up,Ki).				
"	15	Sk	iPKPl		19 42 00.3	
		Um	iPKPl		19 41 54.3	
		Ud	iPKPl		19 42 06.5	
		South of Kermadec Islands				
		(h = 55 km).				
"	15	Up	iP		23 10 41.9	
					micr	sec
			P	Z'	0.1	1.0
			Mx	N	1.5	22
		Ki	iP		23 11 19.3	C
			ipP		23 11 22.2	
					micr	sec
			P	Z'	0.2	1.0
			Mx	E	1.2	15
			Mx	N	1.6	20
		Sk	iP		23 11 17.0	
			ipP		23 11 19.4	
		Um	iP		23 10 55.3	
			ipP		23 10 58.0	
		Ud	iP		23 10 56.8	
			ipP		23 10 59.3	
			iPP		23 12 38.7	
		De	iP		23 10 40.0	
			ipP		23 10 42.6	
		Iran.				
		h = 10 km (Ki,Sk,Um,Ud,De).				
		m = 5.7, M = 5.0 (Up,Ki).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Oct.	15	Ud	eP	23 46 00	
"	16	Up	iP	01 18 51.6	
		Ki	iP	01 18 21.9	
		Um	iP	01 18 34.5	
		Ud	iP	01 18 58.3	
		Volcano Islands (h = 110 km).			
"	16	Um	iP	04 15 27.5	
"	16	Up	i(PcP)	07 23 48.8	
				micr	sec
			(PcP) Z'	0.1	1.1
		Ki	i(PcP)	07 23 44.0	
		Ud	iP	07 23 35.1	
			i(PcP)	07 24 01.3	
		Burma-China (h = N).			
"	16	Ki	iP	08 55 54.7	
		Halmahera (h = 210 km).			
"	16	Ud	iP	10 49 25.6	
		Japan (h = 460 km).			
"	16	Ud	iP	17 48 17.9	
		Iran-Iraq (h = 70 km).			
"	16	Up	iP	23 16 46.4	
				micr	sec
			P Z'	0.1	0.9
		Ki	iP	23 15 53.3	
		Ud	iP	23 16 46.7	
		Aleutian Islands (h = N).			
"	16	Up	iP	23 34 25.3	
		Sk	iP	23 34 39.4	
		Ud	iP	23 34 38.6	
		Tibet (h = N).			
"	17	Ud	iP	00 27 21.0	
			i	00 27 23.3	
		Greece (h = N).			
"	17	Ud	iP	00 32 25.0	
			i	00 32 26.5	
		Greece (h = 20 km).			
"	17	Ki	iP	03 32 33.2	
		Ud	iP	03 32 36.2	
		De	iP	03 32 31.9	
		Uzbek SSR (h = N).			
"	17	Up	iP	04 10 48.4 C	
				micr	sec
			P Z'	0.1	1.0
		(cont.)			

1976 Oct.	17	(cont.)			
		Ki	iP	04 09 56.0 C	
		Ud	iP	04 10 49.4 C	
		Aleutian Islands (h = 30 km).			
"	17	Up	iP	05 08 23.0	
		Ki	iP	05 08 08.3	
		Sk	iP	05 08 37.4	
		Ud	iP	05 08 37.4	
		De	iP	05 08 44.7	
		Sinkiang, China (h = N).			
"	17	Up	iP	06 18 01.9	
		Ki	iP	06 18 10.8 C	
				micr	sec
			P Z'	0.1	0.6
		Sk	iP	06 18 27.4 C	
		Um	iP	06 18 00.4	
		Ud	iP	06 18 18.4 C	
			ipP	06 19 02.9	
		De	iP	06 18 14.9	
		Hindu Kush.			
		h = 210 km (Ud).			
"	17	Ki	e(P)	06 38 45	
			i	06 39 42.3	
"	17	Um	iPKPl	07 06 25.0	
		Ud	iPKPl	07 06 37.4	
"	17	Um	iPKPl	07 17 43.9	
		Ud	iPKPl	07 17 55.6	
"	17	Ud	iP	07 47 39.6	
		Afghanistan-USSR (h = 120 km).			
"	17	Ki	iP	11 41 18.4 C	
				micr	sec
			P Z'	0.3	2.3
		North of Svalbard (h = 10 km).			
"	17	Ud	iP	19 36 24.0	
		Turkey.			
"	18	Ki	iP	00 45 06.0	
				micr	sec
			P Z'	0.1	1.0
		Sk	iP	00 45 34.5	
		Alaska (h = 130 km).			
"	18	Up	iPKPl	01 11 43.7	
				micr	sec
			PKPl Z'	0.1	0.9
		Ki	ePKPl	01 11 23	
		Sk	iPKPl	01 11 38.1	
		(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 18 (cont.)

Sk	i		01 11 52.3	
Um	iPKPl		01 11 33.3	C
Ud	iPKPl		01 11 44.7	
	i		01 12 00.4	

South of Kermadec Islands (h = N).

" 18	Ud	iP		03 59 21.9
" 18	Up	iP1		10 27 25.8
		iP2		10 27 27.1
				micr sec
		Mx	E	1.5 10
	Ki	iP1		10 28 03.6
		iP2		10 28 04.8
		i		10 28 19.5
		iPP		10 29 40.3
				micr sec
		P2	Z'	0.1 0.9
		PP	Z'	0.1 1.1
		Mx	E	0.9 15
		Mx	N	1.8 20
	Sk	i		10 28 06.7
	Um	iP1		10 27 40.2
		iP2		10 27 41.4
	Ud	iP1		10 27 40.0
		iP2		10 27 41.1
	De	iP1		10 27 24.1
		iP2		10 27 25.7

Iran (h = 20 km).
Double P. In average P2 - P1 = 1.3 s.
M = 4.9 (Up.Ki).

" 18	Up	iPKPl		12 23 00.7
		i		12 23 04.3
	Sk	iPKPl		12 22 54.3
	Um	iPKPl		12 22 46.4
	Ud	iPKPl		12 23 00.1
	De	iPKPl		12 23 08.5

Kermadec Islands (h = 100 km).

" 18	Ki	iP		16 01 14.3
" 18	Ud	e(P)		18 34 58
" 18	Ud	iPKPl		20 46 15.8
	De	iPKPl		20 46 27.4

Fiji Islands (h = 500 km).

" 18	Um	iP		21 08 38.4
	Ud	iP		21 08 54.5

Uzbek SSR (h = N).

1976
Oct. 19

Up	ePKPl			09 45 29
	i			09 45 38.8
				micr sec
	i		Z'	0.9 1.1
Sk	iPKPl			09 45 21.8
	i			09 45 33.8
Um	iPKPl			09 45 16.4
Ud	iPKPl			09 45 29.8

Kermadec Islands (h = 40 km).

" 19	Ud	iP		11 43 50.7
" 19	Ud	iP		11 48 56.6
" 19	Ud	iP		12 42 27.6
		i		12 42 47.2
" 19	Up	iPKPl		13 13 35.0
	Ki	iPKP		13 13 29.8
	Ud	iPKPl		13 13 37.0
	De	iPKPl		13 13 46.2

Fiji Islands (h = 600 km).

" 19	Ud	iP		15 41 02.8
" 19	Up	iP		17 53 18.3
		i1		17 53 28.4
		i2		17 53 37.3
				micr sec
		P	Z'	0.2 1.3
	Ki	iP		17 52 42.1
		i2		17 53 01.2
				micr sec
		i2	Z'	0.1 1.0
	Sk	iP		17 53 14.2
	Um	iP		17 52 57.8
		i1		17 53 07.9
	Ud	iP		17 53 25.9
		i2		17 53 44.5
	De	i1		17 53 50.9

Japan (h = 70 km).
Phases i1 interpreted as ipP yield a focal depth of 35 km (Up,Um). Phases i2 interpreted as ipP yield a focal depth of 70 km (Up,Ki,Ud).

" 19	Um	iP		23 14 25.5
	Ud	iP		23 14 18.3

Turkey (h = N).

" 20	Up	iPKPl		00 29 30.1
		iPKP2		00 29 38.3
	Ki	iPKPl		00 29 10.7

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 20 (cont.)

Sk	iPKP2	00 29 28.8	
Um	iPKP1	00 29 20.2	
	i	00 29 36.6	
Ud	iPKP1	00 29 31.8	
	iPKP2	00 29 41.2	

South of Kermadec Islands
(h = 5 km).

" 20	Sk	ePKP1	02 08 57
	Um	iPKP1	02 08 51.1
	Ud	iPKP1	02 09 04.8
	De	ePKP1	02 09 14
" 20	Um	iPKP1	05 09 14.5
	Ud	iPKP1	05 09 28.5
" 20	Up	iP	08 04 26.4
		i	08 04 33.2
		iS	08 08 00.6
			micr sec
		P Z'	0.1 0.9
		i Z'	0.1 0.8
	Ki	iP	08 02 55.0
		iS	08 05 11.3
			micr sec
		P Z'	0.1 0.6
	Sk	iP	08 04 04.7
		i	08 04 10.3
		iS	08 07 18.3
	Um	iP	08 03 34.0
		iPP	08 03 43.4
		iS	08 06 16.0
	Ud	iP	08 04 37.0
		iS	08 08 29.9
	De	iP	08 05 07.8
		i	08 05 13.7
		iPP	08 05 37.2
		i	08 09 40.8

Novaya Zemlya.
Underground explosion.
m = 5.7 (Up,Ki).

" 20	Up	iP	10 44 42.7
		isP	10 45 26.0
	Ki	iP	10 44 46.3
		ipP	10 45 11.8
		isP	10 45 28.2
			micr sec
		P Z'	0.1 0.8
	Sk	iP	10 45 06.2
		ipP	10 45 32.2
		i	10 45 43.8
	Um	iP	10 44 38.4

(cont.)

1976
Oct. 20 (cont.)

Um	ipP	10 45 03.8	
Ud	iP	10 44 59.5	
	ipP	10 45 24.2	
De	iP	10 44 58.4	
	ipP	10 45 26.4	
	isP	10 45 40.7	

Tadzhik-Sinkiang.
h = 120 km (Up,Ki,Sk,Um,Ud,De).

" 20	Up	iP	11 52 04.9
	Ki	iP	11 51 11.3
	Sk	iP	11 51 38.1

Kodiak Islands (h = 20 km).

" 20	Sk	eSgl	14 01 24
	Ud	i	14 00 19.5
		iSgl	14 00 58.2
" 20	Sk	ePgl	15 38 03
	Ud	iSgl	15 38 40.6

Southern Norway.
By combination with Bergen readings.

" 20	Ud	i(P)	15 58 08.9
" 20	Sk	ePKP	18 50 23

Loyalty Islands (h = 25 km).

" 20	Um	iP	22 28 14.1
" 21	Ki	iP	01 21 28.6
" 21	Ud	iP	02 58 17.7
" 21	Up	iPKP2	04 08 28.5
	Sk	iPKP2	04 08 18.9
	Um	iPKP1	04 08 10.8
	Ud	iPKP1	04 08 22.8
		i	04 08 36.7

South of Kermadec Islands
(h = 30 km).

" 21	Up	iP	12 53 24.1
		il	12 53 50.7
	Ki	iP	12 54 30.3
		i	12 54 48.5
	Sk	iP	12 54 03.4
		il	12 54 30.4
		i	12 54 49.5
	Ud	iP	12 53 32.3
		il	12 53 58.4
	De	iP	12 53 00.7

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 21 (cont.)

De	i	12 53 20.1	

Dodecanese Islands
(h = 100 km).
Phases il interpreted as
ipP yield a focal depth
of 130 km (Up,Sk,Ud).

" 21	Up	iP	13 34 28.5	
	Ki	iP	13 33 51.9	
	Sk	iP	13 34 23.7	
	Um	iP	13 34 07.9	
	Ud	iP	13 34 35.3	
	De	iP	13 34 49.0	

Japan (h = N).

" 21	Up	iP	15 05 32.1	C
		i	15 06 09.2	
			micr sec	
		P Z'	0.1 1.0	
	Ki	iP	15 04 38.6	C
		i	15 05 16.1	
			micr sec	
		P Z'	0.2 1.0	
	Sk	iP	15 05 09.0	C
		i	15 05 54.7	
	Um	iP	15 05 05.4	C
	Ud	iP	15 05 31.2	C
	De	iP	15 05 54.1	C

Aleutian Islands (h = 35 km).
m = 6.0 (Up,Ki).

" 21	Ki	iP	15 23 22.5
	Sk	iP	15 23 52.2
	Um	iP	15 23 48.7
	Ud	iP	15 24 14.6
	De	iP	15 24 37.0

Aleutian Islands (h = N).

" 21	Ud	iP	17 36 26.2
" 21	Ki	iSgl	17 48 43.4
" 21	Up	iRg	18 04 18.8
	Ud	iRg	18 03 55.0

Central Sweden.
Near-surface event.

" 22	Ki	iP	11 22 38.5
	Ud	iP	11 23 10.6

Luzon (h = N).

" 22	Up	i	11 28 14.1	
			micr sec	
		Mx E	1.7 10	

(cont.)

1976
Oct. 22 (cont.)

Ki			micr sec
	Mx	E	1.4 11
Sk	iP		11 28 40.0
	i		11 28 45.6
Um	i		11 28 48.0
Ud	iP		11 28 04.8
	i		11 28 08.5

Italy (h = 30 km).
M = 4.7 (Up,Ki).

" 22	Sk	iP	14 49 13.1
" 22	Up	iPKPl	16 38 23.2
		ipPKPl	16 38 52.5
	Ud	iPKPl	16 38 25.3 D
		i	16 38 34.4
		ipPKPl	16 38 53.3
	De	iPKPl	16 38 35.0

Tonga-Kermadec Islands.
h = 100 km (Up,Ud).

" 22	Up	iPKPl	16 50 54.8	
	Sk	iPKPl	16 50 48.1	
	Um	iPKPl	16 50 43.4	D
	Ud	iPKPl	16 50 57.2	D
	De	iPKPl	16 51 05.5	D

Kermadec Islands (h = 330 km).

" 22	Up	iP	18 45 59.1	C
		i	18 45 59.9	
		ipP	18 46 06.5	
	Ki	iP	18 45 05.3	C
		i	18 45 06.2	
		ipP	18 45 12.7	
		i	18 45 20.5	
	Sk	iP	18 45 32.4	C
		i	18 45 33.3	
		ipP	18 45 39.8	
		i	18 45 48.1	
	Um	ipP	18 45 40.6	
	Ud	iP	18 45 56.2	C
		i	18 45 57.0	
		ipP	18 46 03.9	
	De	iP	18 46 18.9	
		ipP	18 46 27.3	

Kodiak Island.
h = 25 km (Up,Ki,Sk,Ud,De).
Double P, average separation
0.9 s.

" 22	Ud	i(P)	18 51 19.8
" 22	Ud	iP	23 53 08.3

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Oct.	23	Ud	iPgl	06 57 09.2	
			iSgl	06 57 34.2	
			iRg	06 57 47.3	
		Regional near-surface event.			
"	23	Ud	iP	07 00 52.9	
"	23	Ud	iP	07 13 28.8	
		Iran (h = 25 km).			
"	23	Up	iP	08 35 55.1	
		Ki	iP	08 35 01.3	
				micr	sec
			P Z'	0.1	1.0
		Sk	iP	08 35 30.7	
		Um	iP	08 35 28.9	
		Ud	iP	08 35 53.6	D
		De	iP	08 36 16.5	
		Aleutian Islands (h = 190 km).			
"	23	Up	iRg	10 46 11.5	
		Ud	i(Sgl)	10 45 51.3	
			iRg	10 45 58.8	
		Central Sweden.			
		Near-surface event.			
"	23	Um	iP	11 16 56.0	
		Ud	iP	11 17 27.6	
		China (h = N).			
"	23	Up	iP	11 17 34.8	C
		Ki	iP	11 17 43.4	
		Um	iP	11 17 33.0	C
		Ud	iP	11 17 51.3	C
		De	iP	11 17 48.4	
		Hindu Kush (h = 260 km).			
"	23	Ud	iP	11 20 47.7	
		De	iP	11 20 15.6	
		Crete.			
"	23	Sk	eP	11 34 24	
		Ud	iP	11 33 53.1	
		De	iP	11 33 20.8	
		Crete (h = 45 km).			
"	23	Sk	eP	12 14 35	
		Ud	iP	12 14 02.6	C
		De	iP	12 13 30.3	
		Crete (h = 80 km).			
"	23	Ud	iPKP	16 12 11.6	
			ipPKP	16 12 38.0	
		De	iPKP	16 12 14.7	
		(cont.)			

1976 Oct.	23	(cont.)			
		De	ipPKP	16 12 43.4	
		New Ireland.			
		h = 100 km (Ud,De).			
"	23	Up	iP	16 18 46.0	
		Ki	iP	16 18 44.1	
		Ud	iP	16 19 00.7	
		Tibet (h = 60 km).			
"	23	Up	eP	22 10 14	
		Ki	iP	22 10 57.2	D
				micr	sec
			P Z'	0.1	1.5
		Sk	iP	20 10 25.8	D
			ipP	20 10 30.2	
		Um	iP	20 10 37.3	D
			ipP	20 10 42.4	
			iPcP	20 10 52.8	
		Ud	iP	20 10 07.6	D
			ipP	20 10 12.6	
		De	iP	20 09 48.1	
			ipP	20 09 53.5	
		South Atlantic Ocean.			
		h = 15 km (Sk,Um,Ud,De).			
"	23	Um	iP	22 50 13.2	
		Ud	iP	22 50 44.1	
"	23	Ki	iP	23 09 25.2	
		Um	iP	23 09 18.2	
		South Sandwich Islands (h = N).			
"	24	Ud	iPKP	00 32 21.5	
			i	00 32 51.5	
		Argentina (h = 45 km).			
"	24	Up	iP	02 18 19.3	C
			ipP	02 18 41.2	
			i	02 18 51.8	
				micr	sec
			P Z'	0.2	1.5
		Ki	iP	02 18 01.1	C
			ipP	02 18 21.0	
				micr	sec
			P Z'	0.1	1.3
		Sk	epP	02 18 46	
		Um	iP	02 18 07.4	C
			ipP	02 18 27.5	
		Ud	iP	02 18 27.8	C
			ipP	02 18 48.2	
		Samar.			
		h = 80 km (Up,Ki,Um,Ud).			
		m = 5.8 (Up,Ki).			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Oct.	24	Up	iP	02 48 25.4
			i	02 48 27.7
		Sk	i	02 48 29
		Um	iP	02 48 05.4
			i	02 48 07.7
		Ud	iP	02 48 35.5
			i	02 48 39.2
		De	iP	02 48 49.5
			i	02 48 51.4
		China (h = N).		
"	24	Ud	iP	05 16 57.6
		Mariana Islands (h = 140 km).		
"	24	Ud	iP	06 56 28.0
"	24	Up	iP	08 46 28.2
		Ki	iP	08 45 33.3
		Sk	iP	08 46 01.1
		Um	iP	08 46 02.0
		Ud	iP	08 46 25.1
		Kodiak Island (h = 60 km).		
"	24	Up	iP	09 47 35.7
		Ud	iP	09 47 50.7
		Sinkiang, China (h = N).		
"	24	Ud	eLgl	10 13 56
		Czechoslovakia (h = N).		
"	24	Um	iP	11 00 12.9
		Ud	iP	10 59 44.8
"	24	Up	iP	16 28 45.3
			i	16 28 46.6
				micr sec
			i Z'	0.1 0.9
		Ki	eP	16 29 17
			i	16 29 19.0
		Sk	eP	16 29 18
			i	16 29 19.4
		Um	iP	16 28 56.2
			i	16 28 57.6
		Ud	iP	16 29 00.6
			i	16 29 01.9
		De	iP	16 28 46.0
			i	16 28 47.4
		Iran (h = 50 km).		
		Double event.		
"	24	Up	il	17 29 39.7
			ipP	17 29 51.2
		Ki	il	17 28 42.5
			ipP	17 28 54.7
		(cont.)		

1976 Oct.	24	(cont.)		
		Sk	il	17 29 10.8
			ipP	17 29 23.0
		Um	iP	17 29 07.0
			il	17 29 12.1
			ipP	17 29 24.2
		Ud	il	17 29 36.5
			ipP	17 29 48.5
		Alaska.		
		h = 70 km (Um).		
		Phases denoted il are about 5 s late to be interpreted as P.		
"	24	Ud	iS	20 38 13.3
		De	eP	20 35 30
			iS	20 37 03.7
		Belgium (h = N).		
"	24	Up	iPKPl	20 39 38.2
			i	20 39 49.2
		Sk	iPKPl	20 39 30.7
			i	20 39 40.8
		Um	iPKPl	20 39 26.1
			i	20 39 41.8
		Ud	iPKPl	20 39 38.7
			iPKP2	20 39 45.4
		De	iPKP2	20 39 59.2
		Kermadec Islands (h = 10 km).		
"	24	Ud	iP	21 23 51.5
"	24	Um	iPKPl	23 09 02.0
		Ud	iPKPl	23 09 15.3
"	25	Ud	iPKPl	07 01 09.2
		Tonga-Kermadec Islands (h = 660 km).		
"	25	Up	iPn	08 40 34.6
			iPgl	08 40 38.4
			iSn	08 41 09.7
			iSgl	08 41 17.3
			i	08 41 26.1
		Ki	iPn	08 41 51.3
			i	08 41 53.1
			iSn	08 43 26.1
			i	08 43 58.2
			iSgl	08 44 14.9
		Sk	iPn	08 41 25.9
			i	08 41 55.5
			iSn	08 42 40.7
			iSgl	08 43 15.4
		Um	iPn	08 40 58.6
			i	08 41 01.2
		(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 25 (cont.)

Um	iPgl	08 41 11.9	
	i	08 41 43.4	
	iSn	08 41 55.9	
	iSgl	08 42 13.4	
Ud	iPn	08 41 01.9	
	i	08 41 03.1	
	i	08 41 05.6	
	iSn	08 42 00.1	
	iSgl	08 42 20.8	
De	iPn	08 41 12.6	
	i	08 41 14.0	
	i	08 41 18.1	
	iSn	08 42 17.7	
	i	08 42 23.6	
	iSgl	08 42 44.8	

Off coast of northwest Esthonia, 59.3°N, 22.9°E.
Origin time = 08 39 49.
M_L = 4.7 (Up,Ki,Sk,Um,Ud,De).
Felt.

" 25

Up	iP	09 44 59.7	
Ud	iP	09 45 07.2	

Greece (h = 20 km).

" 25

Up	eSgl	14 23 31	
Sk	iSgl	14 23 36.0	
Ud	iPgl	14 21 39.6	
	iSgl	14 22 34.0	
De	iSn	14 22 25.8	

Coast of southwest Norway, 58.4°N, 6.4°E.
Origin time = 14 20 26.
M_L = 2.3 (Ud).

" 25

Ud	iPKPl	17 28 19.2	
De	iPKPl	17 28 30.8	
	i	17 28 32.5	

" 25

Up	iP	22 02 57.7	D
		micr sec	
	P Z'	0.1 0.8	
Ki	iP	22 02 30.7	D
		micr sec	
	P Z'	0.1 0.8	
Sk	iP	22 02 59.0	D
Um	iP	22 02 40.9	D
Ud	iP	22 03 07.0	D

Ryukyu Islands (h = 120 km).
m = 5.6 (Up,Ki).

" 25

Up	iPKPl	22 46 28.0	
Ud	iPKPl	22 46 30.5	
De	iPKPl	22 46 40.2	

1976
Oct. 25

Ud	iP	23 21 32.8	

" 26

Up	iP	01 08 14.7	
Ki	iP	01 08 45.0	
Ud	iP	01 08 29.9	
De	iP	01 08 16.0	

Iran (h = 70 km).

" 26

Ud	eP	01 14 46	

Alaska (h = 190 km).

" 26

Ud	eP	05 48 28	

Albania (h = N).

" 26

Up	iP	06 10 37.1	
Ki	iP	06 09 49.5	C
		micr sec	
	P Z'	0.1 0.7	
Sk	iP	06 10 25.9	
Um	iP	06 10 11.3	C
Ud	iP	06 10 42.7	C
De	iP	06 11 01.7	

Kurile Islands (h = 120 km).

" 26

Ud	iP	09 26 34.0	

Japan (h = 70 km).

" 26

Ud	iP	09 41 47.1	

" 26

Up	iP	13 04 38.5	
	i	13 05 04.4	
	iPP	13 08 26.0	
	iS	13 15 46	
		micr sec	
	P Z'	0.1 1.0	
	i Z'	0.3 1.4	
	Mx E	1.9 24	
	Mx N	5.0 25	
	Mx Z	4.2 25	
Ki	iP	13 04 20.8	
		micr sec	
	P Z'	0.4 1.1	
	Mx E	5.4 25	
	Mx N	5.2 19	
Sk	eP	13 04 43	
	i	13 05 09.0	
Um	iP	13 04 28.5	
	i	13 04 47.4	
	iS	13 15 15	
Ud	iP	13 04 46.4	D
	i	13 05 10.0	
	i	13 08 59.1	
De	iP	13 04 51.7	
	iPP	13 08 49.3	

Mindanao (h = 90 km).
m = 6.4, M = 6.0 (Up,Ki).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Oct.					
26	Up	iPKP1	13 20 20.3		
		iPKP2	13 20 26.0		
		i	13 20 51.1		
			micr	sec	
		PKP2	Z' 0.1	0.9	
	Ki	iPKP	13 20 07.2		
	Sk	iPKP2	13 20 16.2		
	Um	iPKP1	13 20 09.2	D	
	Ud	iPKP1	13 20 21.7		
		iPKP2	13 20 28.6		
	De	ePKP1	13 20 30		
		iPKP2	13 20 42.3		
	Kermadec Islands (h = 45 km).				
" 26	Up	iP	13 27 35.2		
	Ud	iP	13 27 50.6		
" 26	Ud	iRg	19 15 07.8		
	Regional near-surface event.				
" 26	Up	iP	20 24 03.5		
	Ud	iP	20 24 06.1		
" 26	Ud	iP	20 54 27.6		
	Talaud Islands (h = 80 km).				
" 27	Up	iSgl	00 28 40.6		
	Ud	iPgl	00 27 40.7	C	
		iSgl	00 27 43.7		
	Värmland, Sweden.				
	Origin time = 00 27 36.				
" 27	Ud	iP	00 43 42.2		
	Greece (h = N).				
" 27	Ki	iP	03 44 59.5		
	Ud	iP	03 44 37.5		
	De	iP	03 44 22.7		
" 27	Up	iP	05 12 08.6		
	Ki	iP	05 11 49.6		
	Ud	iP	05 12 16.7		
	Talaud Islands (h = 80 km).				
" 27	Ud	iP	09 34 25.6		
	Crete (h = 60 km).				
" 27	Sk	iP	10 20 18.3		
	Um	iP	10 20 19.0		
	Ud	eP	10 19 44		
		i	10 20 01.5		
	Italy (h = N).				
	P-arrivals are about 11 s late when related to the NEIS solution.				

1976 Oct.					
27	Up	iPKP1	16 17 17.4		
			micr	sec	
		PKP1	Z' 0.1	1.0	
	Ki	iPKP	16 17 04.0		
	Sk	iPKP1	16 17 10.7		
	Um	iPKP1	16 17 05.5		
	Ud	iPKP1	16 17 19.1	C	
		i	16 17 54.8		
	Kermadec Islands (h = 90 km).				
" 27	Up	iPKP1	17 12 34.5		
	Ud	iPKP1	17 12 36.6		
	De	iPKP1	17 12 47.7		
	Tonga-Kermadec Islands (h = 330 km).				
" 27	Sk	iP	21 57 46.0		
	Ud	iP	21 58 12.6		
	Greenland Sea (h = 10 km).				
" 28	Up	eP	00 24 26		
	Ki	eP	00 24 06		
	Um	iP	00 24 11.1		
	Ud	iP	00 24 31.1		
	Mindanao (h = N).				
" 28	Ki	eP	01 19 21		
	Um	iP	01 19 36.2	C	
	Japan (h = N).				
" 28	Ud	i(P)	01 54 15.4		
" 28	Ud	iSgl	13 42 10.0		
	Southwestern Norway.				
	Origin time = 13 40 36.				
	By combination with Bergen and Kongsberg readings.				
" 28	Up	iP	14 17 19.3		
	Ki	eP	14 16 34		
	Um	iP	14 16 52.3		
	Ud	iP	14 17 24.9		
	Kurile Islands (h = N).				
" 28	Up	iP	14 26 17.2		
" 28	Ud	iP	14 49 34.6		
	Kurile Islands (h = N).				
" 28	Up	iP	18 19 33.3		
	Ud	iP	18 19 36.7		
" 28	Up	iP	20 48 02.7	C	
		i	20 48 03.5		
	(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 28 (cont.)

Ki	iP		20 47 13.4
Sk	eP		20 47 51
Um	iP		20 47 36.0 C
Ud	iP		20 48 07.9 C
	i		20 48 08.8
De	iP		20 48 27.8
	i		20 48 28.7

Kurile Islands (h = 140 km).

" 29

Up	iP		01 11 58.0
Ki	eP		01 11 22
Um	iP		01 11 36.9
Ud	iP		01 12 04.6

Japan (h = 40 km).

" 29

Up	iP		03 05 37.1
	i		03 05 41.6
	i		03 09 43.5
	iPP		03 10 10.1
	iS		03 17 44
	iPKKP		03 20 49.1
			micr sec
	i	Z'	0.1 1.0
	Mx	E	31 21
	Mx	N	47 19
	Mx	Z	86 21
Ki	iP		03 05 12.3
	iPP		03 09 32.9
	iSKS		03 15 52
	iS		03 17 03
	iPKKP		03 21 09.5
			micr sec
	P	Z'	0.1 1.0
	PP	Z'	0.7 2.8
	Mx	E	29 19
	Mx	N	36 18
	Mx	Z	32 23
Sk	i		03 05 41.9
	i		03 09 40.5
	i		03 09 48.0
	iPP		03 10 17.2
	iPKKP		03 20 48.3
Um	iP		03 05 20.7
	i		03 05 27.4
	i		03 09 39.0
Ud	iP		03 05 43.4
	i		03 05 46.8
	i		03 10 03.9
	iPP		03 10 21.5
	iPKKP		03 20 39.7
De	iP		03 05 52.0
	i		03 09 45.5
	iPP		03 10 37.1

(cont.)

1976
Oct. 29 (cont.)

De	ePKKP	03 20 38

West Irian (h = N).
m = 6.9, M = 7.1 (Up,Ki).

" 29

Ki	iP	04 09 29.4
Ud	iP	04 10 00.3

West Irian (h = 25 km).

" 29

Ki	i(pP)	05 01 34.4
Ud	i(pP)	05 01 36.2

Mexico (h = 35 km).

" 29

Sk	ePKPl	07 23 51

Kermadec Islands (h = N).

" 29

Ki	i(P)	08 34 47.6

" 29

Up	iP	15 24 09.9
Ki	iP	15 24 18.5
Um	iP	15 24 07.8
Ud	iP	15 24 26.3
De	iP	15 24 23.3

Afghanistan-USSR (h = 150 km).

" 29

Ud	iP	17 08 55.7

Windward Islands (h = 55 km).

" 29

Up	i(P)	19 51 39.3

" 30

Up	iP	00 55 17.9 C
Ki	iP	00 54 40.7
Sk	iP	00 55 12.8 C
Um	iP	00 54 56.5 C
	ipP	00 55 26.9
Ud	iP	00 55 24.9 C
De	iP	00 55 38.8 C

Japan.
h = 130 km (Um).

" 30

Ud	ipP	01 24 36.9

Hindu Kush (h = 220 km).

" 30

Ud	iP	01 42 28.6

Greece (h = 5 km).

" 30

Ud	iP	02 10 18.9

Tadzhik SSR (h = 25 km).

" 30

Ud	iP	03 25 41.0

" 30

Up	iP	03 26 34.3
Ud	iP	03 26 47.4

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Oct.	30	Up	iPKPl	04 04 03.2
		Sk	iPKPl	04 03 52.9
		Um	iPKPl	04 03 47.3
			i	04 03 51.7
		Ud	iPKPl	04 04 01.3
"	30	Up	eP	05 03 53
			i	05 04 40.9
		Ki	iP	05 03 37.2
		Sk	iP	05 04 08.3
		Um	iP	05 03 37.9
		Ud	iP	05 04 09.1
			iPn	05 05 17.9
		De	iPP	05 05 41.1
		Kazakh SSR.		
		Origin time = 04 57 00.		
		Underground explosion.		
"	30	Up	iP	07 05 48.6
		Ud	iP	07 05 54.3
"	30	Ud	iP	07 19 53.7
"	30	Up	iP	07 56 29.6 C
			i	07 56 34.5
		Sk	iP	07 56 41.7
			i	07 56 46.5
		Um	iP	07 56 15.4
		Ud	iP	07 56 43.3
			i	07 56 47.2
		De	iP	07 56 49.0
			i	07 56 53.7
		Tsinghai, China (h = 35 km).		
"	30	Ud	eP	08 08 21
		Ryukyu Islands (h = 70 km).		
"	30	Up	iPKP	08 25 28.1
			iSKPl	08 28 33.9
		Ki	iPKP	08 25 14.2 D
		Sk	iPKP	08 25 25.4
		Um	iPKP	08 25 20.7 D
		Ud	iPKP	08 25 30.7
			iSKPl	08 28 36.7
		De	iPKP	08 25 37.0 D
			iSKPl	08 25 47.7
		New Hebrides Islands (h = 200 km).		
"	30	Up	iP	08 55 54.3
		Ud	iP	08 56 00.1
"	30	Up	eP	09 36 56
			i	09 36 59.7
			il	09 37 02.2
		(cont.)		

1976						
Oct.	30	(cont.)				
		Up	iS		09 47 13	
					micr	sec
			il	Z'	0.1	1.0
			Mx	E	0.9	16
			Mx	N	1.6	18
			Mx	Z	1.6	20
		Ki	iP		09 36 57.2	D
			il		09 37 03.6	
			iS		09 47 17	
					micr	sec
			il	Z'	0.2	1.4
			Mx	E	1.5	20
			Mx	N	1.9	17
			Mx	Z	1.2	16
		Sk	i		09 37 15.6	
			i		09 37 19.9	
		Um	iP		09 36 53.2	D
			i		09 36 54.9	
			il		09 36 59.7	
		Ud	iP		09 37 06.6	
			i		09 37 11.4	
			il		09 37 13.0	
		De	iP		09 37 04.7	D
			i		09 37 07.8	
		Sumatra (h = 15 km).				
		m = 5.9, M = 5.5 (Up,Ki).				
		Phases il interpreted as ipP yield a focal depth of 20 km (Ki,Um,Ud).				
"	30	Ki	iP		16 06 57.3	
		Um	iP		16 07 02.3	
		Ud	iP		16 07 22.1	
		Talaud Islands (h = 90 km).				
"	30	Up	iP		16 13 24.0	
			i		16 13 50.7	
		Ki	iP		16 13 24.1	
		Sk	iP		16 13 40.6	
		Um	iP		16 13 19.5	
		Ud	iP		16 13 35.8	
		De	iP		16 13 34.7	
		Andaman Islands.				
		h = 100 km (Up).				
"	30	Ud	iP		18 52 15.7	
"	30	Ki	i		19 22 14.6	
		Ud	iP		19 22 27.8	
			ipP		19 22 35.3	
		De	iP		19 22 28.9	
		Kirgiz-Sinkiang.				
		h = 25 km (Ud).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976				
Oct.	30	Ki	iP	19 51 24.7
			ipP	19 51 35.2
		Sumatra.		
		h = 35 km (Ki).		
"	30	Ud	iP	21 00 22.5
"	30	Ud	iPKPl	21 04 26.6
		Fiji Islands (h = 270 km).		
"	30	Up	iPKP	22 40 01.8
		Ki	iPKP	22 39 48.2
		Sk	iPKP	22 39 59.0
		Um	iPKP	22 39 53.3
		Ud	iP	22 40 04.4
		De	iP	22 40 10.5
		Santa Cruz Islands		
		(h = 270 km).		
"	31	Ud	iP	02 10 06.9
"	31	Up	iP	09 04 24.3
			i	09 04 29.1
		Ki	iP	09 05 48.7
		Sk	eP	09 05 06
			i	09 05 13.2
		Ud	eP	09 04 31
			i	09 04 42.0
		De	iP	09 03 52.5
			i	09 04 04.6
		Greece (h = 30 km).		
"	31	Ki	iP	10 19 30.8
		Molucca Passage (h = N).		
"	31	Ki	iP	12 27 41.2
		Ud	iP	12 28 05.3
		Banda Sea (h = 80 km).		
"	31	Up	iP	12 41 03.0
		Ki	iP	12 40 19.5
		Um	iP	12 40 40.5
		Ud	iP	12 41 08.3
			i	12 41 17.2
		De	iP	12 41 27.2
			i	12 41 31.6
		Japan (h = 60 km).		
"	31	Ud	iP	12 47 05.1
			i	12 47 08.3
"	31	Ud	iP	14 30 17.1
"	31	Ud	iPKPl	14 47 28.0
		(cont.)		

1976				
Oct.	31	(cont.)		
		Ud	i	14 47 34.2
		South of Kermadec Islands		
		(h = 190 km).		
"	31	Up	iP	18 15 19.9
		Um	iP	18 15 02.3
		Ud	iP	18 15 27.0
"	31	Up	iP	18 46 44.7
		Ki	iP	18 46 35.4
		Ud	iP	18 46 57.3
		Burma (h = N).		
"	31	Up	Mx	19 51
				micr sec
			Mx E	1.2 20
			Mx N	1.1 20
			Mx Z	2.3 24
		Ki	Mx	19 45
				micr sec
			Mx E	1.6 24
			Mx N	1.4 23
			Mx Z	1.3 19
		New Britain (h = 80 km).		
		M = 5.6 (Up,Ki).		
"	31	Up	iP	19 33 39.6 C
			ipP	19 34 15.8
				micr sec
			P Z'	0.1 1.0
		Ki	iP	19 33 13.2
				micr sec
			P Z'	0.1 1.2
		Sk	iP	19 33 41.8
		Um	iP	19 33 23.0 C
		Ud	iP	19 33 48.8 C
			i	19 34 08.1
			ipP	19 34 27.2
		De	iP	19 33 58.9 C
		Formosa.		
		h = 150 km (Up,Ud).		
		m = 5.5 (Up,Ki).		
"	31	Ud	eP	19 51 50
"	31	Ki	iP	21 36 44.4
		Ud	i	21 36 58.7
		Sumatra (h = 55 km).		
"	31	Ki	i	21 44 23.3
			i	21 44 29.3
		Ud	i	21 44 31.4
		Sumatra (h = 80 km).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Oct. 31 Ud iP 22 37 58.8

Conny Holmqvist
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Klaus Meyer
Rutger Wahlström

May 24, 1978

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BOX 517
751 20 UPPSALA 1
SWEDEN

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BOX 517
S-751 20 UPPSALA
SWEDEN

S E I S M O L O G I C A L B U L L E T I N

U P P S A L A, K I R U N A, S K A L S T U G A N, U M E Å, U D D E H O L M and D E L A R Y

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

N O V E M B E R 1 - 30, 1976

1976
Nov. 1 Up iP 02 19 18.9
Ki iP 02 19 00.6
Sk eP 02 19 24
Um iP 02 19 06.4
Ud iP 02 19 27.5
Luzon (h = 210 km).

" 1 Ud iP 04 16 01.3
Japan (h = 60 km).

" 1 Ud iP 06 00 25.0

" 1 Ud iPKP 06 39 47.7
Tonga Islands (h = 40 km).

" 1 Up iPP 07 12 39
micr sec
Mx E 1.5 19
Mx N 1.9 21
Mx Z 3.8 19
Ki micr sec
Mx E 2.5 23
Mx N 2.2 22
Mx Z 3.9 23
Um iPP 07 12 15
New Britain (h = 55 km).
M = 5.8 (Up,Ki).

" 1 Ud iPKP1 11 52 25.0
i 11 52 28.7
Kermadec Islands (h = 15 km).

" 1 Ud eP 12 56 30
i 12 56 32.9

" 1 Ud eP 15 51 02

1976
Nov. 1 Ud iPKP2 18 13 03.8
De ePKP2 18 13 20
Kermadec Islands (h = 70 km).

" 1 Ud iP 20 38 18.5
Mindanao (h = 50 km).

" 1 Ud iP 20 09 57.7
Dodecanese Islands (h = 50 km).

" 1 Sk iP 21 26 04.4
Ud iP 21 26 22.6
De iP 21 26 31.7

" 1 Up ePKP1 23 59 03
Sk iPKP1 23 58 56.7
Um ePKP1 23 58 51
Ud iPKP1 23 59 04.8
De iPKP1 23 59 12.7
i 23 59 28.3
Kermadec Islands (h = 60 km).

" 2 Um iP 03 25 44.0

" 2 Um iPKP 04 56 46.0
South of Australia (h = N).

" 2 Sk i(P) 07 00 40.3
i 07 00 42.6

" 2 Up iP 07 27 05.7
iPP 07 31 13.3
micr sec
Mx E 2.5 15
Mx N 4.2 18
Mx Z 6.9 19
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 2 (cont.)

Ki	i(PP)		07 31 38.1		
	i		07 31 54.0		
			micr	sec	
	Mx	E	4.1	17	
	Mx	N	6.4	19	
	Mx	Z	5.1	17	
Sk	iPP		07 31 41.9		
	i		07 31 51.2		
Um	iPP		07 31 27.5		
Ud	iPP		07 31 23.0		

Mid-Indian Ocean (h = N).
M = 6.2 (Up,Ki).

" 2

Ki	iP		11 08 48.1		
Um	iP		11 08 28.4		
	i		11 08 32.9		
Ud	iP		11 07 58.5		C
De	iP		11 07 38.6		

Ascension Island (h = N).

" 2

Up	iP		15 04 21.0		
			micr	sec	
	P	Z'	0.1	1.0	
Ki	iP		15 03 37.4		
	iPP		15 05 11.0		
			micr	sec	
	PP	Z'	0.1	1.0	
Sk	iP		15 04 18.3		
Um	iP		15 03 54.9		
	iPP		15 05 39.9		
Ud	iP		15 04 32.5		C
De	iP		15 04 50.6		C

Lake Baikal (h = N).

" 2

Up	iP		19 33 53.0		
Ki	iP		19 33 05.1		
Um	iP		19 33 26.9		
Ud	iP		19 33 58.0		

Kurile Islands (h = 35 km).

" 2

Up	iP		19 40 50.5		D
	i		19 41 01.4		
			micr	sec	
	P	Z'	0.6	0.6	
Ki	iP		19 40 23.8		D
			micr	sec	
	P	Z'	0.9	1.2	
Sk	iP		19 40 52.5		
	i		19 41 02.7		
Um	iP		19 40 33.5		D
	i		19 40 39.6		
Ud	iP		19 40 59.9		
	i		19 41 19.9		

(cont.)

1976
Nov. 2 (cont.)

De	iP		19 41 09.8		

Formosa (h = 220 km).
m = 6.4 (Up,Ki).

" 2

Ki	iP		22 22 48.7		

" 3

Um	iP		04 10 51.2		D
Ud	iP		04 11 21.2		

Japan (h = 10 km).

" 3

Up	iP		05 51 42.8		C
Ki	iP		05 51 31.1		C
Um	iP		05 51 31.7		
Ud	iP		05 51 54.1		
	i		05 51 59.1		

Yunnan, China (h = 20 km).

" 3

Um	iP		08 33 24.6		

Philippine Islands (h = 40 km).

" 3

Up	iP		10 06 48.1		
			micr	sec	
	P	Z'	0.1	1.1	
Ki	iP		10 06 49.8		
			micr	sec	
	P	Z'	0.4	1.9	
Sk	eP		10 07 03		
Um	iP		10 06 45.6		
Ud	iP		10 06 59.5		
De	iP		10 06 57.1		

Sumatra (h = 20 km).
m = 5.9 (Up,Ki).

" 3

Ki	iP		11 09 12.3		
Um	ipP		11 09 11.8		
Ud	iP		11 09 21.8		
	ipP		11 09 25.3		

Sumatra (h = 15 km).

" 4

Ki	iP		10 53 15.5		

California (h = 5 km).

" 4

Ki	iP		11 30 27.4		
Sk	iP		11 31 02.6		
Um	iP		11 30 47.7		
Ud	iP		11 31 16.6		

Japan (h = 55 km).

" 4

Up	i(P)		12 45 14.3		

" 4

Ki	iP		14 10 35.9		

" 4

Ki	iPKP		17 02 44.4		

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 4 (cont.)

Ki	iSKPl		17 05 17.2	
Sk	iSKPl		17 05 33.0	
Um	iSKPl		17 05 28.4	C
Ud	iPKPl		17 02 53.4	
	iSKPl		17 05 41.4	
De	iPKPl		17 03 05.0	C

Fiji Islands (h = 590 km).

" 4	Up	iPKP	17 25 15.2	
	Ki	ePKP	17 25 03	
		iSKPl	17 27 47.7	
	Um	iPKPl	17 25 04.3	
		iSKPl	17 28 01.8	
	Ud	e(PKP)	17 25 11	
		iPKPl	17 25 12.8	
		iSKPl	17 28 12.1	
	De	iPKPl	17 25 23.2	

Fiji Islands (h = 460 km).

" 5	Up	iP		04 07 56.1	C
				micr	sec
		P	Z'	0.1	0.8
	Ki	iP		04 07 04.4	C
				micr	sec
		P	Z'	0.1	1.0
	Sk	iP		04 07 49.2	C
	Um	iP		04 07 25.9	
	Ud	iP		04 08 06.0	C
	De	iP		04 08 26.2	C

Central Siberia.
m = 5.6 (Up,Ki).
Underground explosion.

" 5	Ud	iP		06 41 06.0

Kurile Islands (h = 35 km).

" 5	Up	iP		20 22 26.1
	Ud	iP		20 22 19.8
" 6	Up	e(P)		04 43 29
				micr sec
		(P)	Z'	0.1 1.2
" 6	Up	iP		04 54 06.9
	Ki	iP		04 53 57.9
	Ud	iP		04 54 20.4 C

Burma (h = 70 km).

" 6	Ki	iP		07 30 09.3	C
				micr	sec
		P	Z'	0.1	1.2
	Um	iP		07 30 54.0	

Svalbard (h = N).

1976
Nov. 6

Up	iP		08 08 38.1	
	iPP		08 11 23.1	
			micr	sec
	P	Z'	0.2	0.7
Ki	iP		08 08 00.9	
			micr	sec
	P	Z'	0.1	0.9
Sk	iP		08 08 33.1	
	ePP		08 11 14	
Um	iP		08 08 17.0	D
Ud	iP		08 08 45.3	
De	iP		08 08 59.1	

Japan (h = 180 km).
m = 5.8 (Up,Ki).

" 6	Ud	iP		12 50 11.2

Guatemala (h = 90 km).

" 6	Ki	iP		15 10 40.8
	Ud	iP		15 11 32.8

Kurile Islands (h = N).

" 6	Up	iP		18 14 35.7
		i		18 14 38.4
		ipP		18 14 42.3
		iS		18 23 09
				micr sec
		P	Z'	0.2 0.7
		i	Z'	0.5 1.0
		Mx	E	12 17
		Mx	N	58 18
		Mx	Z	23 16
	Ki	iP		18 14 21.9
		i		18 14 24.4
		iS		18 22 44
				micr sec
		P	Z'	0.4 1.0
		i	Z'	0.6 1.0
		Mx	E	23 12
		Mx	N	33 14
		Mx	Z	20 11
	Sk	iP		18 14 47.1
		i		18 14 50.1
		ipP		18 14 53.7
	Um	iP		18 14 24.0 D
		i		18 14 26.5
		iS		18 22 46
	Ud	iP		18 14 48.3
		ipP		18 14 54.6
	De	iP		18 14 52.5
		ipP		18 14 59.7

Szechwan, China.
h = 20 km (Up,Sk,Ud,De).
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 6 (cont.)
m = 6.6, M = 6.8 (Up,Ki).
Double P (Up,Ki,Sk,Um), small and large, average separation, 2.9 sec.

"	6	Up	iP	19 00 39.3	
				micr	sec
			P Z'	0.2	1.4
		Ki	iP	19 00 25.5	
				micr	sec
			P Z'	0.1	1.2
		Sk	eP	19 00 52	
		Um	iP	19 00 27.7	
		Ud	iP	19 00 52.3	

Szechwan, China (h = N).
m = 5.9 (Up,Ki).

"	6	Up	iP	20 35 04.5
		Ki	eP	20 34 48
		Sk	eP	20 35 17
		Ud	eP	20 35 15

Szechwan, China (h = N).

"	6	Up	iP	21 01 41.4
		Sk	iP	21 02 22.2
		Um	i	21 02 29.4
		Ud	iP	21 01 46.6

Italy (h = N).

"	6	Up	iP	21 44 32.0
		Ki	iP	21 43 43.2
		Um	eP	21 44 06
		Ud	iP	21 44 38.0

"	6	Ud	iP	23 26 46.8
		De	iP	23 26 34.4

Iran (h = N).

"	7	Up	iPKPl	00 51 58.4
		Ki	iPKP	00 51 49.6
		Um	ePKPl	00 51 51
		Ud	iPKPl	00 51 58.5
		De	iPKPl	00 52 09.8

Fiji Islands (h = 580 km).

"	7	Up	i(P)	01 23 20.7

"	7	Up	iP	02 08 10.9
		Ki	iP	02 07 57.1
		Sk	iP	02 08 21.6
		Um	iP	02 07 59.4
		Ud	eP	02 08 23

Probably Szechwan, China.

1976
Nov. 7

		Um	iP	02 15 40.1
		Ud	eP	02 15 06

"	7	Up	iP	04 08 06.0	
			iPP	04 09 32.2	
			iS	04 13 54	
				micr	sec
			P Z'	0.2	1.0
			PP Z'	0.9	1.4
			Mx E	11	14
			Mx N	41	17
			Mx Z	27	14
		Ki	iP	04 08 32.7	
				micr	sec
			P Z'	0.2	1.0
			Mx E	29	13
			Mx N	116	19
			Mx Z	26	13
		Sk	iP	04 08 39.8	
		Um	iP	04 08 13.8	
			iS	04 14 10	
		Ud	iP	04 08 22.9	C
			iPP	04 09 55.7	
		De	iP	04 08 12.3	
			iPP	04 09 39.5	

Iran (h = 15 km).
m = 5.8, M = 6.6 (Up,Ki).

"	7	Ud	iP	04 59 39.2

Off east coast of Kamchatka (h = N).

"	7	Ki	iP	05 50 00.9
		Ud	ipP	05 50 15.8

Sumatra (h = 25 km).

"	7	Ki	iP	06 02 27.8	C
		Sk	iP	06 02 12.3	C
		Um	iP	06 02 01.1	C
		Ud	iP	06 01 49.0	C

Red Sea (h = 35 km).

"	7	Up	iP	07 22 48.8
		Sk	eP	07 22 49
		Um	iP	07 22 29.2
		Ud	eP	07 22 47

"	7	Up	iP	08 24 29.6
		Ki	iP	08 24 14.7
		Sk	iP	08 24 41.6
		Um	iP	08 24 18.8
		Ud	iP	08 24 41.7

Szechwan, China (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Nov.	7	Up	iP		11 14 30.6	C
					micr	sec
			P	Z'	0.3	1.1
		Ki	iP		11 15 13.1	C
					micr	sec
			P	Z'	0.3	0.9
		Sk	iP		11 15 08.3	C
		Um	iP		11 14 47.0	C
		Ud	iP		11 14 46.4	C
		De	iP		11 14 28.3	C
		Iran (h = 50 km).				
		m = 6.2 (Up,Ki).				
"	7	Ud	eP		14 50 05	
"	7	Ki	iP		15 42 10.7	C
					micr	sec
			P	Z'	0.1	1.5
		Sk	iP		15 42 11.1	
		Off coast of Mexico (h = 35 km).				
"	7	Up	iP		17 22 07.0	
			i		17 22 11.5	
			iS		17 32 53	
					micr	sec
			P	Z'	0.2	1.2
			i	Z'	0.7	1.5
			Mx	E	23	20
			Mx	N	27	19
			Mx	Z	56	22
		Ki	iP		17 21 50.2	C
			iS		17 32 27	
					micr	sec
			P	Z'	0.4	1.2
			Mx	E	38	21
			Mx	N	39	22
			Mx	Z	34	19
		Sk	iP		17 22 11.9	
			i		17 22 28.6	
		Um	iP		17 21 55.9	
			iS		17 32 42	
		Ud	iP		17 22 16.3	C
			iPKKP		17 39 24.0	
		De	iP		17 22 23.4	
		Mindanao (h = 60 km).				
		m = 6.7, M = 6.9 (Up,Ki).				
"	7	Ki	eP		20 31 08	
		Sk	iP		20 30 52.4	
		Ud	iP		20 30 28.6	
		Red Sea (h = N).				
"	7	Ud	eP		20 41 02	
"	7	Up	iP		21 02 19.9	
		(cont.)				

1976 Nov.	7	(cont.)				
		Up				
					micr	sec
			P	Z'	0.1	1.0
			Mx	E	1.5	19
			Mx	N	1.4	16
			Mx	Z	2.3	19
		Ki	iP		21 02 04.0	C
					micr	sec
			P	Z'	0.4	1.3
			Mx	E	1.7	16
			Mx	N	1.5	15
			Mx	Z	2.1	16
		Sk	iP		21 02 25.4	
		Um	iP		21 02 09.4	C
			iS		21 12 56	
		Ud	iP		21 02 28.3	C
		De	iP		21 02 33.6	C
		Mindanao (h = 30 km).				
		m = 6.3, M = 5.7 (Up,Ki).				
"	7	Ki	iP		22 14 23.3	
"	7	Sk	iPKPl		22 35 20.0	
		Um	iPKPl		22 35 14.7	
		Ud	iPKPl		22 35 28.7	
		De	iPKPl		22 35 38.1	
		Kermadec Islands (h = 30 km).				
"	8	Ki	iP		06 56 37.8	
		Ud	iP		06 56 57.2	
		Sinkiang, China (h = N).				
"	8	Up	i		07 39 48.5	
		Ki	iP		07 39 21.8	
		Ud	iP		07 39 45.5	
		Molucca Passage (h = N).				
"	8	Up	iP		08 30 49.2	C
			i		08 31 00.2	
			iPP		08 33 38.4	
			iS		08 40 03	
					micr	sec
			P	Z'	0.7	1.5
			i	Z'	1.6	1.7
			Mx	E	12	16
			Mx	N	14	19
			Mx	Z	30	17
		Ki	iP		08 30 09.1	C
			i		08 30 21.1	
			iS		08 38 52	
					micr	sec
			P	Z'	2.4	3.0
			i	Z'	3.7	2.6
			Mx	E	16	15
			Mx	N	11	16
			Mx	Z	18	15
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 8 (cont.)

Sk	iP	08 30 42.8	C
	i	08 30 55.0	
	iPP	08 33 26.0	
Um	iP	08 30 26.5	C
	i	08 30 37.7	
	iS	08 39 27	
Ud	iP	08 30 56.5	C
	i	08 31 07.5	
De	iP	08 31 11.3	C
	i	08 31 24.1	
	iPP	08 34 02.4	

Japan.
h = 40 km (Up,Ki,Sk,Um,Ud,De).
m = 6.9, M = 6.4 (Up,Ki).

" 8

Up	iP	09 17 55.8		
		micr	sec	
	P	Z' 0.1	0.5	
Ki	iP	09 17 09.6		
		micr	sec	
	P	Z' 0.2	1.0	
Sk	iP	09 17 45.3		
Um	iP	09 17 29.7		
Ud	iP	09 18 01.9		
De	iP	09 18 20.0		

Sea of Okhotsk (h = 400 km).
m = 5.7 (Up,Ki).

" 8

Up	iSgl	10 18 30.5
Um	iSgl	10 19 28.9

Baltic Sea, 59.6°N, 23.2°E.
Origin time = 10 17 05.
Solution from Helsinki regional bulletin.

" 8

Up	iP	11 01 35.1
	i	11 02 23.4
Ki	iP	11 01 17.1
Sk	eP	11 01 38
	i	11 02 09.8
Um	iP	11 01 23.8
Ud	iP	11 01 42.9
	i	11 02 16.9
	i	11 02 32.5

Mindanao (h = 140 km).

" 8

Up	iPKPl	18 49 05.0		
		micr	sec	
	PKPl	Z' 0.1	1.1	
Sk	iPKPl	18 48 58.2		C
Um	iPKPl	18 48 53.3		
Ud	iPKPl	18 49 07.2		C
De	iPKPl	18 49 15.6		
	i	18 49 27.5		

Kermadec Islands (h = N).

1976
Nov. 8

Up	iP	23 38 10.0	
Ki	iP	23 37 56.0	
Sk	iP	23 38 21.5	
Ud	iP	23 38 23.0	

Szechwan, China (h = N).

" 9

Up	iP	16 07 34.5
Ki	iP	16 08 42.4
Sk	iP	16 08 12.4
Ud	iP	16 07 40.9
De	iP	16 07 10.0

Crete (h = 70 km).

" 9

Ud	iP	18 07 22.9

Iran (h = 30 km).

" 9

Up	iP	22 56 37.0		
	iPP	22 58 15.3		
		micr	sec	
	P	Z' 0.2	0.9	
Ki	iP	22 56 40.9		D
		micr	sec	
	P	Z' 0.2	0.7	
Sk	iP	22 57 01.1		D
	iPP	22 58 53.8		
Um	iP	22 56 32.9		D
	iPP	22 58 08.5		
Ud	iP	22 56 53.9		D
	iPP	22 58 34.0		
De	iP	22 56 52.0		
	iPP	22 58 26.4		

Tadzhik-Sinkiang (h = 160 km).
m = 5.8 (Up,Ki).

" 10

Ud	ipP	00 00 41.4

Gulf of Aden (h = N).

" 10

Up	iP	02 46 10.4
Ki	i	02 46 07.3
Sk	eP	02 46 23
Um	iP	02 45 59.2
Ud	iP	02 46 23.0

Burma (h = 60 km).

" 10

Ki	iP	10 53 42.7

Sinkiang, China (h = 45 km).

" 10

Up	iP	13 01 29.4	
Ki	iP	13 01 38.7	C
Um	iP	13 01 27.8	C
	ipP	13 02 12.5	
Ud	iP	13 01 45.6	
	ipP	13 02 30.9	
De	iP	13 01 42.5	

Hindu Kush.
h = 220 km (Um,Ud).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 10 Up iSgl 13 49 47.5
Sk iSgl 13 50 33.2
Ud iSgl 13 48 56.1
De i 13 49 11.4
iSgl 13 49 14.6
Coast of Bohuslän, Sweden, near 58 1/2°N, 11°E.
Origin time = 13 47 57.
M_L = 2.0 (Ud,De).
Probably explosion.

" 10 Up iSgl 13 52 09.2
Sk i 13 52 49.2
iSgl 13 52 54.7
Ud iPn 13 50 45.5
iSgl 13 51 18.0
De iSgl 13 51 36.5
Same location as the preceding event.
Origin time = 13 50 19.
M_L = 2.2 (Ud,De).
Probably explosion.

" 10 Sk eSgl 14 32 40
Ud eSgl 14 32 15
De eSgl 14 33 20
i 14 33 26.8
Southwest Norway, 60.4°N, 7.4°E.
Origin time = 14 30 39.
M_L = 2.5 (Ud).
By combination with Bergen readings.

" 10 Ud i(PKP) 15 08 16.8
De iPKPl 15 08 30.5
Tonga-Kermadec Islands (h = 540 km).

" 10 Ud iP 15 13 15.8

" 10 Up iP 16 20 40.3
Ki iP 16 20 09.8
Um iP 16 20 23.2
Ud iP 16 20 47.6

" 10 Up iP 17 41 29.3
micr sec
Mx E 1.1 19
Mx N 1.0 18
Mx Z 2.2 20
Ki iP 17 41 10.1
i 17 41 23.1
(cont.)

1976
Nov. 10 (cont.)
Ki micr sec
Mx E 1.0 19
Mx N 1.1 17
Mx Z 1.4 20
Sk iP 17 41 32.1
Um iP 17 41 16.0
i 17 41 29.4
iS 17 52 12
Ud iP 17 41 36.1
Mindanao.
h = 45 km (Ki,Um).
M = 5.5 (Up,Ki).

" 10 Ki iP 17 57 56.2
Sk iP 17 58 17.8
Um iP 17 58 02.1
Ud iP 17 58 22.4
Mindanao (h = 35 km).

" 10 Ud iP 18 31 35.7
Tadzhik-Sinkiang (h = 55 km).

" 10 Up i 19 01 23.1
Ki iP 19 00 54.3
Sk iP 19 01 16.2
Ud iP 19 01 20.3
Mindanao (h = 55 km).

" 11 Up iP 02 27 41.5
micr sec
P Z' 0.1 1.0
Ki iP 02 27 44.1 C
ipP 02 27 56.5
micr sec
P Z' 0.2 0.6
Sk iP 02 28 04.7 C
ipP 02 28 17.7
iPP 02 29 42.7
Um iP 02 27 36.2 C
Ud iP 02 27 58.1 C
De iP 02 27 56.7
Tadzhik-Sinkiang.
h = 50 km (Ki,Sk).
m = 5.9 (Up,Ki).

" 11 Up iP 03 29 05.8
iS 03 39 50
micr sec
P Z' 0.2 1.5
Mx E 1.2 21
Mx Z 1.4 21
Ki iP 03 29 06.8
micr sec
P Z' 0.3 1.5
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 11 (cont.)

Sk	iP		03 28 52.8
Um	iP		03 29 08.5
	iS		03 39 58
Ud	iP		03 28 54.6
De	eP		03 28 57

Panama (h = N).
m = 6.5 (Up,Ki).

" 11

Ud	iP		11 07 55.3

Molucca Passage (h = N).

" 11

Sk	eP		14 08 03
Ud	iP		14 07 56.9
	i		14 08 11.5

" 11

Ud	iP		14 36 31.3

Mindanao (h = 100 km).

" 11

Ud	iP		17 13 30.3

Crete (h = N).

" 11

Ud	iP		19 42 53.0 C

Windward Islands (h = 140 km).

" 11

Ud	i(P)		20 58 09.5

" 12

Ud	iP		05 17 02.0

Kurile Islands (h = 80 km).

" 12

Ud	i(P)		08 02 43.3

" 12

Up	iP		09 56 04.1
Um	iP		09 56 37.8
Ud	eP		09 56 13
De	iP		09 55 41.4

Aegean Sea (h = 25 km).

" 12

Up	eP		10 00 29	
			micr	sec
	Mx	E	4.6	13
	Mx	N	2.7	11
	Mx	Z	5.5	11
Ki	e		10 01 45	
			micr	sec
	Mx	E	4.8	11
Sk	eP		10 01 13	
Um	iP		10 01 03.7	
	i		10 01 26.7	
	iS		10 05 37	
Ud	iP		10 00 38.9	
	i		10 00 50.1	
De	iP		10 00 05.5	

Aegean Sea (h = 5 km).
M = 5.3 (Up,Ki).

1976
Nov. 12

Um	iP		13 23 35.8
Ud	iP		13 24 02.7

China (h = N).

" 12

Up	iP		14 54 06.9	
			micr	sec
	P	Z'	0.1	1.0
	Mx	E	1.8	16
	Mx	N	3.6	17
	Mx	Z	8.7	19
Ki	eP		14 53 17	
			micr	sec
	P	Z'	0.2	1.0
	Mx	E	5.0	13
	Mx	N	3.2	17
	Mx	Z	4.9	20
Sk	iP		14 53 27.9	
Um	iP		14 53 44.2	
Ud	iP		14 53 56.1 C	
	i		14 54 01.6	
De	iP		14 54 22.3	
	i		14 54 45.4	

Baffin Bay (h = N).
m = 5.7, M = 5.3 (Up,Ki).

" 12

Sk	i		19 41 55.0
	i		19 42 14.7
Ud	iP		19 41 13.6
	i		19 41 22.7

Italy (h = N).

" 12

Ki	iP		20 47 10.4
Ud	eP		20 47 04

" 12

Up	iP		21 37 41.0
Ki	iP		21 37 26.8
Um	iP		21 37 26.5
Ud	eP		21 37 53

Szechwan, China (h = N).

" 12

Up	ePKPl		23 20 02
Ud	iPKPl		23 20 01.4
De	iPKPl		23 20 12.6

Fiji Islands (h = 600 km).

" 13

Up	iP		05 25 15.1
Ud	eP		05 25 18

Italy (h = 10 km).

" 13

Up	iP		06 15 09.6 C	
			micr	sec
	P	Z'	0.2	1.2
Ki	iP		06 16 18.9	
			micr	sec
	P	Z'	0.2	1.2

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 13 (cont.)

Sk	iP		06 15 48.1	C
Um	iP		06 15 43.1	
Ud	iP		06 15 16.2	C
De	iP		06 14 42.1	C

Crete (h = 30 km).
m = 5.8 (Up,Ki).

" 13	Up	iP		09 43 48.2
	Ki	iP		09 42 17.9
		iTPg		09 47 17.5
				micr sec
		P	Z'	0.1 1.0
	Sk	iP		09 42 54.0
		iS		09 44 35.4
	Um	iP		09 43 06.2
	Ud	iP		09 43 41.2
		i		09 43 56.9
	De	iP		09 44 31.7

Norwegian Sea,
72.4°N, 6.7°E.
Origin time = 09 40 43.

" 13	Sk	iP		10 19 31.3
	Ud	i		10 19 20.1

Iran (h = N).

" 13	Up	iP		10 20 18.4
	Ki	iP		10 20 48.9
	Sk	iP		10 20 50.7
	Um	iP		10 20 29.4
	Ud	iP		10 20 32.7
	De	iP		10 20 19.4

Iran (h = N).

" 13	Ud	iP		16 14 25.2

Philippine Islands (h = N).

" 13	Ud	iP		19 00 34.7
" 13	Ki	iP		21 31 45.9
		iTSg		21 37 05.5
	Sk	eP		21 32 21
		iS		21 34 03.9
	Um	iP		21 32 33.8
	Ud	iP		21 33 10.7

Greenland Sea (h = N).

" 14	Up	Mx		04 55
				micr sec
		Mx	E	1.1 14
		Mx	Z	2.1 13

Ryukyu Islands (h = 60 km).

" 14	Up	iP		05 22 07.7

(cont.)

1976
Nov. 14 (cont.)

Up	i		05 22 14.3	
Ud	iP		05 22 15.1	
	i		05 22 23.2	
" 14 Up	iPKP		13 46 30.1	C
Ki	iPKP		13 46 45.6	
Sk	ePKP		13 46 40	
Um	iPKP		13 46 38.4	C
Ud	iPKP		13 46 28.6	C

South Sandwich Islands
(h = 100 km).

" 14 Up	iP		13 56 29.1	
Ud	iP		13 56 31.7	
" 14 Up	iP		17 22 24.8	
Ki	iP		17 21 45.8	
Sk	eP		17 22 19	
Um	iP		17 22 02.7	
Ud	iP		17 22 32.2	

Japan (h = 45 km).

" 15 Up	iP		03 25 31.3	
Ki	iP		03 24 41.3	
Sk	iP		03 25 18.8	
Um	iP		03 25 03.9	
Ud	iP		03 25 35.2	

Kurile Islands (h = 50 km).

" 15 Up	eP		07 18 07	C
Ki	iP		07 18 34.8	C
Sk	iP		07 18 07.9	
Um	iP		07 17 47.8	
Ud	iP		07 18 14.5	

Japan (h = 60 km).

" 15 Up	iP		08 09 56.4	
	i		08 10 03.2	
			micr sec	
	P	Z'	0.1 0.9	
	i	Z'	0.1 1.0	
Ki	iP		08 10 38.7	C
			micr sec	
	P	Z'	0.2 0.9	
Sk	iP		08 10 33.8	
Um	iP		08 10 12.8	C
Ud	iP		08 10 11.5	
	i		08 10 20.4	
	iPP		08 11 21.0	
De	eP		08 09 54	C

Iran (h = 50 km).
m = 5.9 (Up,Ki).

" 15 Up	iSgl		09 50 06.6	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 15 (cont.)

Ki	eSgl	09 52 07	
Sk	i	09 48 22.5	
	eSgl	09 49 22	
Um	iSgl	09 50 57.9	
Ud	iPgl	09 48 01.3	
	iSgl	09 49 00.8	
De	i	09 49 27.8	
	iSgl	09 49 49.6	

Off coast of southwest Norway, 60.1°N, 4.5°E.
Origin time = 09 46 41.
M_L = 3.3 (Up,Sk,Um,Ud).

" 15

Up	iP	10 26 02.0	
Ki	iP	10 25 23.6	C
Sk	iP	10 25 56.1	
Um	iP	10 25 40.1	C
Ud	iP	10 26 07.1	

Japan (h = 30 km).

" 15

Ud	iP	12 57 42.8	

Kirgiz SSR (h = 35 km).

" 15

Up	iP		14 03 16.5	D
	iS		14 11 36	
			micr	sec
	P	Z'	1.8	1.8
	Mx	E	24	12
	Mx	N	51	13
	Mx	Z	62	12
Ki	iP		14 02 44.5	D
	iS		14 10 36	
			micr	sec
	P	Z'	1.1	1.8
	Mx	E	55	14
	Mx	N	62	12
	Mx	Z	44	14
Sk	iP		14 03 18.3	D
Um	iP		14 02 56.7	D
	ipP		14 03 03.3	
	iS		14 11 00	
Ud	iP		14 03 27.6	D
	ipP		14 03 34.2	
De	iP		14 03 39.8	D

China.
h = 20 km (Um,Ud).
m = 6.7, M = 7.0 (Up,Ki).

" 15

Up	eP		14 24 58	
			micr	sec
	P	Z'	0.1	1.2
Ud	iP		14 25 05.4	D

Kurile Islands (h = 150 km).

1976
Nov. 15

Ki	iP	18 18 56.4	

Japan (h = 40 km).

" 16

Um	iP	02 31 40.4	

Guatemala (h = 90 km).

" 16

Up	iP	13 02 04.2	
Sk	iP	13 02 39.1	
Um	iP	13 02 26.8	
Ud	iP	13 02 16.4	

Red Sea (h = N).

" 16

Ki	iP	13 33 20.2	

Mariana Islands (h = 110 km).

" 16

De	iPKPl	15 53 18.8	

Fiji Islands (h = 560 km).

" 16

Ud	iP	15 56 03.4	

" 16

Up	Mx		19 27	
			micr	sec
	Mx	E	0.7	18
	Mx	N	3.2	20
	Mx	Z	3.3	20
Ki	Mx		19 30	
			micr	sec
	Mx	E	4.1	22
	Mx	N	3.2	19

Mid-Indian Ocean (h = N).
M = 6.0 (Up,Ki).

" 17

Up	iP	05 44 00.6	
	i	05 44 10.9	
	ipP	05 44 27.1	
Ki	iP	05 43 08.0	
Sk	iP	05 43 48.4	
Um	iP	05 43 35.5	
	ipP	05 43 01.2	
Ud	iP	05 44 05.7	
	i	05 44 16.3	
	ipP	05 44 32.9	
De	iP	05 44 25.2	

Kamchatka.
h = 110 km (Up,Um,Ud).

" 17

Up	iP	06 08 48.3	
Ud	iP	06 09 04.2	

Sinkiang, China (h = N).

" 17

Ud	iPKPl	09 55 27.4	
De	iPKPl	09 55 37.9	

Tonga-Kermadec Islands (h = 680 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Nov.	17	Ud	iP		11 03 50.5	
		De	eP		11 03 36	
"	17	Up	i(P)		14 46 32.1	
"	17	Up	iP		17 30 46.4	C
			iPP		17 32 22.9	
					micr	sec
			P	Z'	1.0	1.1
		Ki	iP		17 30 54.9	C
			ipP		17 31 43.0	
					micr	sec
			P	Z'	1.1	1.0
		Sk	iP		17 31 11.7	C
			ipP		17 32 00.0	
		Um	iP		17 30 44.6	C
			ipP		17 31 32.6	
		Ud	iP		17 31 03.0	C
			ipP		17 31 52.6	
		De	iP		17 30 59.3	C
			ipP		17 31 48.5	
		Afghanistan-USSR.				
		h = 240 km (Ki,Sk,Um,Ud,De).				
		m = 6.3 (Up,Ki).				
"	18	Up	iPKP		03 42 49.3	
			ipPKP		03 42 55.4	
			iPP		03 44 18.5	
			iPKKP		03 53 02.6	
					micr	sec
			pPKP	Z'	0.1	1.0
			PP	Z'	0.5	1.8
			PKKP	Z'	0.1	1.6
			Mx	E	4.2	20
			Mx	N	6.7	18
			Mx	Z	8.0	24
		Ki	i		03 42 43.4	
			i(PP)		03 43 28.7	
			iPP		03 43 41.5	
					micr	sec
			PP	Z'	0.4	2.0
			Mx	E	6.0	18
			Mx	N	8.4	16
			Mx	Z	10	21
		Sk	iPKP		03 42 47.4	
			i		03 43 18.2	
		Um	iPKP		03 42 43.0	
			ipPKP		03 42 48.7	
			iPP		03 43 53.4	
		Ud	iPKP		03 42 52.3	
			ipPKP		03 42 57.2	
			iPP		03 44 25.4	
		De	iPKP		03 42 57.0	
			iPP		03 44 40.7	
		(cont.)				

1976 Nov.	18	(cont.)				
		Solomon Islands.				
		h = 15 km (Up,Um,Ud).				
		m = 6.9, M = 6.4 (Up,Ki).				
"	18	Up	iP		05 57 57.9	
			i		05 58 01.6	
			ipP		05 58 04.1	
			e(PP)		06 02 03	
			iPP		06 02 30.7	
			iS		06 09 52	
					micr	sec
			PP	Z'	0.1	1.3
			Mx	E	5.8	18
			Mx	N	7.9	20
			Mx	Z	12	20
		Ki	iP		05 57 38.5	
			ipP		05 57 43.9	
					micr	sec
			pP	Z'	0.1	1.0
			Mx	E	13	21
			Mx	N	10	19
			Mx	Z	10	19
		Um	iP		05 57 45.8	
			ipP		05 57 51.7	
			iPP		06 02 03.8	
			iS		06 09 30	
		Ud	iP		05 58 06.1	
			ipP		05 58 11.8	
			i(PP)		06 02 12.5	
			iPP		06 02 36.5	
		De	eP		05 58 14	
			i(PP)		06 02 18.1	
			iPP		06 02 52.7	
		West Irian.				
		h = 20 km (Up,Ki,Um,Ud).				
		M = 6.5 (Up,Ki).				
"	18	Sk	i(P)		10 53 08.2	
"	18	Sk	i(P)		11 33 19.8	
			i		11 33 22.4	
"	18	Sk	i(P)		11 34 57.9	
"	18	Up	iP		12 14 27.8	
			i		12 14 36.3	
		Ud	iP		12 14 39.6	
		De	eP		12 14 00	
			i		12 14 14.0	
		Greece (h = 70 km).				
"	18	Up	i		12 45 43.6	
		Ud	iP		12 45 38.4	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 18 (cont.)

De	eP	12 45 01	
	i	12 45 05.9	

Greece (h = 60 km).

"	18	Up	i	14 25 08.1
			iRg	14 25 10.4
		Ud	i	14 25 21.9
			iRg	14 25 25.3

East-central Sweden.
Near-surface event.

"	18	Ud	iP	16 13 13.5
"	18	Up	iP	21 46 32.7
		Um	iP	21 46 14.3 D
		Ud	iP	21 46 39.8
		De	iP	21 46 52.4

Japan (h = 460 km).

"	19	Ud	i(P)	04 20 41.2
"	19	Ud	iSgl	10 19 50.1
		De	iSgl	10 21 09.7
"	19	Um	iP	15 25 12.6

Japan (h = 45 km).

"	19	Ud	iP	18 06 21.4
"	19	Ud	iP	18 23 23.9

Taiwan (h = 70 km).

"	19	Um	iP	20 14 11.2
"	19	Up	iP	21 57 09.5
		Ki	iP	21 57 08.2
		Sk	iP	21 57 22.7
		Um	iP	21 57 06.2
		Ud	iP	21 57 18.8
		De	iP	21 57 17.6

Sumatra (h = 120 km).

"	19	Up	iPKPl	23 48 30.6
		Um	i	23 48 35.6
		Ud	iPKPl	23 48 32.0
		De	iPKPl	23 48 43.7 C

Fiji Islands (h = 570 km).

"	20	Up	iP	01 30 45.8
"	20	Up	i	04 27 14.7

(cont.)

1976
Nov. 20 (cont.)

Sk	i	04 27 46.4	
Um	iP	04 27 10.2	
Ud	iP	04 27 28.1	
	i	04 27 37.0	

Hindu Kush (h = 35 km).

"	20	Ud	eP	10 11 57
"	20	Up	iP	12 06 25.6
			i	12 06 28.0
				micr sec
			P Z'	0.1 1.3
		Ki	i	12 06 57.3
				micr sec
			i Z'	0.1 1.0
		Ud	i	12 06 11.9

Azores Islands (h = N).
m = 5.4 (Up,Ki).

"	20	Ud	iP	12 41 22.7
"	20	Ud	iPKPl	17 54 43.0 C
		De	iPKPl	17 54 54.6 C
			i	17 54 55.9

Tonga-Kermadec Islands
(h = 590 km).

"	21	Up	iPKPl	06 28 23.6 C
				micr sec
			PKPl Z'	0.1 0.8
		Ud	iPKPl	06 28 25.4 C

Tonga-Kermadec Islands
(h = 40 km).

"	21	Ki	iP	12 55 15.1

Mariana Islands (h = 130 km).

"	21	Up	iP	17 47 43.2 D
			iPP	17 51 30.7
				micr sec
			P Z'	0.1 0.8
			PP Z'	0.2 1.3
		Ki	iP	17 47 26.6 D
				micr sec
			P Z'	0.2 1.0
		Um	iP	17 47 31.5 D
		Ud	iP	17 47 51.7 D

Halmahera (h = 80 km).
m = 6.0 (Up,Ki).

"	21	Ud	iP	23 35 12.5
"	22	Um	iP	13 16 59.7 C
		Ud	iP	13 17 30.3 C

Japan (h = 10 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
Nov.	22	De	i(P)		14 30 13.0	
"	22	De	i(P)		14 32 06.3	
"	22	Up	iP		15 27 59.6	
		Ki	iP		15 27 32.9	
			i		15 27 47.4	
		Um	iP		15 27 43.6	
		Mariana Islands (h = 250 km).				
"	22	Up	iPKPl		18 26 14.4	
			iSKPl		18 29 05.1	
		Ki	iPKP		18 26 08.8	
			iSKPl		18 28 42.0	
					micr sec	
			SKPl	Z'	0.1 1.2	
		Um	iPKPl		18 26 09.3	
			iSKPl		18 28 53.7	
		Ud	iPKPl		18 26 17.0	
			iSKPl		18 29 06.4	
		De	iPKPl		18 26 28.3	C
		Fiji Islands (h = 580 km).				
"	22	Up	iP		19 49 35.6	
		Ki	iP		19 50 00.9	
					micr sec	
			P	Z'	0.1 1.0	
"	23	Up	iP		03 30 24.0	
		Um	iP		03 30 06.8	
		Ud	iP		03 30 26.8	
		De	iP		03 30 35.3	
"	23	Up	iP		05 09 54.9	C
			iPn		05 11 00.6	
			iPP		05 11 13.7	
					micr sec	
			P	Z'	1.3 1.0	
		Ki	iP		05 09 38.5	C
					micr sec	
			P	Z'	0.9 0.8	
		Sk	iP		05 10 10.0	C
			iPn		15 11 33.0	
		Um	iP		05 09 39.4	C
			iPn		05 10 41.7	
		Ud	iP		05 10 11.5	C
		De	iP		05 10 18.7	C
			i		05 11 19.0	
			iPn		05 11 41.1	
		Kazakh SSR.				
		Origin time = 05 03 00.				
		m = 6.8 (Up,Ki).				
		Underground explosion.				
"	23	Up	iPl		10 57 13.4	
			iP2		10 57 13.9	
		(cont.)				

1976						
Nov.	23	(cont.)				
		Up			micr	sec
			Pl	Z'	0.5	1.1
		Ki	iP2		10 56 21.2	
			ipP2		10 56 32.5	
					micr	sec
			P2	Z'	0.2	1.0
		Sk	iP2		10 56 57.7	
			ipP2		10 57 08.9	
		Um	iP2		10 56 46.4	
			ipP2		10 56 56.4	
		Ud	iPl		10 57 17.4	
			iP2		10 57 18.0	
			ipP2		10 57 27.8	
		De	iP2		10 57 38.8	
			ipP2		10 57 48.7	
		Kamchatka.				
		h = 35 km (Ki,Sk,Um,Ud,De).				
		m = 6.3 (Up,Ki).				
"	23	Up	eP		16 35 17	
		Ki	iP		16 36 21.2	
					micr	sec
			P	Z'	0.1	0.60
		Sk	eP		16 35 55	
		Ud	iP		16 35 24.3	
			i		16 35 26.0	
		De	iP		16 34 53.6	
		Eastern Mediterrranean Sea				
		(h = 40 km).				
"	24	Ki	iP		04 07 43.7	
		Ud	iP		04 07 55.4	
		Tibet-India (h = 60 km).				
"	24	Ud	i(P)		09 02 22.9	
"	24	Up	i(P)		09 24 26.7	
"	24	Ud	iSgl		11 19 41.1	
		De	eSgl		11 20 01	
"	24	Up	iP		12 27 54.9	
			iS		12 32 26.7	
					micr	sec
			P	Z'	5.9	1.5
			Mx	E	266	18
			Mx	N	657	24
			Mx	Z	570	27
		Ki	iP		12 28 39.1	
					micr	sec
			P	Z'	2.3	1.0
			Mx	E	362	17
			Mx	N	532	21
			Mx	Z	378	15
		Sk	iP		12 28 33.3	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 24 (cont.)

Um	iP		12 28 11.5		
Ud	iP		12 28 10.4		
De	iP		12 27 52.3		

Iran-USSR (h = 35 km).
m = 7.0, M = 7.3 (Up,Ki).

" 24

Up	iP		12 36 18.8	
			micr	sec
	P	Z'	0.7	1.7
Ki	iP		12 37 00.8	
			micr	sec
	P	Z'	0.2	1.0
Um	iP		12 36 34.3	
Ud	iP		12 36 34.1	
De	iP		12 36 14.9	

Turkey (h = N).
m = 6.0 (Up,Ki).

" 24

Up	iP		12 42 21.6	
			micr	sec
	P	Z'	0.5	1.3
Ki	iP		12 43 06.2	
			micr	sec
	P	Z'	0.5	1.0
Um	iP		12 42 39.2	
Ud	iP		12 42 37.4	
De	iP		12 42 20.7	

Iran-USSR (h = N).
m = 6.2 (Up,Ki).

" 24

Up	iP		13 23 42.6
Ki	iP		13 24 28.7
Ud	iP		13 23 58.9 C
De	iP		13 23 41.2

Turkey (h = N).

" 24

Ki	iP		14 17 34.5
Ud	iP		14 17 06.6
De	iP		14 16 48.9

Turkey (h = N).

" 24

Up	i		15 09 42.4	
	i		15 09 44.9	
Ki	iP		15 10 22.8	
			micr	sec
	P	Z'	0.1	1.1
Ud	iP		15 09 54.2	
	i		15 09 58.3	
De	iP		15 09 35.5	
	i		15 09 41.2	

Turkey (h = 40 km).

1976
Nov. 24

Up	iPn		15 16 59.6	
			micr	sec
	Pn	Z'	0.1	1.0
Ki	iP		15 17 26.2	
			micr	sec
	P	Z'	0.2	1.3
Sk	iPn		15 18 06.4	
Um	iP		15 16 58.7	
Ud	iP		15 16 57.6	
De	iP		15 16 39.9	

Iran-USSR (h = 40 km).
m = 5.6 (Up,Ki).

" 24

Up	iP		16 19 54.0	
	i		16 19 57.0	
	ipP		16 20 07.2	
	i		16 20 19.0	
			micr	sec
	P	Z'	0.3	1.1
	pP	Z'	0.6	1.1
	i	Z'	0.5	1.1
Ki	iP		16 19 01.6	
	i		16 19 03.3	
	ipP		16 19 14.1	
	i		16 19 25.5	
			micr	sec
	P	Z'	0.1	0.8
	pP	Z'	0.3	1.0
	i	Z'	0.2	1.1
Sk	iP		16 19 38.0	
	i		16 19 40.1	
	ipP		16 19 52.0	
Um	iP		16 19 27.4	
	i		16 19 28.7	
	ipP		16 19 39.1	
	i		16 19 49.7	
Ud	iP		16 19 58.4	
	i		16 20 00.7	
	ipP		16 20 12.0	
	i		16 20 21.4	
De	iP		16 20 19.5	
	i		16 20 23.7	
	ipP		16 20 31.5	
	i		16 20 43.4	

Kamchatka.
h = 45 km (Up,Ki,Sk,Um,Ud,De).
m = 6.4 (Up,Ki).

" 24

Ki	eP		16 47 27
Ud	iP		16 46 57.7
De	iP		16 46 38.4

Caucasus.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976						
Nov.	24	Up	iP		18 16 00.1	
"	24	Ud	i(P)		19 35 06.9	
"	24	Up	iP2		20 51 43.2	
			i		20 51 56.7	
			iS		20 56 24	
					micr	sec
			i	Z'	0.1	1.0
			Mx	E	1.7	13
			Mx	N	5.9	16
		Ki	iP1		20 52 25.3	C
			iP2		20 52 28.8	
			i		20 52 35.8	
					micr	sec
			P1	Z'	0.1	1.0
			Mx	E	4.0	14
			Mx	N	3.8	13
			Mx	Z	4.2	13
		Um	iP2		20 52 02.6	
			i		20 52 08.8	
			iS		20 56 50	
		Ud	iP1		20 51 56.7	
		De	iP2		20 51 41.0	
		Iran-USSR (h = 45 km).				
		m = 5.6, M = 5.4 (Up,Ki).				
"	24	Up	iP		21 02 05.9	
					micr	sec
			P	Z'	0.2	1.5
		Sk	iP		21 02 43.5	
		Um	iP		21 02 43.5	
		Ud	iP		21 02 11.4	
		De	iP		21 01 34.3	
		Ionian Sea (h = N).				
"	24	Up	iP		22 00 37.0	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		22 00 38.1	
					micr	sec
			P	Z'	0.1	0.9
		Sk	iP		22 00 16.3	
		Um	iP		22 00 41.5	
		Ud	iP		22 00 22.9	
		De	iP		22 00 27.2	
		North Atlantic Ocean (h = N).				
		m = 5.8 (Up,Ki).				
"	24	Ki	iP		23 22 04.4	
"	25	Ud	i(P)		01 25 09.9	
"	25	Up	iP		04 15 25.3	
		Ki	iP		04 16 48.6	
		(cont.)				

1976						
Nov.	25	(cont.)				
		Sk	iP		04 16 07.3	
		Um	iP		04 16 09.0	
			i		04 16 14.0	
		Ud	iP		04 15 29.3	
		Adriatic Sea (h = N).				
"	25	Up	iP		09 55 05.2	
			i		09 55 21.2	
			iS		09 59 52	
					micr	sec
			P	Z'	0.6	2.0
			Mx	E	2.3	17
			Mx	N	2.2	18
			Mx	Z	3.8	19
		Ki	iP		09 55 48.1	
					micr	sec
			P	Z'	0.2	1.3
			Mx	E	3.0	12
			Mx	N	4.0	13
			Mx	Z	5.0	13
		Sk	iP		09 55 42.5	
		Um	iP		09 55 21.6	
			iS		10 00 22	
		Ud	iP		09 55 20.3	
		De	iP		09 55 03.0	
		Iran-USSR (h = 35 km).				
		m = 5.9, M = 5.2 (Up,Ki).				
"	25	Up	i(P)		10 59 16.5	
"	25	Ud	iRg		11 50 27.5	
"	25	Up	i(PKP)		14 24 59.3	
			iPKP1		14 25 02.4	
			i		14 25 09.2	
			iPKP		14 25 10.9	
			i		14 27 58.6	
			iSKP1		14 28 03.6	
			iPKS		14 28 44.3	
					micr	sec
			(PKP)	Z'	0.1	0.8
			PKP1	Z'	0.8	0.9
			PKS	Z'	0.5	1.1
		Ki	i(PKP)		14 24 40.5	
			i(PKP)		14 24 47.5	
			i(PKP)		14 24 52.3	
			iPKP		14 24 54.5	
			iSKP1		14 27 38.7	
					micr	sec
			PKP	Z'	0.6	0.8
			SKP1	Z'	2.2	1.3
		Sk	i(PKP)		14 23 56.9	
			i(PKP)		14 24 50.6	
			iPKP		14 24 04.9	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 25 (cont.)

Sk	iSKPl		14 27 56.3
Um	i(PKP)		14 24 47.4
	i(PKP)		14 24 52.3
	i(PKP)		14 24 54.2
	iPKP		14 25 01.2
	iSKPl		14 27 51.1
Ud	i(PKP)		14 24 59.3
	iPKPl		14 25 01.5
	iSKPl		14 28 04.7
	iSKKP		14 36 47.6
De	i(PKP)		14 25 11.9
	iPKPl		14 25 12.7
	iSKPl		14 28 14.8
	iSKKP		14 36 34.2

Fiji Islands (h = 440 km).

" 25

Up	iP		15 12 03.7
Ki	iP		15 12 07.1
Sk	iP		15 11 51.6
Um	iP		15 12 07.7
Ud	iP		15 11 54.4
De	iP		15 11 56.2

Colombia (h = 200 km).

" 25

Up	iPKPl		16 31 45.8
			micr sec
	PKPl	Z'	0.1 0.7
Ki	iPKP		16 31 30.7
Sk	iPKPl		16 31 37.8
Um	iPKPl		16 31 33.2
Ud	iPKPl		16 31 48.1
De	iPKPl		16 31 56.9

Kermadec Islands (h = 80 km).

" 26

Up	iPKPl		00 54 51.8
			micr sec
	PKPl	Z'	0.1 0.8
Ki	iPKPl		00 54 32.1
	ePKP		00 54 37
Sk	iPKPl		00 54 44.8
	i		00 54 53.3
Um	iPKPl		00 54 39.4
Ud	iPKPl		00 54 53.5
De	iP		00 55 02.6

Kermadec Islands (h = N).

" 26

De	iPKP		10 11 29.1

New Britain (h = 190 km).

" 26

Ud	i(P)		10 26 16.3

" 26

Ki	iPKP		11 26 45.5
Um	iP		11 26 51.5

New Hebrides Islands
(h = 25 km).

1976
Nov. 26

Up	iP		11 31 04.7
	i		11 31 09.9
	iS		11 40 42
			micr sec
	P	Z'	0.1 1.0
	i	Z'	0.3 1.0
	Mx	E	17 19
	Mx	N	40 17
	Mx	Z	49 17
Ki	iP		11 30 24.8
	i		11 30 26.2
	i		11 30 30.7
	iS		11 39 30
			micr sec
	P	Z'	0.6 2.0
	i	Z'	1.3 2.3
	Mx	E	21 14
	Mx	N	21 15
	Mx	Z	25 14
Sk	iP		11 30 37.7
	i		11 30 39.6
	i		11 30 43.7
Um	iP		11 30 47.0
	i		11 30 47.9
	i		11 30 52.0
	iS		11 40 12
Ud	iP		11 30 57.6
	i		11 30 58.8
	i		11 31 03.2
De	i		11 31 18.1
	i		11 31 21.5

California (h = 15 km).
m = 6.5, M = 6.7 (Up,Ki).

" 26

Up	i(P)		13 06 58.0

" 26

Ud	iP		21 15 42.2 C

Hindu Kush.

" 26

Ki	iP		21 24 38.1

Iran-USSR (h = 70 km).

" 27

De	iP		02 15 05.1

Dodecanese Islands (h = N).

" 27

Up	ePKPl		04 18 27
Ki	iPKP		04 18 11.6
	iSKPl		04 20 42.0
			micr sec
	SKPl	Z'	0.1 1.1
Sk	iSKPl		04 20 59.5
Um	iSKPl		04 20 54.0
Ud	iPKPl		04 18 18.9
	iPKP		04 18 29.2
	iSKPl		04 21 09.7
De	iPKPl		04 18 26.8

Fiji Islands (h = 580 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Nov.	27	Up	iP		04 25 06.6
		Ki	iP		04 24 48.5
		Um	iP		04 24 56.0
		Ud	iP		04 25 14.4
		Mindoro (h = 60 km).			
"	27	Up	iP		04 45 14.0 C
			ipP		04 45 21.5
					micr sec
			P	Z'	0.1 1.0
			pP	Z'	0.1 1.0
		Ki	iP		04 45 52.7 C
					micr sec
			P	Z'	0.1 1.0
		Sk	iP		04 45 20.1
		Um	iP		04 45 36.9 C
			ipP		04 45 43.7
		Ud	iP		04 45 06.4 C
		De	iP		04 44 50.5 C
			i		04 45 06.9
		Central Atlantic Ocean.			
		h = 25 km (Up,Um).			
		m = 5.9 (Up,Ki).			
"	27	Um	iP		06 28 20.4
		Ud	iP		06 28 49.6
		Japan (h = 220 km).			
"	27	Up	i		10 01 38.0
			iRg		10 01 42.6
		Ud	iRg		10 01 30.0
		Central Sweden.			
		Near-surface event.			
"	27	Up	iPKPl		12 32 23.2
			iSKPl		12 35 11.9
					micr sec
			SKPl	Z'	0.1 1.5
		Um	iSKPl		12 35 00.5
		Ud	iPKPl		12 32 25.1
			iSKPl		12 35 13.1
		De	iPKP		12 32 35.4
			iPKPl		12 32 36.5
		Tonga-Kermadec Islands			
		(h = 590 km).			
"	27	Up	iP		15 19 47.2
		Ud	iP		15 20 04.2
		Afghanistan-USSR (h = 110 km).			
"	27	Up	iP		15 41 36.4
		Sk	iP		15 42 16.2
		Ud	iP		15 41 44.3
		Ionian Sea (h = N).			

1976 Nov.	27	Sk	iP		18 17 54.4
		Um	iP		18 18 11.6
		Panama (h = N).			
"	27	Um	iPKP		18 43 39.6
			i		18 43 46.1
		Ud	i(PKP)		18 43 20.7
			iPKP		18 43 29.5
			i		18 43 36.9
		Falkland Islands (h = N).			
"	27	Ki	iP		18 50 57.3
		Sk	iP		18 50 23.2
		Ud	iP		18 49 51.3
			i		18 49 57.2
		Ionian Sea (h = N).			
"	27	Up	iP		21 49 37.6 C
			ipP		21 50 19.4
			iS		21 55 36
					micr sec
			P	Z'	5.0 1.0
		Ki	iP		21 49 46.7 C
			ipP		21 50 28.0
			iS		21 55 49
					micr sec
			P	Z'	3.6 1.1
		Sk	iP		21 50 03.7 C
			iPP		21 51 48.0
		Um	iP		21 49 36.4
			ipP		21 50 17.1
			iS		21 55 32
		Ud	iP		21 49 54.6 C
			ipP		21 50 36.5
		De	iP		21 49 51.0 C
		Afghanistan-USSR.			
		h = 200 km (Up,Ki,Um,Ud).			
		m = 6.9 (Up,Ki).			
"	28	Ud	iP		02 44 19.9
"	28	Ud	i(P)		10 14 18.9
"	28	Ud	eP		12 05 50
		Caucasus (h = 60 km).			
"	28	Up	iP		13 04 29.8
		Ki	iP		13 03 48.7
		Sk	iP		13 04 22.3
		Um	iP		13 04 06.4
		Ud	iP		13 04 37.8
		Japan (h = 15 km).			
"	28	Ud	iP		15 22 00.5
		Ionian Sea (h = N).			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Nov.	28	Ki	iP		16 13 22.9	
		Um	iP		16 13 29.9	
		Ud	iP		16 13 57.1	
"	28	Up	iP		19 30 18.0	C
					micr	sec
			P	Z'	0.1	0.9
		Ki	iP		19 31 30.7	
			ipP		19 31 38.3	
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		19 30 56.7	C
		Um	iP		19 30 57.5	
			ipP		19 31 03.9	
		Ud	iP		19 30 23.6	C
			ipP		19 30 30.1	
		De	iP		19 29 47.3	C
		Ionian Sea.				
		h = 25 km (Ki,Um,Ud).				
		m = 5.5 (Up,Ki).				
"	28	Ud	iP		20 46 43.6	
		Uzbek SSR (h = N).				
"	28	Ud	eP		21 47 45	
"	29	Up	iP		06 25 33.6	
					micr	sec
			P	Z'	0.3	1.5
"	29	Up	iP		08 26 59.3	
		Ki	iP		08 26 16.2	
		Sk	iP		08 26 51.4	
		Um	iP		08 26 35.6	
		Ud	iP		08 27 06.3	
		De	iP		08 27 22.5	
		Japan (h = 70 km).				
"	29	Up	iP		10 12 28.8	
			i		10 12 41.1	
					micr	sec
			P	Z'	0.1	1.1
			i	Z'	0.1	1.2
"	29	Ki	ipP		13 14 37.6	
		Sk	ipP		13 14 15.3	
		Ud	iP		13 13 56.4	
			ipP		13 14 18.6	
		De	iP		13 13 54.4	
		Windward Islands.				
		h = 90 km (Ud).				
"	29	Up	iP		17 21 32.5	
		Ki	iP		17 22 38.9	
		Sk	iP		17 22 13.3	
		(cont.)				

1976 Nov.	29	(cont.)				
		Ud	iP		17 21 39.2	
			i		17 21 44.5	
			i		17 22 06.4	
		De	iP		17 21 06.4	
			i		17 21 12.0	
		Crete (h = 45 km).				
"	30	Up	iP		00 55 12.1	
			i(PP)		00 58 12.4	
			i(PP)		00 59 14.4	
			iPP		00 59 25.3	
			i		01 05 12.8	
			iPKKP		01 10 55.6	
			i		01 11 04.7	
			iP'P'		01 19 02.6	
					micr	sec
			P	Z'	1.9	2.5
			PP	Z'	8.1	2.5
			Mx	E	64	24
			Mx	N	87	25
			Mx	Z	86	21
		Ki	iP		00 55 24.9	
			i(PP)		00 59 36.0	
			iPKKP		01 10 31.3	
			i		01 10 41.6	
			i		01 10 52.9	
					micr	sec
			(PP)	Z'	1.5	2.3
			Mx	E	80	21
			Mx	N	39	20
			Mx	Z	55	21
		Sk	iP		00 55 05.8	
			i		00 55 09.5	
			i		00 56 07.2	
			i(PP)		00 57 59.9	
			i(PP)		00 59 06.1	
			iPKKP		01 10 42.9	
			i		01 10 53.5	
			iP'P'		01 19 06.2	
		Um	iP		00 55 21.1	
			i		00 56 08.1	
			i(PP)		00 59 31.1	
			iPKKP		01 10 32.0	
			i		01 10 42.4	
			iP'P'		01 18 59.1	
		Ud	iP		00 55 03.7	
			i(PP)		00 58 07.0	
			i(PP)		00 59 03.4	
			iPP		00 59 08.5	
			iPKKP		01 11 01.3	
			i		01 11 14.0	
		De	iP		00 54 58.6	
			i(PP)		00 58 00.7	
			iPP		00 59 00.2	
		(cont.)				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Nov. 30 (cont.)

	De	iPKKP	01 11 06.0
		i	01 11 18.2
		iP'P'	01 19 04.8

Chile-Bolivia (h = 80 km).
M = 7.3 (Up,Ki).
P-arrivals are consistently 12 s delayed when related to the NEIS solution.

"	30	Um	iPKP	08 15 22.5

New Hebrides Islands (h = 55 km).

"	30	Ud	eP	11 28 42
"	30	Up	iPKPl	13 51 33.0
		Sk	iPKPl	13 51 23.0
		Um	iPKPl	13 51 18.0
		Ud	iPKPl	13 51 31.3
		De	iPKPl	13 51 44.1
"	30	Ud	iP	19 53 13.2

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July 3, 1978

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S E I S M O L O G I C A L B U L L E T I N

U P P S A L A, K I R U N A, S K A L S T U G A N, U M E Å,

U D D E H O L M and D E L A R Y

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(Ud):	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(De):	56°28.2'N,	13°52.2'E;	h = 150 m

D E C E M B E R 1 - 31, 1976

1976
Dec. 1 Up iP 05 12 09.4
Sk iP 05 12 44.7
Um iP 05 12 32.0
Ud iP 05 12 20.0
Red Sea (h = N).

" 1 Um iP 08 11 19.6

" 1 Ki iP 09 09 20.8
Ud iP 09 09 35.4
Tadzhik-Sinkiang (h = N).

" 1 Ki iP 12 07 52.8
Ud iP 12 07 33.0
Iran (h = 45 km).

" 1 Up iP 14 28 22.3
micr sec
P Z' 0.1 1.0
Ki iP 14 28 17.8
Um iP 14 28 22.9 C
Ud iP 14 28 12.0
Costa Rica (h = 60 km).

" 2 Sk iSgl 00 31 55.6

" 2 Ki iP 01 23 49.2
Ud iP 01 24 04.4
Tadzhik-Sinkiang (h = 60 km).

" 2 Up iP 01 31 22.8 D
i 01 31 29.9
micr sec
P Z' 0.2 1.1
i Z' 0.2 1.1
Ki iP 01 30 48.2 D
i 01 30 54.8
micr sec
P Z' 0.1 1.2
(cont.)

1976
Dec. 2 (cont.)
Ki micr sec
i Z' 0.1 1.0
Sk iP 01 31 19.3 D
i 01 31 25.9
Um iP 01 31 02.6 D
i 01 31 10.0
Ud iP 01 31 29.6 D
i 01 31 37.1
i 01 31 55.7
De iP 01 31 42.9 D
i 01 31 49.3
Japan (h = 35 km).
m = 6.0 (Up,Ki).
Double P, in average 6.9 sec apart.

" 2 Ki iP 05 46 09.6
Sk iP 05 45 50.7
Um iP 05 46 10.6
Venezuela (h = 40 km).

" 2 Ud eP 11 34 47
Japan (h = 80 km).

" 2 Ki iP 17 27 30.7
Sinkiang, China (h = 40 km).

" 2 Up iP 21 57 12.5
Ki eP 21 56 55
Ud iP 21 57 21.1
Mindanao (h = 45 km).

" 3 Um iP 07 12 15.7

" 3 Up iP 10 42 10.9
Ud iP 10 42 16.0

" 3 Up iPKP2 13 45 42.2 C
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 3 (cont.)
Ki iPKP1 13 45 09.6
iPKP2 13 45 15.8
Um iPKP1 13 45 16.7 C
iPKP2 13 45 27.2
Ud iPKP2 13 45 48.2
New Zealand (h = 220 km).

" 3 Ud iP 14 09 21.8
Japan (h = 80 km).

" 3 Up iPKP1 17 21 02.7
micr sec
PKP1 Z' 0.1 1.0
Ki iPKP1 17 20 40.8
Sk iPKP1 17 20 56.4
Um iPKP1 17 20 51.2 C
i 17 21 06.3
Ud iPKP1 17 21 04.5
De iPKP1 17 21 15.6
Kermadec Islands (h = N).

" 3 Ud i(P) 18 11 16.4

" 4 Up iP 04 16 07.4
micr sec
P Z' 0.1 1.0
Ki iP 04 16 52.1
micr sec
P Z' 0.1 1.0
Ud iP 04 16 24.0
i 04 16 41.6
Turkey (h = 20 km).
m = 5.4 (Up,Ki).

" 4 Ud iP 05 44 09.4

" 4 Up iPKP2 05 51 03.8
Sk iPKP1 05 50 51.2
Um iPKP1 05 50 46.0
i 05 50 53.9
Ud iPKP1 05 50 58.9
Kermadec Islands (h = N).

" 4 Ki iP 07 22 28.6
micr sec
P Z' 0.1 1.0

" 4 Ki iP 09 17 13.7
Um eP 09 17 27
Ud iP 09 17 51.9
Bonin Islands (h = 540 km).

" 4 Ud eP 11 14 41

1976
Dec. 4 Up iPKP 14 36 22.8
Ki iPKP 14 36 38.4
Ud ePKP 14 36 21
South Sandwich Islands
(h = N).

" 4 Ki iP 15 45 16.9
Molucca Passage (h = 50 km).

" 4 Ki iP 21 20 28.7
Ud iP 21 20 42.8
Tadzhik-Sinkiang (h = 40 km).

" 4 Ki iPKP1 21 45 06.6
micr sec
Mx E 2.2 20
Um iPKP1 21 45 06.7
West of Macquarie Island
(h = N).

" 4 Ud iP 22 55 49.6
Leyte (h = 100 km).

" 5 Ud iP 13 45 08.8
Tadzhik-Sinkiang (h = 40 km).

" 5 Up iP 22 12 48.4 D
micr sec
P Z' 0.1 0.5
Ki iP 22 12 15.9 D
micr sec
P Z' 0.1 0.5
Sk iP 22 12 44.8
Um iP 22 12 29.9 D
Ud iP 22 12 55.3 D
De iP 22 13 07.1
Bonin Islands (h = 370 km).
m = 5.8 (Up,Ki).

" 5 Up iP1 23 41 07.2
micr sec
P1 Z' 0.1 1.0
Ki iP1 23 40 48.4
iP2 23 40 53.7
micr sec
P2 Z' 0.1 1.0
Sk eP2 23 41 16
Ud iP1 23 41 15.3
iP2 23 41 19.3
De eP1 23 41 25
Luzon (h = 40 km).
m = 5.5 (Up.Ki).

" 6 Up iP 04 03 39.8
(cont.)

Up = Uppsala, Ki = Kiruṇa, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 6 (cont.)

Up	i		04 04 00.0
Ki	iP		04 04 24.9
			micr sec
	P	Z'	0.1 1.0
Ud	iP		04 03 55.8
De	iP		04 03 38.9

Iran-USSR (h = 50 km).

" 6

Ki	iP		04 12 23.6 C
Ud	eP		04 11 56

Turkey-Iran (h = 70 km).

" 6

Ud	eP		04 37 05

" 6

Ki	eP		06 04 58
	i		06 05 01.2

Kirgiz-Sinkiang (h = 40 km).

" 6

Ud	iP		07 12 13.2

North of Ascension Island
(h = N).

" 6

Up	iP		16 23 28.0
Ki	iP		16 23 23.5
	i		16 23 26.2
Sk	iP		16 23 43.8
Ud	iP		16 23 41.5
	ipP		16 24 02.7

Burma-India.
h = 90 km (Ud).

" 7

Up	iP		05 03 55.4 C
	iPn		05 05 01.5
	iPP		05 05 14.1
			micr sec
	P	Z'	0.7 0.6
Ki	iP		05 03 38.8 C
	iPn		05 04 38.5
			micr sec
	P	Z'	1.2 0.6
Sk	iP		05 04 09.9 C
	iPP		05 05 33.7
Um	iP		05 03 39.6 C
Ud	iP		05 04 11.6 C
De	iP		05 04 18.7 C
	iPP		05 05 44.9

Eastern Kazakh SSR.
m = 6.8 (Up,Ki).
Underground explosion.

" 7

Up	iP		09 47 39.1
Ki	iP		09 47 03.8
Um	iP		09 47 18.3

(cont.)

1976
Dec. 7 (cont.)

Ud	iP		09 47 46.3

Japan (h = 340 km).

" 8

Ud	iP		08 48 34.1

" 8

Ud	iP		09 30 40.9

Bonin Islands (h = 500 km).

" 8

Um	iP		15 01 05.3
Ud	iP		15 01 11.2

Nevada.
Underground explosion.

" 8

Up	iP		19 30 41.4
	i		19 30 42.7
	i		19 30 54.0
			micr sec
	i	Z'	0.2 1.0
	i	Z'	0.3 1.3
	Mx	E	0.4 15
Ki	iP		19 29 56.2
	i		19 30 05.7
			micr sec
	P	Z'	0.1 1.0
	Mx	E	0.7 17
	Mx	N	0.6 15
	Mx	Z	0.5 14
Sk	iP		19 30 31.6
Um	iP		19 30 16.6
	i		19 30 28.4
Ud	iP		19 30 47.5
	i		19 30 59.1
De	iP		19 31 05.8
	i		19 31 09.0

Kurile Islands (h = N).
m = 6.1, M = 5.3 (Up,Ki).

" 9

Sk	i		03 38 27.1
	i		03 38 35.9
Ud	iPKP2		03 38 31.7

Kermadec Islands (h = 70 km).

" 9

Up	iP		10 02 27.0
	i		10 02 34.1
	iS		10 11 55
			micr sec
	i	Z'	0.1 1.3
	Mx	E	3.1 23
	Mx	N	2.6 24
	Mx	Z	7.0 25
Ki	iP		10 01 44.2
			micr sec
	Mx	E	6.0 23

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 9 (cont.)

Ki			micr	sec
	Mx	N	5.9	21
	Mx	Z	4.3	20
Sk	iP		10 02 00.1	
	i		10 02 05.7	
Um	iP		10 02 07.8	
	i		10 02 13.8	
	i		10 02 24.6	
	iS		10 11 18	
Ud	iP		10 02 20.8	
	i		10 02 28.2	
	i		10 02 46.4	
De	iP		10 02 39.9	
	i		10 02 47.2	

Oregon (h = 20 km).
M = 5.8 (Up,Ki).

" 9	Up	eP	10 09 42
	Sk	eP	10 09 16
		i	10 09 18.9
	Ud	iP	10 09 36.0

Oregon (h = 20 km).

" 9	Up	ipP	10 39 37.8
	Sk	epP	10 39 12
	Ud	eP	10 39 26
		ipP	10 39 33.7

Oregon (h = 20 km).

" 9	Ud	eP	10 47 26
		i	10 47 40.6

Oregon (h = 20 km).

" 9	Up	iP	13 14 59.8
	Ki	iP	13 14 14.4
	Ud	iP	13 15 06

Kurile Islands (h = N).

" 9	Up	iSgl	14 27 49.0
	Sk	iSgl	14 27 50.4
	Ud	iSgl	14 26 48.0
	De	eSgl	14 26 55

Coast of south Norway, 58.3°N, 6.5°E.
Origin time = 14 24 43.
M_L = 2.7 (Ud).
By combination with Bergen and Kongsberg readings.

" 9	Up	iP	15 48 31.1 D	
			micr	sec
		P	Z' 0.1	0.6

(cont.)

1976
Dec. 9 (cont.)

Ki	iP		15 47 45.1 D	
			micr	sec
	P	Z'	0.1	0.7
Sk	iP		15 48 21.1	
Um	iP		15 48 05.3 D	
Ud	iP		15 48 37.0 D	
De	iP		15 48 55.1 D	

Kurile Islands (h = 110 km).
m = 5.7 (Up,Ki).

" 9	Up	iP	16 09 58.3
	Ki	iP	16 09 05.3
	Um	iP	16 09 30.5
	Ud	iP	16 10 01.7

Kamchatka (h = N).

" 9	Ud	iP	18 32 07.3 C

" 9	Ki	iP	20 10 42.0
		i	20 10 44.6
	Ud	iP	20 10 22.7

Iran (h = 55 km).

" 10	Up	iP	10 42 14.3
	Ki	iP	10 41 47.7

Mariana Islands (h = 480 km).

" 10	Ki	iP1	11 00 27.7	
		iP2	11 00 31.6	
			micr	sec
		P2	Z' 0.1	0.9
	Um	iP2	11 00 36.8	
	Ud	iP1	11 00 53.9	
		iP2	11 00 57.1	

Mindanao (h = 40 km).

" 10	Ud	iP	11 52 54.4

" 10	Up	iP	18 04 18.7
		iPP	18 05 56.7
	Ki	iP	18 04 22.6
	Um	iP	18 04 14.4
	Ud	iP	18 04 35.5
		i	18 05 31.2

Tadzhik-Sinkiang (h = 160 km).

" 10	Ud	iP	20 37 19.6

" 10	Up	iP	20 47 30.3	
			micr	sec
		P	Z' 0.1	1.0
	Ki	iP	20 47 29.5	
		i	20 47 48.9	

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 10 (cont.)

Ki			micr	sec
	P	Z'	0.1	1.0
Sk	iP		20 47 43.1	
Um	iP		20 47 27.0	
Ud	iP		20 47 39.4	

Sumatra (h = 90 km).
m = 5.9 (Up,Ki).

" 10	Up	iP	23 18 08.0	
		ipP	23 18 17.8	
		iS	23 28 38	
			micr	sec
		P	Z' 0.1	1.0
		pP	Z' 0.2	1.2
		Mx	E 2.2	19
		Mx	N 1.3	15
	Ki	iP	23 17 48.7	
		ipP	23 17 57.7	
		iS	23 28 07	
			micr	sec
		P	Z' 0.2	1.4
		pP	Z' 0.1	1.1
		Mx	N 2.9	17
	Um	iP	23 17 53.3	
		ipP	23 18 04.4	
		iSKS	23 28 12	
		iS	23 28 16	
	Ud	iP	23 18 17.1	
		ipP	23 18 26.2	

Luzon.
h = 35 km (Up,Ki,Um,Ud).
m = 6.1, M = 5.7 (Up.Ki).

" 11	Ki	iP	00 09 20.3

Iran-USSR (h = 30 km).

" 11	Up	iP	01 18 24.8
	Ki	iP	01 18 03.0
	Ud	iP	01 18 33.2

Formosa (h = 20 km).

" 11	Up	iP	04 15 51.7
	Ki	iP	04 16 35.5
	Sk	iP	04 16 29.5
	Um	iP	04 16 08.6
	Ud	iP	04 16 07.4
	De	iP	04 15 48.9

Iran-Iraq (h = 40 km).

" 11	Ud	iP	05 48 01.5

Japan (h = 70 km).

" 11	Up	iSn	07 54 24.9

(cont.)

1976
Dec. 11 (cont.)

Up	iS*	07 55 08.2
Ki	i(P)	07 51 41.0
	iPn	07 51 45.1
	iSn	07 52 25.4
	iSgl	07 52 42.6
Sk	iPn	07 51 58.7
	iSn	07 52 46.7
Um	iPn	07 52 15.5
	i	07 52 18.9
	iSn	07 53 12.8
	iS*	07 53 35.9
Ud	e(P)	07 52 42
	i	07 52 51.1
	iSn	07 54 09.9

Off coast of northern Norway, near 68°N, 11°E.
Origin time = 07 50 52.
M_L = 3.7 (Ki).

" 11	Ki	iSgl	07 46 09.6
	Sk	iSn	07 46 15.7
	Um	iSn	07 46 23.0
		iSgl	07 46 37.2
	Ud	iSgl	07 48 02.9

Nordland, Norway, near 66 1/2°N, 14°E.
Origin time = 07 44 42.
M_L = 2.3 (Ki,Sk,Um,Ud).
Explosion?

" 11	Um	iP	08 08 43.5
	Ud	iP	08 07 56.6
		i	08 08 03.4

" 11	Up	iP	08 49 30.8
	Ki	iP	08 48 37.8
		e	08 48 50
	Sk	iP	08 49 14.7
	Um	iP	08 49 03.6
	Ud	iP	08 49 35.3

Kamchatka (h = N).

" 11	Sk	eSgl	11 34 28
	Ud	iSgl	11 34 02.3
	De	eSgl	11 35 06

Southwest Norway, 60.4°N, 7.1°E.
Origin time = 11 32 23.
M_L = 2.2 (Ud).
By combination with Bergen and Kongsberg readings.

" 11	Up	iP	18 19 51.4

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 11 (cont.)

Up	i		18 19 53.7	
	i		18 19 59.4	
	iS		18 29 31	
			micr	sec
	i	Z'	0.2	1.0
	i	Z'	0.3	1.1
	Mx	E	3.0	16
	Mx	N	5.6	22
	Mx	Z	5.7	17
Ki	iP		18 19 53.6	
	i		18 19 54.9	
	i		18 19 59.8	
			micr	sec
	i	Z'	0.4	1.4
	i	Z'	0.7	1.5
	Mx	E	4.2	16
	Mx	N	6.6	17
	Mx	Z	4.8	17
Sk	iP		18 20 08.6	
	i		18 20 10.0	
Um	iP		18 19 49.6	
	i		18 19 56.4	
	iS		18 29 26	
Ud	iP		18 20 03.5	
	i		18 20 04.8	
	i		18 20 10.9	
De	iP		18 20 01.3	
	i		18 20 03.0	
	i		18 20 11.0	

Nicobar Islands (h = N).
m = 6.4, M = 6.0 (Up,Ki).
Double P, small and large,
in average 1.6 sec apart.

" 11	Up	iPl	18 43 35.8	
	Ki	iPl	18 43 37.6	
		iP2	18 43 42.7	
	Sk	eP2	18 43 58	
	Um	iPl	18 43 32.5	
	Ud	iPl	18 43 47.3	
	De	eP2	18 43 49	

Nicobar Islands (h = N).

" 11	Up	iS	23 31 24	
			micr	sec
		Mx	E	1.4	18
		Mx	N	1.1	21
		Mx	Z	2.7	20
	Ki	ePl	23 20 33	
		iP2	23 20 37.1	
		i	23 20 48.1	
			micr	sec
		i	Z'	0.1	1.2
		Mx	E	2.2	15

(cont.)

1976
Dec. 11 (cont.)

Ki			micr	sec
	Mx	N	1.5	15
	Mx	Z	2.4	17
Sk	ePl		23 20 35	
Um	iPl		23 20 47.4	
	iP2		23 20 50.6	
Ud	iP2		23 20 52.5	

Gulf of California (h = N).
M = 5.6 (Up,Ki).

" 12	Ud	iP	01 18 02.9	
" 12	Up	iP	01 20 09.1	C
		ipP	01 21 58.3	
		iPP	01 23 16.2	
		i(Sp)	01 29 18.5	
		iS	01 29 30.0	
			micr	sec
	P	Z'	1.6	1.0
	Mx	E	2.2	19
	Mx	N	2.2	18
	Mx	Z	3.3	20
Ki	iP		01 19 37.7	C
	i		01 20 25.9	
	ipP		01 21 24.9	
	iPP		01 22 12.6	
	iS		01 28 30.6	
			micr	sec
	P	Z'	1.1	0.9
	Mx	E	2.2	15
	Mx	N	2.9	16
	Mx	Z	1.9	15
Sk	iP		01 20 06.1	C
	i		01 20 28.2	
	ipP		01 21 54.7	
	iPP		01 23 13.9	
	iS		01 29 25.5	
Um	iP		01 19 51.0	C
	ipP		01 21 37.5	
	iS		01 28 55.3	
Ud	iP		01 20 16.1	C
	ipP		01 22 05.3	
	iS		01 29 43.7	
De	iP		01 20 27.6	C
	ipP		01 22 21.0	
	iS		01 30 07.2	

Bonin Islands.
h = 510 km (Up,Ki,Sk,Um,Ud,De).
m = 6.4, M = 5.7 (Up,Ki).

" 12	Up	iP2	05 33 38.6
	Ki	iPl	05 33 33.8
		iP2	05 33 41.5

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 12 (cont.)

Ki			micr	sec
	P2	Z'	0.1	1.0
Sk	iP2		05 33 55.9	
Um	iP1		05 33 30.8	
	iP2		05 33 36.9	
Ud	iP2		05 33 49.9	
De	iP2		05 33 47.7	

Nicobar Islands (h = N).

" 12	Up	iPKP1	05 47 43.9	
	Ud	iPKP1	05 47 46.4	
		i	05 47 57.0	
	De	iPKP2	05 48 01.7	

Kermadec Islands (h = 70 km).

" 12	Up		micr	sec
		Mx	E 1.2	20
		Mx	N 1.8	20
	Ki	iP	08 00 40.5	
		i	08 00 48.7	
			micr	sec
		P	Z' 0.1	1.0
		Mx	E 1.2	12
		Mx	N 1.3	13
		Mx	Z 0.9	11
	Sk	iP	08 00 13.1	
	Ud	iP	08 00 12.5	

Iran-USSR (h = 40 km).
M = 4.8 (Up,Ki).

" 12	Ud	iP	10 47 27.1

Sinkiang, China (h = 70 km).

" 12	Up	ipP	13 14 22.8
	Ud	iP	13 14 21.1

Albania (h = N).

" 12	Ud	iP	20 32 55.9
" 12	Ud	iP	21 25 37.2
		i	21 25 45.3
" 13	Up	iP	06 47 28.3
		ipP	06 47 33.1
		iS	06 56 02
			micr sec
		P	Z' 0.2 1.2
		pP	Z' 0.2 1.1
		Mx	E 3.9 17
		Mx	N 14 17
		Mx	Z 6.8 20
	Ki	iP	06 47 13.7

(cont.)

1976
Dec. 13 (cont.)

Ki	i		06 47 15.1
	ipP		06 47 19.2
	i		06 47 32.7
			micr sec
	i	Z'	0.1 0.9
	i	Z'	0.2 1.0
	Mx	E	7.4 13
	Mx	N	5.6 13
	Mx	Z	7.9 13
Sk	iP		06 47 39.5
	i		06 47 40.2
	ipP		06 47 44.2
	iPP		06 50 09.0
Um	iP		06 47 17.0
	i		06 47 17.7
	ipP		06 47 21.6
	iS		06 55 32
Ud	iP		06 47 40.5
	i		06 47 41.7
	ipP		06 47 46.1

Szechwan, China.
h = 15 km (Up,Ki,Sk,Um,Ud).
m = 6.2, M = 6.2 (Up,Ki).

" 13	Um	iP		21 25 47.9
	Ud	iP		21 26 01.8
		i		21 26 07.3
" 13	Up	iP		23 13 31.5 D
				micr sec
		P	Z'	0.1 0.9
	Ki	iP		23 12 55.4 D
				micr sec
		P	Z'	0.1 0.9
	Sk	iP		23 13 25.9
	Um	iP		23 13 11.1 D
		i		23 13 16.5
	Ud	iP		23 13 38.1 D

Japan (h = N).
m = 5.7 (Up,Ki).

" 14	Ud	iP	11 56 27.7

Bay of Bengal (h = N).

" 14	Up	iP		16 18 30.7 D
		iS		16 28 14.8
				micr sec
		P	Z'	2.1 1.3
		Mx	E	24 15
		Mx	N	18 14
		Mx	Z	46 14
	Ki	eP		16 18 03
		iS		16 27 18

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 14 (cont.)

Ki			micr	sec
	Mx	E	37	14
	Mx	N	16	13
	Mx	Z	30	14
Sk	iP		16 18 30.0 D	
	iPP		16 21 23.8	
Um	iP		16 18 12.2 D	
	i		16 18 24.5	
	iS		16 27 40	
Ud	iP		16 18 38.9 D	

Ryukyu Islands (h = 40 km).
M = 6.8 (Up,Ki).

" 14 Sk iP 19 08 49.3
Ryukyu Islands (h = N).

" 14 Up iP 19 46 51.5

			micr	sec
	P	Z'	0.2	1.0
	Mx	E	2.2	12
	Mx	N	1.6	13
	Mx	Z	4.3	13
Ki			micr	sec
	Mx	E	2.9	13
	Mx	N	1.3	13
	Mx	Z	2.2	13
Sk	iP		19 46 50.1 D	
Um	iP		19 46 32.7	
Ud	iP		19 46 59.0 D	

Ryukyu Islands (h = 40 km).
M = 5.8 (Up,Ki).

" 14 Ud eP 20 32 48
Kamchatka (h = 45 km).

" 15 Up iP 00 34 52.6

	i		00 35 01.1	
	i		00 35 05.3	
			micr	sec
	P	Z'	0.1	0.7
	i	Z'	0.1	0.6
	i	Z'	0.1	0.5
Sk	iP		00 35 05.1	
	i		00 35 17.6	
Um	iP		00 34 35.9	
	i		00 34 44.1	
	i		00 34 48.5	
Ud	iP		00 35 07.8	
	i		00 35 16.2	
	i		00 35 20.2	

Kazakh-Sinkiang (h = N).

" 15 Up iP 04 45 34.0
(cont.)

1976
Dec. 15 (cont.)

Up			micr	sec
	P	Z'	0.1	0.6
Sk	iP		04 45 49.6 D	
Um	iP		04 45 27.1 D	
Ud	iP		04 45 46.7 D	

Burma-India (h = 100 km).

" 15 Ud i(PKP) 07 29 31.2
iPKP 07 29 41.5
Tonga Islands (h = 80 km).

" 15 Up iP 10 12 03.0
Ki iP 10 13 11.8
Ud iP 10 11 58.5

" 15 Ki iP 10 44 11.7

" 15 Up iP 12 37 47.3

			micr	sec
	P	Z'	0.1	0.9
Ki	iP		12 37 17.3	
			micr	sec
	P	Z'	0.1	1.0
Um	iP		12 37 29.5	
Ud	iP		12 37 55.2	

Ryukyu Islands (h = 5 km).
m = 5.7 (Up,Ki).

" 15 Up iP 13 28 35.1

			micr	sec
	P	Z'	0.1	1.0
Ki	iP		13 28 08.8	
			micr	sec
	P	Z'	0.2	1.1
Sk	iP		13 28 33.3	
Um	iP		13 28 18.7	
Ud	iP		13 28 41.4	
	iPP		13 32 38.4	

Mariana Islands (h = 80 km).
m = 6.2 (Up,Ki).

" 15 Ki iP 16 12 50.3
Sk iP 16 12 19.7
Ud iP 16 11 48.7
De iP 16 11 14.1
i 16 11 17.6
Crete (h = 50 km).

" 15 Ki iP 18 19 14.2
Ud iP 18 19 31.4
Sinkiang, China (h = N).

" 15 Ki iP 20 45 08.7
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 15 (cont.)

Sk	eP		20 45 23	
	i		20 45 25.7	
Um	iP		20 45 40.9	
Ud	i		20 47 07.1	

" 16

Ki	iP		08 34 42.7	
Ud	iP		08 34 56.0	

Tadzhik-Sinkiang (h = N).

" 16

Ki	iPKP		12 48 57.1	
			micr sec	
	PKP	Z'	0.1 1.3	
Um	iPKP		12 49 04.0	
Ud	e(PKP)		12 49 02	

Fiji Islands (h = 560 km).

" 16

Ud	iSg1		14 25 05.0	

" 16

Ki	iSg1		16 00 53.4	
	iSg2		16 00 57.7	
Um	iSg1		16 02 04.0	
	iSg2		16 02 09.8	

Finnish Lapland, 67.9°N, 26.8°E.
Origin time = 15 59 33.
By combination with Finnish station readings.

" 16

Ud	iP		17 45 42.7	

" 16

Ki	iP		22 24 56.9	
Ud	iP		22 25 05.1	

Sumatra (h = N).

" 17

Ki	iP		02 47 45.7	C
			micr sec	
	P	Z'	0.1 0.5	
Sk	iP		02 48 10.4	
Ud	iP		02 48 06.9	C

Kirgiz-Sinkiang (h = 60 km).

" 17

Ki	iP		04 40 22.5	

Sumatra (h = N).

" 17

Up	iP		10 11 41.8	
			micr sec	
	P	Z'	0.1 1.0	
Ki	iP		10 11 29.4	
Sk	iP		10 11 55.6	
Um	iP		10 11 30.2	
Ud	iP		10 11 55.8	

Tsinghai, China (h = N).

" 17

Ud	iP		10 31 57.8	

India-China (h = N).

1976
Dec. 18

Ud	iP		03 17 22.2	

Japan (h = 50 km).

" 18

Up	iP		05 16 02.8	
	ipP		05 16 13.1	
			micr sec	
	P	Z'	0.1 1.2	
	pP	Z'	0.1 1.0	
Ki	iP		05 15 31.8	
	ipP		05 15 43.4	
			micr sec	
	P	Z'	0.1 1.0	
	pP	Z'	0.1 1.0	
Sk	iP		05 16 01.7	
	ipP		05 16 13.8	
Um	iP		05 15 44.0	
	ipP		05 15 55.5	
Ud	iP		05 16 09.7	D
	ipP		05 16 22.2	
De	iP		05 16 25.5	

Ryukyu Islands.
h = 40 km (Up,Ki,Sk,Um,Ud).
m = 5.9 (Up,Ki).

" 18

Um	iP		06 25 38.6	

" 18

Up	iP1		11 05 32.1	
	iP2		11 05 36.9	
Ki	eP1		11 05 34	
	iP2		11 05 38.9	
Um	iP1		11 05 30.2	
	iP2		11 05 34.7	
Ud	iP2		11 05 48.3	C

Nicobar Islands (h = N).

" 18

Up	iPKP1		15 15 07.8	
Ud	iPKP1		15 15 09.1	
De	iPKP1		15 15 18.8	

Kermadec Islands (h = 55 km).

" 18

Ud	iP		15 25 15.1	

" 18

Ud	iP		23 18 48.6	

Crete (h = N).

" 19

Ki	iP		00 53 00.4	
Sk	iP		00 53 19.3	
Um	iP		00 52 50.7	
Ud	iP		00 53 11.0	D

Tadzhik SSR (h = 190 km).

" 19

Ud	iP		01 02 17.1	C

" 19

Up	iP		04 02 22.8	
Ki	iP		04 02 21.8	C
Sk	iP		04 02 36.1	
Um	iP		04 02 19.8	C
Ud	iP		04 02 31.9	

Sumatra (h = 100 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 19 Um iPKP 09 29 11.6 C
Ud iPKP 09 29 19.1
Fiji Islands (h = 600 km).

" 19 Up iP 11 02 33.8
micr sec
P Z' 0.1 1.1
Mx E 1.4 18
Mx N 1.0 18
Mx Z 2.6 19
Ki iP 11 02 13.1 C
micr sec
P Z' 0.3 1.2
Mx N 0.8 17
Sk iP 11 02 35.7
Um iP 11 02 20.7 C
Ud iP 11 02 41.4
iPP 11 06 38.9
De iP 11 02 49.5
West Caroline Islands (h = N).
m = 6.4, M = 5.4 (Up,Ki).

" 19 Ud iP 11 54 27.9
Kurile Islands (h = N).

" 19 Up iP 14 48 39.2
i 14 49 05.4
micr sec
i Z' 0.1 1.3
Ki iP 14 47 51.2
Sk iP 14 48 28.5
Um iP 14 48 13.8
Ud iP 14 48 44.4 C
De iP 14 49 02.6
Kurile Islands (h = 90 km).

" 19 Ud iP 19 22 18.7
Tadzhik SSR (h = 2 km).

" 19 Up iPKPl 22 04 57.5
Sk iPKPl 22 04 49.9
Ud iPKPl 22 04 58.6

" 20 Up iP 03 01 01.8
Ki eP 03 00 42

" 20 Um iP 03 22 35.2

" 20 Up iP 10 31 39.0
ipP 10 31 52.1
micr sec
P Z' 0.3 1.8
Ki iP 10 31 34.6 C
ipP 10 31 48.3
(cont.)

1976
Dec. 20 (cont.)
Ki micr sec
P Z' 0.5 2.0
Um iP 10 31 39.7 C
ipP 10 31 52.8
Ud iP 10 31 29.5 C
ipP 10 31 43.2
De iP 10 31 33.8 C
ipP 10 31 47.7
Costa Rica.
h = 50 km (Up,Ki,Um,Ud,De).
m = 6.3 (Up,Ki).

" 20 Up iP 17 23 41.4
Ki eP 17 22 58
i 17 23 10.1
Ud iP 17 23 34.9
i 17 23 52.5
Vancouver Island (h = 10 km).

" 20 Up iP 18 40 44.9
Ud iP 18 40 49.2
Kamchatka (h = N).

" 20 Up iP 19 56 36.2
Ud iP 19 56 38.9
Aleutian Islands (h = 100 km).

" 20 Up iP 20 44 11.6 D
i 20 44 20.0
iS 20 53 10.8
micr sec
P Z' 0.1 1.1
i Z' 0.5 1.3
Mx E 17 18
Mx N 30 16
Mx Z 42 18
Ki iP 20 43 25.9 D
i 20 43 35.1
eS 20 51 48
micr sec
P Z' 0.2 1.5
i Z' 0.5 1.7
Mx E 30 15
Mx N 37 17
Mx Z 46 17
Sk iP 20 43 44.1
i 20 43 52.3
Um iP 20 43 50.6 D
i 20 44 00.3
iS 20 52 35
Ud iP 20 44 03.1
De iP 20 44 26.5
i 20 44 34.7
Vancouver Islands (h = 10 km).
m = 6.5, M = 6.7 (Up,Ki).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 20 Up iP 21 17 39.7
Ud iP 21 17 33.6
Vancouver Island (h = 10 km).

" 20 Up iP 21 23 49.6
Ud iP 21 23 41.8
Vancouver Island (h = 10 km).

" 20 Up iP 21 32 33.5
Ud iP 21 32 26.3
Vancouver Island (h = 10 km).

" 21 Ki iP 00 10 16.3
Um eP 00 10 22
Ud eP 00 10 41
Molucca Passage (h = N).

" 21 Up iP 04 10 00.4
Ki eP 04 09 30
Ryukyu Islands (h = N).

" 21 Ki iP 04 30 31.6
Ud iP 04 30 21.5
Mindanao (h = 70 km).

" 21 Um iP 15 17 55.6
Ud iP 15 18 25.1
Japan (h = 60 km).

" 21 Up iP 18 47 41.0
Ki iP 18 47 27.6
Um iP 18 47 30.0
Ud iP 18 47 53.5
Szechwan, China (h = N).

" 21 Up iP 21 33 16.0
Ud iP 21 33 13.5

" 21 Up iP 22 28 44.5 C
i 22 28 56.0
micr sec
P Z' 0.1 0.9
Ki iP 22 28 10.8 C
micr sec
P Z' 0.1 1.0
Sk iP 22 28 40.4
Um iP 22 28 25.4 C
i 22 28 37.3
Ud iP 22 28 51.0 C
De iP 22 29 03.9
Bonin Islands (h = N).
m = 5.6 (Up,Ki).

" 22 Up iP 01 14 17.1 D
(cont.)

1976
Dec. 22 (cont.)
Up iPP 01 17 37.8
i 01 17 54.2
iS 01 24 44
micr sec
P Z' 0.4 1.1
Mx E 1.0 17
Mx N 1.8 17
Ki iP 01 13 46.7 D
micr sec
P Z' 0.7 0.9
Mx E 0.8 14
Mx N 1.8 13
Mx Z 0.8 15
Sk iP 01 14 13.9 D
i 01 17 38.0
Um iP 01 14 00.2 D
iPP 01 17 07.2
iS 01 24 14.4
Ud iP 01 14 23.2 D
De iP 01 14 35.1
Volcano Islands (h = 50 km).
m = 6.6, M = 5.6 (Up,Ki).

" 22 Up iP 02 37 41.9
i 02 37 49.7
Ki iP 02 37 09.7
Um iP 02 37 22.8
i 02 37 31.5
Ud iP 02 38 01.6
Ryukyu Islands (h = 35 km).

" 22 Ki eP 07 39 47
Ryukyu Islands (h = N).

" 22 Ki iP 13 23 42.2
Mindanao (h = 70 km).

" 22 Ki iP 17 54 30.8
micr sec
P Z' 0.1 1.3
Sk iP 17 54 15.4
Um iP 17 54 32.8
Ud iP 17 54 17.2
De iP 17 54 19.7
Colombia (h = 160 km).

" 22 Ki iPKPl 20 45 12.3
Sk iPKPl 20 45 26.1
Um iPKPl 20 45 20.2
North Island, New Zealand
(h = 290 km).

" 23 Up iP 07 08 09.7
Ki iP 07 07 16.8

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 23 Up iPKPl 08 55 45.5
Um iPKPl 08 55 32.7
Ud iPKPl 08 55 47.9
De iPKPl 08 55 58.1
Tonga-Kermadec Islands
(h = 570 km).

" 23 Up iP 09 50 36.5 D
i 09 50 45.7
micr sec
P Z' 0.2 1.2
i Z' 0.1 1.0
Mx E 1.6 21
Mx N 3.4 19
Mx Z 4.3 17
Ki iP 09 49 57.3 D
i 09 50 10.1
micr sec
P Z' 0.2 1.5
Mx E 4.7 16
Mx N 1.9 16
Mx Z 2.8 20
Sk eP 09 50 10
Um iP 09 50 17.6
iS 09 59 37
Ud iP 09 50 30.3 D
De eP 09 50 48
California (h = 15 km).
m = 6.1, M = 5.8 (Up,Ki).

" 23 Up i(P) 09 54 06.5

" 23 Up iP 14 22 50.1
Ud iP 14 23 00.6

" 24 Ud iP 03 33 18.7

" 24 Up iPKPl 14 37 41.4
micr sec
PKPl Z' 0.1 1.0
Ki iPKP 14 37 22.8
Sk iPKPl 14 37 35.2
Um iPKPl 14 37 30.2 C
Ud iPKPl 14 37 43.5 C
De i 14 37 50.1
iPKPl 14 37 51.9
Kermadec Islands (h = 110 km).

" 24 Up iP 14 52 17.8
De eP 14 51 59
Rumania (h = 160 km).

" 24 Ud iP 21 53 52.1
Dodecanese Islands (h = 160 km).

1976
Dec. 25 Up iP 01 17 21.3
Ki iP 01 17 13.2
ipP 01 17 31.2
Sk iP 01 17 36.8
Ud iP 01 17 34.8 D
ipP 01 17 52.5
Burma-India.
h = 70 km (Ki,Ud).

" 25 Ki ePn 20 53 28
i 20 54 33.2
Sk iPn 20 53 21.8 C
iSn 20 54 10.1
Um iSn 20 54 57.3
Ud iSn 20 55 37.3
Norwegian Sea, near 67 3/4°N, 7 1/2°E.
Origin time = 20 52 17.
By combination with Finnish station readings.

" 25 Ki iP 22 25 31.6
micr sec
P Z' 0.1 1.0
Iran-USSR (h = N).

" 26 Up iPKPl 02 46 39.0
iPKP2 02 46 43.8
micr sec
PKPl Z' 0.1 0.9
PKP2 Z' 0.1 1.0
Ki iPKP 02 46 22.9
Sk iPKPl 02 46 33.3
Um iPKPl 02 46 26.9 C
i 02 46 39.3
Ud iPKPl 02 46 40.7
Kermadec Islands (h = 40 km).

" 26 Ud iP 08 46 19.6
Greece (h = N).

" 26 Ki iP 14 57 22.0
Sk epP 14 57 59
Um iP 14 57 49.4
Ud iP 14 58 14.1
Alaska Peninsula (h = 40 km).

" 27 Ki iP 01 28 26.1 C
Sk iP 01 28 46.4
Um iP 01 28 17.9 C
ipP 01 28 43.3
Tadzhik-Sinkiang.
h = 120 km (Um).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976
Dec. 27 Um iP 04 33 13.4
Japan (h = N).

" 27 Up iP 07 58 52.6
i 07 58 56.0
micr sec
i Z' 0.2 1.0
Mx E 3.6 13
Mx N 1.7 10
Mx Z 3.0 9
Ki iP 08 00 10.7
micr sec
Mx E 5.4 12
Mx N 2.9 9
Mx Z 1.4 10
Sk iP 07 59 33.4
i 07 59 41.5
Um iP 07 59 35.4
i 07 59 41.5
iS 08 04 01
Greece-Albania (h = 30 km).
M = 5.3 (Up,Ki).

" 27 Up iP 08 01 48.5
Sk iP 08 02 30.7
Probably Greece-Albania,
from the same focal area
as the preceding event.

" 27 Ki iP 16 27 15.7
Mindanao (h = 110 km).

" 27 Um i(P) 16 39 32.9
i 16 40 16.9

" 27 Up iP 18 19 16.8
Um iP 18 18 53.4
i 18 18 56.2
Japan (h = 60 km).

" 28 Ki iP 03 08 31.7
Um iP 03 08 32.9
North Atlantic Ocean (h = N).

" 28 Ki iP 11 54 47.5
Um iP 11 54 37.0
Afghanistan-USSR (h = 220 km).

" 28 Up iSKS 14 16 31
micr sec
Mx E 1.8 19
Um iSKS 14 16 42
Chile-Bolivia (h = 90 km).

1976
Dec. 28 Up iP 16 56 14.8
Ki iP 16 55 38.2
Um iP 16 55 54.0
i 16 56 07.4
Japan (h = N).

" 28 Up iP 18 11 48.5 C
micr sec
P Z' 0.1 1.0
Ki iP 18 11 14.8 C
micr sec
P Z' 0.1 1.0
Sk iP 18 11 22.9
Um iP 18 11 34.0 C
Nevada.
m = 6.0 (Up,Ki).
Underground explosion.

" 28 Up iPKPl 20 35 02.9
Tonga-Kermadec Islands
(h = 490 km).

" 29 Up iP 14 47 59.7
iS 14 57 10
micr sec
P Z' 0.3 1.2
Ki iP 14 47 21.4
i 14 47 22.7
micr sec
i Z' 0.3 1.1
Sk iP 14 47 54.9
Um iP 14 47 37.4
iS 14 56 31
Japan (h = 150 km).
m = 6.0 (Up,Ki).

" 29 Um iP 20 28 48.0
i 20 29 06.9
Adriatic Sea (h = 10 km).

" 30 Up iP 04 03 52.7 C
iPP 04 05 02.4
micr sec
P Z' 0.1 1.0
Ki iP 04 03 37.0 C
micr sec
P Z' 0.1 0.5
Sk iP 04 04 08.1 C
Um iP 04 03 37.4 C
Eastern Kazakh SSR.
m = 5.8 (Up,Ki).
Underground explosion.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976 Dec.	30	Up	iP		05 32 36.3	
		Ki	iP		05 31 43.6	
			i		05 31 54.0	
		Um	iP		05 32 07.9	
			i		05 32 18.5	
		Kamchatka (h = 25 km).				
"	30	Up	iPKPl		13 28 14.8	C
					micr	sec
			PKPl	Z'	0.1	0.7
		Ki	iPKP		13 28 04.2	
		Um	iPKPl		13 28 03.3	
		De	iPKPl		13 28 27.3	
		Tonga-Kermadec Islands (h = 500 km).				
"	30	Up	iP		15 17 31.5	
		Sk	iP		15 18 12.1	
		Um	iP		15 18 07.8	
		De	iP		15 17 03.2	
			i		15 17 10.4	
		Greece (h = 35 km).				
"	30	Ki	iP		18 39 29.2	
					micr	sec
			P	Z'	0.1	1.2
		Um	iP		18 39 39.6	
		South of Mariana Islands (h = 30 km).				
"	30	Ki	iP		20 14 12.6	
		Um	iP		20 14 23.3	
		South of Mariana Islands (h = 20 km).				
"	30	Up	iP		22 13 13.2	
			i		22 13 23.8	
					micr	sec
			i	Z'	0.1	1.2
		Kurile Islands (h = 40 km).				
"	30	Up	iPKPl		23 29 24.0	
		Um	i		23 29 21.6	
		Ud	iPKP2		23 29 29.0	
		De	iPKPl		23 29 35.9	
		Kermadec Islands (h = N).				
"	31	Up	iP		09 27 57.8	
					micr	sec
			P	Z'	0.1	1.2
		Ki	iP		09 27 14.4	
					micr	sec
			P	Z'	0.2	1.1
		Um	iP		09 27 33.6	
		(cont.)				
1976 Dec.	31	(cont.)				
		Ud	iP		09 28 04.7	
		Japan (h = 110 km).				
		m = 5.8 (Up,Ki).				
"	31	Ki	iP		23 33 41.8	
		Ceram (h = N).				

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July 11, 1978