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

NOTES (1) Starting with this bulletin, regional magnitudes (M_L with recalculation into m) will be given for Fennoscandian events on the basis of methods developed in Report No. 5-76 from our institute.
(2) A large number of Grängesberg rockbursts, following the event on Aug. 30, 1974, have been recorded in 1975-1976 but will be omitted here. All readings and their interpretation up to July, 1976, incl., are collected in Report No. 6-76 from our institute.
(3) Our institute reports are distributed according to our mailing list. Additional copies are available free of charge upon special request, as long as our stock lasts.

J A N U A R Y 1 - 31, 1975

1975							
Jan.	1	Up	iP			00 35 32.9	
			iPP			00 36 06.8	
					micr	sec	
			P	Z'	0.2	0.9	
			PP	Z'	0.2	1.2	
			Mx	E	3.3	19	
			Mx	N	2.8	16	
		Ki	iP			00 36 28.8	
			i			00 36 34.3	
					micr	sec	
			P	Z'	0.1	0.9	
			Mx	N	2.2	14	
		Sk	iP			00 36 12.7	
		Um	iP			00 35 57.1	
			i			00 36 02.8	
		Ud	iP			00 35 46.4	
			i			00 35 52.7	
		De	iP			00 35 21.9	
			i			00 35 28.0	
		Turkey-Syria (h = 15 km).					
		m = 5.7, M = 5.1 (Up,Ki).					
		Double P, average separation 6.0 sec.					
"	1	Up	iP			04 04 59.8	
		(cont.)					

1975							
Jan.	1	(cont.)					
		Up	ipP			04 05 16.1	
					micr	sec	
			P	Z'	0.1	1.0	
			pP	Z'	1.2	1.9	
			Mx	N	4.0	22	
		Ki	iP			04 04 02.7	
			ipP			04 04 19.8	
					micr	sec	
			P	Z'	0.2	0.9	
			pP	Z'	0.5	1.1	
			Mx	N	2.9	18	
		Sk	iP			04 04 30.9	C
			ipP			04 04 47.3	
		Um	iP			04 04 32.6	
			ipP			04 04 48.6	
		Ud	iP			04 04 56.6	
			ipP			04 05 12.5	
		De	iP			04 05 20.7	C
			ipP			04 05 37.6	
		Alaska.					
		h = 70 km (Up,Ki,Sk,Um,Ud, De).					
		m = 6.0, M = 5.4 (Up,Ki).					
"	1	Up	iP			10 50 33.8	
		(cont.)					

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

1975 Jan.	1	(cont.)				
		De	iP	10 50 09.1		
		Greece (h = N).				
"	1	Ud	iP	11 32 55.2		
		Japan (h = 70 km).				
"	1	Um	iP	12 58 08.1		
		Colombia (h = 160 km).				
"	1	De	i(SKP1)	17 14 46.7		
"	1	Up	iP	20 38 40.8		
		Ki	iP	20 38 26.3		
				micr	sec	
			P Z'	0.2	1.0	
		Um	iP	20 38 30.8		
		Banda Sea (h = 20 km).				
"	1	Up	iPKP1	21 56 16.7		
		De	iPKP1	21 56 29.0		
"	1	Um	iP	23 05 13.1		
		Guatemala (h = 80 km).				
"	2	Ki	iP	06 23 29.8		
		Um	iP	06 24 11.6		
		Greenland Sea (h = N).				
"	2	Up	i(P)	07 30 06.0	C	
				micr	sec	
			(P) Z'	0.1	0.8	
"	2	Up	iP	09 09 55.1		
			i	09 10 17.2		
			iS	09 18 46		
				micr	sec	
			P Z'	0.1	1.5	
			Mx E	14	18	
			Mx N	11	18	
			Mx Z	15	15	
		Ki	iP	09 09 01.2		
				micr	sec	
			P Z'	0.1	1.5	
			Mx E	18	13	
			Mx N	14	15	
			Mx Z	15	18	
		Um	iP	09 09 25.8		
		Ud	iP	09 09 56.7		
		Kurile Islands (h = 50 km).				
		m = 5.7, M = 6.5 (Up,Ki).				
"	2	Ud	iP	09 57 58.2		

1975 Jan.	2	Up	iP	14 28 12.9	C	
				micr	sec	
			P Z'	0.2	0.7	
		Ki	iP	14 27 44.6	C	
				micr	sec	
			P Z'	0.6	1.0	
		Sk	iP	14 28 10.2	C	
		Um	iP	14 27 56.6	C	
		Ud	iP	14 28 19.3	C	
		De	iP	14 28 30.3	C	
		Mariana Islands (h = 310 km)				
		m = 6.3 (Up,Ki).				
"	2	Up	iP	19 42 09.3	C	
				micr	sec	
			P Z'	0.7	1.6	
		Ki	iP	19 41 14.7	C	
				micr	sec	
			P Z'	0.1	1.0	
		Um	iP	19 41 40.4		
		Ud	iP	19 42 12.7	C	
		De	iP	19 42 34.2	C	
		Kamchatka (h = 45 km).				
		m = 6.2 (Up,Ki).				
"	3	Up	iPKP1	00 48 41.1		
			iSKP1	00 51 32.3		
		Ki	iPKP	00 48 29.4		
		Sk	iPKP	00 48 33.6		
		Um	iPKP	00 48 34.0		
			iSKP1	00 51 21.0		
		Ud	iPKP1	00 48 41.9		
			iSKP1	00 51 34.9		
		De	iPKP1	00 48 53.9		
			iSKP1	00 51 42.5		
		Fiji Islands (h = 570 km).				
"	3	Up	iP	02 05 04.9		
			iPP	02 05 36.6		
				micr	sec	
			PP Z'	0.1	1.0	
		Sk	iP	02 05 51.5		
		Ud	iP	02 05 13.0		
		De	iP	02 04 43.7		
			i	02 04 50.8		
		Dodecanese Islands				
		(h = 50 km).				
"	3	Up	iPKP	05 28 59.6		
		Um	iPKP	05 29 09.0	C	
		Ud	iPKP	05 28 59.0		
		South Sandwich Islands				
		(h = N).				
"	3	Um	iPKP1	13 11 18.5		
		Ud	iPKP1	13 11 31.2		

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

1975						
Jan.	3	Up	i(P)		22 59 21.0	
"	4	Ud	iP		00 31 23.1	
		Kamchatka (h = N).				
"	4	Up	iP		12 37 57.3	C
					micr	sec
			P	Z'	0.2	1.0
		Ki	iP		12 37 38.4	C
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		12 38 07.7	C
		Um	iP		12 37 42.9	C
		Ud	iP		12 38 11.1	C
		Tsinghai, China (h = N).				
		m = 5.9 (Up,Ki).				
"	4	Ki	iPKP1		20 57 01.7	
			iPKP2		20 57 14.1	
					micr	sec
			PKP2	Z'	0.1	1.3
		Um	iPKP2		20 57 21.7	
		Ud	iPKP2		20 57 52.4	
		New Zealand (h = 35 km).				
"	5	Ud	iPKP		10 00 35.8	
		Tonga Islands (h = 70 km).				
"	5	Up	iPKP		13 59 12.8	
		Ki	iPKP		13 59 28.9	C
		Um	iPKP		13 59 21.0	C
		South Sandwich Islands				
		(h = N).				
"	6	Ki	iP		00 32 20.5	
					micr	sec
			P	Z'	0.1	0.9
		Um	iP		00 33 04.4	
		Jan Mayen (h = N).				
"	6	Up	iPKP1		04 33 44.9	
"	6	Ud	iP		06 24 46.1	
			i		06 24 52.9	
"	6	Up	iP		19 21 32.8	
					micr	sec
			P	Z'	0.2	1.1
		Ki	iP		19 21 01.7	C
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		19 21 32.2	
		Um	iP		19 21 14.4	
		Ud	iP		19 21 41.2	C
		De	iP		19 21 54.3	
		Ryukyu Islands (h = 40 km).				
		m = 6.0 (Up,Ki).				

1975						
Jan.	6	Ud	iP		20 12 00.0	
		Greece (h = 15 km).				
"	6	Ud	iP		23 14 25.8	
"	6	Up	iP		23 22 54.6	
		Ki	iP		23 22 00.6	C
			ipP		23 22 31.2	
					micr	sec
			P	Z'	0.2	1.0
		Sk	iP		23 22 31.3	
		Um	iP		23 22 27.7	C
		Ud	iP		23 22 53.2	C
			ipP		23 23 24.6	
		De	iP		23 23 17.1	
		Aleutian Islands.				
		h = 130 km (Ki,Ud).				
"	7	Ki	iP		01 56 04.9	
		Ud	iP		01 56 58.4	
		(Kurile Islands).				
"	7	Ki	iP		01 56 21.7	
		Ud	iP		01 57 14.0	
		Kurile Islands (h = 120 km).				
"	7	Ki	iP		07 01 54.5	
"	7	Um	iP		08 18 12.8	D
		Ud	iP		08 18 38.2	
		South of Japan (h = 430 km).				
"	7	Sk	iP		08 42 10.4	
		Ud	iP		08 41 52.3	
		North of Ascension Island				
		(h = N).				
"	8	Up	iP		02 11 43.6	
			ipP		02 12 07.5	
			i(PP)		02 14 59.4	
			iPP		02 15 12.1	
			iSKS		02 22 03	
			iS		02 22 25	
					micr	sec
			P	Z'	0.2	1.3
			pP	Z'	0.7	1.5
			PP	Z'	0.7	1.9
			Mx	E	2.8	28
			Mx	N	6.5	27
			Mx	Z	4.0	26
		Ki	iP		02 11 42.4	
			ipP		02 12 07.3	
			iPP		02 15 05.5	
			iSKS		02 22 01	
			iS		02 22 21.2	

(cont.)

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

1975
Jan. 8 (cont.)

			micr	sec
Ki				
	P	Z'	0.4	1.3
	pP	Z'	0.7	1.3
	Mx	E	2.7	24
	Mx	N	4.3	22
	Mx	Z	4.7	25
Sk	iP		02 11 56.4	
	ipP		02 12 20.9	
	iPP		02 15 38.6	
Um	iP		02 11 39.4	
	ipP		02 12 04.9	
	iPP		02 15 11.5	
	iSKS		02 21 57	
	iS		02 22 21	
Ud	iP		02 11 52.3	
	ipP		02 12 17.1	
	iPP		02 15 24.1	
De	iP		02 11 51.3	
	ipP		02 12 15.1	

Sumatra.
h = 90 km (Up,Ki,Sk,Um,Ud,De).
m = 6.3, M = 5.8 (Up,Ki).
Between P and pP, there are two clear phases at all stations, following P after 7.5 and 16.5 sec in average.

" 8 Ki iP 11 53 39.9
Ud iP 11 54 32.6
Aleutian Islands (h = 55 km).

" 8 Up iSKPl 13 55 20.7

			micr	sec
	SKPl	Z'	0.1	0.8

Sk iSKPl 13 55 14.2
Ud iSKPl 13 55 24.2
New Hebrides Islands
(h = 120 km).

" 8 Up iP 14 50 58.7
Ki iP 14 51 06.1
Sk eP 14 50 48
Ud iP 14 50 46.3
Venezuela (h = 60 km).

" 8 Ud iP 16 16 57.8

" 8 Ki iP 19 02 49.4
Um iP 19 03 32.2

" 8 Up iP 19 09 37.7
Ki iP 19 09 00.2
Sk i 19 09 45.3
Um iP 19 09 16.2
Ud iP 19 09 44.6
Japan (h = 55 km).

1975
Jan. 8 Ud iP 19 33 08.6
Greece (h = 50 km).

" 8 Up iP 19 37 24.5
iS 19 41 23

			micr	sec
	P	Z'	0.3	0.7
	Mx	E	7.3	13
	Mx	N	7.0	9
	Mx	Z	11	9

Ki iP 19 38 38.2

			micr	sec
	P	Z'	0.1	0.8
	Mx	E	8.5	13
	Mx	N	7.8	10
	Mx	Z	8.5	10

Sk iP 19 38 05.9
i 19 38 09.1
Um iP 19 38 01.3
i 19 38 04.5
iS 19 42 31
Ud iP 19 37 32.6
iS 19 41 44.5
De iP 19 36 55.9
Greece (h = 20 km).
m = 5.8, M = 5.6 (Up,Ki).

" 8 Up iP 19 43 28.4
Um iP 19 43 01.1
iPcP 19 43 33.4
Ud iP 19 43 31.9
Kurile Islands (h = 80 km).

" 8 Up iP 20 03 11.5
Sk iP 20 03 51.6
Um iP 20 03 49.8
Ud iP 20 03 13.2
De iP 20 02 38.4
Greece (h = 35 km).

" 8 Ud iP 20 29 32.1
Greece.

" 9 Up iP 02 23 59.1
Ki iP 02 23 58.3 C

			micr	sec
	P	Z'	0.1	0.8

Sk iP 02 24 12.7
Um iP 02 23 56.2 C
Ud iP 02 24 08.6 C
ipP 02 24 36.7
De iP 02 24 10.3
Sumatra.
h = 110 km (Ud).

" 9 Ud iPKPl 03 49 00.1

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

1975						
Jan.	9	De	iPKP1	04 24 25.3		
		Fiji Islands (h = 550 km).				
"	9	Um	iPKP1	08 30 07.6		
"	9	Um	i(P)	10 03 46.2		
		Banda Sea (h = 20 km).				
"	9	Up	iP	18 59 09.4		
		Ki	iP	19 00 17.0		
			i	19 00 28.5		
		Sk	iP	18 59 48.3		
		Ud	iP	18 59 14.9		
			i	18 59 27.1		
		Crete (h = 45 km).				
"	9	Up	iP	23 15 05.8		
			i	23 16 14.0		
			iSn	23 19 41.6		
				micr	sec	
			P	Z'	0.3	1.3
		Ki	iP	23 15 40.9		
				micr	sec	
			P	Z'	0.1	0.9
			Mx	E	1.9	9
			Mx	N	2.3	11
			Mx	Z	1.4	9
		Sk	iPn	23 16 04.8		
		Ud	iP	23 15 21.4		
			i	23 15 26.6		
		Caucasus (h = 30 km).				
		m = 5.8 (Up,Ki).				
"	9	Up	iP	23 45 23.7		
			iSn	23 50 07.4		
				micr	sec	
			P	Z'	0.1	1.1
		Ki	iP	23 46 01.5		
		Sk	iPn	23 46 34.7		
		Ud	iP	23 45 43.2		
		Caucasus (h = N).				
"	10	Ki	iP	00 03 03.2		
		Ud	iP	00 02 42.9		
		Caucasus (h = N).				
"	10	Up	iP	01 14 48.4		
			iSn	01 19 23.7		
		Ki	iP	01 15 17.1		
			iPn	01 15 56.4		
			iSn	01 20 56.8		
		Sk	iPn	01 15 51.2		
		Ud	iP	01 14 58.2		
		Caucasus (h = N).				
1975						
Jan.	10	Up	iP	01 34 43.7		
			iSn	01 39 20.8		
				micr	sec	
			P	Z'	0.1	1.0
		Ki	iP	01 35 18.1		
			iSn	01 41 12.0		
		Sk	iPn	01 35 49.9		
		Ud	iP	01 34 58.9		
		Caucasus (h = N).				
"	10	Up	iP	03 02 24.3		
		Ki	iP	03 02 06.8		
		Luzon (h = 40 km).				
"	10	Sk	iP	03 57 36.1		
		Ud	iP	03 57 01.0		
		Crete.				
"	10	Ud	iP	04 08 44.4		
		Afghanistan-USSR.				
		Intermediate depth.				
"	10	Ki	iPn	04 42 16.6		
		Ud	iP	04 41 17.5		
		Caucasus.				
"	10	Ud	i	10 04 44.1		
			i(Sg1)	10 04 57.2		
"	10	Ud	iP	12 39 29.0		
"	10	Ki	iP	14 12 29.0		
"	10	Up	i(P)	14 26 39.4		
		Ud	iP	14 26 49.5		
		Iran (h = N).				
"	10	Ud	i(P)	16 57 29.3		
"	10	Ud	iPKP	18 43 13.2		
		Solomon Islands (h = N).				
"	10	Up	iP	20 51 34.4		
			i	20 51 49.5		
				micr	sec	
			i	Z'	0.1	1.0
		Ki	iP	20 50 40.3		
		Ud	iP	20 51 34.0		
		De	iP	20 52 02.1		
		Aleutian Islands (h = 60 km).				
"	10	Ud	i(P)	23 11 02.3		
			i	23 11 04.6		
"	11	Ud	iP	02 35 50.4		

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

1975							
Jan.	11	Um	iPKPl		04 44 13.7		
"	11	Ud	iPKPl		08 06 18.9	C	
"	11	Um	iPKPl		09 49 46.0		
"	11	Up	iP		10 11 52.6		
		Iran (h = N).					
"	11	Ud	iP		10 21 53.8		
		Iran (h = N).					
"	11	Up	iP		10 39 22.1		
		Ki	iP		10 39 23.8		
		Sk	iP		10 39 38.1		
		Um	iP		10 39 21.4		
		Ud	iP		10 39 34.2		
		De	iP		10 39 33.7		
		Sumatra (h = 100 km).					
"	11	Up	iP		12 15 26.9		
			i		12 15 37.8		
					micr	sec	
			P	Z'	0.1	1.0	
		Ki	iP		12 16 04.7		
			i		12 16 16.6		
					micr	sec	
			P	Z'	0.1	1.0	
		Sk	iP		12 16 02.2		
			i		12 16 13.8		
		Um	iP		12 15 41.4		
			i		12 15 52.9		
		Ud	iP		12 15 40.0		
			i		12 15 53.1		
		De	iP		12 15 29.1		
		Iran (h = 25 km).					
		m = 5.5 (Up,Ki).					
		The second phase appears in average 11.8 sec after P (either another shock, or pP with h = 55 km).					
"	11	Ud	iP		13 32 33.8	C	
"	11	Sk	iP		15 58 40.8		
		Ud	iP		15 58 02.2		
		Italy (h = 20 km).					
"	11	Ki	iP		18 13 27.3		
		Sk	eP		18 12 57		
		Um	eP		18 12 56		
		Ud	iP		18 12 25.9		
		De	iP		18 11 55.8		
		Crete (h = N).					
1975							
Jan.	11	Um	iP		18 20 14.5		
		Guatemala (h = 100 km).					
"	11	Up	iP		21 33 11.5		
			i		21 33 17.2		
					micr	sec	
			P	Z'	0.1	1.0	
			Mx	N	1.7	19	
		Ki	iP		21 32 59.2		
			i		21 33 04.7		
					micr	sec	
			P	Z'	0.1	1.0	
			Mx	E	0.7	10	
			Mx	N	1.8	18	
			Mx	Z	0.6	10	
		Sk	iP		21 33 23.8		
		Um	iP		21 33 01.4		
			i		21 33 06.0		
		Ud	iP		21 33 24.7		
			i		21 33 29.9		
		Yunnan, China (h = N).					
		m = 6.0, M = 5.3 (Up,Ki).					
		The second phase, in average 5.3 sec after P, gives h = 20 km, if interpreted as pP.					
"	11	Ki	iP		22 23 22.7		
			ipP		22 23 36.9		
		Um	iP		22 23 40.9	C	
			ipP		22 23 54.7		
		Ud	iP		22 24 11.5		
			ipP		22 24 26.9		
		Japan.					
		h = 55 km (Ki,Um,Ud).					
"	11	Up	iPKP		22 53 37.9		
		Ki	iPKP		22 53 24.3		
		Sk	iPKP		22 53 35.3		
		Um	iPKP		22 53 31.0	C	
		New Hebrides Islands (h = 150 km).					
"	12	Um	iP		01 48 42.1		
		Ud	iP		01 48 53.7		
		California (h = 2 km).					
"	12	Ud	i(Sgl)		02 10 49.3		
"	12	Um	iP		03 11 47.9		
			i		03 11 55.4		
"	12	Ud	iPKPl		03 23 46.2		
		De	iPKPl		03 23 57.1		

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

1975							
Jan.	12	Up	iP			04 20 04.4	
		Ki	iP			04 20 41.7	
		Sk	iP			04 20 41.1	
		Um	iP			04 20 18.2	
		Ud	iP			04 20 17.6	
		Iran (h = N).					
"	12	Ud	iP			04 35 19.8	
"	12	Up	iP			04 45 07.8	
			i			04 45 17.3	
						micr	sec
			P	Z'		0.1	1.0
			i	Z'		0.2	1.0
		Ki	iP			04 45 48.9	
		Sk	eP			04 45 49	
			iPn			04 46 12.0	
		Um	iP			04 45 20.1	
		Ud	iP			04 45 18.3	
			i			04 45 24.3	
		De	iP			04 45 03.2	
			i			04 45 15.4	
		Turkey (h = 40 km).					
"	12	Ud	iP			05 18 46.4	
"	12	Sk	eP			09 34 17	
		Ud	iP			09 34 17.7	
"	12	Um	iPKPl			13 28 44.5	
"	12	Up	iSn			14 01 52.9	
		Ki	iP			13 57 49.7	
			iPn			13 58 30.9	
		Sk	iPn			13 58 20.0	
		Um	iP			13 57 25.4	
			iSn			14 02 31.4	
		Ud	iP			13 57 31.0	
		De	iPn			13 57 37.4	
		Caucasus (h = N).					
"	12	Um	iP			14 02 56.9	
		Greece.					
"	12	Up	iPKPl			18 07 15.8	
						micr	sec
			PKPl	Z'		0.5	1.5
			Mx	N		2.1	20
			Mx	Z		2.8	19
		Ki	iPKPl			18 06 54.6	
						micr	sec
			PKPl	Z'		0.5	1.7
			Mx	E		1.1	17
			Mx	N		1.2	18
			Mx	Z		1.1	18
		(cont.)					
1975							
Jan.	12	(cont.)					
		Sk	iPKPl			18 07 08.9	
		Um	iPKPl			18 07 05.0	
			ipPKPl			18 07 18.1	
		Ud	iPKPl			18 07 16.9	
			ipPKPl			18 07 27.5	
		De	iPKPl			18 07 27.0	
			ipPKPl			18 07 38.2	
			i			18 07 41.2	
		South of Kermadec Islands.					
		h = 45 km (Um,Ud,De).					
		M = 6.0 (Up,Ki).					
"	12	Up	iP			21 34 26.9	C
						micr	sec
			P	Z'		0.1	1.1
		Ki	iP			21 33 54.9	C
		Sk	iP			21 34 02.5	
		Um	iP			21 34 13.4	
		Ud	iP			21 34 19.3	C
		De	iP			21 34 35.1	
		California (h = 8 km).					
"	12	Ki	iP			22 10 36.2	
		Ud	iP			22 11 28.9	
		De	iP			22 11 51.9	
		Alaska (h = 45 km).					
"	13	Up	iP			00 41 46.4	
						micr	sec
			P	Z'		0.1	0.9
		Ki	iP			00 40 49.3	
		Sk	e(P)			00 41 16	
		Ud	iP			00 41 43.3	
		De	iP			00 42 07.8	
		Alaska (h = 70 km).					
"	13	Up	iPKPl			01 07 15.7	
			i			01 07 24.1	
						micr	sec
			PKPl	Z'		0.1	1.0
		Ki	iPKP			01 07 08.9	
		Um	i(PKP)			01 07 08.5	
			iPKP			01 07 13.8	
		Ud	iPKPl			01 07 15.7	
			i			01 07 26.3	
			iSKPl			01 10 06.7	
		De	iPKPl			01 07 28.0	C
		Fiji Islands (h = 620 km).					
"	13	Ki	iP			01 30 18.4	
		Um	iP			01 30 37.8	
		Ud	iP			01 31 07.1	
		Japan (h = 60 km).					
"	13	Ud	iP			03 55 48.4	

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

1975								
Jan.	13	Ki	iP		04 48 31.8			
		Ud	iP		04 48 04.6			
		De	iP		04 48 03.1			
		North Atlantic Ocean						
		(h = N).						
"	13	Up	iP		08 03 59.2			
			iSn		08 08 29.4			
					micr	sec		
			P	Z'	0.1	1.0		
		Ki	iP		08 04 34.8			
			iPn		08 04 50.7			
			iSn		08 10 06.1			
		Sk	iPn		08 05 04.1			
			i		08 13 04.4			
		Um	iP		08 04 09.6			
			iSn		08 09 03.0			
		Ud	iP		08 04 13.9			
			iSn		08 09 18.1			
		De	iP		08 03 58.5			
		Caucasus (h = N).						
"	13	Ud	iP		08 48 21.8			
		Bulgaria.						
"	13	Up	iP		09 30 06.6			
					micr	sec		
			P	Z'	0.1	1.1		
			Mx	N	6.3	23		
			Mx	Z	6.3	23		
		Ki	iP		09 29 12.9			
					micr	sec		
			P	Z'	0.1	1.0		
			Mx	E	1.6	17		
			Mx	N	2.3	18		
		Sk	iP		09 29 44.0			
		Um	iP		09 29 39.4			
		Ud	iP		09 30 05.6			
			i		09 30 10.6			
		De	iP		09 30 28.0			
		Aleutian Islands (h = 40 km).						
		m = 5.9, M = 5.7 (Up,Ki).						
"	13	Ud	iP		19 40 14.9			
		Aleutian Islands (h = 45 km).						
"	13	Up	iPKP		23 16 06.9			
		Ki	iPKP		23 15 54.8			
		Sk	ePKP		23 16 06			
		Um	iPKP		23 15 59.7			
		Ud	iPKP		23 16 09.6			
		De	iPKP		23 16 16.1			
		Solomon Islands (h = 110 km).						
"	14	Up	iP		01 38 25.3			
1975								
Jan.	14	Up	iP		04 24 56.1			
			i		04 24 59.7			
					micr	sec		
			P	Z'	0.1	1.2		
		Um	iP		04 24 37.6			
		Ud	iP		04 25 07.3			
		Japan (h = 40 km).						
"	14	Ud	iP		07 15 07.3			
		South of Greece.						
"	14	Ud	i(Sgl)		10 02 46.0			
"	14	Up	iP		14 14 22.5			
					micr	sec		
			P	Z'	0.1	1.2		
"	14	Up	iP		14 21 52.8			
		Ki	iP		14 21 37.2			
					micr	sec		
			P	Z'	0.1	0.7		
		Sk	iP		14 22 07.0			
		Um	iP		14 21 38.8	C		
		Ud	iP		14 22 07.6			
			i		14 22 15.4			
		De	iP		14 22 14.9			
		Sinkiang, China (h = N).						
"	14	Um	iPKP1		16 32 50.2	C		
		Kermadec Islands						
		(h = 290 km).						
"	14	Ud	iP		17 28 42.5			
		Tibet (h = N).						
"	14	Ki	iP		19 51 10.4			
			i		19 51 17.3			
					micr	sec		
			P	Z'	0.3	1.2		
		Um	iP		19 51 16.2			
		Ud	iP		19 51 34.2			
		Banda Sea (h = 40 km).						
"	14	Up	iP		20 03 07.9			
					micr	sec		
			Mx	E	5.4	20		
			Mx	N	9.9	22		
		Ki	iP		20 02 50.2			
			i		20 02 59.1			
					micr	sec		
			P	Z'	0.5	1.5		
			i	Z'	0.6	1.6		
			Mx	E	14	18		
			Mx	N	20	20		
			Mx	Z	9.6	18		

(cont.)

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

1975 Jan.	14	(cont.)					
		Um	iP		20 02 55.4		
		Ud	iP		20 03 13.8		
		De	iP		20 03 21.8		
		Banda Sea (h = N).					
		M = 6.4 (Up,Ki).					
"	14	Up	iP		22 13 57.7		
					micr	sec	
			P	Z'	0.1	1.3	
		Ki	iP		22 14 43.7	C	
					micr	sec	
			P	Z'	0.2	1.2	
		Um	iP		22 14 22.0		
		Ud	eP		22 14 13	C	
		De	iP		22 13 53.6	C	
		Iraq (h = 60 km).					
		m = 5.7 (Up,Ki).					
"	14	Up	iP		23 55 07.9		
					micr	sec	
			P	Z'	0.1	1.3	
"	15	Ki	iP		02 33 22.6		
		Ud	iP		02 34 16.5		
		Aleutian Islands (h = 55 km).					
"	15	Sk	iP		05 42 01.4		
		Ud	iP		05 41 26.6		
		Ionian Sea (h = N).					
"	15	Up	iP		11 45 00.8		
					micr	sec	
			P	Z'	1.1	1.5	
			Mx	E	3.4	18	
			Mx	N	10	18	
		Ki	iP		11 44 44.9	D	
					micr	sec	
			P	Z'	0.6	1.3	
			Mx	N	21	20	
		Sk	iP		11 45 12.1		
		Um	iP		11 44 48.1	D	
		Ud	iP		11 45 13.0	D	
		De	iP		11 45 18.3	D	
		Szechwan, China (h = N).					
		m = 6.7 (Up,Ki).					
"	15	Up	iP		19 09 58.4		
		Ki	iP		19 08 26.5		
					micr	sec	
			P	Z'	0.1	1.0	
		Um	iP		19 09 09.7		
		Ud	iP		19 09 55.2		
			i		19 09 59.6		
		Northeast of Jan Mayen (h = N).					
1975 Jan.	15	Ki	iP		19 12 02.7		
		Um	iP		19 12 45.3		
		Ud	iP		19 13 35.3		
		De	iP		19 14 16.9		
		Northeast of Jan Mayen (h = N).					
"	15	Up	iP		20 43 20.1		
			i(PP)		20 47 10.2		
			iPP		20 47 24.7		
					micr	sec	
			P	Z'	0.1	0.8	
			PP	Z'	0.1	1.1	
		Um	iP		20 43 14.6	C	
		Ud	iP		20 43 29.4	C	
			i(PP)		20 46 58.1		
			iPP		20 47 39.8		
		Java (h = 140 km).					
"	16	Up	iP		00 14 31.0		
		Sk	iP		00 15 16.1		
		Um	iP		00 15 25.1		
		Ud	iP		00 14 40.3		
		Italy (h = 20 km).					
"	16	Ud	i(P)		08 33 50.3		
"	16	Ud	iP		19 03 45.8		
"	16	Ud	iP		21 45 32.2		
			i		21 45 37.7		
"	17	Up	i(PKP)		09 49 37.7		
			iPKP		09 49 46.9		
			i		09 50 18.3		
			iSKP1		09 53 12.9		
					micr	sec	
			PKP	Z'	0.1	1.1	
			SKP1	Z'	0.1	1.0	
			Mx	N	3.0	27	
		Ki	iPKP		09 49 32.4		
			ipPKP		09 50 13.2		
					micr	sec	
			PKP	Z'	0.2	1.5	
		Sk	iPKP		09 49 42.5		
		Um	iPKP		09 49 39.3		
			ipPKP		09 50 18.6		
			iSKP1		09 53 07		
		Ud	i(PKP)		09 49 37.7		
			iPKP		09 49 48.6		
			ipPKP		09 50 29.1		
		De	iPKP1		09 49 50.6		
			iPKP		09 49 54.0		
			ipPKP		09 50 35.8		
		Tonga Islands.					
		h = 150 km (Ki,Um,Ud,De).					

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

1975 Jan.	17	Up	iPP	10 46 11.5		
		Ki	iP	10 41 45.8		
		Um	iP	10 41 50.1		
		Ud	iP	10 41 57.3		
			i	10 42 20.6		
		Ceram Sea (h = N).				
"	17	Up	iP	15 20 07.9		
		Ki	iP	15 20 06.8		
		Um	iP	15 20 06.0		
		Ud	iP	15 20 24.2		
		Burma-India (h = N).				
"	18	Ki	iP	00 24 18.5		
		Ud	iP	00 24 32.3		
		De	iP	00 24 38.1		
		Sinkiang, China (h = 90 km).				
"	18	Ud	iP	00 30 30.0		
		Kurile Islands (h = 35 km).				
"	18	Up	iP	04 15 15.0		
		Ki	iP	04 16 24.0		
		Sk	iP	04 15 52.8		
		Ud	iP	04 15 20.2		
		De	iP	04 14 52.3		
		Crete (h = N).				
"	18	Up	iP	04 23 29.9		
		Ki	iP	04 23 14.8		
		Ud	iP	04 23 45.7		
		Szechwan, China.				
"	18	Sk	iP	08 10 30.1		
		Ud	iP	08 09 59.5		
		East of Crete.				
"	18	Um	iPKP	09 10 35.2		
		Ud	iPKP	09 10 50.3		
		Tonga Islands (h = N).				
"	18	Up	ePKPl	09 57 57		
		Ud	iPKPl	09 58 01.7	C	
		De	iPKPl	09 58 12.9	C	
"	18	Ki	iP	10 20 44.8		
		Tadzhik SSR (h = 240 km).				
"	18	Up	iPKPl	14 38 43.3		
		Ki	ePKP	14 38 21		
		Sk	iPKPl	14 38 35.4		
		Um	iPKPl	14 38 21.9		
			i	14 38 35.6		
		Ud	iPKPl	14 38 38.6		
		Kermadec Islands.				

1975 Jan.	18	Up	iP	19 12 12.0		
				micr	sec	
			P Z'	0.1	1.2	
		Ki	iP	19 12 35.7	C	
		Sk	iP	19 12 35.8		
		Um	iP	19 12 23.2		
		Ud	iP	19 12 23.0	C	
			ipP	19 12 35.4		
		Indian Ocean.				
		h = 45 km (Ud).				
"	18	Up	iP	19 22 13.0		
		Ki	iP	19 21 57.1	C	
		Sk	eP	19 22 22		
		Um	iP	19 21 59.1		
		Ud	iP	19 22 25.6		
		Szechwan, China.				
"	19	Ud	iP	00 46 08.2		
		Caucasus (h = 30 km).				
"	19	Ki	iP	03 28 13.3		
		Ud	iP	03 28 22.8		
		Sumatra (h = 100 km).				
"	19	Up	iP	06 49 43.7		
				micr	sec	
			P Z'	0.1	1.1	
"	19	Up	iP	08 08 59.7		
			i	08 09 04.7		
			i	08 09 10.2		
				micr	sec	
			P Z'	0.1	1.0	
		Ki	iP	08 09 02.7		
				micr	sec	
			P Z'	0.1	1.0	
		Sk	iP	08 09 21.2		
			i	08 09 32.1		
		Um	iP	08 08 55.0		
			i	08 09 00.7		
			i	08 09 05.3		
		Ud	iP	08 09 15.3		
			i	08 09 20.4		
		De	iP	08 09 13.2		
		Kashmir-Tibet (h = 60 km).				
		m = 5.8 (Up,Ki).				
		Three successive P phases of about equal amplitude.				
"	19	Up	iP	08 10 38.3		
				micr	sec	
			P Z'	0.2	1.1	
		Ki	iP	08 10 42.2		
				micr	sec	
			P Z'	0.2	1.1	

(cont.)

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

1975
Jan. 19 (cont.)

	Sk	iP		08 11 00.7
	Um	iP		08 10 33.9
	Ud	iP		08 10 54.0
	De	iP		08 10 52.8

Kashmir-Tibet.
m = 6.1 (Up,Ki).
Origin time = 08 01 58.7.
Approximate origin times, assuming the same focus as for the preceding event, are given for those aftershocks for which NEIS lacks information.

" 19

	Up	iP		08 10 42.0
		iPP		08 12 32
		iS		08 17 38
			micr	sec
		P	Z' 3.4	1.3
		Mx	E 200	19
		Mx	N 440	19
		Mx	Z 270	20
	Ki	iP		08 10 46.1
		iPP		08 12 38
		iS		08 17 43
			micr	sec
		P	Z' 2.8	1.6
		Mx	E 140	16
		Mx	N 180	11
		Mx	Z 190	18
	Sk	iP		08 11 05.4
	Um	iP		08 10 37.6
		iS		08 17 28
	Ud	iP		08 10 57.4
	De	iP		08 10 56.4

Kashmir-Tibet (h = N).
m = 7.2, M = 7.1 (Up,Ki).

" 19

	Sk	iP		08 18 00.3
	Ud	iP		08 17 56.0
	De	iP		08 17 53.5

Kashmir-Tibet.
Origin time = 08 09 00.

" 19

	Up	iP		08 20 48.4
		iPP		08 22 42.8
			micr	sec
		P	Z' 0.5	1.0
		PP	Z' 3.3	2.5
	Ki	iP		08 20 52.1
			micr	sec
		P	Z' 1.0	1.8
	Sk	iP		08 21 11.4
	Um	iP		08 20 44.5
	Ud	iP		08 21 04.3

(cont.)

1975
Jan. 19 (cont.)

De	iP		08 21 01.7

Kashmir-Tibet (h = N).
m = 6.6 (Up,Ki).

" 19

Ud	iP		08 27 20.9

Kashmir-Tibet (h = N).

" 19

Ki	iP		08 39 12.8
Ud	iP		08 39 25.9

Kashmir-Tibet.
Origin time = 08 30 30.

" 19

Sk	iP		08 41 49.4
Ud	iP		08 41 42.2

Kashmir-Tibet.
Origin time = 08 32 47.

" 19

Ki	iP		08 53 08.1
Ud	iP		08 53 21.5

Kashmir-Tibet.
Origin time = 08 44 26.

" 19

Ud	iP		09 08 14.3

" 19

Up	iP		09 21 35.4
Ki	eP		09 21 38
Ud	iP		09 21 49.9

Kashmir-Tibet (h = N).

" 19

Ki	iP		09 31 06.0
Ud	iP		09 31 18.1

Kashmir-Tibet.
Origin time = 09 22 23.

" 19

Ki	iP		10 32 44.5
Um	iP		10 32 33.8
Ud	iP		10 32 54.6

Kashmir-Tibet.
Origin time = 10 24 00.

" 19

Up	iP		11 10 31.0
Ki	iP		11 10 14.3
	i		11 10 34.5
Um	iP		11 10 20.3
Ud	iP		11 10 40.7

Panay.

" 19

Up	iP		11 18 24.1
Ki	iP		11 18 26.0
Um	iP		11 18 24.9
Ud	iP		11 18 39.3

Kashmir-Tibet.
Origin time = 11 09 44.

" 19

Um	iPKP1		11 38 52.0

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

1975 Jan.	19	Up	iP		12 02 52.3		
		Ud	iP		12 03 08.1		
		De	iP		12 03 05.4		
		Kashmir-Tibet.					
		Origin time = 11 54 12.					
"	19	Ud	iP		12 15 53.8		
"	19	Up	iP		13 13 16.7		
			i		13 13 18.7		
					micr	sec	
			P	Z'	0.1	0.7	
			i	Z'	0.1	0.8	
		Ki	iP		13 13 19.8		
		Sk	iP		13 13 39.3		
		Um	iP		13 13 12.4		
			i		13 13 14.8		
		Ud	iP		13 13 32.5	D	
			i		13 13 34.3		
		De	iP		13 13 30.7		
		Kashmir-Tibet (h = N).					
		Double P.					
"	19	Ud	iP		13 45 45.2		
"	19	Up	iP		15 55 01.2		
		Ud	iP		15 55 15.4		
		Kashmir-Tibet.					
		Origin time = 15 46 20.					
"	19	Up	iP		16 05 20.1		
		Ud	iP		16 05 34.3		
		Kashmir-Tibet.					
		Origin time = 15 56 39.					
"	19	Up	iP		16 24 51.4		
		Ud	iP		16 25 05.6		
		Kashmir-Tibet.					
		Origin time = 16 16 11.					
"	19	Ud	iP		17 50 05.0		
		Kashmir-Tibet (h = N).					
"	19	Up	i(P)		19 05 39.7		
		Um	iP		19 05 46.0		
		De	iP		19 05 44.8		
"	20	Um	iP		04 10 48.2		
		Ud	iP		04 10 31.8		
"	20	Ud	iP		04 46 26.0		
"	20	Ki	iP		04 49 18.4		
		Sk	iP		04 49 38.5		
		Ud	iP		04 49 30.4		
		Kashmir-Tibet.					
		Origin time = 04 40 35.					
1975 Jan.	20	Um	iP		08 54 54.9		
		Ud	iP		08 55 15.4		
		Kashmir-Tibet.					
		Origin time = 08 46 20.					
"	20	Ud	iP		09 26 15.0		
"	20	Ki	iP		09 36 04.4		
		Sk	iP		09 36 24.9		
		Um	iP		09 35 54.2		
		Ud	iP		09 36 16.4		
		Kashmir (h = N).					
"	20	Up	iP		10 50 15.4		
			i		10 50 17.3		
			i		10 50 25.3		
			iS		10 52 22.1		
			iLg1		10 53 24.0		
					micr	sec	
			P	Z'	0.1	0.7	
			S	Z'	0.1	0.7	
			Mx	E	0.7	8	
			Mx	N	1.2	10	
			Mx	Z	1.5	10	
		Ki	iP		10 48 36.0		
			i		10 48 37.9		
			iS		10 49 23.9		
			i(Lg1)		10 49 39.1		
					micr	sec	
			P	Z'	0.1	0.5	
			S	Z'	1.0	0.5	
			Mx	E	1.4	11	
			Mx	N	1.5	11	
			Mx	Z	1.6	10	
		Sk	iP		10 49 25.9		
			i		10 49 27.9		
			iS		10 50 50.8		
			iX		10 51 11.3		
		Um	iP		10 49 27.6		
			i		10 49 28.1		
			iS		10 50 53.5		
			iLg1		10 51 39.7		
		Ud	iP		10 50 12.0		
			i		10 50 13.9		
			i		10 50 21.7		
			iS		10 52 16.5		
			iX		10 52 34.0		
		De	iP		10 50 59.9		
			i		10 51 02.5		
			i		10 51 08.6		
			iS		10 53 43.2		
			iX		10 54 16.0		
			iLg1		10 55 04.3		
		Norwegian Sea (h = N).					
		m = 4.8, M_L = 3.9 (Up,Ki, Sk,Um,Ud,De).					
		(cont.)					

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

1975							
Jan.	20	(cont.)					
		Double P, small and large, about 2 sec apart, probably due to complexities at the Moho boundary.					
"	20	Up	iP		11 15 29.5		
					micr	sec	
			P	Z'	0.1	1.0	
		Ki	iP		11 15 31.4		
			i		11 15 44.0		
		Sk	iP		11 15 52.8		
		Um	iP		11 15 25.7		
			i		11 15 51.0		
		Ud	iP		11 15 45.1		
			i		11 15 57.2		
		De	iP		11 15 43.3		
		Kashmir-Tibet (h = 50 km).					
"	20	Up	iP		12 39 05.5		
		Um	iP		12 38 30.7		
		De	iP		12 39 40.0		
"	20	Sk	iP		13 33 10.8		
		Um	iP		13 32 48.9		
		Ud	iP		13 33 08.6		
		De	iP		13 33 07.6		
		Kashmir-Tibet (h = N).					
"	20	Up	iP		13 53 38.0		
		Ki	iP		13 53 31.8		
		Sk	iP		13 53 49.2		
		Um	iP		13 53 32.8	D	
		Ud	iP		13 53 46.9		
		Java (h = 90 km).					
"	20	Up	iP		17 42 48.5	C	
			iPP		17 45 32.4		
			iS		17 52 21		
					micr	sec	
			P	Z'	0.3	1.0	
			Mx	E	3.4	18	
			Mx	N	5.4	20	
			Mx	Z	7.0	18	
		Ki	iP		17 42 10.9	C	
					micr	sec	
			P	Z'	0.2	1.0	
			Mx	E	14	22	
			Mx	N	7.9	17	
			Mx	Z	8.8	18	
		Sk	iP		17 42 43.4	C	
			iPP		17 45 31.7		
		Um	iP		17 42 26.3		
			i		17 42 27.8	C	
		Ud	iP		17 42 56.4	C	
		(cont.)					

1975							
Jan.	20	(cont.)					
		De	iP		17 43 10.6	C	
		Japan (h = 30 km).					
		m = 6.3, M = 6.1 (Up,Ki).					
"	20	Ud	iPKP1		19 17 04.0		
			i		19 17 14.3		
		De	iPKP1		19 17 16.7	C	
			i		19 17 26.9		
		Tonga Islands (h = N).					
"	20	Up	iP		22 26 58.7		
			i		22 27 17.0		
		Ki	iP		22 26 32.5		
			i		22 26 40.3		
					micr	sec	
			P	Z'	0.1	1.1	
		Um	iP		22 26 40.3		
			i		22 26 59.7		
		Ud	iP		22 27 03.4		
			i		22 27 22.1		
		Luzon (h = 40 km).					
		A second phase appears 18.8 sec after P (Up,Um,Ud).					
"	21	Ki	iP		02 20 12.5		
		Atlantic Ocean (h = N).					
"	21	Ki	iP		06 51 07.3		
		Sk	iP		06 51 38.1		
		Um	iP		06 51 34.4		
		Ud	iP		06 51 59.7		
		De	iP		06 52 22.3		
		Aleutian Islands (h = N).					
"	21	Ki	iP		09 07 36.2		
		Um	iP		09 07 52.0		
		Ud	iP		09 08 20.3		
		Japan (h = 70 km).					
"	21	Ki	i(P)		11 39 29.1		
		Sk	iP		11 38 39.3		
"	21	Ki	iP		19 00 37.3		
		Ud	iP		19 01 02.4		
"	21	Up	iP		20 54 29.5	C	
		Ud	iP		20 54 36.2	C	
		De	iP		20 54 53.7		
		Kurile Islands (h = 50 km).					
"	21	Ki	iPKP		21 31 52.6	C	
		Sk	iPKP		21 32 04.7		
		Um	iPKP		21 32 00.1		
			iSKP1		21 35 16.8		
		(cont.)					

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

1975					
Jan.	21	(cont.)			
		Ud	iPKP	21 32 08.8	C
			iSKP1	21 35 24.9	
		New Hebrides Islands			
		(h = 120 km).			
"	21	Up	iP	21 58 26.8	
		Ki	iP	21 57 30.9	
		Sk	iP	21 58 00.0	
		Um	iP	21 57 58.3	
		Ud	iP	21 58 21.8	
		De	iP	21 58 47.1	
		Alaska (h = 35 km).			
"	22	Up	iPKP1	05 43 28.0	
		Ud	iPKP1	05 43 29.8	
		De	iPKP1	05 43 41.3	
		Tonga-Kermadec Islands			
		(h = 170 km).			
"	22	Up	iP	05 56 30.6	
		Ki	iP	05 56 09.1	
		Um	iP	05 56 16.2	
		Ud	iP	05 56 38.0	
		Luzon (h = 70 km).			
"	22	Up	iP	08 42 02.3	
				micr	sec
			P Z'	0.2	1.5
		Ki	iP	08 42 00.2	
				micr	sec
			P Z'	0.1	1.5
			Mx N	1.6	19
		Sk	iP	08 42 18.6	
		Ud	iP	08 42 14.2	
			i	08 42 16.6	
		Andaman Islands (h = 15 km).			
		m = 5.9 (Up,Ki).			
"	22	Ud	iP	11 15 42.8	
"	22	Ud	iP	13 10 31.0	
		Yunnan, China (h = 60 km).			
"	22	Sk	i(Sg1)	13 27 35.7	
		Ud	i(Sg1)	13 29 02.5	
"	22	Ud	iP	16 17 22.3	
"	22	Ki	eP	17 35 21	
		Sk	iP	17 35 39.8	
		Um	iP	17 35 14.7	
		Ud	iP	17 35 31.3	
		Tibet-India (h = 50 km).			
"	22	Ki	iP	18 24 48.4	

1975					
Jan.	23	Ud	iP	01 47 44.4	
		Sikkim (h = N).			
"	23	Ki	iP	04 10 17.5	
		Ud	iP	04 10 44.8	
		Molucca Passage			
		(h = 120 km).			
"	23	Um	iPKP1	09 53 50.1	
		Ud	iPKP1	09 54 02.9	
		South of Kermadec Islands			
		(h = 370 km).			
"	23	Up	i(P)	14 30 47.6	
				micr	sec
			(P) Z'	0.1	1.0
			Mx E	3.5	17
			Mx N	5.1	19
		Ki	iP	14 30 09.7	
			i	14 30 15.7	
				micr	sec
			P Z'	0.1	1.2
			Mx E	7.1	15
			Mx N	8.7	15
			Mx Z	6.1	14
		Sk	iP	14 30 42.3	
		Ud	iP	14 30 52.9	
		Japan (h = 10 km).			
		m = 5.9, M = 6.1 (Up,Ki).			
"	23	De	iPKP1	23 00 48.4	
"	24	Ud	iP	01 32 01.6	
		Molucca Passage (h = 55 km).			
"	24	Ud	iP	07 43 30.0	
		Greece (h = 30 km).			
"	24	Up	iPKP	14 34 53.6	
		Sk	iPKP	14 34 53.5	
		De	iPKP	14 35 04.6	
		Santa Cruz Islands			
		(h = 260 km).			
"	24	Up	iP	16 37 21.1	
				micr	sec
			P Z'	0.1	1.0
		Sk	iP	16 38 08.7	
		Um	iP	16 38 03.8	
		Ud	iP	16 37 27.7	
		De	iP	16 36 49.1	
		Albania (h = N).			
"	24	Up	iP	18 46 54.6	
		Mariana Islands (h = 120 km).			

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

1975 Jan.	24	Up	iPKP1	19 39 37.1		
			i	19 39 40.7		
		Sk	iPKP1	19 39 30.0		
		Um	iPKP1	19 39 24.4		
			i	19 39 29.5		
		Ud	iPKP1	19 39 38.4		
			i	19 39 43.1		
		De	iPKP1	19 39 47.0		
			i	19 39 51.8		
		Kermadec Islands (h = N).				
		Double onsets, in average				
		4.6 sec apart.				
"	24	Up	iP	22 53 55.6		
		Ud	iP	22 53 55.1	C	
		De	iP	22 54 17.6		
		Aleutian Islands (h = 55 km).				
"	25	Sk	iP	00 21 38.3		
		Ud	iP	00 21 05.7		
		De	iP	00 20 40.0		
		Crete (h = N).				
"	25	Up	iP	02 21 21.2	C	
			ipP	02 21 31.1		
			iS	02 31 55		
				micr	sec	
			P Z'	0.9	1.5	
			Mx E	11	25	
			Mx N	15	21	
			Mx Z	16	21	
		Ki	iP	02 21 22		
			iS	02 31 57		
				micr	sec	
			P Z'	3.0	2.1	
			Mx E	23	22	
			Mx N	16	22	
			Mx Z	23	24	
		Sk	iP	02 21 07.9	C	
			ipP	02 21 18.6		
		Um	iP	02 21 24.1	C	
			ipP	02 21 34.2		
			iS	02 32 04		
		Ud	iP	02 21 11.5	C	
			ipP	02 21 21.8		
		De	iP	02 21 14.0	C	
			ipP	02 21 24.6		
		Panama-Colombia.				
		h = 40 km (Up,Sk,Um,Ud,De).				
		m = 6.9, M = 6.6 (Up,Ki).				
"	25	Sk	iP	03 37 36.5		
		Um	iP	03 37 53.2		
		Ud	iP	03 37 40.9		
		Panama-Colombia (h = N).				
1975 Jan.	25	Up	iP	14 19 01.6		
				micr	sec	
			P Z'	0.1	0.8	
		Sk	iP	14 19 41.3		
		Um	iP	14 19 41.4		
		Ud	iP	14 19 07.2		
		De	iP	14 18 30.9		
		Greece (h = N).				
"	25	Um	iP	15 37 25.6		
		Hindu Kush.				
		Intermediate depth.				
"	25	Up	iP	17 15 38.2	C	
		Ki	iP	17 14 45.7		
		Um	iP	17 15 12.1		
			i	17 15 17.1		
			i	17 15 38.2		
		Ud	iP	17 15 37.8	C	
			i	17 15 43.3		
		De	iP	17 16 00.1		
		Aleutian Islands (h = N).				
"	25	Ud	iP	18 22 42.0		
"	26	Um	iP	03 45 50.5		
		Mindoro (h = 40 km).				
"	26	Ud	iPKP1	05 26 35.2		
"	26	Up	iP	05 36 00.2		
			i	05 36 08.9		
				micr	sec	
			P Z'	0.1	1.0	
		Ki	iP	05 37 09.0		
				micr	sec	
			Mx E	1.0	14	
			Mx N	1.6	14	
			Mx Z	2.0	14	
		Um	iP	05 36 38.4		
			i	05 36 56.8		
		Ud	iP	05 36 07.0		
			i	05 36 17.2		
		De	iP	05 35 34.7		
		Greece (h = 50 km).				
"	26	Sk	iP	06 30 11.5		
		Ud	iP	06 29 39.0		
		Greece.				
"	26	Sk	iSKP1	09 23 59.9		
		Fiji Islands (h = 350 km).				
"	26	Up	iPKP1	11 35 24.2		
		Ud	iPKP1	11 35 26.9		

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

1975 Jan.	26	Um	iP	19 37 35.5 C		
		Unimak Island (h = N).				
"	26	Ki	iP	19 43 54.0		
		Banda Sea (h = N).				
"	26	Ki	iPKP	22 09 02.4		
		Sk	iPKP	22 09 13.7		
		Um	iPKP	22 09 09.4		
		New Hebrides Islands (h = 270 km).				
"	26	Ud	iP	23 48 49.5		
		Greece.				
"	27	Ki	iP	00 37 35.4		
		Ud	iP	00 37 33.0		
		Pakistan (h = N).				
"	27	Up	iPKP1	03 21 29.9		
		Um	iPKP1	03 21 21.9		
		Ud	iPKP1	03 21 29.6		
		De	iPKP1	03 21 41.1		
		Tonga-Kermadec Islands.				
"	27	Ud	iP	05 02 48.2		
		Unimak Island (h = N).				
"	27	Up	iP	08 18 56.5		
			i	08 19 02.7		
		Sk	iP	08 19 19.4		
			i	08 19 24.6		
		Um	iP	08 18 53.2		
		Ud	iP	08 19 12.6		
			i	08 19 18.0		
		De	iP	08 19 11.3		
		Kashmir-Tibet (h = N). Double onsets, in average 5.6 sec apart.				
"	27	Up	iP	09 07 18.8		
		Ud	iP	09 07 26.1		
			ipP	09 09 25.7		
		De	iP	09 07 37.8		
		Bonin Islands. h = 570 km (Ud).				
"	27	Sk	iP	09 32 41.3		
		Ud	iP	09 32 34.4 C		
		Kashmir-Tibet (h = N).				
"	27	Sk	iP	10 29 07.6		
		Um	iP	10 28 58.6		
		Japan (h = N).				
"	27	Up	iP	13 08 25.1		
1975 Jan.	27	Ud	iP	13 50 33.3		
		De	iP	13 50 32.1		
		Kashmir-Tibet (h = N).				
"	27	Up	iPP	15 28 27.4		
					micr	sec
			Mx	E	1.9	20
			Mx	N	1.5	21
			Mx	Z	2.7	20
		Ki	iP		15 23 55.5	
			i		15 24 04.7	
					micr	sec
			P	Z'	0.1	1.3
			Mx	E	2.7	22
			Mx	N	2.6	22
			Mx	Z	2.4	20
		Um	iPP		15 28 22.2	
		Ud	iP		15 24 10.1	
			iPP		15 28 36.9	
		Sumba Island (h = N). M = 5.9 (Up,Ki).				
"	27	Ud	iP	16 06 58.2 C		
		De	iP	16 06 57.1		
		Kashmir-Tibet (h = N).				
"	27	Up	iP	16 15 58.7		
"	27	Ki	iPKP1	18 56 44.6		
		South Shetland Islands (h = N).				
"	27	Up	iP	21 44 12.5		
		Ki	iP	21 43 19.5		
			ipP	21 43 58.3		
		Um	iP	21 43 40.9		
		Ud	iP	21 44 12.4		
			ipP	21 44 49.5		
		Aleutian Islands. h = 160 km (Ki,Ud).				
"	27	Um	iPKP1	22 20 39.7		
"	28	Ud	iP	02 34 13.5		
		Costa Rica (h = N).				
"	28	Ki	iP	06 00 05.6		
		Ud	iP	06 00 15.0		
		De	iP	06 00 12.4		
		Sumatra (h = N).				
"	28	Up	iP	12 03 45.3		
			ipP	12 03 54.8		
					micr	sec
			P	Z'	0.2	1.2
			pP	Z'	0.2	1.3

(cont.)

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

1975 Jan.	28	(cont.)					
		Ki	iP		12 02 49.8		
			ipP		12 03 00.0		
					micr	sec	
			P	Z'	0.1	1.0	
			pP	Z'	0.1	1.1	
			Mx	E	0.5	12	
			Mx	N	0.6	14	
		Sk	iP		12 03 27.7		
			ipP		12 03 37.8		
		Um	iP		12 03 15.9		
			ipP		12 03 26.9		
		Ud	iP		12 03 48.1	C	
			ipP		12 03 59.5		
		De	iP		12 04 10.7		
			ipP		12 04 22.7		
		Komandorsky Islands.					
		h = 40 km (Up,Ki,Sk,Um,Ud,De).					
		m = 6.0 (Up,Ki).					
"	28	Up	iPKP1		17 43 25.1		
		Ud	iPKP1		17 43 27.5		
"	28	Ki	iP		20 18 25.3		
		Ud	iP		20 19 20.6		
		Aleutian Islands					
		(h = 80 km).					
"	28	Up	iP		21 18 14.0		
		Ki	iP		21 19 14.8		
		Sk	iP		21 18 53.9		
		Ud	iP		21 18 26.6		
		De	iP		21 18 00.1		
		Cyprus (h = 45 km).					
"	29	Ud	iP		00 47 14.7		
		Japan (h = 50 km).					
"	29	Up	iP		08 14 39.2		
		Ki	iP		08 14 08.5		
		Sk	iP		08 14 36.7		
		Um	iP		08 14 21.7		
		Ud	iP		08 14 46.1		
		De	iP		08 14 57.9		
		Bonin Islands (h = 500 km).					
"	29	Ki	iP		15 43 30.1	D	
					micr	sec	
			P	Z'	0.1	1.0	
		Ud	iP		15 43 55.3		
		Mindanao (h = 60 km).					
"	29	Sk	iP		15 58 29.7		
		Ud	iP		15 58 22.6	C	
		Tibet-India (h = N).					

1975 Jan.	29	Ud	iP		19 05 30.7		
"	29	Ud	iP		19 23 17.7		
"	29	Ud	iP		23 05 15.5		
"	30	Ki	iP		08 28 19.3		
		Ud	i(P)		08 28 52.4		
"	30	Ud	i(Sgl)		12 52 50.1		
		De	i		12 55 33.8		
"	30	Up	iP		13 18 37.2		
		Ki	iP		13 18 04.5		
		Um	i(P)		13 18 25.8		
		Ud	iP		13 18 44.8		
		Ryukyu Islands (h = 50 km).					
"	30	Up	iP		15 12 59.8	C	
		Ki	iP		15 12 37.6		
		Um	iP		15 12 45.5	C	
		Ud	iP		15 13 09.2	C	
		Luzon-Formosa.					
"	31	Up	iP		04 37 55.9		
			ipP		04 38 07.4		
		Ki	iP		04 37 17.3		
		Ud	iP		04 38 02.1		
			ipP		04 38 11.9		
		De	ipP		04 38 28.2		
		Japan.					
		h = 40 km (Up,Ud).					
"	31	Ud	iP		11 00 56.5		
"	31	Up	iP		12 48 20.1		
			i		12 48 38.1		
					micr	sec	
			P	Z'	0.1	0.6	
		Ki	iP		12 48 19.4		
			i		12 48 38.6		
		Sk	iP		12 48 39.9		
			i		12 48 58.3		
		Um	iP		12 48 14.9		
			i		12 48 33.1		
		Ud	iP		12 48 34.6		
			i		12 48 53.9		
		De	iP		12 48 34.1		
			i		12 48 52.5		
		Nepal (h = N).					
		The second phase appears 18.6 sec in average after P: either another shock in the same area, or pP, leading to h = 70 km.					

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

1975						
Jan.	31	Up	iP		13 17 43.8	
"	31	Up	iP		14 12 48.0	C
		Ki	iP		14 12 46.5	
		Ud	iP		14 13 03.9	
		Kashmir-Tibet (h = 45 km).				
"	31	Up	Mx		17 06	
					micr	sec
			Mx	N	1.4	20
			Mx	Z	2.3	19
		Ki	Mx		17 06	
					micr	sec
			Mx	E	1.0	14
			Mx	N	1.1	15
			Mx	Z	1.7	17
		Off Pacific coast of Mexico (h = 45 km).				
		M = 5.6 (Up,Ki).				

Markus Båth

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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

F E B R U A R Y 1 - 28, 1975

1975 Feb.	1	Up	iP		06 03 14.0		
		Ki	iP		06 02 20.4		
		Ud	iP		06 03 13.0	C	
			i		06 03 16.5		
		De	iP		06 03 36.0		
		Unimak Island (h = 20 km).					
"	1	Ud	iPKPl		09 00 48.2		
"	1	Ud	iP		13 14 04.7		
"	1	Up	iP		14 28 59.7		
					micr	sec	
			P	Z'	0.1	1.0	
		Ki	iP		14 28 48.4	D	
					micr	sec	
			P	Z'	0.1	1.0	
		Sk	iP		14 29 11.7		
		Um	iP		14 28 49.3	D	
		Ud	iP		14 29 11.2		
		De	iP		14 29 15.4		
		Tibet (h = N).					
		m = 5.8 (Up,Ki).					
"	1	Up	iP		15 32 23.4		
		Ki	iP		15 32 07.6		
					micr	sec	
			Mx	N	1.4	20	
		Ud	iP		15 32 32.8		
			ipP		15 32 43.8		
		Mindoro.					
		h = 40 km (Ud).					
"	1	Up	eP		18 24 48		
		Ki	iP		18 24 49.1		
		(cont.)					

1975 Feb.	1	(cont.)					
		Sk	iP		18 25 11.7		
		Um	iP		18 24 41.2		
		Ud	iP		18 24 58.5		
		De	iP		18 24 59.4		
		Kashmir (h = 70 km).					
"	1	Up	iPKP		20 01 14.4		
		Ud	iP		19 57 32.1		
			iPKP		20 01 17.0		
		De	iPKP		20 01 22.4		
		New Ireland (h = 55 km).					
"	2	Ud	iPKPl		04 12 19.2		
"	2	Ud	iP		05 24 11.5		
"	2	Um	iPKPl		06 48 33.1		
"	2	Up	iP		07 35 36.8		
			i		07 35 41.4		
			ipP		07 35 52.6		
			iP'P'		08 04 10.1		
					micr	sec	
			P	Z'	0.1	1.1	
			i	Z'	0.4	1.1	
			Mx	E	1.2	21	
			Mx	N	2.2	18	
			Mx	Z	1.8	19	
		Ki	iP		07 34 42.9		
			i		07 34 46.9		
			ipP		07 34 57.5		
					micr	sec	
			P	Z'	0.1	1.2	
			i	Z'	0.2	1.1	
		(cont.)					

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

1975 Feb. 2 (cont.)

				micr	sec	
	Ki					
		Mx	E	2.0	16	
		Mx	N	2.9	18	
		Mx	Z	2.1	19	
	Sk	eP			07 35 17	
		i			07 35 21.5	
	Um	iP			07 35 09.8	
		i			07 35 13.9	
		ipP			07 35 24.8	
		iP'P'			08 04 23.6	
	Ud	iP			07 35 38.7	
		i			07 35 42.8	
		ipP			07 35 53.5	
	De	iP			07 36 00.4	
		i			07 36 04.7	

Aleutian Islands.
h = 40 km (Up,Ki,Um,Ud).
m = 6.3, M = 5.6 (Up,Ki).
Double P, smaller and larger, 4.2 sec apart; pP belongs to the second P.

"	2	Up	iP	07 54 32.6	C
		Ki	iP	07 54 06.0	C
		Sk	iP	07 54 41.7	
		Um	iP	07 54 13.2	C
		Ud	iP	07 54 47.1	
		De	iP	07 54 57.9	C

USSR-Mongolia (h = N).

"	2	Ud	iP	08 04 19.5	

"	2	Up	iP	08 16 38.8	
		Ud	iP	08 16 53.3	
		De	iP	08 17 04.4	

USSR-Mongolia.
Origin time = 08 08 59.

"	2	Ud	iP	08 30 53.4	

"	2	Up	iP	08 36 01.3	
		Sk	i(P)	08 35 38.8	
		Ud	i(P)	08 36 28.0	

"	2	Up	iP	08 54 26.0	C
			i	08 54 29.6	
			iS	09 03 03	
			iP'P'	09 23 04.6	

			micr	sec
	P	Z'	0.2	1.0
	i	Z'	0.6	1.0

(cont.)

1975 Feb. 2 (cont.)

			micr	sec
Up				
	P'P'	Z'	0.4	1.8
	Mx	E	40	17
	Mx	N	73	18
	Mx	Z	110	17
Ki	iP			08 53 32.5 C
	i			08 53 35.9
	iS			09 01 36
	iP'P'			09 23 18.9
	i			09 23 30.4
			micr	sec
	P	Z'	0.1	1.3
	i	Z'	0.5	1.2
	P'P'	Z'	1.0	2.8
	Mx	E	100	16
	Mx	N	100	17
	Mx	Z	110	16
Sk	iP			08 54 07.1
	i			08 54 10.2
Ud	i(P)			08 54 26.5
	iP			08 54 28.2
	i			08 54 31.5
	iP'P'			09 23 08.4
De	iP			08 54 50.5 C
	i			08 54 53.3
	iP'P'			09 22 55.8

Aleutian Islands (h = 10 km).
m = 6.6, M = 7.1 (Up,Ki).
Multiple P, average separation 3.2 sec.

"	2	Up	iP	09 04 26.3	

"	2	Up	iP	09 07 10.8	
		Ud	iP	09 07 12.4	

"	2	Ud	iP	09 08 34.2	

"	2	Ud	iP	09 44 02.0	

"	2	Ud	iP	11 03 52.3	

"	2	Up	iP	11 25 19.3	
		Ki	iP	11 24 07.2	

"	2	Ud	iP	14 10 04.4	
		De	iP	14 10 09.0	

"	2	Ud	iP	15 30 44.3	

Aleutian Islands (h = 55 km).

"	2	Up	iP	16 03 52.1	

(cont.)

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

1975 Feb.	2	(cont.)					
		Ki	iP		16 03 00.0		
		Ud	iP		16 03 53.8		
		Aleutian Islands (h = 30 km).					
"	2	Up	iPKP		16 09 50.6		
			i		16 09 58.8		
		Ki	iPKP		16 09 41.3		
		Ud	i(PKP)		16 09 47.1		
			iPKP		16 09 51.1		
			i		16 09 58.7		
		De	iPKP		16 09 57.3		
		Fiji Islands (h = 460 km).					
"	2	Up	iP		16 28 13.1 C		
					micr	sec	
			P	Z'	0.1	1.1	
		Ki	iP		16 27 28.0		
					micr	sec	
			P	Z'	0.1	1.1	
		Sk	iP		16 28 03.8		
		Ud	iP		16 28 19.6 C		
		De	iP		16 28 37.6		
		Kurile Islands (h = 80 km).					
		m = 5.8 (Up,Ki).					
"	2	Up	iP		19 22 48.0		
			i		19 23 31.7		
					micr	sec	
			P	Z'	0.1	0.9	
			Mx	E	1.0	17	
			Mx	N	1.6	18	
			Mx	Z	1.1	17	
		Ki	iP		19 22 51.5		
					micr	sec	
			P	Z'	0.1	0.7	
			Mx	N	1.2	14	
		Sk	iP		19 23 10.6		
		Um	iP		19 22 44.0		
			i		19 23 17.4		
		Ud	iP		19 23 03.6		
		De	iP		19 23 02.2		
		Kashmir-Tibet (h = 20 km).					
		m = 6.0, M = 5.1 (Up,Ki).					
"	2	Up	iP		21 16 44.8		
		Sk	iP		21 17 28.2		
		Um	iP		21 17 24.6		
		Ud	iP		21 16 51.5		
		De	iP		21 16 13.6		
		Greece (h = N).					
"	3	Up	iP		01 15 41.5		
		(cont.)					
1975 Feb.	3	(cont.)					
		Up	ipP		01 16 34.7		
			iS		01 25 58		
			isS		01 27 05		
					micr	sec	
			pP	Z'	0.2	1.4	
		Ki	iP		01 15 31.0 C		
			ipP		01 16 23.9		
			iPP		01 18 43.1		
					micr	sec	
			P	Z'	0.2	1.5	
			pP	Z'	0.5	1.5	
			PP	Z'	0.2	1.4	
		Sk	iP		01 15 24.1		
			ipP		01 16 16.7		
			isP		01 16 39.6		
		Um	iP		01 15 39.0 C		
			ipP		01 16 32.7		
			iS		01 25 40		
			isS		01 26 51		
		Ud	iP		01 15 32.1 C		
			ipP		01 16 25.8		
			i		01 16 43.2		
			isP		01 16 48.8		
			iPP		01 18 45.6		
		De	iP		01 15 39.1		
			ipP		01 16 33.3		
		Mexico-Guatemala.					
		h = 220 km (Up,Ki,Sk,Um,Ud, De).					
		m = 5.8 (Up,Ki).					
"	3	Ud	iP		04 33 22.6		
			i		04 33 27.1		
"	3	Ki	iP		06 18 34.0		
		Ud	iP		06 18 25.9		
		South of Panama (h = N).					
"	3	Ud	iP		07 17 30.1		
"	3	Up	iP		08 17 53.6		
		Ki	eP		08 17 05		
		Um	iP		08 17 26.0		
		Ud	iP		08 17 57.9		
		Kurile Islands (h = 70 km).					
"	3	Ud	i(P)		08 36 37.1		
"	3	Up	iPKP1		08 59 06.5		
		Ud	iPKP1		08 59 06.4		
"	3	Ud	iP		10 04 08.9		

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

1975					
Feb.	3	Ki	iP	14 19 28.4	
		Um	iP	14 19 17.3	
		Ud	iP	14 19 38.8	
		Tadzhik-Sinkiang (h = N).			
"	3	Sk	iP	16 01 41.4	
		Ud	iP	16 01 42.4	
		Banda Sea (h = 340 km).			
"	3	Up	iP	16 19 54.9	
"	3	Up	iP	16 59 22.8	
		Ki	iP	16 59 07.2	C
		Um	iP	16 59 12.4	
		Ud	iP	16 59 31.0	
			i(PP)	17 03 26.2	
		De	iP	16 59 35.9	
		Banda Sea (h = 20 km).			
"	3	Sk	iP	23 29 09.5	
		Ud	iP	23 28 39.4	
		Dodecanese Islands.			
"	4	Ud	iP	01 20 03.2	
"	4	Up	iP	01 43 37.7	
				micr sec	
			P Z'	0.1 1.0	
		Ki	iP	01 42 57.7	
		Um	iP	01 43 22.6	
		Ud	iP	01 43 29.5	
		Montana, USA (h = 8 km).			
"	4	Up	iPKPl	02 07 40.9	
		Ud	iPKPl	02 07 42.1	
		De	iPKPl	02 07 53.7	
"	4	Um	iPKPl	03 22 25.0	
		Ud	iPKPl	03 22 37.0	
"	4	Ud	iP	04 40 23.0	
"	4	Up	iP	06 36 02.4	C
			ipP	06 36 13.3	
				micr sec	
			P Z'	0.1 1.1	
		Ki	iP	06 35 09.7	C
				micr sec	
			P Z'	0.1 1.2	
		Um	iP	06 35 34.6	C
			ipP	06 35 45.8	
		Kamchatka.			
		h = 40 km (Up,Um).			
		m = 5.8 (Up,Ki).			

1975					
Feb.	4	Um	iPKP	09 30 14.8	
			iSKPl	09 32 55.5	
		Ud	iPKPl	09 30 21.9	
		De	iPKPl	09 30 33.1	D
		Fiji Islands (h = 620 km).			
"	4	Up	iP	09 49 24.9	
"	4	Up	iP	11 46 28.8	
			iPP	11 48 54	
			iS	11 54 56.7	
				micr sec	
			P Z'	2.0 1.3	
			Mx E	290 18	
			Mx N	510 18	
			Mx Z	240 18	
		Ki	iP	11 45 53.9	
			iS	11 53 50	
				micr sec	
			P Z'	2.2 1.2	
			Mx E	180 15	
			Mx N	150 14	
			Mx Z	290 16	
		Sk	iP	11 46 28.8	
		Um	iP	11 46 08.2	
			iPP	11 48 26	
			iS	11 54 16	
		Ud	iP	11 46 39.0	
		De	iP	11 46 52.6	
		NE China (h = N).			
		m = 7.1, M = 7.6 (Up,Ki).			
"	4	Um	iP	11 58 08.0	
		NE China (h = N).			
"	4	Ud	iP	13 11 15.4	
"	4	Up	iP	13 43 01.5	
		Ki	iP	13 42 28.5	
		Sk	iP	13 43 02.3	
		Um	i(P)	13 42 38.2	
			iP	13 42 41.9	
		Ud	iP	13 43 13.6	
			i	13 43 21.4	
		De	iP	13 43 27.3	
		NE China (h = N).			
"	4	Up	iP	13 50 35.4	
		Ki	iP	13 50 00.5	
		Um	iP	13 50 12.9	
		Ud	iP	13 50 46.6	
		NE China (h = N).			
"	4	Um	iP	14 06 49.5	
		NE China (h = N).			

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

1975 Feb.	4	Sk	iP	14 13 36.0	
		NE China (h = N).			
"	4	Ud	i(Sgl)	14 39 45.3	
"	4	Up	iP	14 43 07.9	
"	4	Ud	i(Sgl)	14 47 24.4	
"	4	Ud	iP	17 09 53.1	
		De	iP	17 10 15.0	
		Kamchatka.			
"	4	Up	iP	19 06 58.3	
		Ki	iP	19 06 18.8	
		Sk	iP	19 06 57.7	
		Um	iP	19 06 37.0	
		De	iP	19 07 22.0	
		NE China (h = N).			
"	4	Ud	iPKP1	19 23 40.6 D	
"	4	Ud	i(Sgl)	19 48 28.5	
"	4	Up	iP	20 31 57.3 D	
			ipP	20 32 44.5	
				micr	sec
			P Z'	0.2	1.5
		Ki	iP	20 31 32.0	
				micr	sec
			P Z'	0.2	1.3
		Sk	iP	20 32 05.0	
		Um	ipP	20 32 25.4	
		Ud	iP	20 32 06.6 D	
			ipP	20 32 54.7	
		De	iP	20 32 18.0	
			ipP	20 33 04.2	
		Formosa.			
		h = 190 km (Up,Ud,De).			
		m = 5.7 (Up,Ki).			
"	4	Up	iSgl	21 39 56.2	
			iRg	21 40 00.2	
		Rockburst at the iron ore mines at Ramhäll, Sweden, 60.1°N, 18.0°E.			
		Origin time = 21 39 47.			
		Felt.			
"	4	Up	iPKP1	22 49 54.7 C	
		Ud	iPKP1	22 49 57.4 C	
"	5	Um	iP	02 32 15.3	
		Japan (h = 170 km).			
1975 Feb.	5	Ud	iP	03 03 10.8	
"	5	Up	iPKP1	04 21 36.6 D	
		Sk	iPKP1	04 21 30.8	
		Um	iPKP1	04 21 26.0	
		Ud	iPKP1	04 21 38.0 D	
		South of Kermadec Islands.			
"	5	Up	iP	05 51 16.3	
				micr	sec
			P Z'	0.1	0.9
		Ki	iP	05 51 23.7	
		Sk	iP	05 51 41.1	
		Um	iP	05 51 13.5	
		Ud	iP	05 51 33.0	
			ipP	05 52 10.8	
		De	iP	05 51 29.8	
		Afghanistan-USSR.			
		h = 180 km (Ud).			
"	5	Up	iP	06 45 09.6	
		Ud	iP	06 45 18.2	
		Ryukyu Islands (h = N).			
"	5	Ud	iP	06 59 56.7	
"	5	Up	iPKP	07 06 21.9	
		Ki	iPKP	07 06 37.0	
				micr	sec
			PKP Z'	0.2	1.1
		Sk	iPKP	07 06 24.3	
		Um	iPKP	07 06 30.0	
		Ud	iPKP	07 06 20.1	
		South Sandwich Islands (h = N).			
"	5	Um	iP	10 50 01.9	
		Ud	iP	10 50 27.5	
		South of Japan (h = 450 km).			
"	5	Ki	iP	16 04 51.6	
		Sk	iP	16 04 10.8	
"	5	Up	iP	18 38 14.7	
		Ki	iP	18 37 56.8	
		Ud	iP	18 38 24.8	
			ipP	18 38 37.8	
		Mindanao.			
		h = 50 km (Ud).			
"	5	Ud	iPKP	21 52 32.0	
"	5	Ud	iP	21 54 16.9	
		De	iP	21 54 30.3	
		NE China (h = N).			

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

1975 Feb.	5	Up	iP		23 54 09.9	C	
					micr	sec	
			P	Z'	0.1	1.1	
		Ki	iP		23 53 17.2	C	
					micr	sec	
			P	Z'	0.1	0.8	
		Um	iP		23 53 42.0	C	
		Ud	iP		23 54 13.3	C	
		De	iP		23 54 34.3	C	
		Kamchatka (h = 30 km).					
		m = 6.0 (Up,Ki).					
"	6	Up	iP		04 35 16.3		
			i		04 35 22.3		
					micr	sec	
			P	Z'	0.1	1.0	
			Mx	E	1.7	18	
			Mx	N	2.8	16	
		Ki	iP		04 34 41.4		
			i		04 34 46.5		
					micr	sec	
			P	Z'	0.1	1.3	
			Mx	E	2.7	17	
			Mx	N	2.6	18	
		Sk	iP		04 35 13.9		
			i		04 35 20.0		
		Um	iP		04 34 55.1		
			i		04 35 00.4		
		Ud	iP		04 35 26.9		
			i		04 35 32.2		
		De	iP		04 35 40.3		
			i		04 35 45.9		
		NE China (h = N).					
		m = 5.8, M = 5.6 (Up,Ki).					
		Double P, average separation = 5.6 sec.					
"	6	Up	iP		06 49 23.9	D	
		Ud	iP		06 49 38.6	D	
		De	iP		06 49 39.4		
		Nepal (h = N).					
"	6	Ud	iP		09 39 36.3		
"	6	De	iPKPl		11 56 39.5		
			i		11 56 51.4		
		Tonga-Kermadec Islands (h = N).					
"	6	Ki	iP		12 14 10.1		
		Um	iP		12 14 34.8		
		Ud	iP		12 15 24.9		
1975 Feb.	6	Ud	iPgl		15 13 07.4		
			iSgl		15 13 24.3		
"	6	Ud	iP		15 22 26.0		
"	6	De	iPKPl		15 59 45.5		
"	6	Um	iP		16 06 21.8		
		NE China (h = N).					
"	6	Sk	iP		17 01 09.8		
		Ud	iP		17 01 08.1		
		De	iP		17 01 07.1		
		Venezuela (h = N).					
"	6	Up	iP		17 38 57.8		
		Ud	iP		17 39 11.0		
"	6	Up	iSgl		17 44 25.5		
			iRg		17 44 29.4		
		Rockburst at the iron ore mines at Ramhäll, Sweden, 60.1°N, 18.0°E.					
		Origin time = 17 44 16.					
		Felt.					
"	6	Up	iSgl		17 48 41.3		
			iRg		17 48 46.0		
		Rockburst at the iron ore mines at Ramhäll, Sweden, 60.1°N, 18.0°E.					
		Origin time = 17 48 33.					
		Felt.					
"	6	Ki	iP		17 58 50.3		
			iS		18 00 15.8		
			iTPg		18 04 01.6		
			i		18 04 34.2		
		Sk	iP		17 59 28.8		
		Um	iP		17 59 35.5		
		Ud	iP		18 00 16.8		
			i		18 00 26.3		
			i		18 00 32.9		
		De	iP		18 01 06.2		
			i		18 01 15.9		
		Norwegian Sea (h = N).					
"	6	Ud	iP		21 14 38.1		
"	6	Up	iP		21 35 17.5	C	
		Sk	iP		21 35 15.4		
		Ud	iP		21 35 30.9	C	
		East of Lake Baikal (h = N).					

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

1975 Feb.	6	Up	iP		21 38 37.8		
					micr	sec	
			P	Z'	0.1	1.2	
"	7	Up	iP		01 17 04.5		
"	7	Ud	iP		02 52 56.2		
		Uzbekh SSR.					
"	7	Up	iPKP		05 10 25.7		
					micr	sec	
			Mx	E	9.0	24	
			Mx	N	11	21	
			Mx	Z	17	20	
		Ki	iPKP		05 10 15.3		
					micr	sec	
			Mx	E	21	25	
			Mx	N	18	24	
			Mx	Z	23	25	
		Sk	iPKP		05 10 24.1		
			i		05 10 26.3		
		Um	iPKP		05 10 18.4		
		Ud	iPKP		05 10 28.9		
		De	iPKP		05 10 31.9		
			i		05 10 34.2		
			i		05 10 36.7		
		New Britain (h = N).					
		M = 6.7 (Up,Ki).					
"	7	Sk	iP		05 21 01.5		
		Ud	iP		05 20 50.6		
			i		05 20 56.2		
"	7	Ud	iPg1		05 48 52.8		
			iSg1		05 49 10.0		
"	7	Up	iP		16 52 44.4		
					micr	sec	
			P	Z'	0.1	1.0	
		Ki	iP		16 52 05.5		
		Sk	iP		16 52 38.5		
		Um	iP		16 52 22.2		
			i		16 52 26.9		
		Ud	iP		16 52 51.1		
		De	eP		16 53 05		
		Japan (h = 55 km).					
"	8	Um	iPKP		03 30 20.2		
		Ud	iPKP		03 30 24.4		
			i		03 30 29.3		
		Tonga Islands (h = 170 km).					
1975 Feb.	8	Up	iP		08 24 55.1		
			iSn		08 27 37.4		
		Ki	iP		08 26 21.4		
			iSn		08 30 22.3		
		Sk	iP		08 25 49.2		
			iS		08 29 35.6		
		Um	iP		08 25 36.9		
			iSn		08 28 55.1		
		Ud	iP		08 25 19.4		
			iSn		08 28 03.5		
		De	iP		08 24 28.7		
		Rumania (h = 25 km).					
"	8	Up	iPKP1		11 44 26.5		
		Ud	iPKP1		11 44 27.9		
		De	iPKP1		11 44 37.8		
"	8	Ud	iP		12 05 06.7		
		Aleutian Islands (h = 55 km).					
"	8	Um	iP		12 48 18.2		
		Kurile Islands (h = N).					
"	8	Ud	iPKP1		20 10 06.2		
		De	iPKP1		20 10 16.7	C	
"	8	Ki	iP		23 58 26.2		
		Sk	iP		23 58 57.1		
		Um	iP		23 58 53.9		
		Ud	iP		23 59 19.8		
		De	iP		23 59 42.0		
		Aleutian Islands (h = N).					
"	9	Up	Mx		05 38		
					micr	sec	
			Mx	E	0.9	16	
			Mx	N	3.3	23	
			Mx	Z	1.0	18	
		Ki	Mx		05 39		
					micr	sec	
			Mx	E	2.9	21	
			Mx	N	2.3	18	
			Mx	Z	1.7	17	
		Java (h = 25 km).					
		M = 5.9 (Up,Ki).					
"	9	De	ePKP1		05 57 27		
		Fiji Islands (h = 450 km).					
"	9	Up	iPKP1		07 28 05.1		
			i		07 28 08.1		

(cont.)

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

1975 Feb. 9 (cont.)

			micr	sec
Up	PKP1	Z'	0.1	1.0
Ki	ePKP		07 27 45	
Sk	iPKP1		07 27 56.9	
	i		07 28 13.6	
Um	iPKP1		07 27 52.0	
Ud	iPKP1		07 28 06.1	
	i		07 28 11.4	
De	iPKP1		07 28 13.2	
	i		07 28 24.4	

Kermadec Islands (h = 25 km).

" 9 Ud iP 07 37 14.6

" 9 Ki iP 09 23 02.9
Ud iP 09 23 58.5
Aleutian Islands (h = 45 km).

" 9 Ud i(P) 09 34 24.1

" 9 Ud iP 10 13 15.2

" 9 Um iP 10 36 12.4
Ud iP 10 36 13.6
Indian Ocean (h = N).

" 9 Up iP 11 12 06.4

		micr	sec
P	Z'	0.1	1.1
Mx	E	1.4	18
Mx	N	1.7	19
Mx	Z	2.7	20

Ki iP 11 11 06.6
ipP 11 11 12.9

		micr	sec
pP	Z'	0.1	1.0
Mx	E	1.6	17
Mx	N	1.3	15
Mx	Z	1.5	14

Sk eP 11 11 48
Um iP 11 11 38.5
ipP 11 11 44.6
iS 11 20 00
Ud iP 11 12 08.1
ipP 11 12 14.2
De ipP 11 12 36.2
Aleutian Islands.
h = 25 km (Ki,Um,Ud).
m = 5.9, M = 5.4 (Up,Ki).

" 9 Up iP 12 27 48.4
(cont.)

1975 Feb. 9 (cont.)

Um iP 12 27 46.5
Ud iP 12 28 04.6
Hindu Kush.
Intermediate depth.

" 9 Up iP 12 40 55.8

		micr	sec
Mx	E	1.0	11
Mx	N	1.0	12
Mx	Z	1.1	12

Ki iP 12 42 09.8

		micr	sec
Mx	E	1.4	14

Sk eP 12 41 37
Ud iP 12 41 03.9
De iP 12 40 30.6
Aegean Sea (h = 30 km).
M = 4.6 (Up,Ki).

" 9 Ud iP 12 42 54.3
Aegean Sea.

" 9 Up iP 14 44 21.4

		micr	sec
P	Z'	0.1	1.2

Ki iP 14 44 48.4
Sk iP 14 44 47.7
Um iP 14 44 32.3
i 14 44 38.8
Ud iP 14 44 33.3 C
Indian Ocean (h = N).

" 9 Up iP 15 34 46.4
Um iP 15 34 57.3
Ud iP 15 34 59.8
Indian Ocean (h = N).

" 9 Um iP 17 54 26.2
iPP 17 56 15.7
Ud iP 17 54 44.6
ipP 17 55 27.3
De eP 17 54 41
Hindu Kush.
h = 210 km (Ud).

" 9 Ud iP 18 51 47.2

" 9 Ud iP 18 55 01.5

" 9 Ud iP 18 57 02.0

" 9 Um ePP 20 08 20
(cont.)

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

1975 Feb.	9	(cont.)				
		Um	i	20 08 25.1		
		Ud	i	20 08 26.8		
		Banda Sea (h = N).				
"	9	Up	iP	21 53 01.4		
		Ud	iP	21 53 17.2		
		Hindu Kush (h = 240 km).				
"	9	Up	iP	23 36 42.1		
		Ki	iP	23 36 28.2		
		Um	i(P)	23 36 25.8		
			iP	23 36 29.6		
		Ud	iP	23 36 54.6		
		China-India (h = N).				
		Late arrivals compared to				
		the NEIS solution.				
"	10	Um	iP	00 09 43.4		
		Aleutian Islands (h = 45 km).				
"	10	Ud	i(P)	00 30 14.2		
"	10	Ud	iP	02 29 48.1		
"	10	Um	iPKPl	04 48 20.9		
"	10	Ud	iP	05 02 22.1		
		Aleutian Islands (h = N).				
"	10	Ud	iP	06 24 34.4		
"	10	Up	iP	10 15 44.1		
		Ki	iP	10 14 48.1		
		Um	iP	10 15 17.7		
		Ud	iP	10 15 40.1		
		De	iP	10 16 05.1		
		Alaska (h = N).				
		Late arrivals compared to				
		the NEIS solution.				
"	10	Um	iP	10 34 01.1		
		South of Japan (h = N).				
"	10	Ud	iP	10 39 28.6		
"	10	Ki	iPgl	13 11 51.5		
			iSn	13 12 14.2		
			iSgl	13 12 16.3		
				micr	sec	
			Sgl Z'	0.1	0.8	
		Sk	iSgl	13 14 01.8		
		Um	iSgl	13 14 02.0		
		(cont.)				

1975 Feb.	10	(cont.)				
		North Norway,				
		68.7°N, 16.0°E.				
		Origin time = 13 11 18.				
		m = 4.0, M_L = 2.1 (Ki,Sk,Um).				
"	10	Ki	iP	15 44 28.6		
"	10	Up	iPKPl	15 49 56.7		
		Ud	iPKPl	15 49 58.7		
"	10	Ki	iP	19 10 29.2		
		Banda Sea (h = N).				
"	10	Up	eP	19 16 27		
				micr	sec	
			Mx E	0.8	16	
			Mx N	1.3	15	
			Mx Z	1.2	18	
		Ki	iP	19 16 54.0 D		
				micr	sec	
			P Z'	0.1	1.0	
			Mx E	1.2	21	
			Mx N	0.7	15	
			Mx Z	0.7	15	
		Sk	iP	19 16 14.6		
		Um	iP	19 16 44.8 D		
		Ud	iP	19 16 10.6		
			i	19 16 52.1		
		North Atlantic Ocean				
		(h = N).				
		M = 4.8 (Up,Ki).				
"	10	Um	iP	19 56 07.0		
		Ud	iP	19 56 08.6		
		Indian Ocean (h = N).				
"	10	Um	iP	20 03 54.6		
		Ud	iP	20 03 37.0		
		De	eP	20 03 04		
		Turkey (h = N).				
"	10	Up	iP	20 31 36.9		
				micr	sec	
			P Z'	0.1	1.1	
			Mx E	0.7	15	
			Mx N	0.7	15	
			Mx Z	1.1	16	
		Ki	iP	20 31 04.1		
				micr	sec	
			Mx E	0.7	13	
			Mx N	0.6	14	
			Mx Z	0.7	13	
		Um	iP	20 31 19.2 D		
		(cont.)				

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

1975 Feb.	10	(cont.)			
		Ud	iP	20 31 46.3	D
		De	iP	20 31 58.5	
		Ryukyu Islands (h = N).			
		M = 5.3 (Up,Ki).			
"	10	Ki	iP	21 24 46.7	
		Sk	iP	21 24 46.2	
		Um	iP	21 24 30.7	C
		Ud	iP	21 24 31.8	C
		De	iP	21 24 25.4	
		Indian Ocean (h = N).			
"	11	Um	iP	03 54 08.7	
		Ud	iP	03 54 25.8	
		Hindu Kush (h = 160 km).			
"	11	Um	iP	04 48 27.7	
		Ud	iP	04 48 33.9	
"	11	Ud	iPKP1	05 33 07.1	
"	11	Ud	iP	06 50 27.7	
		Kashmir-Tibet (h = N).			
"	11	Ki	iPKP1	08 25 24.0	
		Um	iPKP1	08 25 32.0	
		New Zealand (h = 160 km).			
"	11	Ud	iP	09 44 35.9	
"	11	Um	iP	10 37 39.8	
			i	10 37 49.8	
		Japan (h = 90 km).			
"	11	Up	iP	11 29 21.7	
		Ud	iP	11 29 29.8	
		De	iP	11 29 52.3	
		NE Siberia.			
"	11	Up	iP	14 41 24.4	D
		Ki	iP	14 40 29.6	
		Sk	iP	14 40 59.3	D
		Um	iP	14 40 58.0	D
		Ud	iP	14 41 22.6	D
		De	iP	14 41 45.4	
		Alaska Peninsula (h = 20 km).			
"	11	Ud	iPKP1	19 09 26.5	
			i	19 09 28.5	
		De	iPKP1	19 09 37.5	
			i	19 09 39.0	

1975 Feb.	11	Up	iP	20 38 04.9		
				micr		sec
			P	Z'	0.1	1.3
			Mx	E	0.7	12
			Mx	N	1.0	14
			Mx	Z	1.5	16
		Ki	iP	20 38 07.3		
				micr		sec
			P	Z'	0.1	0.8
			Mx	E	0.7	9
			Mx	N	1.2	12
			Mx	Z	0.6	9
		Sk	iP	20 38 28.1		
		Um	iP	20 38 00.7		
			i	20 38 50.2		
		Ud	iP	20 38 21.1		
		De	iP	20 38 20.7		
			iPP	20 40 06.9		
		Sinkiang, China (h = N).				
		m = 5.5, M = 5.1 (Up,Ki).				
"	11	Ud	iP	20 52 43.9		
"	11	Ud	iP	22 09 41.9		
			ePP	22 11 46		
		De	iP	22 09 36.0		
		Bolivia (h = 560 km).				
"	11	Up	iP	22 11 58.9		
			i	22 19 32.5		
				micr		sec
			P	Z'	0.1	1.2
			Mx	E	0.5	10
			Mx	N	0.7	14
			Mx	Z	1.0	11
		Ki	iP	22 11 58.1		
				micr		sec
			P	Z'	0.1	1.0
			Mx	N	0.6	10
		Sk	iP	22 12 19.3		
		Um	iP	22 11 54.1		
			iPP	22 13 22.4		
		Ud	iP	22 12 13.1		
			iPP	22 13 47.9		
		De	iP	22 12 12.3		
			iPP	22 13 49.6		
		Sinkiang, China (h = N).				
		m = 5.5, M = 4.9 (Up,Ki).				
"	11	Up	iP	22 26 05.0		
				micr		sec
			P	Z'	0.1	1.3

(cont.)

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

1975 Feb.	11	(cont.)				
		Um	iP		22 25 36.0	
		Ud	iP		22 26 13.6	
"	11	Ud	iP		23 04 13.3	
"	12	Up	iPKP		02 58 51.8	
		Ki	iPKP		02 59 07.3	
		Um	iPKP		02 59 00.0	
		Ud	iPKP		02 58 50.3	
		South Sandwich Islands.				
"	12	Up	iPKPl		03 38 09.5	
		Ud	iPKPl		03 38 13.0	
"	12	Ud	iP		04 03 59.2	
"	12	Um	iP		08 57 16.0	
		Ud	iP		08 57 50.5	
"	12	Ud	iP		09 56 15.6	
		South of Japan (h = 450 km).				
"	12	Um	iP		10 15 32.1	
		Panama (h = 25 km).				
"	12	Ud	i(P)		12 25 30.7	
"	12	Ki	iP		12 52 34.1	
		Sk	iP		12 53 09.0	
		Um	iP		12 52 47.7	
		Ud	eP		12 53 20	
		NE China (h = N).				
"	12	Ud	i(Sgl)		13 30 24.0	
"	12	Ud	iP		13 38 24.8	
"	12	Up	iP		13 42 27.8	
			i		13 42 29.5	
			iPP		13 43 55.7	
			iLgl		13 55 47.0	
					micr	sec
			P	Z'	0.2	1.1
			Mx	E	2.2	8
			Mx	N	1.3	7
			Mx	Z	4.8	8
		Ki	iP		13 42 20.0	
			i		13 42 22.2	
			iPP		13 43 51.1	
					micr	sec
			P	Z'	0.2	1.0
		(cont.)				
1975 Feb.	12	(cont.)				
		Ki			micr	sec
			Mx	E	2.3	9
			Mx	N	1.0	8
			Mx	Z	2.2	9
		Sk	iP		13 42 46.8	
			i		13 42 48.6	
		Um	iP		13 42 17.7	
			i		13 42 19.7	
			iLgl		13 55 18.1	
		Ud	iP		13 42 44.4	C
			i		13 42 46.2	
		De	iP		13 42 46.8	
			i		13 42 48.8	
		Alma-Ata (h = N).				
		m = 5.7, M = 5.6 (Up,Ki).				
		Double P, smaller and larger,				
		average separation = 1.9 sec.				
"	12	Ud	i(P)		23 00 05.0	
"	13	Ud	iP		01 03 41.8	
"	13	Up	iPKP		01 20 32.0	
		Ki	iPKP		01 20 21.0	
		Um	iPKP		01 20 27.5	
		Ud	iPKP		01 20 35.3	
		De	iPKP		01 20 40.5	C
		Solomon Islands (h = 490 km).				
"	13	Um	iPKPl		02 43 43.8	
"	13	Ki	iP		03 28 48.6	
		Ud	iP		03 29 01.7	
		Sinkiang, China (h = N).				
"	13	Ud	iPKPl		10 56 43.4	
		De	iPKPl		10 56 54.0	
"	13	Ud	i(P)		13 15 18.6	
"	13	Ud	i(P)		13 59 29.9	
"	13	Ud	i(P)		14 17 02.5	
"	13	Ud	i(P)		14 21 30.2	
		De	i(P)		14 21 17.3	
"	13	De	i(P)		14 23 28.4	
			i		14 23 29.9	
"	13	Up	iPKPl		17 26 53.5	
		(cont.)				

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

1975 Feb.	13	(cont.)			
		Ud	iPKP1	17 26 55.6	
		De	iPKP1	17 27 05.4	
		Tonga-Kermadec Islands (h = 510 km).			
"	13	Um	iP	17 37 14.5	
		Ud	iP	17 37 35.6	
"	14	Ud	i(P)	01 34 33.2	
"	14	Um	iP	07 16 29.3	
"	14	Um	iP	08 04 23.7	
"	14	Um	iP	08 47 09.2	
"	14	Ud	iP	10 05 05.4	
			i	10 05 11.1	
"	14	Sk	iP	11 30 37.8	
		Um	iP	11 30 37.4	
		Ud	iP	11 30 00.7	
		De	iP	11 29 21.7	
		Albania (h = 35 km).			
"	14	Sk	iP	11 36 40.8	
		Ud	iP	11 36 50.5	
			i	11 36 55.5	
"	14	Ud	iP	11 48 53.6	
"	14	Up	iSg1	13 26 38.3	
		Sk	i	13 26 19.9	
			iSg1	13 26 37.9	
		Um	iSg1	13 27 59.2	
		Ud	iSg1	13 25 38.7	
		De	eSn	13 25 30	
		South Norway, 58.4°N, 6.8°E.			
		Origin time = 13 23 36.			
		By combination with Bergen and Kongsberg readings.			
		m = 4.2, M_L = 2.6 (Up,Sk, Um,Ud).			
"	14	Um	iP	20 27 02.6	
"	14	Up	iP	21 05 53.1	
		Ki	iP	21 05 48.7	
"	14	Um	iP	22 37 10.5	

1975 Feb.	14	Ud	i(P)	23 23 31.2	
"	15	Sk	iP	00 09 20.6	
			ipP	00 09 54.7	
		Um	iP	00 09 35.9	
			ipP	00 10 11.5	
		Ud	iP	00 09 20.3	
			ipP	00 09 56.1	
		Nicaragua.			
		h = 140 km (Sk,Um,Ud).			
"	15	Um	i(P)	00 25 42.6	
"	15	Sk	i(P)	01 24 20.0	
		Um	i(P)	01 24 04.1	
"	15	Um	iP	01 36 18.0	
"	15	Up	iP	06 28 25.7	
			ipP	06 28 33.3	
				micr sec	
			P Z'	0.2 1.5	
			pP Z'	0.1 1.3	
		Ki	iP	06 29 02.4	
			ipP	06 29 10.2	
				micr sec	
			pP Z'	0.1 1.5	
		Sk	iP	06 28 49.3	
			ipP	06 28 59.3	
		Um	iP	06 28 42.3	
			ipP	06 28 51.2	
		Ud	iP	06 28 31.1	
			ipP	06 28 39.3	
		De	eP	06 28 17	
		Mozambique Channel.			
		h = 30 km (Up,Ki,Sk,Um,Ud).			
		m = 5.9 (Up,Ki).			
"	15	Um	iP	07 24 57.2	
"	15	Up	iP	08 02 12.2	
		Ud	iP	08 02 11.7	
		De	eP	08 02 34	
		Aleutian Islands (h = 50 km).			
"	15	Up	iP	08 33 32.2 C	
		Ki	iP	08 33 12.9 C	
		Um	iP	08 33 20.3	
		Ud	iP	08 33 39.7 C	
		Samar (h = 70 km).			
"	15	Up	iP	10 28 39.0	
			i	10 28 52.1	
		(cont.)			

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

1975								
Feb.	15	(cont.)						
		Up	iPP			10 29 07.5		
						micr	sec	
			Mx	E		0.7	15	
			Mx	N		1.0	11	
			Mx	Z		0.8	10	
		Ki	iP			10 29 45.9	C	
						micr	sec	
			Mx	E		0.5	11	
		Sk	iP			10 29 19.0		
		Um	iP			10 29 11.7		
		Ud	iP			10 28 47.5	C	
		De	iP			10 28 15.0		
		Dodecanese Islands (h = 30 km).						
		M = 4.6 (Up,Ki).						
"	15	Ud	i(P)			11 02 19.8		
"	15	Ud	i(P)			11 17 48.3		
"	15	Ud	i(P)			12 02 58.0		
"	15	Up	iP			13 18 30.1		
						micr	sec	
			P	Z'		0.2	1.5	
			Mx	E		1.0	18	
			Mx	N		1.4	13	
			Mx	Z		1.9	13	
		Ki	iP			13 17 53.2		
						micr	sec	
			P	Z'		0.2	1.7	
			Mx	E		1.2	10	
			Mx	N		1.0	12	
			Mx	Z		1.5	14	
		Sk	iP			13 18 28.4		
		Um	iP			13 18 07.4		
		Ud	iP			13 18 39.1		
		NE China (h = N).						
		m = 6.0, M = 5.4 (Up,Ki).						
"	15	Um	i(P)			14 14 29.4		
"	15	Um	i(P)			14 31 24.4		
"	15	Up	iP			18 26 55.1		
"	15	Ki	iP			20 15 14.2		
			ipP			20 15 26.2		
		Um	iP			20 15 40.7		
			ipP			20 15 53.1		
		Ud	iP			20 16 06.4		
			ipP			20 16 18.7		
		Aleutian Islands.						
		h = 45 km (Ki,Um,Ud).						

1975								
Feb.	15	Ki	iP			22 16 20.9		
		Um	iP			22 15 57.3		
			i			22 16 00.9		
		Ud	iP			22 15 47.3		
		De	iP			22 15 31.6		
		Mozambique Channel (h = N).						
"	16	Up	iP			05 13 26.3		
		Ki	iP			05 13 02.9	C	
			iPKP			05 17 06.7		
						micr	sec	
			P	Z'		0.1	1.0	
		Um	iP			05 13 12.5		
			iPKP			05 17 09.5		
			iPP			05 17 53.8		
		Ud	iP			05 13 33.7		
		De	iPKP			05 17 22.7		
			iPP			05 18 41.2		
		New Guinea (h = 170 km).						
"	16	Ud	iP			10 04 46.9		
"	16	Ki	iP			10 39 20.4		
		Ud	iP			10 40 35.6		
"	16	Ud	iP			10 46 29.0		
"	16	Up	i			11 07 09.0		
			iSgl			11 07 24.3		
"	16	Ud	i(Sgl)			11 14 58.8		
"	16	Ud	i(P)			11 34 42.4		
"	16	Up	iP			14 11 45.7		
						micr	sec	
			Mx	E		1.1	15	
			Mx	N		1.5	17	
			Mx	Z		2.0	15	
		Ki	iP			14 11 08.8		
						micr	sec	
			P	Z'		0.2	1.5	
			Mx	E		1.0	14	
			Mx	N		1.3	17	
			Mx	Z		1.4	15	
		Sk	iP			14 11 44.4		
		Um	iP			14 11 22.9		
			i			14 11 24.5		
		Ud	iP			14 11 54.2		
			i			14 11 55.4		
		De	iP			14 12 08.0		
		NE China (h = N).						
		M = 5.4 (Up,Ki).						

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

1975 Feb.	16	Ud	iPKPl		20 45 31.4	C
"	17	Ud	iP		01 10 10.8	
"	17	Ud	iP		01 33 50.7	
"	17	Ki	iP		01 55 23.1	
		Ud	iP		01 55 48.8	
"	17	Up	iP		03 49 32.5	
			iS		03 58 49	
					micr sec	
			P	Z'	0.5 1.6	
			Mx	E	1.9 17	
			Mx	N	6.7 22	
			Mx	Z	4.6 21	
		Ki	iP		03 49 27.2	
			i		03 49 29.1	
			iS		03 58 35	
					micr sec	
			P	Z'	0.9 1.9	
			Mx	E	3.1 13	
			Mx	N	5.8 18	
			Mx	Z	3.0 15	
		Sk	iP		03 49 47.8	
		Um	iP		03 49 25.7	
			i		03 49 27.1	
			iS		03 58 33	
		Ud	iP		03 49 46.3	
			i		03 49 47.7	
		De	iP		03 49 46.2	
			i		03 49 48.6	
		Burma (h = 6 km).				
		m = 6.6, M = 6.0 (Up,Ki).				
		Double P, average				
		separation = 1.8 sec.				
		Unusually long periods				
		(1.6-2.0 sec) of PZ'.				
"	17	Up	iP		06 16 59.2	
					micr sec	
			P	Z'	0.1 1.0	
		Ki	iP		06 16 14.7	
		Um	iP		06 16 35.0	
		Ud	iP		06 17 05.8	
			ipP		06 17 22.3	
		Japan.				
		h = 60 km (Ud).				
"	17	Um	iPKPl		06 31 16.5	
"	17	Ki	iP		08 18 02.6	
		(cont.)				

1975 Feb.	17	(cont.)			
		Um	iP		08 17 51.8
		Ud	iP		08 18 08.4
		Hindu Kush (h = 200 km).			
"	18	Ki	iP		03 58 08.9
		Ud	iP		03 58 18.5
"	18	Um	iP		07 27 07.2
"	18	Sk	iP		10 37 11.4
		Um	iP		10 37 25.7
		South of Panama (h = 20 km).			
"	18	Um	iPKPl		14 29 03.1
			i		14 29 07.0
		Ud	iPKPl		14 29 14.8
"	18	Ki	iP		15 23 41.5
		Ud	iP		15 24 07.1
		Mindanao (h = 60 km).			
"	19	Um	ePKPl		02 12 11
"	19	Up	iP		07 39 49.9
		Ki	iP		07 38 54.6
		Ud	iP		07 39 51.1
		Aleutian Islands (h = 55 km).			
"	19	Ud	eP		09 27 32
		Indian Ocean.			
"	19	Ki	iP		09 38 39.9
		Um	iP		09 38 51.0
		Ud	iP		09 39 15.2
		Mariana Islands (h = N).			
"	19	Up	iPKP		09 58 03.4
		Ki	iPKP		09 58 19.2
		Um	iPKP		09 58 11.7
		Ud	iPKP		09 58 01.6
		South Sandwich Islands			
		(h = 55 km).			
"	19	Up	iP		20 33 15.8 C
		Um	iP		20 33 04.2 C
		Ud	iP		20 33 23.9 C
		Samar (h = 110 km).			
"	20	Sk	iP		03 36 05.8
		Um	iP		03 36 20.0
		Ud	iP		03 36 13.2
		Guatemala (h = 140 km).			

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

1976

Feb.	20	Up	iP	04 14 02.8	
		Ki	iP	04 13 28.8	
		Um	iP	04 13 44.4	
			iPcP	04 14 09.6	
			ipP	04 15 25.9	
		Ud	iP	04 14 11.0	
		De	iP	04 14 23.6	
		South of Japan.			
		h = 470 km (Um).			
"	20	Up	iP	05 39 52.6	C
			iPn	05 40 59.8	
			iPP	05 41 11.1	
				micr sec	
			P Z'	0.2 0.9	
			PP Z'	0.2 1.0	
		Ki	iP	05 39 37.0	C
			iPn	05 40 37.4	
			iPP	05 40 51.1	
				micr sec	
			P Z'	0.2 0.9	
			PP Z'	0.2 1.0	
		Sk	iP	05 40 08.4	C
			iPP	05 41 30.8	
		Um	iP	05 39 37.7	C
		Ud	iP	05 40 09.0	C
			iPn	05 41 22.2	
			iPP	05 41 33.9	
		De	iP	05 40 16.0	C
			iPP	05 41 43.5	
		Kazakh SSR.			
		m = 6.0 (Up,Ki).			
		Underground explosion.			
"	20	De	i(P)	08 48 29.5	
"	20	Up	iP	14 00 25.1	
				micr sec	
			P Z'	0.1 0.8	
		Sk	iP	14 01 05.8	
		Um	iP	14 01 05.3	
		Ud	iP	14 00 32.0	
			i	14 00 36.4	
		De	iP	13 59 54.4	
		Greece (h = 4 km).			
"	20	Up	iP	14 49 40.4	
				micr sec	
			P Z'	0.1 1.2	
		Ki	iP	14 50 21.1	C
			i	14 51 05.2	
		Sk	iP	14 50 17.3	C
		Um	iP	14 49 54.1	C
		(cont.)			

1975

Feb.	20	(cont.)			
		Um	iSn	14 55 20.1	
		Ud	iP	14 49 57.2	C
			i	14 50 06.5	
		De	iP	14 49 39.6	
		Caucasus (h = N).			
"	20	Up	iP	18 36 02.7	
		Ki	iP	18 36 09.7	
		Um	iP	18 35 59.9	
		Ud	iP	18 36 19.7	
		Afghanistan-USSR (h = 180 km).			
"	20	Um	iPKP1	18 57 03.4	
		Ud	iPKP1	18 57 15.8	
"	20	Ud	iP	19 06 42.6	
		De	eP	19 06 09	
		Crete.			
"	20	Um	iPKP1	19 33 15.3	C
		Ud	iPKP1	19 33 25.9	
"	20	Up	iP	19 57 18.8	
		Um	iP	19 56 56.8	
			ipP	19 57 11.4	
		Ud	iP	19 57 24.5	
		Japan.			
		h = 55 km (Um).			
"	20	Um	iP	20 57 50.3	
"	20	Ud	i(P)	21 17 19.2	
"	20	Up	iPKP1	22 31 53.3	
		Ud	iPKP1	22 31 54.9	
			i	22 32 03.6	
"	21	Ud	iP	01 37 27.0	
		Aleutian Islands (h = 50 km).			
"	21	Um	iP	02 27 06.1	
"	21	Ki	iP	06 02 14.8	C
		Ud	iP	06 03 12.2	
			iPcP	06 03 48.1	
		Kamchatka (h = 110 km).			
"	21	Ud	iP	08 30 49.2	
"	21	Ud	iP	14 38 44.9	
"	21	Ud	iP	21 08 44.6	
		Pakistan.			

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

1975						
Feb.	22	Up	iP		01 00 10.3	
		Ki	iP		00 59 56.6	
		Sk	iP		00 59 52.2	
		Um	iP		01 00 02.2	
			i		01 00 15.3	
		Ud	iP		00 59 55.1	
		De	iP		01 00 10.0	
		Mexico (h = 40 km).				
"	22	Up	iP		05 11 35.0	
			iPP		05 13 08.8	
					micr	sec
			P	Z'	0.1	0.8
		Ki	iP		05 11 25.2	
		Sk	iP		05 11 52.4	
		Um	iP		05 11 24.1	C
		Ud	iP		05 11 52.0	C
		De	iP		05 11 56.6	
		Sinkiang, China (h = N).				
"	22	Ki	eP		05 48 54	
		Um	iP		05 48 57.7	
		Ud	iP		05 49 16.0	
		Leyte (h = 45 km).				
"	22	Up	iP		08 47 03.5	C
			iS		08 55 55	
			iP'P'		09 15 15.7	
					micr	sec
			P	Z'	2.8	1.0
			Mx	E	32	22
			Mx	N	46	21
			Mx	Z	47	19
		Ki	iP		08 46 10.7	C
			iS		08 54 21	
					micr	sec
			P	Z'	1.2	0.9
			Mx	E	36	18
			Mx	N	42	17
			Mx	Z	29	17
		Sk	iP		08 46 43.1	C
		Um	iP		08 46 36.6	C
			iP'P'		09 15 22.6	
		Ud	iP		08 47 04.8	C
			iP'P'		09 15 18.6	
		De	iP		08 47 26.4	C
			iPP		08 50 10.8	
		Aleutian Islands (h = 50 km).				
		m = 7.1, M = 6.8 (Up,Ki).				
"	22	Up	iP		09 08 02.4	
		Ud	iP		09 08 01.3	

1975						
Feb.	22	Up	iPKP1		10 06 59.6	
		Ud	iPKP1		10 07 02.8	
		De	iPKP1		10 07 12.9	
"	22	Up	iP		10 31 07.5	
		Ud	iP		10 31 07.6	
		Aleutian Islands (h = 50 km).				
"	22	Ud	iP		10 31 50.8	
		Japan (h = 40 km).				
"	22	Up	iP		15 38 01.3	C
			i		15 38 17.2	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		15 37 17.9	
					micr	sec
			P	Z'	0.1	1.0
		Um	iP		15 37 36.6	
		Ud	iP		15 38 08.2	C
		De	eP		15 38 25	
		Japan (h = 20 km).				
		m = 6.0 (Up,Ki).				
"	22	Up	iP		16 38 18.2	
			ipP		16 38 29.6	
		Ud	iP		16 38 18.7	
			ipP		16 38 29.8	
		Aleutian Islands.				
		h = 40 km (Up,Ud).				
"	22	Up	iP		20 09 07.2	
					micr	sec
			P	Z'	0.1	0.8
		Ki	iP		20 08 15.3	
		Ud	iP		20 09 07.6	
		De	iP		20 09 29.6	
		Aleutian Islands (h = 45 km).				
"	22	Ud	iP		22 07 53.6	
		Banda Sea (h = N).				
"	22	Up	iPKP1		22 23 24.0	D
			ipPKP1		22 25 08.4	
			iSKP1		22 26 38.9	
					micr	sec
			PKP1	Z'	2.8	1.0
			SKP1	Z'	0.3	1.8
			Mx	E	4.9	23
			Mx	N	5.2	28
			Mx	Z	4.0	24
		Ki	i(PKP)		22 23 02.5	
			i		22 23 07.3	

(cont.)

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

1975
Feb. 22 (cont.)

	Ki	iPKP	22 23 13.5	
		iSKP1	22 26 11.0	
			micr	sec
		PKP Z'	0.3	1.0
		SKP1 Z'	1.6	1.5
	Sk	i(PKP)	22 23 17.7	
		iPKP1	22 23 26.6	
		iSKP1	22 26 25.5	
	Um	e(PKP)	22 23 09	
		iPKP	22 23 13.8	
		iSKP1	22 26 20.8	
	Ud	iPKP1	22 23 26.3 D	
		ipPKP1	22 25 02.9	
		iSKP1	22 26 33.8	
	De	iPKP	22 23 33.7	
		iPKP1	22 23 37.2	
		ipPKP1	22 25 09.5	

Tonga-Kermadec Islands.
h = 410 km (Up,Ud,De).

" 22	Up	iP	22 58 40.3 C	
			micr	sec
		P Z'	0.2	1.1
	Ki	iP	22 57 47.5 C	
	Um	iP	22 58 13.3	
		ipP	22 58 28.4	
	Ud	iP	22 58 41.4	
	De	iP	22 59 03.2	

Aleutian Islands.
h = 55 km (Um).

" 22	Up	iPKP1	23 12 23.4
	Ud	iPKP1	23 12 25.8
	De	iPKP1	23 12 39.0

" 23	Up	iP	01 27 10.7 C	
			micr	sec
		P Z'	0.1	0.9
	Ud	iP	01 27 10.5	
	De	iP	01 27 33.4 C	

Aleutian Islands (h = 55 km).

" 23	Up	iPKP1	03 05 05.1 D	
		i	03 05 09.6	
			micr	sec
		PKP1 Z'	0.2	1.1
	Ki	iPKP	03 04 54.7	
	Um	iPKP	03 04 53.5	
		i	03 05 05.5	
		iSKP1	03 08 03.4	

(cont.)

1975
Feb. 23 (cont.)

	Ud	iPKP1	03 05 07.8 D	
		i	03 05 12.1	
	De	iPKP1	03 05 18.2 D	
		i	03 05 21.8	

Tonga-Kermadec Islands
(h = 380 km).
Double PKP1, average
separation = 4.1 sec.

" 23	Up	iP	03 10 41.5	
		i	03 12 26.5	
			micr	sec
		P Z'	0.2	0.9
	Ki	iP	03 10 24.4	
		i	03 10 25.4	
			micr	sec
		P Z'	0.4	1.0
	Sk	iP	03 10 45.9	
	Um	iP	03 10 30.0	
		i	03 10 30.7	
	Ud	iP	03 10 49.3	
		i	03 10 50.3	
	De	iP	03 10 55.4	

Mindanao (h = 620 km).
m = 6.2 (Up,Ki).
Large P preceded by smaller
P, 0.9 sec in advance in
average (Ki,Um,Ud).

" 23	Up	iPKP1	03 56 37.9
	Ud	iPKP1	03 56 39.9
	De	iPKP1	03 56 50.2

" 23	Up	i(PP)	04 12 11.2

Chile (h = N).

" 23	Up	iP	05 20 39.3	
			micr	sec
		P Z'	0.1	0.8
	Ki	iP	05 19 47.2	
	Sk	eP	05 20 19	
	Um	iP	05 20 12.3	
	Ud	iP	05 20 40.8	
	De	iP	05 21 02.6	

Aleutian Islands (h = 50 km).

" 23	Um	iPKP	07 53 03.2
	Ud	ePKP	07 53 12

Santa Cruz Islands (h = N).

" 23	Ud	iP	12 37 34.0

(cont.)

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

1975
Feb. 23 (cont.)

	De	eP	12 37 30

Hindu Kush.
Intermediate depth.

" 24

	Um	iP	02 34 00.7
	Ud	eP	02 34 31

Japan (h = 30 km).

" 24

	Up	eSn	03 15 06
		iS*	03 15 36.8
		iSgl	03 15 41.5
		i	03 15 47.0
	Ki	iPn	03 13 02.7
		iPgl	03 13 11.2
		iSn	03 13 40.8
		iSgl	03 13 55.9
			micr sec
		Sgl Z'	0.1 0.7
	Sk	iPgl	03 13 00.2
		iSgl	03 13 36.2
	Um	iPn	03 13 09.7
		iPgl	03 13 20.0
		i	03 13 29.5
		iSn	03 13 53.3
		iSgl	03 14 12.7
	Ud	iSn	03 14 51.5
		iS*	03 15 19.7
		iSgl	03 15 25.2
	De	iSgl	03 17 21.5

Nordland, Norway,
66.3°N, 12.7°E.
Origin time = 03 12 11.
m = 4.4, M_L = 2.9 (Up,Ki,Sk, Um,Ud,De).

" 24

	Ud	eP	04 20 44

" 24

	Ud	iP	06 39 33.2

Aleutian Islands (h = 60 km).

" 24

	Up	iP	09 09 24.2
			micr sec
		P Z'	0.1 1.3
	Um	iP	09 09 07.6
	Ud	iP	09 09 33.8
	De	eP	09 09 42

Ryukyu Islands (h = 80 km).

" 24

	Up	iP	10 20 22.5
		ipP	10 20 39.4

(cont.)

1975
Feb. 24 (cont.)

	Um	iP	10 19 57.2 C
		ipP	10 20 13.8
	Ud	iP	10 20 29.1 C

Japan.
h = 60 km (Up,Um).

" 24

	Ud	i(P)	14 17 13.1

" 24

	Up	iP	20 31 03.4
	Um	iP	20 30 36.2
	Ud	iP	20 31 04.0

Aleutian Islands (h = 60 km).

" 24

	Ud	iPKP1	20 53 16.7

" 24

	Um	iP	21 02 04.7

" 24

	Ud	eP	22 32 18

Aegean Sea (h = N).

" 25

	Up	iP	02 42 36.8
	Um	iP	02 42 15.2
	Ud	iP	02 42 44.3

South of Japan.

" 25

	Up	iP	02 46 16.7
	Sk	eP	02 47 10
	Um	iP	02 46 53.7
	Ud	iP	02 46 33.4 C
	De	iP	02 45 56.2

Rumania (h = 150 km).

" 25

	Ud	iPKP	05 38 51.0

New Britain (h = N).

" 25

	Up	iP	06 35 35.9
	Ki	iP	06 35 41.3
			micr sec
		P Z'	0.1 0.8
	Sk	iP	06 36 01.0
	Um	iP	06 35 27.6
		i	06 35 35.6
	Ud	iP	06 35 49.3
	De	iP	06 35 49.7

Tadzhik-Sinkiang (h = N).

" 25

	Um	eP	10 12 14
	Ud	iP	10 12 30.3

Pamir.

" 25

	Ud	i(P)	11 21 10.7

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

1975								
Feb.	25	Ki	iPgl	13 16 23.1				
			iSgl	13 16 54.9				
		Um	iSgl	13 18 49.5				
		Norway-Finland,						
		69.6°N, 25.4°E.						
		Origin time = 13 15 40.						
		By combination with Finnish						
		station readings.						
		m = 4.0, M_L = 2.1 (Ki,Um).						
"	25	Up	iSgl	13 28 35.7				
		Ud	iSgl	13 27 35.1				
		Off coast of south Norway,						
		58.0°N, 6.3°E.						
		Origin time = 13 25 22.						
		By combination with Bergen						
		and Kongsberg readings.						
		m = 4.2, M_L = 2.5 (Ud).						
"	25	Ud	iP	15 32 16.4				
"	25	Up	iP	21 20 13.8				
		Ki	iP	21 19 38.8				
				micr	sec			
			P	Z' 0.1	1.1			
		Sk	iP	21 20 14.0				
		Um	iP	21 19 51.2				
			i	21 19 53.2				
		Ud	iP	21 20 24.7				
		De	iP	21 20 38.3				
		NE China (h = N).						
"	25	Up	iP	22 13 48.0				
		Sk	eP	22 13 45				
		Um	iP	22 13 28.1 C				
		Ud	iP	22 13 56.4				
		De	eP	22 14 09				
		Japan (h = 70 km).						
"	25	Up	iP	23 06 54.7				
		Ki	iP	23 06 04.2				
		Sk	eP	23 06 41				
		Um	iP	23 06 27.9				
		Ud	iP	23 06 59.9				
		De	iP	23 07 20.0				
		Okhotsk Sea (h = 430 km).						
"	26	Um	iP	00 06 31.8				
		Ud	iP	00 07 04.9				
"	26	Up	iP	04 54 59.6				
			i	04 55 05.4				
		(cont.)						

1975								
Feb.	26	(cont.)						
		Up			micr	sec		
			P	Z'	0.1	1.0		
			Mx	E	2.7	9		
			Mx	N	4.9	14		
			Mx	Z	6.0	15		
		Ki	iP		04 53 42.7			
			il		04 53 49.9			
			i2		04 54 47.3			
			iS		04 57 48			
					micr	sec		
			P	Z'	0.2	1.2		
			il	Z'	13	3.7		
			Mx	E	5.8	9		
			Mx	N	5.9	10		
			Mx	Z	4.4	11		
		Sk	eP		04 54 30			
			i		04 54 31.6			
			i		04 54 37.5			
		Um	iP		04 54 20.7			
			i		04 54 23.0			
			iS		04 58 53			
		Ud	iP		04 55 00.2			
			i		04 55 01.8			
			i		04 55 07.8			
			iPP		04 55 54.7			
		De	iP		04 55 30.7			
			i		04 55 32.4			
			i		04 55 38.0			
		Arctic Ocean (h = N).						
		M = 5.5 (Up,Ki).						
		Multiple P.						
"	26	Sk	eP		06 56 17			
		Ud	iP		06 55 41.0			
		Greece (h = N).						
"	26	Ud	iP		08 04 46.6			
		Aegean Sea (h = 35 km).						
"	26	Ki	iSgl		10 36 17.4			
		Um	iSgl		10 36 12.1			
		Karelian SSR.						
		m = 4.3, M_L = 2.7 (Ki,Um).						
"	26	Ud	iPKPl		11 23 41.3			
		De	iPKPl		11 23 52.4			
"	26	Up	iSgl		11 53 38.2			
		Ud	iPgl		11 52 27.3			
			i		11 52 47.7			
			iSgl		11 52 49.0			
		(cont.)						

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

1975 Feb.	26	(cont.)			
		Ud	iRg	11 52 56.0	
		De	iPg1	11 52 46.1	
			iSg1	11 53 19.6	
		Bohuslän-Dalsland, Sweden, 58.8°N, 11.9°E.			
		Origin time = 11 52 00.			
		m = 3.9, M_L = 1.9 (Up,Ud).			
		Near-surface event.			
"	26	Ud	i(P)	12 01 48.5	
"	26	Up	iPKP	14 47 40.7	
		Um	iPKP	14 47 34.6	
		Ud	iPKP	14 47 43.3	
		De	iPKP	14 47 48.7	
		Solomon Islands (h = 55 km).			
"	26	Up	iP	14 54 06.5	
"	26	Ki	iP	17 27 45.3	
		Um	iP	17 27 21.1	
		Ud	iP	17 27 22.1	
			i	17 27 26.6	
		Iran (h = 55 km).			
"	26	Ud	iP	18 35 51.6	
		North Atlantic Ocean (h = N).			
"	26	Ud	iP	19 43 08.1	
		North Atlantic Ocean (h = N).			
"	26	Ud	iP	20 29 02.8	
		Chile (h = 80 km).			
"	26	Ud	iP	22 00 47.2	
		Hindu Kush.			
		Intermediate depth.			
"	26	Ud	iP	23 33 55.4	
"	27	Um	iP	00 49 56.7	
		Japan (h = 60 km).			
"	27	Up	iP	02 10 25.2	
		Ud	iP	02 10 30.7	
		De	eP	02 09 57	
		West of Crete (h = N).			
"	27	Up	ePn	03 38 40	
		Um	iP	03 38 43.1	
			iPn	03 38 49.0	
		(cont.)			

1975 Feb.	27	(cont.)			
		Ud	iP	03 38 53.1	
			iPn	03 39 04.4	
		Caucasus (h = N).			
"	27	Um	iP	03 45 27.0	
		Japan (h = 100 km).			
"	27	Up	iPKP1	07 53 15.3	
				micr	sec
			PKP1 Z'	0.1	0.8
		Ud	iPKP1	07 53 17.5	
		De	iPKP1	07 53 27.7	
"	27	Ud	iPKP1	08 03 59.0	
		De	iPKP1	08 04 10.4	
"	27	Ud	iP	10 04 58.8	
"	27	Up	iP	13 16 45.9	
		Um	iP	13 16 59.3	
			i	13 17 30.0	
		Ud	iP	13 17 01.7	
		Iran (h = N).			
"	27	Up	iPKP	14 42 31.8	
				micr	sec
			Mx E	2.2	23
			Mx N	4.2	23
			Mx Z	5.0	24
		Ki		micr	sec
			Mx N	3.8	23
		Um	iPKP	14 42 24.0	
		Ud	iPKP	14 42 34.0	
		De	iPKP	14 42 39.2	
		New Britain (h = 80 km).			
		M = 5.9 (Up,Ki).			
"	27	Ud	iP	15 21 51.8	
		Aleutian Islands (h = 140 km).			
"	27	Up	i(PKP)	19 00 58.8	
			iPKP	19 01 02.3	
			i	19 01 16.6	
			iSKP1	19 03 49.0	
				micr	sec
			SKP1 Z'	0.1	1.0
		Ki	iPKP	19 00 54.4	
			iSKP1	19 03 23.5	
				micr	sec
			SKP1 Z'	1.0	2.0
		Sk	iSKP1	19 03 41.0	
		Um	i(PKP)	19 00 49.9	
		(cont.)			

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

1975						
Feb.	27	(cont.)				
		Um	iPKP	19 01 01.6		
			iSKP1	19 03 36.0		
		Ud	i(PKP)	19 01 01.8		
			iPKP	19 01 08.4		
			iSKP1	19 03 50.7		
		De	iPKP	19 01 10.4		
			iPKP1	19 01 13.2		
			iSKP1	19 04 00.3		
		Fiji Islands (h = 590 km).				
"	27	Ki	iP	20 09 48.9		
		Ud	iP	20 10 32.8		
"	27	Ud	iPKP1	22 21 40.4		
"	28	Um	iP	02 06 46.0		
		Ud	iP	02 07 03.9		
		Ceram (h = 60 km).				
"	28	Up	iP	04 25 20.8		
			i	04 25 33.6		
		Um	iP	04 25 10.6		
		Ud	i(P)	04 25 19.4		
			iP	04 25 31.3		
		Luzon.				
"	28	Up	iP	11 03 24.4		
			iPP	11 05 03.9		
		Sk	eP	11 03 48		
		Um	iP	11 03 21.6		
		Ud	iP	11 03 40.8		
		De	iP	11 03 38.5		
		Afghanistan-USSR (h = 80 km).				
"	28	Ud	iP	12 52 33.9		
"	28	Up	iSg1	13 06 24.2		
		Ud	iPg1	13 05 02.4		
			iSg1	13 05 25.6		
		Southeast Norway-Oslo Fjord.				
		Origin time = 13 04 31.				
		m = 3.9, M_L = 1.9 (Up,Ud).				
"	28	Up	iPKP1	13 22 50.7		
			ipPKP1	13 23 03.2		
				micr	sec	
			PKP1	Z'	0.1	1.0
			pPKP1	Z'	0.1	0.9
		Ud	iPKP1	13 22 51.3		
		Tonga-Kermadec Islands.				
		h = 45 km (Up).				

1975						
Feb.	28	Up	iP	15 08 54.9 C		
				micr	sec	
			P	Z'	0.1	0.7
		Ki	iP	15 08 20.9		
			i	15 08 22.0 C		
				micr	sec	
			P	Z'	0.1	1.0
		Sk	iP	15 08 51.3 C		
		Um	iP	15 08 35.4		
			i	15 08 36.5 C		
		Ud	iP	15 09 01.5		
			i	15 09 02.6 C		
		De	iP	15 09 14.7 C		
		South of Japan (h = 420 km).				
		m = 5.5 (Up,Ki).				
		Small precursors, 1.1 sec ahead of the main P phase (Ki,Um,Ud).				
"	28	Up	iP	15 26 48.4 C		
				micr	sec	
			P	Z'	0.1	0.9
		Ki	iP	15 26 14.5 C		
				micr	sec	
			P	Z'	0.1	0.9
		Sk	iP	15 26 22.1 C		
		Um	iP	15 26 33.9 C		
		Ud	iP	15 26 40.7 C		
		De	iP	15 26 57.3		
		Nevada.				
		m = 5.9 (Up,Ki).				
		Underground explosion.				
"	28	Up	iP	15 57 33.6		
		Um	iP	15 57 30.0		
		Ud	iP	15 57 44.1		
		Sumatra (h = N).				
"	28	Ud	iPKP1	17 33 46.8		
"	28	Up	iPKP1	17 34 22.2		
		Ud	iPKP1	17 34 23.5		
"	28	Up	iP	19 55 32.6		
		Sk	iP	19 56 18.8		
		Um	iP	19 56 14.7		
		Ud	iP	19 55 41.2		
		De	iP	19 55 04.7		
		Greece (h = 35 km).				
"	28	Up	iP	21 00 17.8		
		Ki	iP	20 59 49.7		
		(cont.)				

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

1975
Feb. 28 (cont.)
Ud iP 21 00 24.5
Mariana Islands (h = 550 km).

" 28 Um iP 21 45 19.9
Ud iP 21 45 53.7
Japan (h = 100 km).

" 28 The Hindu Kush intermediate-depth earthquake (origin time = 23 56 36.6) is recorded on March 1 and listed in the next monthly bulletin.

Markus Båth

October 5, 1976

SEISMOLOGICAL INSTITUTE
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

M A R C H 1 - 31, 1975

1975					
Mar.	1	Up	iP	00 04 00.8	C
			ipP	00 04 43.5	
			iPP	00 05 32.7	
				micr sec	
			P Z'	0.5 0.9	
		Ki	iP	00 04 09.7	C
			ipP	00 04 52.5	
				micr sec	
			P Z'	0.6 1.0	
		Sk	iP	00 04 26.3	C
			ipP	00 05 10.7	
		Um	iP	00 03 59.3	C
		Ud	iP	00 04 17.1	C
			ipP	00 05 01.7	
			iPP	00 06 01.7	
		De	iP	00 04 13.3	C
			ipP	00 04 58.6	
			iPP	00 05 53.3	
			iPcP	00 06 01.2	
		Hindu Kush.			
		h = 210 km (Up,Ki,Sk,Ud,De).			
		m = 6.1 (Up,Ki).			
"	1	Ud	i(P)	05 10 37.5	
			i	05 11 03.4	
"	1	Up	iPKPl	06 09 11.8	
		Ki	ePKP	06 09 03	
		Um	iPKPl	06 09 00.7	
			iSKPl	06 12 22.2	
		Ud	iPKPl	06 09 13.4	
		De	iPKPl	06 09 25.0	D
		Tonga-Kermadec Islands			
		(h = 270 km).			
"	1	Um	iP	06 53 04.8	
		Ud	iP	06 53 35.4	
		Japan (h = 80 km).			

1975				
Mar.	1	Up	iP	09 36 19.3
		Um	iP	09 35 45.3
		Ud	eP	09 36 24
		Okhotsk Sea (h = 540 km).		
"	1	Ud	iP	12 34 39.2
"	1	Ud	iP	13 25 25.7
			i	13 25 35.1
"	2	Um	i(P)	05 06 54.6
"	2	Ki	iP	07 27 22.1
		Mariana Islands (h = 260 km).		
"	2	De	iPKPl	09 27 50.4
		Tonga Islands (h = N).		
"	2	Ki	iPKPl	11 01 54.3
		Um	iPKPl	11 02 02.9
"	2	Up	iP	13 24 48.2
		Ud	i	13 25 16.0
		De	iP	13 24 27.1
		Rumania (h = N).		
"	2	Ki	iPl	14 22 02.6
			iP2	14 22 11.9
		Um	iPl	14 22 38.7
			iP2	14 22 49.1
		Ud	iP2	14 23 27.6
		De	iP2	14 23 58.0
		Arctic Ocean (h = N).		
		Double P.		
"	2	Up	iPl	14 29 31.1
			iP2	14 29 37.8
		(cont.)		

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

1975 Mar.	2	(cont.)						
		Up			micr	sec		
			P2	Z'	0.2	1.5		
			Mx	E	1.2	21		
			Mx	N	0.9	13		
			Mx	Z	1.1	12		
		Ki	iP1		14 28 16.0			
			iP2		14 28 24.3			
			iS		14 32 14			
					micr	sec		
			P1	Z'	0.2	1.0		
			P2	Z'	0.6	1.5		
			Mx	E	1.3	13		
			Mx	N	2.1	20		
			Mx	Z	2.4	20		
		Sk	iP1		14 29 02.5			
			iP2		14 29 09.7			
		Um	iP1		14 28 54.2			
			i		14 28 58.1			
			iP2		14 29 03.6			
			iS		14 33 27			
		Ud	iP1		14 29 32.1			
			iP2		14 29 39.3			
		De	iP1		14 30 02.7			
			iP2		14 30 11.3			
		Arctic Ocean (h = N).						
		m = 5.8, M = 4.6 (Up,Ki).						
		Double P.						
"	2	Ud	iP		19 46 37.2			
		Banda Sea (h = N).						
"	2	Up	iP		23 16 05.7			
			i		23 16 21.0			
		Ki	iP		23 15 31.3			
		Sk	iP		23 16 01.9			
		Um	iP		23 15 46.5			
		Ud	iP		23 16 12.2			
		De	iP		23 16 25.1			
		Bonin Islands (h = N).						
"	3	Up	iP		02 25 24.7			
		Ki	iP		02 25 18.2			
		Um	iP		02 25 15.3			
			i		02 25 25.3			
		Ud	iP		02 25 36.1			
		De	iP		02 25 37.1			
		Burma (h = 90 km).						
"	3	Ki	iP		09 54 37.0			
		Sk	iP		09 54 14.5			
		Um	iP		09 54 36.6			
		Ud	iP		09 54 16.0			
		De	iP		09 54 15.5			
		Leeward Islands (h = 40 km).						
1975 Mar.	3	Up	iP		09 55 48.6	D		
			ipP		09 56 29.6			
			isP		09 56 50.1			
			iPP		09 57 22.7			
			iS		10 01 45			
					micr	sec		
			P	Z'	0.3	1.0		
			pP	Z'	0.4	1.2		
		Ki	iP		09 55 57.4	D		
			ipP		09 56 37.9			
			iPP		09 57 36.3			
					micr	sec		
			P	Z'	0.3	1.0		
			pP	Z'	0.3	1.5		
		Sk	iP		09 56 14.3	D		
			ipP		09 56 55.4			
			iPP		09 57 58.5			
		Um	iP		09 55 47.0	D		
			ipP		09 56 28.4			
			isP		09 56 48.7			
			iPP		09 57 18.9			
			iS		10 01 44			
		Ud	iP		09 56 05.2	D		
			ipP		09 56 46.2			
			isP		09 57 07.7			
			iPP		09 57 47.2			
		De	iP		09 56 01.5	D		
			ipP		09 56 42.8			
			isP		09 57 03.8			
			iPP		09 57 41.0			
		Hindu Kush.						
		h = 200 km (Up,Ki,Sk,Um,Ud, De).						
		m = 5.8 (Up,Ki).						
		The clear dilatation may be preceded by a small compression.						
"	3	Up	iP		13 15 42.0			
		Ud	iP		13 15 43.7			
"	3	Ud	iP		14 06 45.7			
"	3	Ud	i		14 41 36.9			
			i(Sgl)		14 41 56.2			
"	3	Um	iP		15 40 34.0	C		
		Japan (h = 90 km).						
"	3	Ki	iP		16 11 56.0			
		Ud	iP		16 11 30.7			
		Iran-Iraq (h = N).						
"	3	Um	iP		17 25 43.7			

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

1975					
Mar.	3	Up	iP1	19 34 43.5	
			iP2	19 34 59.5	
		Sk	iP1	19 35 00.5	
			iP2	19 35 16.0	
		Um	iP2	19 34 53.1	
		Ud	iP1	19 34 56.0	
			iP2	19 35 11.7	
		De	eP2	19 35 11	
		Burma-India (h = 40 km).			
		Double P, P2 - P1 = 15.7 sec;			
		alternatively, pP - P =			
		15.7 sec with h = 60 km.			
"	4	Up	iP	00 36 30.1	
		Ki	iP	00 36 32.2	
		Um	iP	00 36 28.2	
		Ud	iP	00 36 42.9	
		De	iP	00 36 40.4	
		Andaman Islands.			
"	4	Up	iPKP1	01 42 56.2	
			i	01 43 09.1	
		Sk	iPKP1	01 42 47.6	
		Ud	iPKP1	01 42 56.6	
		De	iPKP1	01 43 06.1	
			i	01 43 16.0	
		Tonga-Kermadec Islands.			
"	4	De	iPKP1	09 07 28.1	
		Fiji Islands (h = 460 km).			
"	4	Ud	eSg1	10 34 19	
		De	iSg1	10 34 11.8	
"	4	Up	iP	10 55 17.3	
			ipP	10 55 29.6	
				micr sec	
			P Z'	0.1 1.3	
			pP Z'	0.1 1.3	
		Um	iP	10 54 49.2	
		Ud	iP	10 55 24.5	
		De	iP	10 55 42.0	
		Kamchatka.			
		h = 45 km (Up).			
"	4	De	iP	11 05 32.1	
		Kamchatka (h = 70 km).			
"	4	Up	iP	11 31 55.2	
			i(PP)	11 36 07.2	
		Ki	iP	11 31 39.8	
			iPP	11 35 52.0	
				micr sec	
			P Z'	0.2 1.3	
		Sk	eP	11 32 02	
		(cont.)			

1975					
Mar.	4	(cont.)			
		Um	iP	11 31 45.5	
			ipP	11 31 54.2	
			i(PP)	11 35 34.9	
			iPP	11 35 59.0	
		Ud	iP	11 32 04.0	
			ipP	11 32 12.7	
		De	iP	11 32 08.6	
			iPP	11 36 38.0	
		Banda Sea.			
		h = 30 km (Um,Ud).			
"	4	Ud	eSg1	11 51 01	
		De	iPg1	11 48 50.3	
			iSg1	11 49 30.4	
"	4	Up	iP	17 08 30.1	
		Ki	iP	17 08 38.0	
		Sk	eP	17 08 56	
		Um	iP	17 08 28.4	
		Ud	iP	17 08 47.2	
			ipP	17 09 11.3	
		De	iP	17 08 43.4	
		Afghanistan-USSR.			
		h = 110 km (Ud).			
"	4	Up	iP	20 56 56.6	
		Sk	iP	20 57 08.9	
		Um	iP	20 56 47.7	
		Ud	iP	20 57 09.7	
		Szechwan, China (h = N).			
"	4	Up	iP	23 01 41.4	
			ipP	23 01 52.3	
		Um	iP	23 01 25.1	
		Ud	iP	23 01 51.1 C	
		De	eP	23 02 02	
		Ryukyu Islands.			
		h = 45 km (Up).			
"	5	Up	eP	00 36 06	
			i	00 36 20.8	
			i(PP)	00 39 20.8	
			iPP	00 40 22.6	
			iSKS	00 46 47	
				micr sec	
			(PP) Z'	0.1 1.7	
			PP Z'	6.4 3.0	
			Mx E	8.9 21	
			Mx N	16 22	
			Mx Z	18 24	
		Ki	iP	00 36 01.5	
			i(PP)	00 39 46.6	
			iPP	00 39 58.8	
			iSKS	00 46 27	
		(cont.)			

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

1975 Mar. 5 (cont.)

Ki			micr	sec
	P	Z'	0.3	1.5
	(PP)	Z'	0.9	2.5
	PP	Z'	6.4	3.5
	Mx	E	17	20
	Mx	N	16	20
	Mx	Z	17	19
Sk	eP		00 36 20	
	iPP		00 40 36.8	
Um	iP		00 35 57.8	
	i		00 36 05.1	
	i		00 36 11.4	
	i(PP)		00 38 43.5	
	iPP		00 40 06.8	
	iSKS		00 46 37	
	iPKKP		00 52 27.2	
Ud	iP		00 36 23.3	
	i		00 36 29.2	
	i(PP)		00 39 13.6	
	i		00 40 20.7	
	iPP		00 40 35.5	
	iPKKP		00 52 20.2	
De	eP		00 36 29	
	i		00 36 34.4	
	i(PP)		00 40 10.6	
	iPP		00 40 42.1	

Ceram Sea (h = N).
m = 7.5, M = 6.7 (Up,Ki).
m refers to PP.

" 5	Up	iP	01 22 14.7
	De	iP	01 22 39.8

Kamchatka.

" 5	De	iPP	01 36 20.4

Ceram Sea (h = 55 km).

" 5	Um	iP	02 38 32.7
	Ud	iP	02 38 47.0

Afghanistan-USSR.

" 5	Up	iPKP1	04 04 23.0
	Ud	iPKP1	04 04 24.8

" 5	Up	i	05 37 06.2
	Um	iP	05 37 25.4
		i	05 37 38.2
	Ud	iP	05 36 41.9
		i	05 37 03.7
	De	iP	05 36 20.6

North Atlantic Ocean (h = N).

" 5	Up	iP	09 27 18.3

(cont.)

1975 Mar. 5 (cont.)

Ki	iP		09 26 53.6	
Sk	eP		09 27 23	
Ud	iP		09 27 27.9	
	i		09 27 36.4	
	i		09 27 49.1	
De	iP		09 27 36.3	

Formosa (h = 55 km).

" 5	Up	iPKP	10 46 21.7	
		iSKP1	10 49 52.7	
			micr	sec
		PKP Z'	0.1	1.3
Ki	iPKP		10 46 09.0 D	
			micr	sec
		PKP Z'	0.1	1.0
Sk	i(PKP)		10 46 11.2	
	iPKP		10 46 19.5	
Um	iPKP		10 46 15.1	
	iSKP1		10 49 40.7	
Ud	i(PKP)		10 46 14.0	
	iPKP		10 46 23.9	
	iSKP1		10 49 55.4	
De	i(PKP)		10 46 20.8	
	iPKP		10 46 29.9	
	iSKP1		10 50 06.1	

New Hebrides Islands
(h = 55 km).

" 5	Um	iP	11 10 16.1
	Ud	iP	11 09 55.6

" 5	Up	iP	14 00 11.4	
		i	14 00 12.8	
		i	14 00 17.7	
			micr	sec
		P Z'	0.1	1.1
Ki	iP		14 00 16.3 C	
	i		14 00 22.6	
			micr	sec
		P Z'	0.1	1.0
Sk	iP		13 59 58.8 C	
	i		14 00 05.4	
Um	iP		14 00 17.2 C	
	i		14 00 18.6	
	i		14 00 23.5	
Ud	iP		14 00 00.9 C	
	i		14 00 02.4	
	i		14 00 06.6	
De	iP		14 00 01.7 C	
	i		14 00 03.0	
	i		14 00 07.1	

Venezuela (h = 50 km).
m = 5.7 (Up,Ki).
Triple P.

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

1975					
Mar.	5	Ud	iRg		15 15 09.3
		De	iPg1		15 14 03.3
			eSg1		15 14 24
			iRg		15 14 29.3
		Near-surface event.			
"	5	De	iP		15 30 15.7
		Venezuela (h = 35 km).			
"	5	Sk	iPKP		20 01 40.7
		Santa Cruz Islands			
		(h = 110 km).			
"	5	Up	iPKP		21 50 44.8
			ipPKP		21 51 06.8
		Ki	iPKP		21 50 59.7
			ipPKP		21 51 21.7
				micr	sec
			PKP Z'	0.1	1.0
		Sk	ePKP		21 50 50
		Um	iPKP		21 50 52.7
			ipPKP		21 51 14.8
		Ud	iPKP		21 50 43.1 C
			ipPKP		21 51 05.1
			iPP		21 52 08.1
		South Sandwich Islands.			
		h = 80 km (Up,Ki,Um,Ud).			
"	6	Um	iP		02 13 39.9
		Venezuela (h = 45 km).			
"	6	Ud	iPKP1		06 06 04.5
"	6	Um	iP		07 37 28.7
		South of Japan (h = 40 km).			
"	6	Ud	i		09 41 22.8
			iSg1		09 41 45.0
"	6	Ud	iP		10 12 31.3
"	6	Up	iP		18 28 57.3
				micr	sec
			P Z'	0.1	1.0
		Ki	iP		18 28 05.3
				micr	sec
			P Z'	0.1	1.0
		Um	iP		18 28 29.8
		Ud	iP		18 29 01.2
		De	iP		18 29 22.2
		Kamchatka (h = N).			
		m = 5.9 (Up,Ki).			
"	6	Ud	iP		20 01 55.1

1975					
Mar.	6	Um	iP		22 06 03.2
		Japan (h = N).			
"	7	Ud	iPKP1		02 49 42.8
		De	iPKP1		02 49 55.9
		Tonga Islands (h = 35 km).			
"	7	Up	iP		04 16 32.3
			ipP		04 16 38.1
			i		04 16 41.3
			iS		04 19 09.5
			iLg2		04 20 59.9
				micr	sec
			P Z'	0.2	1.3
			i Z'	0.4	1.3
			Mx E	2.1	7
			Mx N	2.1	6
			Mx Z	4.2	8
		Ki	iP		04 17 55.9
			ipP		04 18 00.3
				micr	sec
			pP Z'	0.1	1.2
			Mx E	2.9	10
			Mx N	2.0	8
		Sk	iP		04 17 31.4
			ipP		04 17 36.2
			i		04 21 20.5
			iLg2		04 23 21.8
		Um	iP		04 17 13.8
			ipP		04 17 18.6
			iS		04 20 26.6
			iLg1		04 22 34.8
		Ud	iP		04 16 50.5
			ipP		04 16 55.6
			i		04 17 01.1
			iLg2		04 21 45.9
		De	iP		04 16 09.5
			i(Lg2)		04 20 28.0
		Rumania.			
		h = 25 km (Up,Ki,Sk,Um,Ud).			
		m = 5.2 (Up,Ki).			
"	7	Up	iP		07 12 29.7 C
			iPP		07 14 08.1
			iS		07 18 50.9
				micr	sec
			P Z'	0.6	1.2
			Mx E	6.5	21
			Mx N	6.4	18
			Mx Z	9.7	18
		Ki	iP		07 13 02.6 C
				micr	sec
			P Z'	1.1	1.0
			Mx E	14	13

(cont.)

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

1975 Mar.	7	(cont.)				
		Ki			micr	sec
			Mx	N	10	14
			Mx	Z	16	14
		Sk	iP		07 13 03.5	C
			iPP		07 14 40.7	
		Um	iP		07 12 41.4	
			iPP		07 14 26.2	
			iS		07 19 04	
		Ud	iP		07 12 45.1	C
			iPP		07 14 32.6	
			iS		07 19 13.3	
		De	iP		07 12 30.1	C
		Iran (h = 25 km).				
		m = 6.5, M = 6.0 (Up,Ki).				
"	7	Ud	iP		08 06 22.7	
"	7	Ud	i(Sgl)		09 03 38.3	
"	7	Up	eP		10 50 14	
		Ki	iP		10 50 44.0	
		Ud	iP		10 50 27.2	
		De	iP		10 50 12.2	
		Iran (h = N).				
"	7	Ud	iP		12 22 23.4	
		De	eP		12 22 09	
		Iran (h = N).				
"	7	Ki	iP		13 20 26.2	
		Ud	iP		13 20 07.8	
		De	iP		13 19 56.8	
		Iran.				
		Origin time = 13 12 07.				
"	7	Up	iP		14 34 43.7	
			ipP		14 34 48.7	
			iPP		14 36 21.3	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		14 35 17.1	
			iPP		14 36 54.1	
					micr	sec
			P	Z'	0.3	1.3
		Sk	iP		14 35 17.6	
		Um	iP		14 34 55.1	
			ipP		14 35 00.5	
			iPP		14 36 34.5	
		Ud	iP		14 34 58.8	
			ipP		14 35 04.0	
		De	iP		14 34 44.2	
			ipP		14 34 49.1	
		Iran.				
		h = 25 km (Up,Um,Ud,De).				
		m = 5.8 (Up,Ki).				

1975 Mar.	7	Ud	iP		15 00 36.0	
"	7	Up	iP		15 11 48.7	C
					micr	sec
			P	Z'	0.2	1.2
		Ki	iP		15 11 14.4	C
					micr	sec
			P	Z'	0.1	1.1
		Sk	iP		15 11 22.6	C
		Um	iP		15 11 34.1	C
		Ud	iP		15 11 40.5	C
		De	iP		15 11 57.1	C
		Nevada.				
		m = 6.0 (Up,Ki).				
		Underground explosion.				
"	7	Up	iP		15 44 27.6	
		Ki	iP		15 45 02.7	
		Sk	eP		15 45 03	
		Um	iP		15 44 37.6	
		Ud	iP		15 44 41.8	
		De	iP		15 44 27.9	
		Iran (h = 25 km).				
"	7	Up	iP		15 47 03.4	
		Ki	eP		15 46 11	
		Um	iP		15 46 36.4	
		Kurile Islands.				
"	7	Up	iP		17 46 41.1	
					micr	sec
			P	Z'	0.2	1.2
		Ki	iP		17 46 24.7	
					micr	sec
			P	Z'	0.2	1.0
		Sk	iP		17 46 51.1	
		Um	iP		17 46 28.1	C
		Ud	iP		17 46 53.1	C
		De	iP		17 47 00.4	
		Szechwan, China (h = N).				
		m = 6.3 (Up,Ki).				
"	7	Up	iP		17 50 18.2	
					micr	sec
			P	Z'	0.1	1.2
		Ki	iP		17 50 51.4	
		Um	iP		17 50 30.4	
		Ud	iP		17 50 33.7	
		De	iP		17 50 18.7	
		Iran (h = N).				
"	7	Up	iP		19 06 20.7	
		Ki	iP		19 06 52.8	
		Ud	eP		19 06 35	
		De	eP		19 06 21	
		Iran (h = 20 km).				

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

1975
Mar. 7 Up iRg 20 02 04.4
Ud iSgl 20 01 40.8
iRg 20 01 51.2
Central Sweden.
Near-surface event.

" 7 Up eP 20 09 46
Ki iP 20 10 19.7
Ud iP 20 10 00.4
De iP 20 09 50.8
Iran.
Origin time = 20 02 00.

" 7 Up eP 20 35 47

" 7 Up i(P) 20 41 15.5
Ki iP 20 41 31.8

" 7 Ud iPKP1 22 32 27.3
De iPKP1 22 32 40.3

" 7 Ki iP 23 33 44.9
Ud iP 23 33 26.9
De eP 23 33 14
Iran (h = N).

" 7 Ud iP 23 59 02.9

" 8 Ki eP 00 17 14
Ud iP 00 16 53.6
De iP 00 16 40.4
Iran (h = N).

" 8 Up iP 05 27 37.8
i 05 27 42.6
micr sec
P Z' 0.1 1.2
Ki eP 05 26 34
micr sec
P Z' 0.1 1.5
Um iP 05 27 17.0
Ud iP 05 27 31.3
De iP 05 27 53.7
Queen Elizabeth Islands
(h = N).
m = 5.5 (Up,Ki).

" 8 Ud iP 05 54 23.7

" 8 Um iP 06 12 25.5
Japan (h = 45 km).

" 8 Up iP 08 46 32.0 C
i 08 46 40.4
micr sec
P Z' 0.1 0.8
(cont.)

1975
Mar. 8 (cont.)
Ki iP 08 47 21.7
Um iP 08 47 00.6 C
Ud iP 08 46 18.2 C
De iP 08 46 01.8 C
North Atlantic Ocean (h = N).

" 8 Up iP 09 45 27.0
Ki iP 09 44 59.1
Sk eP 09 45 24
Ud iP 09 45 33.7
Mariana Islands (h = 150 km).

" 8 Up iPgl 12 36 55.0
iSgl 12 37 21.2
Ud iPgl 12 36 51.9
iSgl 12 37 14.6
iRg 12 37 24.7
De iSgl 12 37 30.0
Östergötland, Sweden,
58.6°N, 15.0°E.
Origin time = 12 36 23.
m = 3.8, M_L = 1.8 (Up,Ud,De).
Near-surface evert.

" 8 Up iPKP1 14 56 18.8
Ud iPKP1 14 56 22.7 D
De iPKP1 14 56 34.1 D

" 8 Up iP 16 42 51.1
i 16 43 05.9
Sk iP 16 43 46.6
Um iP 16 43 31.5
Ud iP 16 43 07.5
De iP 16 42 28.9
Rumania (h = 150 km).

" 8 Up i 19 44 56.7
Ud iPKP1 19 44 48.2
i 19 44 56.2

" 9 Up iP 06 47 30.8
Sk iP 06 48 06.9
Um iP 06 47 45.0
De iP 06 47 31.1 C
Iran (h = N).

" 9 Um iP 10 04 16.9
ipP 10 04 34.4
Ud iP 10 04 46.5
Japan.
h = 60 km (Um).

" 9 Um iP 13 45 16.0
Ud iP 13 45 40.9
(cont.)

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

1975
Mar. 9 (cont.)
De iP 13 45 55.7
Japan (h = 60 km).

" 9 Up iP 14 12 55.7 C
i 14 13 05.6
Sk iP 14 13 10.4 C
Um iP 14 12 42.4
Ud iP 14 13 11.1 C
De iP 14 13 16.7
Sinkiang, China (h = N).

" 9 Ud iP 15 08 05.5

" 9 Up iPKP1 16 04 06.5
Um iPKP 16 04 04.0
Ud iPKP1 16 04 07.9
De iPKP1 16 04 18.8 C
Tonga-Kermadec Islands
(h = 170 km).

" 9 Up iP 17 58 02.9
Um iP 17 57 41.6
Ud eP 17 58 13
Japan (h = 35 km).

" 9 Up iP 18 02 14.6
Um iP 18 01 55.4
ipP 18 02 22.5
Ud ipP 18 02 50.1
South of Japan.
h = 110 km (Um).

" 9 Ki iP 18 30 37.4
Um iP 18 30 16.0
Ud iP 18 30 17.1
i 18 30 22.1
Iran (h = N).

" 9 Up i(P) 19 17 50.8

" 9 Up iP 21 23 09.3
Ud iP 21 23 12.6
Okhotsk Sea (h = 430 km).

" 10 Up iP 03 15 40.9
Ud iP 03 15 57.4
Kashmir-Tibet (h = 50 km).

" 10 Ud i(Sgl) 04 42 14.6

" 10 Um iP 05 12 09.8
Molucca Passage (h = 70 km).

1975
Mar. 10 Up iP 07 07 13.8
Ki iP 07 06 48.5
micr sec
P Z' 0.1 1.0
Um eP 07 06 58
ipP 07 07 12.3
Ud iP 07 07 22.5
De iP 07 07 29.6
Formosa.
h = 55 km (Um).

" 10 Up iP 07 37 20.8
Um iP 07 37 15.4
Ud iP 07 37 37.4 C
Kirghiz SSR (h = N).

" 10 Ud i(Sgl) 09 00 57.4

" 10 Ud i(Sgl) 10 02 55.4

" 10 Ud iP 12 08 45.2
Hindu Kush.
Intermediate depth.

" 10 Up iP 12 25 59.3
Ud iP 12 26 08.4
Talaud Islands (h = 70 km).

" 10 Ud i(Sgl) 12 38 56.2

" 10 Um iP 13 12 17.5
Mariana Islands (h = 35 km).

" 10 Up iP 21 12 56.7
Um iP 21 12 46.4
Ud iP 21 13 05.0
Mindanao (h = 55 km).

" 11 Sk iP 04 41 40.4
Ud iP 04 41 49.1
North Atlantic Ocean (h = N).

" 11 Ud i 05 13 11.1
i(Sgl) 05 13 31.0

" 11 Up iP 05 49 52.8
iPn 05 50 53.4
iPP 05 51 12.1
micr sec
P Z' 0.2 0.9
PP Z' 0.1 1.0
Ki iP 05 49 37.4 C
micr sec
P Z' 0.2 0.8
(cont.)

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

1975 Mar. 11 (cont.)

	Sk	iP	05 50 09.0	C
	Um	iP	05 49 38.2	
	Ud	iP	05 50 09.6	C
		iPn	05 51 21.7	
	De	iP	05 50 16.5	
		iPP	05 51 44.2	

Kazakh SSR.
m = 6.1 (Up,Ki).
Underground explosion.

" 11

	Up	iP		09 08 44.9	
				micr	sec
		P	Z'	0.1	0.8
	Ki	iP		09 08 06.6	
				micr	sec
		P	Z'	0.1	1.1
	Sk	iP		09 08 40.7	
	Um	iP		09 08 22.9	C
	Ud	iP		09 08 52.4	

Japan (h = 140 km).
m = 5.6 (Up,Ki).

" 11

Up	iP		11 34 52.0	

" 11

Ud	iP		12 30 44.4	

" 11

Ud	iP		13 48 30.0	

" 11

Ki	iP		17 52 29.1	
Sk	eP		17 52 31	
Um	iP		17 52 09.8	
Ud	iP		17 52 13.8	

Iran.

" 11

Ud	iP		19 00 25.5	

" 11

Up			micr	sec
	Mx	N	0.8	18
Ki	iP		23 45 59.1	
	iS		23 48 45.0	
			micr	sec
	P	Z'	0.2	1.2
	Mx	N	0.9	13
	Mx	Z	0.5	13
Sk	iP		23 45 36.9	
Um	iP		23 46 15.1	
Ud	iP		23 46 07.4	
	iS		23 48 57.8	

Iceland (h = N).
M = 4.2 (Up,Ki).
Late arrivals compared to the NEIS solution.

" 12

Up	iP		00 10 28.1	
	i		00 10 42.5	

(cont.)

1975 Mar. 12 (cont.)

Up			micr	sec
	i	Z'	0.1	1.3

" 12

Sk	iP		00 32 42.9	
Um	iP		00 32 39.7	

" 12

Sk	iP		01 39 41.7	
Ud	iP		01 39 45.3	

Mindanao (h = 100 km).

" 12

Up	iPKP1		04 59 49.6	
Sk	iPKP1		04 59 42.3	
Um	iPKP1		04 59 36.8	
Ud	iPKP1		04 59 51.6	
De	iPKP1		05 00 00.3	

Tonga-Kermadec Islands.

" 12

Ud	iP		10 32 39.3	

" 12

Ud	ePKP1		10 39 20	
De	iPKP1		10 39 33.0	

Tonga-Kermadec Islands (h = 190 km).

" 12

Up	iP		10 54 29.1	
	iPcP		10 54 53.7	
Ki	iP		10 53 35.8	
	iPcP		10 54 21.2	
Sk	eP		10 54 08	
	iPcP		10 54 41.1	
Um	iP		10 54 05.4	
	iPcP		10 54 37.2	
Ud	iP		10 54 29.6	
De	eP		10 54 52	

Aleutian Islands (h = 55 km).

" 12

Ud	iP		12 40 33.4	

" 12

Um	iP		13 19 36.8	
	ipP		13 19 47.0	

Japan.
h = 40 km (Um).

" 12

Up	iRg		14 11 51.6	
Ud	iRg		14 10 53.8	

Central Sweden.
Near-surface event.

" 12

Ud	iP		20 52 05.6	

" 13

Ki	iP		05 50 54.6	
Um	i(P)		05 50 59.2	

Banda Sea (h = N).

" 13

Ud	iPKP1		07 21 24.0	
De	iPKP1		07 21 34.2	

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

1975							
Mar.	13	Up	iP		08	23	12.5
			i		08	23	18.8
					micr		sec
			P	Z'	0.1		1.3
			i	Z'	0.2		1.4
		Ki	iP		08	23	11.6
			i		08	23	18.2
					micr		sec
			i	Z'	0.1		1.4
		Sk	eP		08	23	29
			i		08	23	35.2
		Um	iP		08	23	09.1
			i		08	23	15.1
		Ud	iP		08	23	24.4
			i		08	23	30.6
		Andaman Islands (h = N).					
		m = 5.9 (Up,Ki).					
		Double P, in average 6.4					
		sec apart.					
"	13	Um	iP		10	12	19.2
"	13	Ud	iP		14	43	37.2
"	13	Up	ePKP		15	45	24
			iPP		15	46	29.2
			iSKS		15	52	13
			iPKKP		15	56	06.4
			i		15	56	15.8
					micr		sec
			PP	Z'	0.7		2.1
			Mx	E	22		23
			Mx	N	14		26
			Mx	Z	43		23
		Ki	iPKP		15	45	30.5
			i		15	45	40.0
			iPP		15	46	49.4
			iSKS		15	52	35
			iPKKP		15	55	52.9
					micr		sec
			PP	Z'	0.4		1.9
			Mx	E	13		20
			Mx	N	19		22
			Mx	Z	17		20
		Sk	ePKP		15	45	27
			i		15	46	38.0
			iPKKP		15	56	06.4
			i		15	56	15.6
		Um	iPKP		15	45	28.6
			i		15	45	37.4
			iPKKP		15	55	54.0
			i		15	56	03.4
		Ud	iPKP		15	45	20.5
			i		15	45	29.6
			iPP		15	46	15.4
			iPKKP		15	56	14.5
		(cont.)					

1975							
Mar.	13	(cont.)					
		Ud	i		15	56	25.6
		De	iPKP		15	45	18.9
			i		15	45	40.5
			iPKKP		15	56	13.0
			i		15	56	20.2
		Chile (h = 4 km).					
		m = 6.9, M = 6.8 (Up,Ki).					
		Double PKP and PKKP phases,					
		9.1 and 9.3 sec apart, resp.					
"	13	Up	iP		16	30	01.2
					micr		sec
			P	Z'	0.1		1.0
		Ki	iP		16	29	12.0
			i		16	29	17.1
					micr		sec
			P	Z'	0.2		1.5
		Sk	iP		16	29	48.2
		Um	iP		16	29	35.6 D
		Ud	iP		16	30	06.3 D
			i		16	30	10.4
		De	iP		16	30	24.4
		Kurile Islands (h = N).					
		m = 6.1 (Up,Ki).					
"	13	Ud	iP		17	39	51.3
		Caspian Sea.					
"	13	Up	i(PKP)		19	04	32.4
			iPKP		19	04	43.3
			iPP		19	07	27
			iSKP1		19	08	09.1
			iSKP2		19	08	17.1
			iPKKP		19	14	13.1
			i		19	14	39.4
					micr		sec
			PKP	Z'	0.1		0.8
			SKP1	Z'	1.9		1.3
			SKP2	Z'	3.0		1.7
			Mx	E	17		24
			Mx	N	34		23
			Mx	Z	59		23
		Ki	i(PKP)		19	04	18.0
			iPKP		19	04	30.5
			iSKP1		19	07	45.4
					micr		sec
			PKP	Z'	0.5		1.5
			SKP1	Z'	9.0		1.8
			Mx	E	33		28
			Mx	N	39		24
			Mx	Z	43		25
		Sk	i(PKP)		19	04	31.9
			iPKP		19	04	41.2
			i		19	04	45.4
			iSKP1		19	08	03.5
		(cont.)					

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

1975
Mar. 13 (cont.)

	Um	i(PKP)		19 04 22.4
		i		19 04 29.1
		iPKP		19 04 37.0
		iSKP1		19 07 57.3
		i(PKKP)		19 13 51.2
	Ud	i(PKP)		19 04 36.1
		iPKP		19 04 44.0
		iSKP1		19 08 11.8
		iSKP2		19 08 21.4
	De	i(PKP)		19 04 45.6
		iPKP		19 04 48.8
		iSKP1		19 08 19.0
		iSP		19 17 56.8

Loyalty Islands (h = 90 km).
M = 7.1 (Up,Ki).

" 13	Up	iPKP1		19 40 45.6
" 13	Ki	iPKP		22 04 59.3

Chile (h = 25 km).

" 13	Up	iP		23 52 36.0
		i		23 52 40.2
		ipP		23 52 44.3
			micr	sec
		pP	Z' 0.1	1.0
	Ki	iP		23 52 27.1 C
		ipP		23 52 35.2
			micr	sec
		P	Z' 0.1	1.3
		pP	Z' 0.3	1.7
	Sk	eP		23 52 17
		ipP		23 52 26.3
	Um	iP		23 52 33.7
		i		23 52 38.7
		ipP		23 52 43.1
	Ud	iP		23 52 25.4
		ipP		23 52 34.1
	De	iP		23 52 33.8

Caribbean Sea.
h = 35 km (Up,Ki,Sk,Um,Ud).
m = 5.9 (Up,Ki).

" 14	Ud	iPKP		00 21 12.0
	De	iPKP		00 21 19.0

Loyalty Islands (h = 60 km).

" 14	Ud	iP		01 01 03.9
" 14	Um	i(P)		01 02 35.6
" 14	Up	iP		02 04 30.8 C
		i		02 04 40.0

(cont.)

1975
Mar. 14 (cont.)

	Up			micr sec
		P	Z'	0.3 1.8
		Mx	E	1.9 17
		Mx	N	2.9 20
		Mx	Z	4.3 20
	Ki	iP		02 03 17.0 C
		iTSg		02 10 44.7
				micr sec
		P	Z'	0.7 2.0
		Mx	E	3.7 13
		Mx	N	5.8 13
		Mx	Z	4.5 12
	Sk	iP		02 03 29.2 C
		iS		02 05 16.5
	Um	iP		02 03 54.2 C
	Ud	iP		02 04 16.0
	De	iP		02 05 01.6

Jan Mayen (h = N).
m = 5.2, M = 4.7 (Up,Ki).

" 14	Up	iP		04 06 00.7
	Ki	iP		04 05 32.1 C
	Sk	iP		04 05 57.3
	Um	iP		04 05 45.0
	Ud	iP		04 06 08.8

Mariana Islands (h = 110 km).

" 14	Up	iP		05 26 12.2 C
		ipP		05 26 20.4
			micr	sec
		P	Z' 0.1	1.0
		Mx	E 0.7	15
		Mx	N 0.9	17
		Mx	Z 1.4	17
	Ki	iP		05 25 23.7
			micr	sec
		Mx	E 1.7	19
		Mx	N 1.1	17
	Sk	iP		05 25 59.5
	Um	iP		05 25 46.0 C
		ipP		05 25 53.7
	Ud	iP		05 26 17.1 C
		ipP		05 26 24.6
	De	iP		05 26 36.3

Kurile Islands.
h = 30 km (Up,Um,Ud).
M = 5.3 (Up,Ki).

" 14	Um	iP		05 58 49.2
	Ud	iP		05 58 59.2

Tadzhik SSR.

" 14	Up	iP		06 16 54.3
		ipP		06 17 33.8

(cont.)

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

1975 Mar.	14	(cont.)					
		Up	iS		06 27 06		
			isS		06 28 23		
					micr	sec	
			P	Z'	0.3	1.6	
		Ki	iP		06 16 42.4	C	
			ipP		06 17 21.4		
					micr	sec	
			P	Z'	0.6	1.5	
		Sk	iP		06 16 37.0	C	
			ipP		06 17 15.1		
		Um	iP		06 16 51.2		
			ipP		06 17 30.2		
			iS		06 27 02		
			isS		06 28 18		
		Ud	iP		06 16 45.5		
			ipP		06 17 25.4		
		De	iP		06 16 53.7		
			ipP		06 17 32.6		
		Mexico.					
		h = 160 km (Up,Ki,Sk,Um,Ud, De).					
		m = 6.0 (Up,Ki).					
"	14	Ud	iP		06 57 27.0		
"	14	Ud	iP		08 04 18.2		
"	14	Up	iP		13 34 49.6		
					micr	sec	
			P	Z'	0.1	1.0	
		Ki	iP		13 34 02.0		
		Um	iP		13 34 23.4		
		Ud	iP		13 34 55.3		
			ipP		13 35 02.4		
		Kurile Islands.					
		h = 25 km (Ud).					
"	14	Sk	iSgl		14 01 17.8		
			iRg		14 01 20.8		
"	14	Up	eP		14 07 40		
			ipP		14 07 52.6		
		Ki	iP		14 07 02.8		
			ipP		14 07 15.5		
					micr	sec	
			Mx	E	0.7	15	
			Mx	N	0.7	15	
		Sk	iP		14 07 35.4		
			ipP		14 07 48.0		
		Um	iP		14 07 18.7	C	
			ipP		14 07 31.2		
		Ud	iP		14 07 47.8		
			ipP		14 08 00.5		
		Japan.					
		h = 45 km (Up,Ki,Sk,Um,Ud).					
1975 Mar.	14	Up	iP		16 16 25.8	C	
			ipP		16 16 36.1		
					micr	sec	
			P	Z'	0.1	0.7	
		Ki	iP		16 15 40.8	C	
		Sk	iP		16 16 15.5		
		Um	iP		16 16 00.4	C	
		Ud	iP		16 16 31.7	C	
		De	iP		16 16 49.7	C	
		Kurile Islands.					
		h = 40 km (Up).					
"	14	Up	iSgl		17 07 57.8		
		Sk	eSgl		17 07 59		
		Ud	i		17 06 53.0		
			iSgl		17 06 57.9		
"	14	Up	iP		18 58 14.6	C	
		Ki	iP		18 58 00.6		
		Sk	iP		18 58 27.6	C	
		Um	iP		18 58 02.5		
		Ud	iP		18 58 28.3		
		Tsinghai, China (h = N).					
"	14	Up	iP		19 46 55.9	C	
			iPP		19 51 17.4		
		Ki	iP		19 46 44.4		
		Sk	iP		19 47 03.1		
		Um	iP		19 46 46.6		
		Ud	iP		19 47 03.6		
			iPP		19 51 31.7		
		De	iP		19 47 07.6		
		Flores Sea (h = 280 km).					
"	14	Up	iP		20 13 05.7		
					micr	sec	
			Mx	N	0.7	20	
			Mx	Z	0.8	19	
		Ki	iP		20 12 48.8		
		Ud	eP		20 13 13		
		New Guinea (h = 35 km).					
"	14	Um	iP		22 54 31.5		
		Ud	iP		22 55 03.2		
		Kurile Islands (h = 140 km).					
"	14	Um	iPKP1		23 35 29.9		
"	15	Ki	iP		01 01 33.1		
		Ud	iP		01 01 59.2		
		Mindanao (h = N).					
"	15	Up	i(pPKP)		03 33 44.4		
		Ud	i(pPKP)		03 33 46.2		
		Solomon Islands (h = 30 km).					

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

1975 Mar.	15	Um	iP	05 18 43.5		
"	15	Up	iP	10 10 52.2		
		Ki	iP	10 09 59.0		
		Um	iP	10 10 24.0		
		Ud	iP	10 10 54.7		
		De	iP	10 11 16.5		
		Kamchatka (h = N).				
"	15	Um	iPKPl	11 45 36.1		
"	15	Um	iP	16 18 06.9		
		Ud	iP	16 18 23.7		
			i	16 18 29.0		
		De	iP	16 18 29.3		
		Celebes (h = 40 km).				
"	15	Ud	iPKPl	16 48 27.4		
"	15	Up	i	18 00 03.5		
		Ud	iPgl	17 59 15.6		
			iSgl	17 59 20.5		
			iRg	17 59 22.4		
		Central Sweden.				
		Near-surface event.				
"	15	Ud	eP	18 31 23		
		De	iP	18 30 49.8		
"	15	Ud	eP	20 38 02		
		Japan.				
"	16	Ud	ePKPl	05 36 15		
"	16	Up	iP	05 37 10.5 C		
				micr	sec	
			P Z'	0.1	1.2	
		Ki	iP	05 36 54.7 C		
				micr	sec	
			P Z'	0.1	1.0	
		Um	iP	05 36 57.9 C		
		Ud	iP	05 37 22.9 C		
		Szechwan, China (h = N).				
		m = 5.9 (Up,Ki).				
"	16	Ud	iP	07 40 08.4		
		Molucca Passage (h = 120 km).				
"	16	Ud	iPKPl	08 23 00.1		
		De	iPKPl	08 23 11.1 C		
		Tonga-Kermadec Islands				
		(h = 670 km).				
"	16	Up	iP	08 41 59.1		
		(cont.)				

1975 Mar.	16	(cont.)				
		Um	iP	08 42 31.9		
		Ud	iP	08 42 05.7		
		Aegean Sea (h = 5 km).				
"	16	Up	iP	10 31 25.0		
				micr	sec	
			P Z'	0.1	1.0	
		Ki	iP	10 31 41.3		
		Sk	eP	10 31 53		
		Um	iP	10 31 27.4		
		Ud	iP	10 31 40.5		
		De	iP	10 31 33.1		
		Pakistan (h = 35 km).				
"	16	Up	iPKPl	17 09 14.7		
			i	17 09 23.4		
		Ud	iPKPl	17 09 16.1		
		De	i	17 09 34.0		
"	16	Up	iP	23 51 41.6		
			iPcP	23 52 05.4		
		Ki	iP	23 50 56.3		
		Um	iP	23 51 16.7		
			iPcP	23 51 47.0		
		Ud	iP	23 51 47.7 C		
			iPcP	23 52 14.7		
		De	iP	23 52 05.1		
		Kurile Islands (h = 45 km).				
"	17	Ud	iP	01 41 56.4		
		Kurile Islands (h = 100 km).				
"	17	Up	iP	02 11 21.3		
				micr	sec	
			Mx E	2.2	15	
			Mx N	1.2	14	
			Mx Z	1.4	12	
		Ki		micr	sec	
			Mx E	2.8	13	
			Mx N	0.8	11	
			Mx Z	0.8	12	
		Um	iP	02 11 57.9		
			i	02 12 04.2		
		Ud	iP	02 11 29.0		
		De	iP	02 10 55.6		
		Aegean Sea (h = 2 km).				
		M = 4.6 (Up,Ki).				
"	17	Up	iP	05 15 52.0		
			i	05 15 58.5		
			iS	05 19 26		
				micr	sec	
			P Z'	0.2	1.2	
		(cont.)				

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

1975 Mar. 17 (cont.)

Up			micr	sec
	Mx	E	29	15
	Mx	N	16	15
	Mx	Z	17	13
Ki	iP		05 17 05.6	
	i		05 17 10.0	
	iLgl		05 25 48	
			micr	sec
	P	Z'	0.1	1.0
	Mx	E	31	12
	Mx	N	8.9	10
	Mx	Z	8.4	10
Sk	iP		05 16 33.6	
	i		05 16 38.1	
Um	iP		05 16 26.0	
	i		05 16 30.5	
	i		05 16 37.0	
	iS		05 20 36	
Ud	iP		05 15 58.6	
	i		05 16 02.7	
	i		05 16 06.6	
De	iP		05 15 24.8	
	i		05 15 27.8	
	i		05 15 35.0	

Aegean Sea (h = 3 km).
m = 5.5, M = 5.6 (Up,Ki).
Multiple P; average delay after first P = 4.5 and 9.7 sec.

" 17

Up	iP		05 22 23.9	
	i		05 22 30.1	
			micr	sec
	P	Z'	0.2	1.5
	Mx	E	18	15
	Mx	N	10	15
	Mx	Z	12	13
Ki	iP		05 23 36.4	
	iLgl		05 32 23	
			micr	sec
	P	Z'	0.1	1.0
	Mx	E	21	12
	Mx	N	8.5	10
	Mx	Z	7.4	10
Sk	iP		05 23 09.5	
	i		05 23 15.3	
Um	iP		05 23 01.7	
	i		05 23 07.4	
Ud	iP		05 22 33.6	
	i		05 22 39.8	
De	eP		05 21 59	
	i		05 22 02.9	

Aegean Sea (h = 5 km).
m = 5.4, M = 5.5 (Up,Ki).
Double P; average delay of second P = 5.6 sec.

1975 Mar. 17

Up	iP		05 39 54.5	
	i		05 39 59.6	
	iS		05 43 27	
			micr	sec
	P	Z'	0.1	1.0
	i	Z'	0.4	1.1
	Mx	E	56	15
	Mx	N	30	15
	Mx	Z	33	13
Ki	iP		05 41 05.5	
	i		05 41 09.5	
	iS		05 45 52	
	iLgl		05 49 44	
			micr	sec
	P	Z'	0.4	1.3
	Mx	E	59	12
	Mx	N	23	10
	Mx	Z	20	10
Sk	iP		05 40 35.9	
	i		05 40 41.4	
Um	iP		05 40 27.5	
	i		05 40 31.8	
	iS		05 44 40	
Ud	iP		05 40 00.5	
	i		05 40 05.7	
De	iP		05 39 24.1	
	i		05 39 29.3	

Aegean Sea (h = 5 km).
m = 5.6, M = 6.0 (Up,Ki).
Multiple P; average delay of second P = 4.9 sec.

" 17 Um iP 11 01 59.8
Banda Sea (h = 540 km).

" 17 Ud iPKP 16 53 39.1
i 16 53 44.6

" 17

Up	iP		17 50 24.6	
	ipP		17 50 37.2	
			micr	sec
	P	Z'	0.1	0.9
Ki	iP		17 49 32.9	
Sk	iP		17 50 03.9	
Um	iP		17 49 58.1	
Ud	iP		17 50 24.9	
	ipP		17 50 39.4	
De	iP		17 50 47.2	

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

" 17 Ud iP 17 52 31.4
Aegean Sea (h = 5 km).

" 17 Up iP 19 12 06.3
(cont.)

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

1975
Mar. 17 (cont.)

	Ki	iP		19 11 52.8 C
		ipP		19 12 10.2
			micr	sec
		pP	Z' 0.2	1.5
	Sk	iP		19 12 12.6
	Um	iP		19 11 56.7
		ipP		19 12 14.6
	Ud	iP		19 12 14.8
		ipP		19 12 32.2
		iPP		19 16 09.2

Celebes.
h = 70 km (Ki,Um,Ud).

" 17

Ki	iP		21 00 44.8
Sk	iP		21 01 12.1
Um	iP		21 01 12.9
Ud	eP		21 01 38

Kodiak Island (h = 70 km).

" 17

Up		micr	sec
	Mx	E 3.6	23
	Mx	N 6.6	24
	Mx	Z 6.0	20
Ki		micr	sec
	Mx	E 4.5	18
	Mx	N 5.8	18
	Mx	Z 5.5	19
Um	iP		22 25 03.4
Ud	iP		22 25 25.4

New Guinea (h = N).
M = 6.2 (Up,Ki).

" 17

Um	iP		22 54 36.6

New Guinea (h = 35 km).

" 17

Um	iP		23 36 11.5

New Guinea (h = N).

" 18

Up	iP		00 50 34.4

" 18

Ud	iP		01 24 28.4
	i		01 24 44.1

Peru (h = 40 km).

" 18

Ud	eP		03 57 49

Aegean Sea (h = 5 km).

" 18

Um	iP		04 31 07.4 C
Ud	iP		04 30 53.6

Dominican Republic (h = 40 km).

" 18

Up	i(P)		07 02 38.3

" 18

Um	iP		07 08 10.8

New Guinea (h = 50 km).

1975
Mar. 18

Up	iP		07 11 59.3
Ud	iP		07 12 13.2

" 18

Up	iSgl		09 21 07.0
Ud	iPgl		09 19 52.8
	iSgl		09 20 23.6
	iRg		09 20 35.1
De	iPgl		09 19 40.2
	iSgl		09 20 05.0

West coast of Sweden,
57.9°N, 11.7°E.
Origin time = 09 19 11.
m = 3.9, M_L = 2.0 (Up,Ud,De).

" 18

Up	iP		09 28 33.2
Ki	iP		09 28 34.4
Um	eP		09 28 26
Ud	iP		09 28 49.6

Sinkiang, China (h = N).

" 18

Ud	iPKPl		12 37 49.5

" 18

Up	iPn		13 17 20.3 C
	i		13 17 30.2
	iSn		13 18 45.9
	iS*		13 19 21.3
		micr	sec
	Pn	Z' 0.1	0.9
	Sn	Z' 0.2	0.7
	S*	Z' 0.5	0.9
Ki	iPn		13 17 01.8 C
	i		13 17 11.9
	iSn		13 18 08.9
		micr	sec
	Pn	Z' 0.1	0.5
	i	Z' 0.1	0.6
	Sn	Z' 0.5	0.9
Sk	iPn		13 16 22.5 C
	i		13 16 32.0
	iSn		13 17 03.4
Um	iPn		13 17 03.0
	i		13 17 11.7
	iSn		13 18 14.8
	i		13 18 34.9
Ud	iPn		13 17 03.3
	i		13 17 12.2
	iSn		13 18 15.6
De	ePn		13 17 48
	i		13 18 06.8
	iSn		13 19 31.5
	iS*		13 20 21.0

Norwegian Sea (h = N).
m = 4.9, M_L = 4.0 (Up,Ki,Sk,Um,
Ud,De).
(cont.)

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

1975 Mar.	18	(cont.) Pn is followed by another clear phase after 11.8 sec in average.				
"	18	Up	eP		14 46 34	
		Ud	eP		14 46 21	
		Colombia (h = 170 km).				
"	18	Up	iP		17 34 39.9	D
			ipP		17 35 12.6	
			iS		17 46 00	
					micr sec	
			P	Z'	0.6 1.3	
		Ki	iP		17 34 43.1	
					micr sec	
			P	Z'	0.3 1.4	
		Sk	iP		17 34 28.4	D
		Um	iP		17 34 44.3	D
			ipP		17 35 16.0	
			iS		17 46 08	
		Ud	iP		17 34 30.9	D
			ipP		17 35 02.1	
		De	iP		17 34 31.4	
		Peru.				
		h = 120 km (Up,Um,Ud).				
		m = 6.8 (Up,Ki).				
"	18	Up	iP		18 53 09.1	
					micr sec	
			P	Z'	0.2 1.4	
			Mx	E	6.6 16	
			Mx	N	23 20	
			Mx	Z	13 16	
		Ki	iP		18 52 59.7	
			ipP		18 53 05.0	
					micr sec	
			Mx	E	7.0 19	
			Mx	N	28 18	
			Mx	Z	7.8 14	
		Sk	iP		18 53 26.3	
			ipP		18 53 32.6	
		Um	iP		18 52 57.7	
			ipP		18 53 03.9	
		Ud	iP		18 53 23.5	
			ipP		18 53 30.3	
		De	iP		18 53 27.3	
		Tibet.				
		h = 25 km (Ki,Sk,Um,Ud).				
		M = 5.8 (Up,Ki).				
"	18	Ki	iP		20 57 42.1	
		Ud	iP		20 58 35.0	
"	19	Ud	iP		13 20 12.9	
1975 Mar.	19	Up	iP		16 47 22.1	
		Um	iP		16 46 55.9	
		Ud	iP		16 47 22.4	
		Aleutian Islands (h = 60 km).				
"	19	Up	iP		22 26 40.2	
		Ki	iP		22 26 29.0	
		Um	iP		22 26 28.2	
		Ud	iP		22 26 56.2	
		De	eP		22 27 00	
			i		22 27 07.8	
		Sinkiang, China.				
"	19	Um	iP		22 54 20.3	
"	20	Up	iP		02 51 11.7	
		Ki	iP		02 50 53.8	
		Um	iP		02 50 59.0	
		Ud	iP		02 51 18.4	C
			i		02 51 30.7	
		Talaud Islands (h = 90 km).				
"	20	Up	iP		03 34 40.7	
			ipP		03 34 53.1	
					micr sec	
			P	Z'	0.1 0.8	
		Ki	iP		03 33 48.8	
					micr sec	
			P	Z'	0.1 1.0	
		Sk	eP		03 34 20	
		Um	iP		03 34 14.9	C
			ipP		03 34 27.2	
		Ud	iP		03 34 41.4	
			ipP		03 34 53.4	
		De	iP		03 35 03.2	
			ipP		03 35 15.0	
		Aleutian Islands.				
		h = 45 km (Up,Um,Ud,De).				
		m = 5.9 (Up,Ki).				
"	20	Up	iP		03 38 30.3	
			ipP		03 38 42.2	
			isP		03 38 49.9	
					micr sec	
			P	Z'	0.1 0.9	
		Sk	iP		03 38 09.3	
		Ud	iP		03 38 30.2	
			ipP		03 38 42.4	
			isP		03 38 50.9	
		De	iP		03 38 51.5	
		Aleutian Islands.				
		h = 45 km (Up,Ud).				
"	20	Up	eP		06 55 57	
		Sk	eP		06 56 43	
		(cont.)				

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

1975 Mar.	20	(cont.)				
		Um	iP		06 56 37.2	
		Ud	eP		06 56 02	
			ipP		06 56 16.3	
		Greece.				
		h = 70 km (Ud).				
"	20	Up	iP		07 22 32.0	
					micr	sec
			P	Z'	0.2	1.0
		Ki	iP		07 21 38.6	
		Sk	iP		07 22 11.4	
		Um	iP		07 22 04.8	
		Ud	iP		07 22 32.6	
		De	eP		07 22 56	
		Aleutian Islands (h = 55 km).				
"	20	Up	iP		07 41 34.3 C	
					micr	sec
			P	Z'	0.5	1.2
		Ki	iP		07 40 41.5 C	
					micr	sec
			P	Z'	0.1	1.4
		Sk	iP		07 41 13.6 C	
		Um	iP		07 41 07.0 C	
			ipP		07 41 22.2	
		Ud	iP		07 41 35.2 C	
		De	iP		07 41 56.9 C	
		Aleutian Islands.				
		h = 55 km (Um).				
		m = 6.0 (Up,Ki).				
"	20	Um	iP		07 46 26.7	
"	20	Um	iP		10 25 44.6	
		Indian Ocean (h = N).				
"	20	Up	i(Sgl)		11 09 46.3	
		Ud	i(Sgl)		11 09 31.6	
"	20	Up	iPKP1		13 36 45.9	
		Ud	iPKP1		13 36 47.0	
"	20	Ud	iPKP1		15 59 03.1	
"	20	Um	iP		20 13 32.9	
		Ud	iP		20 14 03.2	
		Japan (h = 40 km).				
"	20	Ud	iPKP		23 09 44.0	
			i		23 09 53.6	
"	21	Ud	iP		00 41 09.1	
		Indian Ocean (h = N).				
"	21	Up	iSKP1		04 45 48.4	
		(cont.)				

1975 Mar.	21	(cont.)				
		Sk	iPKP		04 42 24.6	
		Um	iPKP		04 42 20.4	
			ipPKP		04 42 51.8	
			iSKP1		04 45 37.4	
		Ud	iPKP		04 42 30.5	
			iSKP1		04 45 50.9	
		De	i(PKP)		04 42 27.8	
		New Hebrides Islands.				
		h = 110 km (Um).				
"	21	Up	iP		13 27 03.3	
		Ud	iP		13 27 05.1 C	
		Aleutian Islands (h = 55 km).				
"	22	Sk	iP		04 04 13.6	
		Ud	eP		04 04 37	
		Alaska (h = 25 km).				
"	22	Up	iP		05 22 24.8	
		Greece.				
"	22	Um	iP		05 28 42.1	
		Ud	eP		05 28 26	
		Venezuela (h = N).				
"	22	Um	iPKP1		05 46 41.6	
"	22	Ud	iPKP1		06 42 02.5	
"	22	Sk	iP		08 39 09.0	
"	22	Up	iP		14 05 53.5	
		Ki	eP		14 05 07	
		Um	iP		14 05 28.1 C	
		Ud	iP		14 05 59.4	
		Kurile Islands (h = N).				
"	22	Ud	iP		14 17 53.6	
"	22	Ud	iP		15 30 00.9	
"	22	Up	iP		15 40 30.0	
			i		15 40 34.1	
					micr	sec
			P	Z'	0.2	1.4
			Mx	E	1.6	17
			Mx	N	2.6	21
			Mx	Z	2.6	19
		Ki	iP		15 40 45.8	
					micr	sec
			Mx	E	2.0	11
			Mx	N	1.8	13
			Mx	Z	1.8	11
		Sk	iP		15 40 56.6	
		Um	iP		15 40 32.6 C	
		(cont.)				

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

1975					
Mar.	22	(cont.)			
		Ud	iP	15 40 46.4	C
		De	iP	15 40 39.0	C
		Pakistan (h = 40 km).			
		M = 5.4 (Up,Ki).			
"	22	Um	iP	16 51 18.2	
"	22	Um	iPKP1	18 40 09.2	
"	22	Up	iP	19 04 47.6	
			ipP	19 04 59.4	
		Ki	iP	19 03 53.1	
		Sk	eP	19 04 30	
			ipP	19 04 39.8	
		Um	iP	19 04 18.1	
		Ud	iP	19 04 49.3	
			i(pPcP)	19 05 41.4	
		De	iP	19 05 12.6	
			i(pPcP)	19 05 55.2	
		Kamchatka.			
		h = 40 km (Up,Sk).			
"	22	Um	iPKP2	22 57 02.5	
		Ud	iPKP2	22 57 20.2	
		De	iPKP2	22 57 25.9	
		Auckland Islands (h = N).			
"	23	Ud	iP	01 17 44.9	
		New Guinea (h = N).			
"	23	Ki	iP	01 27 42.0	
		Um	iP	01 27 34.5	
		Kashmir (h = N).			
"	23	Up	iP1	07 44 32.7	C
			ipP1	07 44 37.2	
			iP2	07 44 46.4	
			ipP2	07 44 51.0	
			iS	07 54 23	
				micr	sec
			P1 Z'	1.1	1.2
			P2 Z'	0.9	0.9
			Mx E	98	22
			Mx N	220	22
			Mx Z	97	19
		Ki	iP1	07 44 09.6	C
			ipP1	07 44 14.2	
			iP2	07 44 23.0	
			ipP2	07 44 28.0	
			iS	07 53 37	
				micr	sec
			P1 Z'	2.2	1.6
			P2 Z'	1.0	1.3
			Mx E	63	16
			Mx N	110	19
			Mx Z	55	15
		(cont.)			

1975					
Mar.	23	(cont.)			
		Sk	iP1	07 44 36.9	C
			ipP1	07 44 41.3	
		Um	iP1	07 44 17.6	C
			ipP1	07 44 22.3	
			iP2	07 44 29.9	
			ipP2	07 44 35.1	
			iS	07 53 55	
		Ud	iP1	07 44 42.7	C
			ipP1	07 44 47.2	
			iP2	07 44 55.6	
		De	iP1	07 44 50.8	
			ipP1	07 44 55.2	
			iP2	07 45 03.9	
			iPP	07 47 57.9	
		Formosa.			
		Interpreted as two shocks, 13.1 sec apart.			
		h_1 = 15 km (Up,Ki,Sk,Um,Ud, De).			
		h_2 = 20 km (Up,Ki,Um).			
		$m_1 = m_2 = 6.9$, M = 7.0 (Up,Ki).			
"	23	Up	iP	13 38 00.9	
		Formosa (h = N).			
"	23	Sk	iP	14 16 51.2	
		Ud	iP	14 16 19.3	
		De	iP	14 15 47.9	
		Crete.			
"	23	Up	iP	14 29 19.2	
		Ki	iP	14 28 54.7	
		Ud	iP	14 29 28.7	
		Formosa (h = N).			
"	23	Up	iPKP1	18 23 56.8	
		Ud	iPKP1	18 24 00.9	
"	23	Ud	iP	19 35 31.8	
		Crete.			
"	23	Up	iP	19 59 01.8	C
			iPcP	19 59 28.2	
				micr	sec
			P Z'	0.2	0.8
		Ki	iP	19 58 13.8	C
			iPcP	19 58 58.4	
				micr	sec
			P Z'	0.2	0.5
		Sk	iP	19 58 48.6	C
		Um	iP	19 58 35.2	
		Ud	iP	19 59 06.1	C
		De	iP	19 59 25.7	C
		Kurile Islands (h = N).			
		m = 6.4 (Up,Ki).			

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

1975 Mar.	23	Up	iP		21 45 17.3	C
		Ki	iP		21 45 44.5	
		Um	iP		21 45 27.7	
		Ud	iP		21 45 28.2	
		De	iP		21 45 15.3	
		Indian Ocean.				
"	24	Up	iP		00 57 30.4	
		Ud	iP		00 57 25.7	
"	24	Up	iP		02 36 37.4	
			ipP		02 36 42.5	
			iS		02 39 14.3	
			iLg2		02 40 46.4	
		Ki	iP		02 38 10.9	
			iLg1		02 44 32.8	
		Sk	iP		02 37 18.0	
		Um	iP		02 37 23.1	
			ipP		02 37 28.2	
		Ud	iP		02 36 35.3	
			iLi		02 40 00.4	
		De	iP		02 35 43.2	
			iLg2		02 38 42.9	
		Italy-Austria.				
		h = 25 km (Up,Um).				
"	24	Ki	iP		04 50 13.4	
		Sk	iP		04 50 25.6	
			iS		04 52 12.3	
		Ud	iP		04 51 12.1	
		Jan Mayen region.				
"	24	Up	iP		05 42 03.4	
			i		05 42 05.4	C
					micr	sec
			P	Z'	0.2	1.0
			Mx	E	3.4	28
			Mx	N	6.5	27
		Ki	iP		05 42 20.1	
			i		05 42 22.6	
					micr	sec
			P	Z'	0.1	0.9
			Mx	E	3.6	11
			Mx	N	3.6	13
			Mx	Z	2.2	13
		Sk	iP		05 42 31.4	
			i		05 42 33.5	C
		Um	iP		05 42 06.6	
			i		05 42 08.4	C
			iPP		05 43 54.8	
		Ud	iP		05 42 19.5	
			i		05 42 21.5	C
			iPP		05 44 14.0	
		De	iP		05 42 12.3	
			i		05 42 14.1	C
		(cont.)				

1975 Mar.	24	(cont.)				
		De	iPP		05 44 06.8	
		Pakistan (h = 25 km).				
		m = 6.0, M = 5.4 (Up,Ki).				
		Double P, in average 2.0 sec apart.				
"	24	Sk	iP		07 12 22.3	
		Um	i(P)		07 12 48.1	
		Ud	i(P)		07 12 28.5	
		Guatemala (h = 60 km).				
"	24	Up	iPKP1		14 40 00.2	
		Um	iPKP1		14 39 50.3	
		Ud	iPKP1		14 40 02.2	
			iPKP2		14 40 13.6	
		South of Kermadec Islands (h = N).				
"	24	Up	iP		15 24 18.2	
		Ud	iP		15 24 24.8	
		Greece (h = 50 km).				
"	24	Up	iRg		15 25 30.7	
			i		15 25 31.4	
		Dannemora, Sweden, 60.1°N, 17.5°E.				
		Origin time = 15 25 14.				
		Rockburst at the iron ore mines.				
		Felt.				
"	24	Up	iPKP1		15 43 40.2	C
		Ki	iPKP		15 43 33.9	
			iSKP1		15 46 01.7	
		Um	iPKP		15 43 35.0	
			i		15 43 41.6	
			iSKP1		15 46 18.9	
		Ud	iPKP1		15 43 42.4	C
			iSKP1		15 46 27.4	
		De	iPKP1		15 43 53.8	D
			iSKP1		15 46 36.1	
		Fiji Islands (h = 650 km).				
"	24	Ud	iPKP1		17 59 17.8	
		De	iPKP1		17 59 30.4	
"	24	Ud	iP		21 01 54.2	
		India-China.				
"	24	Up	iP		21 12 56.8	
		Ud	iP		21 12 44.0	
"	25	Up	i(pP)		02 44 18.5	
			i		02 44 27.4	
		(cont.)				

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

1975
Mar. 25 (cont.)

	Sk	iP		02 43 44.3
	Um	iP		02 44 03.7
		ipP		02 44 15.3
	Ud	eP		02 43 57

Guatemala.
h = 45 km (Um).

" 25

	Ud	iP		02 58 28.8
	De	iP		02 57 56.0

Crete (h = N).

" 25

	Ud	iP		03 45 06.1

Crete.

" 25

	Up	iPKKP2		07 10 53.2
	Ki	iPKP		06 59 51.7
		ipPKP		07 00 38.8
		iPKKP2		07 10 37.6
			micr	sec
		PKP	Z' 0.1	1.4
		pPKP	Z' 0.2	1.6
	Um	iPKP		06 59 49.9
		iPKKP2		07 10 42.7
	Ud	iPKP		06 59 41.1
		iPKKP2		07 11 00.0
	De	iPKP		06 59 40.0

Argentina.
h = 180 km (Ki).

" 25

	Up	iP		10 22 25.8
	Um	iP		10 22 12.8
	Ud	iP		10 22 34.5

Ryukyu Islands (h = 50 km).

" 25

	Up	iPKP1		10 40 38.5

" 25

	Ud	iPKP1		13 56 33.2
	De	iPKP1		13 56 43.4

Tonga Islands (h = N).

" 25

	Ud	iPKP1		18 59 19.1
	De	iPKP1		18 59 30.1

" 25

	Up	iSKP1		21 28 10.6
			micr	sec
		SKP1	Z' 0.1	1.2
	Ki	iPKP		21 24 29.0
	Um	iPKP		21 24 36.9
	Ud	iPKP		21 24 47.5
	De	iPKP		21 24 54.0

New Hebrides Islands
(h = 15 km).

" 25

	Up	iP		23 50 51.3

1975
Mar. 26

	Ud	iPKP1		02 07 51.8

" 26

	Up	iPKP1		03 47 29.4
		iPKP2		03 47 35.1
	Um	iPKP1		03 47 17.5
	Ud	iPKP1		03 47 30.4

South of Kermadec Islands
(h = 430 km).

" 26

	Up	iP		03 51 31.5
			micr	sec
		P	Z' 0.1	1.5
		Mx	E 0.9	16
		Mx	N 0.8	15
		Mx	Z 1.0	18
	Ki	iP		03 52 18.7
			micr	sec
		P	Z' 0.1	1.2
	Sk	iP		03 51 58.5
	Um	iP		03 51 54.6
	Ud	iP		03 51 36.9
	De	iP		03 51 13.4

Lake Tanganyika (h = N).
m = 5.8 (Up,Ki).

" 26

	Ud	iP		04 08 00.5

" 26

	Up	iP		04 55 56.0
	Ud	iP		04 56 14.5

" 26

	Up	ipP		13 27 02.3
	Ki	ipP		13 26 40.0
	Ud	iP		13 27 03.3
		ipP		13 27 09.1

Formosa.
h = 20 km (Ud).

" 26

	Ud	iP		13 27 47.0

Hindu Kush.
Intermediate depth.

" 26

	Ud	iP		13 55 50.0
	De	iP		13 55 32.2

Iran.

" 26

	Up	iP		14 45 00.8
	Ud	iP		14 45 15.2

Pakistan (h = N).

" 26

	Up	iP		16 28 39.8 C
		ipP		16 28 47.2
	Ki	iP		16 29 00.6 C
	Sk	iP		16 29 07.3
		ipP		16 29 14.6
	Um	iP		16 28 45.9 C
		ipP		16 28 53.3

(cont.)

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

1975 Mar. 26 (cont.)

	Ud	iP	16 28 54.3	C
		ipP	16 29 00.8	
	De	iP	16 28 44.6	
		ipP	16 28 51.3	

Arabian Sea.
h = 30 km (Up,Sk,Um,Ud,De).

" 26

	Up	iP	16 43 38.4	
	Ki	iP	16 42 59.6	
	Um	iP	16 43 17.2	
		ipP	16 43 34.0	
	Ud	iP	16 43 46.7	
	De	iP	16 44 01.0	

Japan.
h = 60 km (Um).

" 26

	Up	iP	18 13 21.0		
			micr	sec	
		P	Z' 0.1	1.0	
	Ki	iP	18 12 27.2		
	Sk	iP	18 13 04.6		
	Um	iP	18 12 52.5		
	Ud	iP	18 13 24.6		
	De	iP	18 13 46.1		

Kamchatka (h = N).

" 26 De iPKPl 18 25 06.4

" 26

Up	iP	18 33 50.8	
	ipP	18 34 05.4	
Ki	iP	18 33 26.3	
	ipP	18 33 41.3	
Sk	ipP	18 34 08.9	
Ud	ipP	18 34 14.5	

Formosa.
h = 55 km (Up,Ki).

" 26 Ud iP 19 05 53.3 C

" 26

Ki	iP	19 50 07.2	
Um	iP	19 50 22.8	C
Ud	iP	19 50 49.6	

South of Japan (h = N).

" 26 Ud iP 20 04 52.1
Pakistan (h = 45 km).

" 26 De eP 21 55 35
Colombia (h = 170 km).

" 26

Up	iP	23 32 43.4		
		micr	sec	
	Mx	N 1.1	20	
	Mx	Z 1.1	20	

(cont.)

1975 Mar. 26 (cont.)

Ki	iP	23 32 30.1		
		micr	sec	
	Mx	E 1.2	16	
	Mx	N 2.3	21	
	Mx	Z 1.4	17	
Sk	iP	23 32 50.9		
	ipP	23 33 01.1		
Um	iP	23 32 34.3	C	
	ipP	23 32 44.5		
Ud	iP	23 32 52.3	C	
	ipP	23 33 02.8		
De	iP	23 32 57.9		

Celebes Sea.
h = 40 km (Sk,Um,Ud).
M = 5.5 (Up,Ki).

" 27

Up	iPKPl	04 38 06.4
Sk	iPKPl	04 38 02.0
Um	iPKPl	04 37 55.6
Ud	iPKPl	04 38 08.9
De	iPKPl	04 38 18.8

Kermadec Islands.

" 27

Up	iP	05 19 41.5		
	i	05 19 46.2		
	iS	05 23 15		
		micr	sec	
	P	Z' 0.2	1.4	
	i	Z' 3.2	1.8	
	Mx	E 540	20	
	Mx	N 350	18	
	Mx	Z 270	16	
Ki	iP	05 20 55.3		
	i	05 20 59.8		
	iS	05 25 43		
		micr	sec	
	P	Z' 0.2	1.5	
	i	Z' 1.3	1.5	
	Mx	E 320	15	
	Mx	N 110	10	
	Mx	Z 90	10	
Sk	iP	05 20 26.1		
	i	05 20 30.9		
Um	iP	05 20 19.0		
	i	05 20 24.3		
	iS	05 24 33		
Ud	iP	05 19 52.5	C	
	i	05 19 56.4		
De	iP	05 19 14.3		
	i	05 19 18.4		
	i	05 19 22.6		

Aegean Sea (h = 5 km).
m = 6.4, M = 6.8 (Up,Ki).
Multiple P, in average 4.5 sec between first and second onsets.

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

1975								
Mar.	27	Up	iP			06	20	20.2
			i			06	20	23.3
					micr		sec	
			P	Z'	0.1		1.4	
		Ki	eP			06	21	32
			i			06	21	36.3
		Sk	iP			06	21	07.4
			i			06	21	11.1
		Um	iP			06	20	57.8
			i			06	21	02.0
		Ud	iP			06	20	29.1
			i			06	20	33.1
		De	eP			06	19	54
		Aegean Sea (h = N).						
		Double P, in average 3.8 sec apart.						
"	27	Up	iP			08	11	11.2
		Ud	iP			08	11	16.6
"	27	Um	iPKP1			08	21	25.3
			i			08	21	39.3
		Ud	ePKP1			08	21	44
"	27	Up	iPKP1			10	15	51.7
		Ki	iPKP1			10	15	31.7
		Sk	iPKP1			10	15	46.2
		Um	iPKP1			10	15	40.9
		Ud	iPKP1			10	15	53.5
		De	ePKP1			10	16	02
		South of Kermadec Islands (h = 130 km).						
"	27	Ud	iP			11	16	29.4
		Aegean Sea (h = N).						
"	27	Ud	iPKP1			14	48	38.6
"	27	Up	iPKP			15	58	05.9
		Ki	iPKP			15	58	21.3
		Um	iPKP			15	58	13.6
		Ud	iPKP			15	58	05.1
		South Atlantic Ocean (h = N).						
"	27	Up	iP			18	10	59.1
		Ki	iP			18	10	35.8
					micr		sec	
			Mx	E	0.7		16	
			Mx	N	0.5		15	
			Mx	Z	0.5		12	
		Um	iP			18	10	44.4
			i			18	10	50.8
		Ud	iP			18	11	09.4
		Formosa (h = N).						

1975								
Mar.	27	Up	iP			19	01	17.8
		Ki	iP			19	00	23.9
		Um	iP			19	00	50.6
		Ud	iP			19	01	19.1
		Aleutian Islands (h = N).						
"	27	Ud	iPKP1			19	33	00.4
"	27	Up	eP			19	47	19
		Ki	i			19	48	58.0
					micr		sec	
			Mx	E	0.7		13	
			Mx	N	0.5		12	
		Sk	e			19	48	07
			i			19	48	18.3
		Um	iP			19	47	56.4 D
			i			19	48	11.3
		Ud	iP			19	47	27.1
			i			19	47	34.9
		De	e			19	46	59
		Aegean Sea (h = 5 km).						
"	27	Up	eP			20	31	23
			i			20	31	42.2
		Ki	eP			20	30	53
		Um	i			20	31	25.8
		Ud	iP			20	31	31.7
			i			20	31	51.4
		Formosa (h = N).						
"	27	Um	iP			20	35	49.9
		Ud	iP			20	35	22.0
		Aegean Sea.						
"	27	Um	iP			21	21	17.7
		Ud	iP			21	20	51.3
		Aegean Sea.						
"	27	Ud	eP			23	12	49
		Aegean Sea.						
"	28	Up	iP			02	42	21.8 C
			i			02	42	25.9
			iS			02	51	35
					micr		sec	
			P	Z'	0.3		1.3	
			i	Z'	1.6		1.6	
			Mx	E	3.1		20	
			Mx	N	2.7		19	
			Mx	Z	4.6		21	
		Ki	iP			02	41	45.9
			i			02	41	49.7
			iS			02	50	31
			iP'P'			03	10	35.0

(cont.)

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

					micr	sec
1975 Mar.	28	(cont.)				
		Ki	P	Z'	0.2	1.3
			i	Z'	0.7	1.7
			Mx	E	4.6	14
			Mx	N	4.3	16
			Mx	Z	5.4	14
		Sk	iP		02 41 54.4	
			i		02 41 57.6	
		Um	iP		02 42 06.3	
			i		02 42 10.0	
			iS		02 51 07	
			iP'P'		03 10 23.7	
		Ud	iP		02 42 12.9	
			i		02 42 16.6	
		De	iP		02 42 30.6	
			i		02 42 34.2	
		Idaho, USA (h = 5 km).				
		m = 6.8, M = 5.9 (Up,Ki).				
		Double P, in average 3.7 sec apart.				
"	28	Ki	iPg1		03 17 24.5	
			iSg1		03 18 16.3	
		Sk	eS*		03 18 27	
			iSg1		03 18 31.3	
		Um	iSn		03 18 57.1	
			iSg1		03 19 25.7	
		Ud	iSg1		03 20 08.3	
		Norwegian Sea,				
		near 67.7°N, 9.7°E.				
		Origin time = 03 16 17.				
		m = 4.2, M_L = 2.5 (Ki,Sk,Um, Ud).				
"	28	Up	iPKP1		03 20 24.8	
		Sk	iPKP1		03 20 20.5	
		Um	iPKP1		03 20 15.6	
		Ud	iPKP1		03 20 26.9	
		Tonga-Kermadec Islands.				
"	28	Ud	iP		03 37 05.5	
"	28	Um	iP		05 24 26.9	
"	28	Up	iP		05 59 54.2	
			ipP		06 00 41.6	
		Ki	iP		06 00 03.1	
		Um	iP		05 59 52.6	C
			ipP		06 00 39.9	
		Ud	iP		06 00 10.6	C
			ipP		06 00 58.2	
		De	iP		06 00 07.3	
		Hindu Kush.				
		h = 230 km (Up,Um,Ud).				

1975 Mar.	28	Up	iP	07 47 38.1
		Ki	iP	07 47 13.7
		Sk	iP	07 47 48.8
		Um	iP	07 47 19.1
		Ud	iP	07 47 51.2
		De	iP	07 48 00.0
		Mongolia (h = N).		
"	28	Um	iP	08 21 09.0
			iPP	08 25 25.8
		Ud	eP	08 21 27
		Banda Sea (h = N).		
"	28	Ud	iP	08 37 40.6
		Aegean Sea.		
"	28	Up	iP	09 21 12.2
		Ud	iP	09 21 20.6
"	28	Um	iPKP	17 07 23.4
"	28	Um	iP	18 00 10.1
			i	18 00 24.5
"	28	Up	iPKP	19 51 26.4
		Um	iPKP	19 51 20.0
			i	19 51 33.7
		Ud	iPKP	19 51 29.1
		De	iPKP	19 51 34.1
		Solomon Islands (h = 80 km).		
"	28	Ki	iP	20 41 14.7
		Um	iP	20 41 20.6
		Ud	iP	20 41 36.7
		Celebes (h = 110 km).		
"	29	Um	iP	01 00 16.6
"	29	Um	iPKP1	01 09 51.1
			i	01 10 00.6
		Ud	iPKP1	01 10 08.2
"	29	Up	iP	01 59 21.0
		Ki	iP	02 00 25.5
		Sk	iP	01 59 35.5
		Um	iP	01 59 56.6
			i	02 00 02.5
		Ud	iP	01 59 13.4
		Strait of Gibraltar (h = N).		
"	29	Sk	iP	03 07 40.9
		Um	iP	03 07 16.5
		Ud	iP	03 07 37.3
"	29	Ud	iP	03 13 17.2
"	29	Ud	i(P)	08 33 32.4

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

1975						
Mar.	29	Up	iP		09 45 33.1	
			ipP		09 45 38.3	
			iS		09 52 57	
					micr	sec
			pP	Z'	0.2	1.3
			Mx	E	2.7	18
			Mx	N	4.4	19
			Mx	Z	5.2	17
		Ki	iP		09 46 11.1	
			ipP		09 46 17.9	
			iS		09 54 10	
					micr	sec
			pP	Z'	0.1	1.3
			Mx	E	3.0	19
			Mx	N	4.3	20
			Mx	Z	5.5	16
		Sk	iP		09 46 05.3	
			ipP		09 46 10.5	
		Um	iP		09 45 49.4	
			ipP		09 45 55.0	
			iPcP		09 46 57.6	
			iS		09 53 25	
		Ud	iP		09 45 44.2	
			ipP		09 45 50.0	
		De	iP		09 45 28.0	
		Gulf of Aden.				
		h = 20 km (Up,Ki,Sk,Um,Ud).				
		m = 5.8, M = 5.6 (Up,Ki).				
"	29	Up	iP		10 19 24.4	
		Ki	iP		10 19 21.2	
		Sk	iP		10 19 41.1	
		Um	iP		10 19 18.2	
		Ud	iP		10 19 37.2 D	
		Burma.				
"	29	Ki	iPKPl		15 22 14.0	
		Um	iPKPl		15 22 24.2	
		Ud	iPKPl		15 22 24.5	
"	29	Ki	iP		15 26 24.4	
		Um	iP		15 26 38.6	
"	29	Sk	eP		15 44 21	
		Ud	iP		15 43 46.9	
		Greece (h = N).				
"	29	Ki	iP		18 08 47.6	
		Ud	iP		18 08 59.0	
		Sunda Strait region				
		(h = 90 km).				
"	29	Up	iP		20 08 23.5 C	
		(cont.)				

1975						
Mar.	29	(cont.)				
		Up			micr	sec
			P	Z'	0.1	0.8
		Ki	iP		20 07 45.1 C	
					micr	sec
			P	Z'	0.1	0.9
		Sk	iP		20 08 18.0	
		Um	iP		20 08 02.1 C	
		Ud	iP		20 08 30.8 C	
		De	iP		20 08 45.2 C	
		Japan (h = 80 km).				
		m = 5.8 (Up,Ki).				
"	29	Ud	iPKPl		20 15 08.3	
		De	iPKPl		20 15 19.1	
"	30	Um	iP		02 13 26.5	
		Ud	eP		02 12 55	
		Aegean Sea.				
"	30	Um	iPKPl		03 25 51.6 C	
		Ud	iPKPl		03 26 03.4	
"	30	Sk	eP		04 19 35	
		Um	iP		04 19 18.4	
		Ud	iP		04 19 47.4	
		Japan (h = 80 km).				
"	30	Up	iP		10 56 35.5 C	
		Ki	iP		10 56 34.7	
		Sk	iP		10 56 48.5	
		Um	iP		10 56 32.0 C	
		Ud	iP		10 56 46.2 C	
			ipP		10 57 28.6	
		De	iP		10 56 44.2	
		Sumatra.				
		h = 170 km (Ud).				
"	30	Ki	eP		13 09 12	
					micr	sec
			Mx	E	0.4	12
		Sk	eP		13 08 39	
		Um	iP		13 08 30.3	
		Ud	iP		13 08 03.6	
		Aegean Sea.				
"	30	Ud	iP		13 48 24.6	
		Aegean Sea.				
"	30	Ud	eP		13 56 40	
"	30	Ud	iP		14 10 56.3	
		De	iP		14 10 35.6	
"	30	Ud	iP		15 32 21.0	
			i		15 32 30.1	

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

1975 Mar.	30	Ud	iP		22 48 28.7		
"	30	Up			micr	sec	
			Mx	E	4.5	23	
			Mx	N	4.5	21	
			Mx	Z	10	21	
		Ki	iPKP		22 51 05.5		
			iPP		22 52 30.6		
					micr	sec	
			PKP	Z'	0.1	1.3	
			PP	Z'	0.1	1.5	
			Mx	E	6.8	22	
			Mx	N	9.0	22	
			Mx	Z	9.2	24	
		Um	iPKP		22 50 50.3		
			iPP		22 52 01.6		
		Ud	iPP		22 51 32.5		
		De	i		22 54 10.6		
"	31	Up	iP		01 49 12.0		
			ipP		01 49 52.3		
					micr	sec	
			pP	Z'	0.1	1.2	
		Ki	iP		01 48 45.8	C	
			ipP		01 49 23.4		
		Sk	iP		01 49 14.9		
		Um	iP		01 48 56.4	C	
			ipP		01 49 34.3		
		Ud	iP		01 49 22.0	C	
			ipP		01 50 00.9		
		De	iP		01 49 32.3		
		East China Sea.					
		h = 150 km (Up,Ki,Um,Ud).					
"	31	Up	iP		02 38 02.8	C	
		Um	iP		02 37 58.4		
"	31	Ud	i(Sgl)		02 53 18.9		
"	31	Ki	iP		03 01 30.5		
		Ud	iP		03 02 04.3		
"	31	Up	iP		03 03 53.7		
					micr	sec	
			P	Z'	0.2	1.0	
			Mx	E	1.0	13	
			Mx	N	2.5	23	
			Mx	Z	2.4	13	
		Ki	iP		03 03 30.1		
			i		03 03 48.9		
					micr	sec	
			P	Z'	0.2	1.0	
			Mx	E	1.2	16	
			Mx	N	1.2	14	
			Mx	Z	0.6	10	
		(cont.)					

1975 Mar.	31	(cont.)					
		Sk	iP		03 03 56.2		
		Um	iP		03 03 38.4		
		Ud	iP		03 04 03.2		
			i		03 04 22.4		
		De	iP		03 04 11.8		
		Formosa (h = 30 km).					
		m = 6.2, M = 5.6 (Up,Ki).					
"	31	Up	iP		05 59 28.8		
			ipP		05 59 38.8		
					micr	sec	
			P	Z'	0.1	1.0	
		Ki	iP		05 58 43.2		
			ipP		05 58 54.6		
		Sk	iP		05 58 59.4		
			ipP		05 59 09.9		
		Um	iP		05 59 08.3	C	
			ipP		05 59 18.3		
		Ud	iP		05 59 21.9	C	
			ipP		05 59 31.7		
		De	iP		05 59 42.3		
			ipP		05 59 52.2		
		Vancouver Island.					
		h = 40 km (Up,Ki,Sk,Um,Ud, De).					
"	31	Ki	iP		06 12 30.1		
"	31	Um	i(P)		07 03 53.0		
"	31	Up	iP		08 32 12.3		
			i		08 32 15.0		
			ipP		08 32 28.0		
					micr	sec	
			pP	Z'	0.1	1.0	
		Ki	iP		08 33 35.6		
		Sk	iP		08 33 06.1		
		Um	iP		08 32 53.1		
			i		08 32 54.8		
			ipP		08 33 09.3		
			iS		08 36 13.3		
			iLgl		08 38 23.4		
		Ud	iP		08 32 27.1		
			i		08 32 29.7		
			ipP		08 32 43.3		
		De	iP		08 31 47.8		
		Rumania.					
		h = 80 km (Up,Um,Ud).					
"	31	Up	iP		10 13 28.0	C	
					micr	sec	
			P	Z'	0.3	1.4	
			Mx	E	3.3	12	
			Mx	N	3.6	11	
			Mx	Z	5.8	11	
		(cont.)					

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

1975							
Mar.	31	(cont.)					
		Ki	iP		10 13 05.3	C	
					micr	sec	
			P	Z'	0.2	1.2	
			Mx	E	12	11	
			Mx	N	5.6	11	
			Mx	Z	12	11	
		Sk	iP		10 13 38.9		
			ipP		10 13 52.2		
		Um	iP		10 13 10.6	C	
		Ud	iP		10 13 42.9	C	
		De	iP		10 13 51.5	C	
		Mongolia.					
		h = 50 km (Sk).					
		m = 5.8, M = 5.7 (Up,Ki).					
"	31	Up	ePKP1		11 01 44		
			ipPKP1		11 01 57.7		
		Ud	iPKP1		11 01 44.5		
			ipPKP1		11 02 00.2		
		De	iPKP1		11 01 55.5		
			ipPKP1		11 02 09.5		
		Tonga Islands.					
		h = 50 km (Up,Ud,De).					
"	31	Up	iP		13 10 02.3	C	
		Ki	iP		13 10 09.0		
		Sk	eP		13 10 25		
		Um	iP		13 09 59.0		
		Ud	iP		13 10 18.5		
		De	eP		13 10 15		
		Tadzhik SSR (h = 160 km).					
"	31	Up	iP		17 16 16.2		
		Ud	iP		17 16 01.2		
"	31	Ud	iP		17 27 40.3		
"	31	Up	iP		19 15 39.2		
		Ud	iP		19 15 46.2		
		Kurile Islands (h = N).					
"	31	Up	iP		22 49 04.9		
		Ud	iP		22 49 05.9		
			i		22 49 15.6		

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November 2, 1976

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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 P R I L 1 - 30, 1975

1975 Apr.	1	Ud	iP	02 07 40.2	
"	1	Ki	iPKP	02 52 09.5	
		Um	iPKP	02 52 07.4	
		Ud	iPKP	02 51 58.1	
			ipPKP	02 52 07.2	
		De	iPKP	02 51 54.4	
		Chile.			
		h = 30 km (Ud).			
"	1	Up	iPKP1	03 13 31.3	
		Um	i(PKP)	03 13 19.8	
			iPKP	03 13 28.8	
		Ud	iPKP1	03 13 34.0	D
		De	iPKP1	03 13 43.6	
		Tonga-Kermadec Islands			
		(h = 580 km).			
"	1	Up	iP	08 24 52.4	
		Ki	iP	08 26 09.1	
		Sk	iP	08 25 35.6	
		Um	i	08 25 44.4	
		Ud	iP	08 25 04.6	
		De	iP	08 24 26.6	
		Greece (h = 6 km).			
		Consistent positive residuals versus the NEIS solution.			
"	1	Ud	iP	12 54 23.5	
"	1	Up	iSgl	15 25 00.8	
		Ud	iSn	15 23 39.7	
			iSgl	15 23 59.3	
		De	iSgl	15 24 49.8	
		Southwest Norway.			
"	1	Ki	eP	16 27 30	
		Um	iP	16 27 20.4	
		(cont.)			

1975 Apr.	1	(cont.)			
		Ud	iP	16 27 42.2	
		De	iP	16 27 44.3	
		Tibet-India (h = N).			
"	1	Ki	iP	18 57 52.2	
		Um	iP	18 58 18.1	
		Ud	iP	18 58 47.8	
		Aleutian Islands.			
"	1	Up	iP	19 32 14.2	
		Ki	iP	19 31 28.5	C
		Um	iP	19 31 48.4	
		Ud	iP	19 32 19.5	
			ipP	19 32 29.6	
		Kurile Islands.			
		h = 35 km (Ud).			
"	2	Ud	iP	02 50 59.5	
		Hindu Kush.			
		Intermediate depth.			
"	2	Ki	iP	03 55 50.2	
		Ud	iP	03 56 25.4	
		Formosa (h = N).			
"	2	Up	iP	04 28 33.8	
		Ki	iP	04 29 40.2	
				micr	sec
			Mx E	0.4	10
			Mx N	0.4	10
			Mx Z	0.4	11
		Sk	iP	04 29 13.5	
		Um	iP	04 29 10.3	
		Ud	iP	04 28 41.7	
		Crete (h = N).			
"	2	Up	iP	08 55 37.7	
		(cont.)			

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

1975 Apr.	2	(cont.)				
		Up	i		08 55 38.8	
			iS		09 05 13	
					micr	sec
			P	Z'	0.2	1.1
			Mx	E	2.1	22
			Mx	N	1.6	18
			Mx	Z	1.8	22
		Ki	iP		08 55 01.5	
			iS		09 04 00	
					micr	sec
			P	Z'	0.1	1.0
			Mx	E	2.7	19
			Mx	N	2.3	18
			Mx	Z	2.7	18
		Sk	iP		08 55 33.2	
		Ud	iP		08 55 45.2	
			i		08 55 46.2	
		De	iP		08 55 59.3	
		Japan (h = 70 km).				
		m = 5.9, M = 5.6 (Up,Ki).				
"	2	Up	iP		10 47 34.1	
			i		10 47 42.9	
		Ki	iP		10 47 12.1	
			i		10 47 22.6	
		Ud	iP		10 47 43.1	
			i		10 47 50.7	
		Luzon (h = 45 km).				
"	2	Up	iPKPl		10 50 50.3	
		Ki	iPKP		10 50 48.8	
		Ud	iPKPl		10 50 57.2	
		De	iPKPl		10 51 09.1 C	
		Tonga Islands (h = N).				
"	2	Up	iP		14 54 16.5	
		Ki	iP		14 53 23.5	
			i		14 53 35.4	
		Ud	iP		14 54 16.4	
			i		14 54 34.8	
		De	iP		14 54 39.4	
		Aleutian Islands (h = 60 km).				
"	2	Up	iP		15 27 47.8	
		Ki	iP		15 27 25.3	
		Ud	iP		15 27 58.1	
		Formosa.				
"	2	Up	i		15 28 56.0	
			iRg		15 28 59.7	
		Ud	iSgl		15 29 15.4	
		Central Sweden.				
		Near-surface event.				
1975 Apr.	2	Ki	iP		15 29 04.4	
"	2	Ki	iP		16 15 18.0	
		Ud	iP		16 15 52.7	
		Formosa (h = 55 km).				
"	2	Ki	iP		16 38 22.8	
		Ud	iP		16 38 03.7	
"	2	Ud	iP		21 15 47.2	
"	2	Ud	eP		21 17 47	
		Idaho, USA (h = 7 km).				
"	2	Up	iPKPl		23 25 04.9	
"	3	Up	iPKPl		00 51 11.9	
		Ud	iPKPl		00 51 15.0	
		De	iPKPl		00 51 25.4	
		Tonga-Kermadec Islands.				
"	3	Ud	iP		02 52 25.6	
"	3	Up	iPKP		03 33 01.4	
		Ki	iPKP		03 32 48.3 C	
		Sk	iPKP		03 32 58.5 C	
		Ud	iPKP		03 33 04.2 D	
		De	iPKP		03 33 10.7 D	
			iSKPl		03 36 26.3	
		Santa Cruz Islands (h = 120 km).				
"	3	Up	iP		06 38 53.7 C	
			ipP		06 39 13.3	
					micr	sec
			P	Z'	0.1	0.8
		Ki	iP		06 38 34.7 C	
			ipP		06 38 54.3	
					micr	sec
			P	Z'	0.1	0.8
		Sk	iP		06 39 00.7	
		Ud	iP		06 39 03.1 C	
		De	iP		06 39 09.8 C	
		Luzon.				
		h = 70 km (Up,Ki).				
		m = 5.8 (Up,Ki).				
"	3	Up	iPgl		06 41 12.0	
			i		06 41 52.5	
			i		06 42 09.8	
			iSgl		06 42 33.7	
		Ki	iSgl		06 44 51.1	
		Sk	i(P*)		06 40 47.1	
			iPgl		06 40 54.4	
			iSn		06 41 38.9	
		(cont.)				

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

1975 Apr.	3	(cont.)			
		Sk	iSgl	06 42 03.3	
		Ud	iPn	06 40 28.5	
			i(P*)	06 40 34.3	
			iPgl	06 40 37.7	
			iSn	06 41 19.9	
			iSgl	06 41 35.4	
		De	iPn	06 40 42.8	
			i	06 40 46.4	
			iSn	06 41 43.8	
			iSgl	06 42 10.4	
		Coast of southwest Norway, 59.6°N, 5.3°E. Origin time = 06 39 23. m = 4.5, M_L = 3.3 (Up,Ki,Sk, Ud,De).			
"	3	Ud	iP	10 03 43.4	
"	3	Ud	iPKPl	12 23 23.3	
		De	iPKPl	12 23 34.2 D	
"	3	Up	iSgl	13 59 48.0	
		Ud	iRg	14 00 13.3	
		De	i(Rg)	14 00 40.5	
		Regional near-surface event.			
"	3	Up	iRg	14 16 20.4	
		Ud	i	14 16 34.4	
			iRg	14 16 39.8	
		De	iRg	14 16 58.4	
		Regional near-surface event.			
"	3	Up	iP	14 45 17.2	
		Ki	iP	14 44 34.5	
		Sk	iP	14 45 09.3	
		Ud	iP	14 45 23.7	
		De	eP	14 45 40	
		Japan (h = 80 km).			
"	3	Ki	i(Sgl)	15 12 31.3	
		Sk	i(Sgl)	15 13 12.2	
"	3	Up	iPgl	15 42 15.9	
			iSgl	15 42 33.0	
			i	15 42 36.4	
			iRg	15 42 41.6	
		Sk	iSgl	15 43 48.8	
		Ud	iSgl	15 42 13.2	
			iRg	15 42 17.3	
		De	iSgl	15 43 48.9	
		Bergslagen, Sweden, near 60°N, 15°E. Origin time = 15 41 54. m = 4.0, M_L = 2.2 (Ud).			
		Near-surface event.			

1975 Apr.	3	Up	iP	16 26 19.7	
		Ud	iP	16 26 27.4	
		De	eP	16 26 46	
		Kurile Islands (h = N).			
"	3	Ud	eP	17 25 27	
"	3	Ud	iP	20 40 46.6	
"	3	Up	iPKPl	21 26 18.2	
		Sk	ePKPl	21 26 12	
		Um	iPKPl	21 26 12.4 C	
		Ud	iPKPl	21 26 20.0	
			i	21 26 24.0	
		De	iPKPl	21 26 31.3	
		Kermadec Islands (h = 50 km).			
"	3	Ud	iP	22 55 10.3	
"	4	Ud	iP	00 43 14.2	
		Luzon (h = 15 km).			
"	4	Up	iP	02 30 27.9	
		Sk	iP	02 31 07.0	
		Ud	iP	02 30 34.9	
		De	eP	02 30 02	
		Crete (h = N).			
"	4	Sk	iP	02 59 50.1	
		Ud	iP	02 59 17.7	
		Greece (h = N).			
"	4	Ud	iP	04 28 31.6	
		Kurile Islands (h = 40 km).			
"	4	Ud	iP	04 56 34.9	
"	4	Up	iP	05 21 05.6	
			i	05 21 07.3 D	
			iS	05 24 59	
				micr	sec
			P Z'	0.5	0.9
			Mx E	1.5	8
			Mx N	2.1	12
			Mx Z	4.3	14
		Ki	iP	05 22 18.9	
			i	05 22 33.7	
			iS	05 27 08	
				micr	sec
			P Z'	0.1	1.1
			i Z'	0.2	1.2
			Mx E	1.4	10
			Mx N	1.7	16
			Mx Z	1.1	10
		(cont.)			

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

1975 Apr. 4 (cont.)

Sk	iP	05 21 45.9	D
	i	05 21 47.4	
	i	05 21 59.0	
Um	iP	05 21 42.3	
	i	05 21 43.9	D
	i	05 21 57.2	
Ud	iP	05 21 11.9	D
	i	05 21 13.6	D
	iS	05 25 15.3	
De	iP	05 20 35.5	D
	i	05 20 36.6	D
	iS	05 24 09.1	

Greece (h = 55 km).
m = 5.8, M = 5.0 (Up,Ki).
Multiple P with arrivals in average 1.5 and 14.3 sec after the first onset.

" 4

Ki	iP	06 06 01.6

New Guinea (h = N).

" 4

Ud	iPKPl	06 14 40.2

" 4

Sk	iP	09 15 21.0
Ud	iP	09 14 42.2

Italy (h = N).

" 4

Up	iPKP		11 31 45.9	
	iPKPl		11 31 50.4	
			micr	sec
	PKPl	Z'	0.3	1.0
Ki	iPKP		11 31 28.7	
			micr	sec
	PKP	Z'	0.1	1.2
Sk	iPKP		11 31 43.4	
	iPKPl		11 31 44.8	
Um	iPKPl		11 31 38.6	C
	iPP		11 35 11.0	
Ud	iPKP		11 31 47.8	
	iPKPl		11 31 52.3	
De	iPKP		11 31 55.6	
	iPKPl		11 32 00.5	

Kermadec Islands (h = 45 km).

" 4

Ki	iP	13 44 34.2

" 4

Sk	eP	14 49 09
Um	i(P)	14 49 36.6

Guatemala (h = 140 km).

" 4

Up	iP		17 53 43.8	C
	iS		18 04 01	
			micr	sec
	P	Z'	0.1	1.3

(cont.)

1975 Apr. 4 (cont.)

Up			micr	sec
	Mx	E	1.0	17
	Mx	N	1.0	18
	Mx	Z	1.2	18
Ki			micr	sec
	Mx	E	1.0	14
	Mx	N	1.1	15
	Mx	Z	1.4	17

Sk	iP	17 54 05.3	
	i	17 54 28.0	
Um	iP	17 53 59.1	C
	iS	18 04 22	
Ud	iP	17 53 49.4	C
De	iP	17 53 33.2	

Madagascar (h = N).
M = 5.4 (Up,Ki).

" 4

Sk	e(pPKP)	21 13 41	
Um	iPKP	21 13 33.6	
Ud	ePKP	21 13 26	

South Atlantic Ocean (h = N).

" 4

Ud	iP	22 54 01.0

" 5

Um	iP	00 11 45.4

" 5

Ud	iP	00 27 30.8

" 5

Up	iP	03 35 29.9
Sk	iP	03 36 09.2
Um	iP	03 36 14.0
	i	03 36 38.1
Ud	iP	03 35 37.0
De	eP	03 35 04

Greece (h = 120 km).

" 5

Ki	iSgl	03 42 41.3
Sk	iSgl	03 42 47.3
	i	03 42 52.6
Um	iSgl	03 43 10.0

Nordland, Norway.
m = 4.0, M_L = 2.1 (Ki,Sk,Um).
Explosion?

" 5

Ud	iPKPl	09 00 47.8

Tonga-Kermadec Islands (h = 560 km).

" 5

Up	iP		09 46 45.3	
	iS		09 56 45	
			micr	sec
	P	Z'	0.1	1.3
	Mx	E	2.3	20
	Mx	N	2.8	22
	Mx	Z	3.8	19

(cont.)

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

1975 Apr. 5 (cont.)

Ki	iP		09 46 50.3	
	i		09 47 02.8	
			micr	sec
	P	Z'	0.2	1.3
	i	Z'	0.3	1.3
	Mx	E	2.6	20
	Mx	N	1.6	19
	Mx	Z	1.1	18
Sk	iP		09 46 30.7	
Um	iP		09 46 49.9	
	i		09 47 00.2	
	iS		09 56 52	
Ud	iP		09 46 33.6	
De	iP		09 46 35.6	

Venezuela (h = N).
m = 6.0, M = 5.8 (Up,Ki).

" 5 Ud iP 10 55 20.2

" 5 Up iP 17 03 19.8 C
ipP 17 03 31.0
iS 17 11 56.7

		micr	sec
P	Z'	1.4	1.5
pP	Z'	0.3	1.0
Mx	E	2.8	21
Mx	N	2.9	20
Mx	Z	5.4	20

Ki iP 17 02 26.9 C
ipP 17 02 37.5

		micr	sec
P	Z'	0.5	1.2
pP	Z'	0.3	1.0
Mx	E	4.8	18
Mx	N	4.0	17
Mx	Z	4.4	15

Sk iP 17 03 03.2 C
Um iP 17 02 52.1 C
ipP 17 03 03.0
Ud iP 17 03 23.4 C
ipP 17 03 34.5
De iP 17 03 45.2 C
ipP 17 03 56.3

Kamchatka.
h = 40 km (Up,Ki,Um,Ud,De).
m = 6.7, M = 5.7 (Up,Ki).

" 5 Up iP 18 00 31.0 C
ipP 18 00 37.9
iS 18 09 06.0

		micr	sec
P	Z'	0.9	1.3
pP	Z'	1.3	1.3
Mx	E	4.3	22

(cont.)

1975 Apr. 5 (cont.)

Up			micr	sec
	Mx	N	6.8	19
	Mx	Z	8.9	20
Ki	iP		17 59 37.9 C	
	ipP		17 59 45.1	
			micr	sec
	P	Z'	0.6	1.4
	pP	Z'	0.6	1.2
	Mx	E	6.0	18
	Mx	N	7.1	23
	Mx	Z	3.8	18
Sk	iP		18 00 14.4 C	
	ipP		18 00 21.1	
Um	iP		18 00 02.6 C	
	ipP		18 00 09.6	
Ud	iP		18 00 34.9 C	
	ipP		18 00 41.9	
De	iP		18 00 55.9 C	
	ipP		18 01 02.8	

Kamchatka.
h = 25 km (Up,Ki,Sk,Um,Ud, De).
m = 6.7, M = 6.0 (Up,Ki).

" 5 Up iP 19 56 48.5
Sk iP 19 56 22.3
Um iP 19 56 34.1
Ud iP 19 56 40.9

Nevada.
Underground explosion.

" 5 Up iP 20 10 53.6
Ud iP 20 11 09.8
i 20 11 31.3

Sumatra.

" 5 Up iP 20 37 25.3
Ki iP 20 36 54.5
Um iP 20 37 07.5
Ud iP 20 37 32.4 C

Volcano Islands (h = 160 km).

" 5 Up iP 20 50 50.6

		micr	sec
P	Z'	0.1	0.9
Mx	E	1.9	24
Mx	N	1.0	22
Mx	Z	2.5	23

Ki iP 20 50 50.8

		micr	sec
P	Z'	0.1	0.9
Mx	E	3.0	23
Mx	N	2.0	21
Mx	Z	4.1	22

(cont.)

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

1975
Apr. 5 (cont.)

	Sk	iP	20 50 36.1
	Um	iP	20 50 53.7
	Ud	iP	20 50 40.1
	De	iP	20 50 42.7

Colombia (h = 50 km).
m = 5.8, M = 5.7 (Up,Ki).

" 5

Up	iP		22 04 22.4
	i		22 04 36.0
Ud	eP		22 04 31

" 5

Up	iP		22 42 42.0
Ki	iP		22 41 48.3
Um	iP		22 42 13.9
Ud	iP		22 42 46.3

Kamchatka.

" 6

Up	iPKPl		00 30 31.8
Ud	iPKPl		00 30 34.7 D
De	iPKPl		00 30 45.6 D

Tonga-Kermadec Islands
(h = 460 km).

" 6

Up	iSKPl		02 46 41.6
Um	iPKP		02 43 19.8
Ud	iSKPl		02 46 45.7

New Hebrides Islands
(h = 140 km).

" 6

Um	iP		05 03 10.9
	i		05 03 15.0
Ud	eP		05 02 55

Congo (h = 35 km).

" 6

Up	iP		05 58 58.7
Ki	iP		05 58 05.4
Sk	iP		05 58 42.1
Um	iP		05 58 31.1
Ud	eP		05 59 00
De	iP		05 59 22.8

Kamchatka (h = N).

" 6

Up	iPKPl		07 21 59.0
Sk	iPKPl		07 21 51.7
Um	iPKPl		07 21 46.6 C
Ud	iPKPl		07 22 00.2
De	iPKPl		07 22 08.2

Kermadec Islands.

" 6 Ud eP 07 42 47

" 6

Um	iP		09 17 09.9
Ud	iP		09 17 28.2

(cont.)

1975
Apr. 6 (cont.)

De	eP		09 17 26

Afghanistan-USSR
(h = 220 km).

" 6

Up	iP		10 05 52.1	C
	ipP		10 06 02.8	
	iS		10 14 26	
			micr	sec
	P	Z'	0.9	1.1
	Mx	E	20	21
	Mx	N	29	18
	Mx	Z	43	19
Ki	iP		10 04 58.8	C
			micr	sec
	P	Z'	0.5	1.1
	Mx	E	32	19
	Mx	N	29	19
	Mx	Z	25	16
Sk	iP		10 05 35.7	
Um	iP		10 05 23.9	C
	iS		10 13 29	
Ud	iP		10 05 55.5	C
	iS		10 14 39.4	
De	iP		10 06 16.9	C

Kamchatka.
h = 40 km (Up).
m = 6.7, M = 6.6 (Up,Ki).

" 6

Um	iP		10 24 41.5
Ud	iP		10 24 59.2

Hindu Kush (h = 150 km).

" 6

Up	iP		10 45 29.2	C
	iS		10 54 05.1	
			micr	sec
	P	Z'	4.3	1.8
	Mx	E	19	22
	Mx	N	26	18
	Mx	Z	33	18
Ki	iP		10 44 36.7	C
			micr	sec
	P	Z'	1.4	1.5
	Mx	E	35	18
	Mx	N	22	16
	Mx	Z	19	17
Sk	iP		10 45 12.8	C
Um	iP		10 45 01.5	C
Ud	iP		10 45 33.2	C
	iS		10 54 07.6	
De	iP		10 45 54.4	C

Kamchatka (h = N).
m = 7.1, M = 6.6 (Up,Ki).

" 6 Ud iP 11 09 57.4

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

1975 Apr.	6	Ud	iP	11 19 50.0	
"	6	Up	iP	13 46 29.8	
		Ki	iP	13 45 37.6	
			ipP	13 45 48.7	
		Sk	iP	13 46 14.9	
		Um	iP	13 46 03.3	
		Ud	iP	13 46 34.5	
		De	iP	13 46 55.7	
		Kamchatka.			
		h = 40 km (Ki).			
"	6	Up	iP	13 56 12.3	
		Ki	iP	13 55 18.6	
		Sk	eP	13 55 57	
		Um	iP	13 55 43.9	
		Ud	iP	13 56 16.1	
		De	iP	13 56 37.2	
		Kamchatka (h = N).			
"	6	Ud	iP	15 29 20.7	
			ipP	15 29 49.9	
		Aleutian Islands.			
		h = 120 km (Ud).			
"	6	Up	iP	15 47 23.8	
				micr sec	
			P Z'	0.2 1.5	
		Ki	iP	15 46 30.6	
		Um	iP	15 46 55.6	
		Ud	iP	15 47 28.1	
		Kamchatka (h = N).			
"	6	Ud	iP	17 16 03.0	
"	6	Ud	iP	19 34 02.6	
"	7	Ud	eP	01 43 31	
"	7	Up	iP	01 58 28.4	
		Ud	iP	01 58 22.4	
		Queen Charlotte Islands			
		(h = N).			
"	7	Up	iP	03 39 47.3	
			ipP	03 39 57.7	
				micr sec	
			P Z'	0.1 1.3	
		Ki	iP	03 38 54.2	
		Um	iP	03 39 19.9	
			ipP	03 39 29.9	
		Ud	iP	03 39 52.0	
		De	iP	03 40 12.1	
		Kamchatka.			
		h = 40 km (Up,Um).			

1975 Apr.	7	Ki	iP	06 49 07.5	
		Sk	iP	06 49 24.9	
		Um	iP	06 48 58.3	C
		Ud	iP	06 49 16.6	
		Pakistan (h = 35 km).			
"	7	Up	iPKPl	07 02 37.1	
		Ud	iPKPl	07 02 38.4	
"	7	Up	iP	08 13 46.9	C
			ipP	08 13 57.2	
				micr sec	
			P Z'	0.1 0.8	
		Ki	ipP	08 14 00.1	
				micr sec	
			pP Z'	0.3 1.0	
		Sk	eP	08 14 03	
			epP	08 14 13	
		Um	iP	08 13 44.7	C
			ipP	08 13 53.6	
		Ud	iP	08 13 57.1	C
			ipP	08 14 07.2	
		De	iP	08 13 55.4	C
			ipP	08 14 05.0	
		Sumatra.			
		h = 35 km (Up,Um,Ud,De).			
		m = 6.4 (Up,Ki).			
"	7	Up	iPKP	08 24 45.7	
		Um	iPKP	08 25 00.5	
		Ud	iPKP	08 24 46.5	
		South Atlantic Ocean (h = N).			
"	7	Ki	iP	15 34 26.1	
		Ud	iP	15 34 50.9	
		Mindanao (h = 590 km).			
"	7	Up	iP	18 01 31.1	
			ipP	18 01 41.7	
				micr sec	
			P Z'	0.3 1.3	
		Ki	iP	18 00 37.5	
				micr sec	
			P Z'	0.1 0.9	
		Sk	eP	18 01 16	
		Um	iP	18 01 03.3	C
		Ud	iP	18 01 35.3	
		De	iP	18 01 55.7	
		Kamchatka.			
		h = 40 km (Up).			
		m = 6.1 (Up,Ki).			
"	7	Ki	iP	22 26 49.9	
		Um	iP	22 26 55.0	
		Ud	iP	22 27 14.1	
		Tanimbar Islands (h = N).			

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

1975 Apr.	7	Ki	iP		22 58 45.8	
		Azores Islands (h = N).				
"	7	Ki	iP		23 32 46.4	
		Azores Islands (h = N).				
"	8	Um	iP		00 48 41.1	
		Ud	iP		00 48 52.4	
		Pakistan (h = 25 km).				
"	8	Ki	iP		01 58 32.7	
			i		01 58 37.6	
					micr sec	
			P	Z'	0.1 1.0	
		Sk	iP		01 57 57.9	
		Um	iP		01 58 27.5	
		Ud	iP		01 57 47.4	
			i		01 57 53.0	
		Azores Islands (h = N).				
"	8	Ki	iP		03 35 24.4	
		Sk	iP		03 34 49.6	
		Azores Islands (h = N).				
"	8	Up	iP		06 38 35.4	C
			ipP		06 38 47.7	
					micr sec	
			P	Z'	0.8 1.3	
			Mx	E	1.7 15	
			Mx	N	2.1 17	
			Mx	Z	3.4 18	
		Ki	iP		06 37 55.4	C
			ipP		06 38 08.1	
			iPP		06 40 16.7	
					micr sec	
			P	Z'	0.8 1.9	
			Mx	E	3.2 16	
			Mx	N	2.6 17	
			Mx	Z	3.7 16	
		Sk	iP		06 38 29.1	C
			iPP		06 41 06.0	
		Um	iP		06 38 13.2	C
		Ud	iP		06 38 42.5	C
			ipP		06 39 56.0	
		De	iP		06 38 57.7	C
			ipP		06 39 10.6	
			iPP		06 41 39.4	
		Japan.				
		h = 50 km (Up,Ki,Ud,De).				
		m = 6.4, M = 5.7 (Up,Ki).				
"	8	Ki	iP		06 50 29.1	
		Azores Islands (h = N).				
"	8	Ki	iP		08 26 41.8	
		Azores Islands (h = N).				
1975 Apr.	8	Ki	iP		08 33 01.6	
		Azores Islands (h = N).				
"	8	Up	iP		11 43 33.1	
					micr sec	
			P	Z'	0.1 1.0	
		Ki	iP		11 43 56.1	
			i		11 44 00.4	
					micr sec	
			P	Z'	0.2 1.1	
		Sk	iP		11 43 20.3	
		Um	iP		11 43 51.0	
			i		11 43 56.0	
		Ud	iP		11 43 11.8	
			i		11 43 16.2	
		Azores Islands (h = N).				
		m = 5.8 (Up,Ki).				
		Double P, in average 4.6 sec apart.				
"	8	Ud	i(P)		14 40 14.5	
"	8	Ud	i(P)		15 43 27.4	
"	8	Ki	iP		16 23 36.3	
			i		16 23 41.4	
		Um	iP		16 23 31.6	
		Azores Islands (h = N).				
"	8	Up	iP		17 12 40.1	
			ipP		17 12 49.5	
		Ki	iP		17 11 45.0	
		Um	iP		17 12 10.9	
			ipP		17 12 18.1	
		Ud	iP		17 12 44.1	
			ipP		17 12 51.9	
		De	ipP		17 13 13.6	
		Kamchatka.				
		h = 30 km (Up,Um,Ud).				
"	8	Ud	iP		19 31 01.7	
		Pamir.				
"	8	Up	iP		20 43 25.1	
			ipP		20 43 34.7	
		Ki	iP		20 42 32.7	
			ipP		20 42 42.1	
					micr sec	
			P	Z'	0.1 0.7	
		Sk	iP		20 43 02.2	
			ipP		20 43 12.1	
		Um	iP		20 42 59.3	
			ipP		20 43 09.0	
		Ud	iP		20 43 23.7	
			ipP		20 43 33.7	
		De	iP		20 43 46.6	

(cont.)

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

1975 Apr.	8	(cont.)				
		De	ipP	20 43 56.4		
		Aleutian Islands.				
		h = 35 km (Up,Ki,Sk,Um,Ud, De).				
"	8	Up	eP	21 42 40		
		Ki	iP	21 41 47.0		
		Um	iP	21 42 11.5		
		Ud	iP	21 42 44.4		
		Kamchatka (h = N).				
"	8	Up	iP	22 01 20.2	C	
			ipP	22 01 29.3		
				micr	sec	
			P	Z' 0.1	0.9	
			pP	Z' 0.1	1.3	
		Ki	iP	22 00 27.9	C	
			ipP	22 00 38.6		
				micr	sec	
			P	Z' 0.1	0.9	
		Sk	eP	22 01 06		
		Um	iP	22 00 52.9	C	
			ipP	22 01 03.6		
		Ud	iP	22 01 24.2		
		De	iP	22 01 45.3		
		Kamchatka.				
		h = 40 km (Up,Ki,Um).				
		m = 5.9 (Up,Ki).				
"	8	Ki	iP	23 47 34.7		
		Um	iP	23 48 00.0		
		Kamchatka (h = N).				
"	9	Up	iP	03 37 43.2		
		Ki	iP	03 37 44.0		
		Um	iP	03 37 32.9		
		Ud	iP	03 37 55.6		
		Tibet (h = N).				
"	9	Um	iP	03 57 13.3		
"	9	Up	ePKP	06 44 48		
			iPP	06 45 47.9		
				micr	sec	
			PP	Z' 0.5	1.8	
			Mx	E 2.0	15	
			Mx	N 2.5	20	
			Mx	Z 4.0	21	
		Ki	iPKP	06 44 39.3		
			iSKS	06 50 56		
				micr	sec	
			Mx	E 2.2	17	
			Mx	N 4.3	22	
			Mx	Z 4.2	21	
		(cont.)				

1975 Apr.	9	(cont.)				
		Sk	iPKP	06 44 46.4		
			iPP	06 45 37.4		
		Um	i(PKP)	06 44 41.3		
			iPKP	06 44 44.3		
			i(PP)	06 45 14.7		
			iPP	06 45 24.1		
			iSKS	06 51 10		
		Ud	iPKP	06 44 49.7		
			i(PP)	06 45 41.9		
			iPP	06 45 56.6		
		De	iPKP	06 44 54.9		
			ipPKP	06 45 32.1		
		New Britain.				
		h = 140 km (De).				
		M = 6.1 (Up,Ki).				
		M uncorrected for focal depth.				
"	9	Ud	iP	11 04 28.8		
"	9	Um	iP	11 33 57.3		
"	9	Up	iP	15 16 09.9		
			ipP	15 16 20.3		
				micr	sec	
			P	Z' 0.1	1.1	
		Ki	iP	15 15 50.9		
			ipP	15 16 00.8		
				micr	sec	
			P	Z' 0.1	1.0	
		Um	iP	15 15 57.4		
			ipP	15 16 08.0		
		Ud	iP	15 16 18.1		
			ipP	15 16 28.7		
		Samar.				
		h = 40 km (Up,Ki,Um,Ud).				
		m = 6.0 (Up,Ki).				
"	9	Up	iSgl	15 36 11.5		
		Ud	iPn	15 35 30.2		
			iSn	15 36 01.9		
			iSgl	15 36 05.8		
		De	iSgl	15 35 28.8		
			iRg	15 35 36.9		
		Småland, Sweden, 57.7°N, 14.7°E.				
		Origin time = 15 34 50.				
		m = 3.9, M_L = 2.0 (Up,Ud,De).				
		Near-surface event.				
"	9	Um	iPKPl	15 41 45.3		
"	9	Ud	iPKPl	19 27 36.5	C	
		De	iPKPl	19 27 47.4		

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

1975					
Apr.	9	Um	iP		20 05 36.3
		NE China.			
"	9	Ki	iP		21 15 39.6
		Kurile Islands (h = 90 km).			
"	9	Up	iP		21 54 24.3
		Ki	iP		21 54 27.8
		Um	iP		21 54 20.4
			i		21 54 28.8
		Ud	iP		21 54 41.0
		Tibet-India (h = N).			
"	9	Up	iP		22 33 01.6
			iPP		22 34 35.6
				micr	sec
			P Z'	0.1	0.9
		Ki	iP		22 33 06.8
				micr	sec
			P Z'	0.2	0.9
		Sk	iP		22 33 25.9 D
			iPP		22 35 05.2
		Um	iP		22 32 58.3 D
			iPP		22 34 27.4
		Ud	iP		22 33 18.5 D
			iPP		22 34 56.3
		De	iP		22 33 16.3 D
			iPP		22 34 55.5
		Tadzhik SSR (h = 80 km).			
		m = 5.8 (Up,Ki).			
"	10	Ud	iPKP1		00 31 42.5
"	10	Ki	iP		00 38 36.1
		Um	iP		00 39 01.5
		Ud	iP		00 39 35.6
		Kamchatka (h = N).			
"	10	Up	iP		02 33 37.5
		Ki	iP		02 32 44.6
		Um	iP		02 33 09.6
		Ud	iP		02 33 43.4
		De	iP		02 34 04.1
		Kamchatka (h = N).			
"	10	Um	iPKP1		10 57 23.2
"	10	Ud	iP		11 49 17.0
"	10	Ki	iP		13 30 40.7
			ipP		13 30 51.4
		Um	iP		13 31 06.6
			ipP		13 31 16.0
		Ud	eP		13 31 43
		Kamchatka.			
		h = 35 km (Ki,Um).			

1975					
Apr.	10	Ud	iP		15 08 03.7
"	10	Um	iPKP		15 38 22.0
		Ud	iPKP		15 38 31.8
		De	iPKP		15 38 37.0
		Solomon Islands (h = 150 km).			
"	10	Up	Mx		16 52
				micr	sec
			Mx E	0.9	19
			Mx N	0.8	19
			Mx Z	1.3	19
		Ki	Mx		16 49
				micr	sec
			Mx E	1.1	20
			Mx N	0.8	19
			Mx Z	1.1	19
		Indian Ocean (h = N).			
		M = 5.6 (Up,Ki).			
"	10	Um	iPKP		17 09 18.7
		Loyalty Islands (h = 110 km).			
"	10	Um	iPKP		18 31 16.6
		Ud	iPKP		18 31 22.6
		Samoa Islands (h = 15 km).			
"	10	Ki	eP		20 30 34
"	11	Up	iPKP		00 30 11.6
			iPKP1		00 30 13.6
			iX		00 30 16.2
			iY		00 30 18.2
				micr	sec
			PKP1 Z'	0.1	1.0
			Y Z'	0.7	1.5
			Mx E	2.7	20
			Mx N	2.4	19
			Mx Z	5.4	20
		Ki	iPKP		00 30 10.4
			iPKP1		00 30 12.0
				micr	sec
			PKP1 Z'	0.5	1.3
			Mx E	3.0	19
			Mx N	4.3	22
			Mx Z	5.8	22
		Sk	iPKP		00 30 17.3
			iPKP1		00 30 19.9
			iX		00 30 21.5
			iY		00 30 24.2
		Um	iPKP		00 30 09.8
			iPKP1		00 30 11.5
		Ud	iPKP		00 30 15.4
			iPKP1		00 30 18.8
			iX		00 30 21.3
			iY		00 30 24.9

(cont.)

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

1975
Apr. 11 (cont.)

	De	iPKP	00 30 13.9
		iPKP1	00 30 16.5
		iX	00 30 17.8
		iY	00 30 20.2

South of Australia (h = N).
M = 6.3 (Up,Ki).
Interpreted as two shocks, about 4.7 sec apart.
PKP, PKP1 refer to the first shock, while X, Y are the corresponding phases of the second shock.

" 11	Ki	iPKP1	00 33 50.2
	Sk	iPKP1	00 33 59.7
	Um	iPKP1	00 33 49.6
	Ud	iPKP1	00 33 59.1

South of Australia.
Origin time = 00 14 14.

" 11	Up	iPKP	00 41 08.4	
		iPKP1	00 41 10.8	
			micr	sec
		PKP1 Z'	0.1	1.3
	Ki	iPKP1	00 41 08.6	
			micr	sec
		PKP1 Z'	0.3	1.5
	Sk	iPKP	00 41 17.5	
		iPKP1	00 41 19.0	
	Um	iPKP	00 41 07.5	
		iPKP1	00 41 09.0	
	Ud	iPKP	00 41 19.2	
		iPKP1	00 41 20.6	
	De	iPKP1	00 41 13.8	

South of Australia.
Origin time = 00 21 34.

" 11	Um	eP	00 55 48

South of Panama (h = N).

" 11	Up	iP	01 54 24.9
	Ki	iP	01 53 30.6
	Ud	eP	01 54 27
	De	iP	01 54 48.5

Kamchatka (h = N).

" 11	Ki	iPKP1	05 18 34.2
	Ud	iPKP1	05 18 45.3

South of Australia.
Origin time = 04 59 00.

" 11	Up	iP	10 58 03.3 C
		iPcP	10 58 30.5

(cont.)

1975
Apr. 11 (cont.)

	Up		micr	sec
		P Z'	0.1	0.9
		Mx E	0.9	19
		Mx N	1.3	24
		Mx Z	1.6	23
	Ki	iP	10 57 09.5	C
		iPcP	10 58 00.5	
			micr	sec
		P Z'	0.3	0.9
		Mx E	0.6	16
		Mx N	0.7	18
		Mx Z	0.9	17
	Sk	iP	10 57 38.7	C
		iPcP	10 58 17.8	
	Um	iP	10 57 36.5	C
		iPcP	10 58 17.0	
		iP'P'	11 26 43.0	
	Ud	iP	10 58 01.8	C
		iPcP	10 58 32.2	
	De	iP	10 58 24.5	C

Unimak Island (h = 20 km).
m = 6.2, M = 5.1 (Up,Ki).

" 11	Up	iPKP	12 00 53.4	
		iSKP1	12 03 44.4	
			micr	sec
		SKP1 Z'	0.1	1.5
	Ki	iSKP1	12 03 14.7	
	Sk	iPKP	12 00 48.4	
	Um	iSKP1	12 03 32.7	
	Ud	iPKP	12 00 54.0	
		iSKP1	12 03 46.3	
	De	iPKP1	12 01 03.6	

Fiji Islands (h = 570 km).

" 11	Ki	iP	14 33 46.2	
	Um	iP	14 33 22.2	
	Ud	iP	14 33 24.6	C
	De	iP	14 33 08.7	C

Iran (h = 50 km).

" 11	Ud	iP	16 30 36.7

Hindu Kush.
Intermediate depth.

" 11	Um	iP	18 38 44.9

Talaud Islands (h = 90 km).

" 11	Up	iP	19 50 24.9
	Ki	iP	19 50 09.0
	Sk	iP	19 50 06.0
	Um	iP	19 50 18.4

Mexico (h = 210 km).

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

1975 Apr.	11	Up	iP	20 09 07.2	
		Ki	iP	20 08 12.2	
		Um	iP	20 08 38.5	
		Ud	iP	20 09 11.9	
		De	eP	20 09 31	
		Kamchatka (h = N).			
"	11	Um	iP	20 59 36.6	
		Japan (h = 60 km).			
"	11	Ki	eP	21 10 20	
		Um	iP	21 10 46.8	C
			ipP	21 10 57.1	
		Ud	iP	21 11 11.1	C
			ipP	21 11 21.4	
		Aleutian Islands.			
		h = 40 km (Um,Ud).			
"	11	Up	iP	22 27 13.1	C
		Ki	iP	22 26 34.7	
		Sk	iP	22 27 07.8	
		Um	iP	22 26 51.4	C
		Ud	iP	22 27 20.4	C
		De	iP	22 27 34.8	C
		Japan (h = 70 km).			
"	11	Ud	iP	23 57 51.6	
		De	eP	23 57 51	
"	12	Up	iPKPl	00 53 36.7	
		Um	iSKPl	00 56 19.5	
		Ud	iPKPl	00 53 39.0	
			i	00 56 15.9	
		De	iPKPl	00 53 48.7	
		Tonga-Kermadec Islands.			
"	12	Up	iP	01 10 44.9	
		Um	iP	01 10 34.2	
		Ud	iP	01 10 59.1	
		Nepal.			
"	12	Um	iP	01 13 30.5	
		Japan (h = 60 km).			
"	12	Ud	iPKPl	03 00 22.2	
"	12	Up	eP	04 20 52	
		Ki	iP	04 21 26.5	
		Um	iP	04 21 07.0	
			i	04 21 10.5	
		Ud	iP	04 21 08.7	
		De	iP	04 20 55.2	
		Iran (h = 40 km).			
"	12	Up	iPKP	07 00 21.3	
		Um	iPKP	07 00 13.5	

1975 Apr.	12	Up	iP	09 39 08.8	C
		Ud	iP	09 39 20.3	
		Szechwan, China (h = 20 km).			
"	12	Ud	iP	10 26 21.7	
"	12	Up	iRg	11 14 49.2	
		Ud	iRg	11 14 36.2	
		Central Sweden.			
		Near-surface event.			
"	12	Um	iP	13 24 20.3	
		Ud	iP	13 23 53.4	
		North Atlantic Ocean (h = N).			
"	12	Um	iSKPl	14 46 49.6	
		Fiji Islands (h = 560 km).			
"	12	Ki	iP	15 47 07.6	
		Peru (h = 80 km).			
"	12	Up	iP	16 51 37.3	
		Ki	iP	16 52 50.6	
		Sk	iP	16 52 11.8	
		Um	iP	16 52 15.8	C
		Ud	iP	16 51 38.3	C
		De	iP	16 51 00.9	
		Sicily (h = 170 km).			
"	12	Ki	iP	17 23 04.3	
		Ud	iP	17 23 30.5	
		Luzon (h = 20 km).			
"	12	Up	iPKPl	21 08 48.1	D
			i	21 08 58.2	
				micr sec	
			PKPl Z'	0.1 0.9	
		Um	iPKPl	21 08 39.6	
		Ud	iPKPl	21 08 50.3	D
			ipPKPl	21 09 34.3	
		De	iPKPl	21 09 00.4	D
			ipPKPl	21 09 46.1	
		Tonga-Kermadec Islands.			
		h = 170 km (Ud,De).			
"	13	Up	iP	00 30 32.0	
		Ki	iP	00 29 51.9	
		Sk	iP	00 30 25.5	
		Um	iP	00 30 09.5	C
		Ud	iP	00 30 38.8	
		Japan (h = 50 km).			
"	13	Up	iP	01 47 27.6	C
			ipP	01 48 31.1	
				micr sec	
			P Z'	0.3 1.4	

(cont.)

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

1975 Apr.	13	(cont.)				
		Up			micr	sec
			Mx	E	1.8	23
			Mx	N	1.6	18
			Mx	Z	2.5	23
		Ki	iP		01 47 11.5	C
			ipP		01 48 12.5	
					micr	sec
			P	Z'	0.4	1.4
			Mx	E	2.4	18
			Mx	N	1.4	16
			Mx	Z	2.6	19
		Sk	iP		01 47 32.8	
		Um	iP		01 47 16.9	C
			ipP		01 48 18.9	
			iS		01 57 26	
		Ud	iP		01 47 35.6	
		De	iP		01 47 41.4	
		Mindanao.				
		h = 260 km (Up,Ki,Um).				
		m = 6.2, M = 5.7 (Up,Ki).				
		M uncorrected for focal depth.				
"	13	Up	iP		02 06 03.2	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		02 06 05.0	
			ipP		02 06 42.8	
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		02 05 50.5	
		Um	iP		02 06 06.8	
		Ud	iP		02 05 53.3	
		Colombia.				
		h = 150 km (Ki).				
		m = 5.6 (Up,Ki).				
"	13	Ki	eP		07 45 01	
		Um	iP		07 45 21.5	
"	13	Sk	iP		13 44 16.4	
		Ud	iP		13 44 11.2	
"	13	Ki	iP		14 35 54.2	
		Ud	iP		14 36 03.5	
		Sumatra (h = 40 km).				
"	13	Ud	iP		15 10 03.2	
		Uzbekh SSR.				
"	14	Ud	iPKP1		00 17 54.2	
"	14	Ki	iP		00 19 31.2	
		(cont.)				

1975 Apr.	14	(cont.)		
		Ud	iP	00 19 19.4
		Colombia (h = 160 km).		
"	14	Um	iPKP1	00 21 19.6
		Ud	iPKP1	00 21 32.6
"	14	Ki	iP	04 04 53.8
		Ud	iP	04 05 19.6
		Mindanao (h = 40 km).		
"	14	Ud	iP	05 43 59.1
		Japan (h = 40 km).		
"	14	Up	i(P)	07 26 04.9
"	14	Ki	iP	07 41 58.4
		Sk	iP	07 42 21.1
		Um	iP	07 42 04.2
		Ud	iP	07 42 22.4
		Molucca Passage (h = 45 km).		
"	14	Ud	iP	11 05 41.4
"	14	Ud	iP	11 43 24.5
			i	11 43 28.5
		Formosa (h = 45 km).		
"	14	Up	iP	13 06 26.0 C
		Ki	iP	13 06 34.5
		Sk	iP	13 06 50.9
		Um	iP	13 06 24.2 C
		Ud	iP	13 06 42.6 C
		De	iP	13 06 39.2
		Hindu Kush (h = 230 km).		
"	14	Ud	iP	13 16 48.6
		Celebes (h = 70 km).		
"	14	Ud	i(P)	15 59 43.2
"	14	Um	iP	16 19 22.2
"	14	Up	iP	21 02 49.1 C
			ipP	21 02 59.2
		Ki	iP	21 01 56.0
			ipP	21 02 05.8
		Sk	iP	21 02 32.5
			ipP	21 02 42.9
		Um	iP	21 02 21.1 C
			ipP	21 02 31.4
		Ud	iP	21 02 51.7
			ipP	21 03 02.7
		De	eP	21 03 14
		(cont.)		

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

1975 Apr.	14	(cont.)				
		De	ipP	21 03 24.6		
		Kamchatka.				
		h = 40 km (Up,Ki,Sk,Um,Ud, De).				
"	15	Um	iP	00 29 18.1		
		Ud	iP	00 29 22.4		
		De	iP	00 29 20.5		
		Java.				
"	15	Up	iP	01 28 03.3		
		Ki	eP	01 27 16		
		Um	iP	01 27 37.7		
		Ud	iP	01 28 08.9		
		De	eP	01 28 28		
		Kurile Islands (h = N).				
"	15	Ud	iP	02 59 22.4		
		Indian Ocean.				
"	15	Up	iP	09 52 51.2		
		Ki	iP	09 53 06.4		
		Sk	iP	09 53 17.9		
		Um	iP	09 52 52.4		
		Ud	iP	09 53 06.2		
		Pakistan (h = N).				
"	15	Up	iP	09 59 30.2		
			i	09 59 57.3		
		Ki	iP	09 59 41.5		
			i	09 59 48.0		
				micr	sec	
			P Z'	0.1	1.0	
		Sk	iP	09 59 18.5		
			i	09 59 26.5		
		Um	eP	09 59 44		
			i	09 59 47.7		
			i	10 00 09.2		
		Ud	iP	09 59 19.3		
			i	09 59 25.9		
		Venezuela (h = 45 km).				
"	15	Up	iP	10 37 54.6		
		Ki	iP	10 38 01.9		
		Sk	iP	10 38 20.2		
		Um	iP	10 37 51.9		
		Ud	iP	10 38 10.6		
		De	iP	10 38 07.5		
		Afghanistan-USSR (h = 120 km).				
"	15	Ud	iPKP1	12 51 12.3		
		De	iPKP1	12 51 24.8		
		Fiji Islands (h = 620 km).				
1975 Apr.	15	Up	i(P)	12 59 16.1		
		Ud	i(P)	12 59 33.5		
"	15	Ud	iP	14 18 35.5		
"	15	Up	iSgl	17 54 21.7		
		Ki	iPn	17 50 50.0		
			iPgl	17 50 55.8		
			i	17 51 19.0		
			iSn	17 51 31.3		
			iSgl	17 51 46.2		
				micr	sec	
			Sgl Z'	0.1	0.6	
		Sk	iPn	17 51 06.5		
			iSn	17 52 00.2		
			i	17 52 07.5		
			iSgl	17 52 23.9		
		Um	iPn	17 51 21.3		
			i	17 51 29.4		
			iSn	17 52 23.8		
			iSgl	17 52 51.9		
		Ud	iSgl	17 54 03.2		
		Off coast of north Norway, 68.1°N, 11.5°E.				
		Origin time = 17 49 56.				
		m = 4.3, M_L = 2.8 (Up,Ki, Sk,Um,Ud).				
"	15	Ud	iP	20 31 25.4		
"	15	Up	iP	20 51 01.9		
		Ki	iP	20 50 09.3		
		Sk	eP	20 50 42		
		Um	iP	20 50 35.3		
		Ud	iP	20 51 03.2		
		Aleutian Islands (h = 140 km).				
"	15	Up	iP	21 16 14.8		
		Ud	iP	21 16 01.2		
"	15	Um	iP	22 49 46.6		
"	16	Um	iP	00 08 44.1		
		Ud	iP	00 08 06.1		
			i	00 08 12.7		
		Greece.				
"	16	Up	iP	01 31 02.8		
			iS	01 33 55.1		
				micr	sec	
			P Z'	3.0	1.1	
			Mx E	240	17	
			Mx N	180	20	
			Mx Z	160	18	
		(cont.)				

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

1975
Apr. 16 (cont.)

Ki	iP		01 29 57.7	
	iS		01 32 04	
			micr	sec
	P	Z'	5.1	1.0
	Mx	E	220	16
	Mx	N	310	18
	Mx	Z	220	16
Sk	iP		01 30 01.8	
	i		01 30 03.8	
	iS		01 32 05.8	
Um	iP		01 30 31.2	
Ud	iP		01 30 45.3	
	i		01 30 47.0	
De	iP		01 31 34.2	

Jan Mayen (h = 15 km).
m = 6.5, M = 6.5 (Up,Ki).

" 16 Ki ePKP 02 19 01
South of Africa (h = N).

" 16

Up	iP		03 03 48.4
Sk	eP		03 04 24
Um	iP		03 04 11.0
Ud	iP		03 03 59.3

Ethiopia (h = N).

" 16

Up			micr	sec
	Mx	E	0.8	20
	Mx	Z	1.4	20
Ki	iP		04 58 57.5	
			micr	sec
	Mx	E	0.6	16
	Mx	N	0.6	16
Sk	iP		04 58 46.5	
Um	iP		04 59 02.5	
	i		04 59 24.8	
	iPP		05 02 27.1	
Ud	iP		04 58 52.7	

Costa Rica (h = 70 km).
M = 5.2 (Up,Ki).

" 16

Up	iP		08 48 59.0
Ki	iP		08 48 40.8

" 16 Sk eP 11 36 23
Colombia (h = 160 km).

" 16

Ki	iP		11 57 24.7
Ud	iP		11 57 48.7

Mindanao (h = 80 km).

" 16

Up	iSgl		14 11 49.5
Sk	eSgl		14 12 06
Ud	iPgl		14 10 26.3

(cont.)

1975
Apr. 16 (cont.)

Ud	iSgl		14 10 48.5
De	iSgl		14 11 55.0

Southeast Norway,
59.7°N, 10.6°E.
Origin time = 14 09 58.
m = 3.8, M_L = 1.8 (Up,Ud).

" 16

Ud	iPKP1		14 27 24.9
De	iPKP1		14 27 34.4 C
	ipPKP1		14 27 47.2

Tonga Islands.
h = 45 km (De).

" 16 De ePKP1 15 59 22
ipPKP1 15 59 33.4
Tonga Islands (h = N).

" 16 Ud iP 16 31 41.5
Alaska Peninsula (h = 120 km).

" 16

Up	iP		18 57 53.1
	ipP		18 58 03.3
Ki	iP		18 57 34.5
Um	iP		18 57 40.6
	ipP		18 57 51.7
Ud	iP		18 58 01.1 C
	ipP		18 58 12.6

Samar.
h = 40 km (Up,Um,Ud).

" 16 Ud eP 19 44 01
Mindanao (h = 70 km).

" 16

Up	ePKP1		19 57 04
Ud	iPKP1		19 57 06.4
	i		19 57 17.0
De	iPKP1		19 57 18.4

Tonga-Kermadec Islands.

" 16

Ki	iP		21 34 20.7
Ud	iP		21 33 36.7
	i		21 33 49.7

" 16

Up	iP		21 44 12.8	
			micr	sec
	P	Z'	0.1	1.0
	Mx	E	4.0	25
	Mx	N	3.7	25
	Mx	Z	5.3	24
Ki	iP		21 43 22.6	
			micr	sec
	P	Z'	0.1	1.4
	Mx	E	3.6	18
	Mx	N	4.2	19
	Mx	Z	5.0	18

(cont.)

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

1975					
Apr.	16	(cont.)			
		Sk	iP	21 43 59.8	
		Um	iP	21 43 47.2	
		Ud	iP	21 44 17.5	
		De	iP	21 44 36.2	
		Kurile Islands (h = 30 km).			
		m = 5.9, M = 5.8 (Up,Ki).			
"	16	Ud	iP	21 53 25.8	
"	16	Sk	eP	21 56 02	
		Ud	iP	21 55 29.5	
			i	21 55 38.2	
		Greece.			
"	17	Ud	iP	01 30 10.1	
"	17	Ud	ePKPl	01 35 19	
		De	iPKPl	01 35 28.2	
		Tonga Islands (h = N).			
"	17	Ki	iP	02 14 14.9	
		Sk	iP	02 13 32.0	
		North Atlantic Ocean (h = N).			
"	17	Ud	iPKPl	03 11 17.2	
"	17	Ud	iPKPl	03 28 09.1	
"	17	Sk	iP	04 11 46.9	
		Japan (h = 45 km).			
"	17	Ud	iPKPl	07 35 21.8	
		De	iPKPl	07 35 32.1	
"	17	Up	iP	07 39 32.5	
			i	07 39 51.6	
			iS	07 42 41.3	
		Ki	iP	07 40 39.3	
		Sk	eP	07 40 17	
		Um	iP	07 40 03.9	
			i	07 40 14.5	
			iS	07 43 45.5	
		Ud	iP	07 39 45.2	
			iS	07 43 15.8	
		De	iP	07 39 14.9	
			iS	07 42 13.4	
		Black Sea (h = N).			
"	17	Ud	iP	12 00 40.9	
"	17	Ud	iP	12 25 24.5	
"	17	Ki	iP	12 30 26.8	
		Ud	iP	12 31 19.6	
		Aleutian Islands (h = 35 km).			

1975					
Apr.	17	Ud	iP	13 45 27.8	
"	17	Um	iP	18 00 13.3	
"	17	Up	iP	18 52 31.7	C
				micr sec	
			P Z'	0.1 0.9	
		Ki	iP	18 51 53.6	
				micr sec	
			P Z'	0.1 1.0	
		Sk	iP	18 52 26.5	
			iPP	18 55 06.9	
		Um	iP	18 52 10.3	C
			ipP	18 52 29.5	
		Ud	iP	18 52 39.5	C
		De	iP	18 52 53.9	
		Japan.			
		h = 70 km (Um).			
		m = 5.7 (Up,Ki).			
"	17	Ud	iP	21 37 32.9	
		Greece.			
"	17	Um	iPKP	22 12 16.0	
		Ud	ePKP	22 12 19	
		De	iPKP	22 12 29.4	
		Fiji Islands (h = 420 km).			
"	18	Up	i(P)	05 26 13.1	
			i	05 26 18.1	
				micr sec	
			(P) Z'	0.1 1.6	
		Ud	i(P)	05 25 57.4	
"	18	Up	iRg	09 56 24.3	
		Ud	iRg	09 56 21.0	
		Central Sweden.			
		Near-surface event.			
"	18	Up	iP	10 18 35.1	
		Ki	eP	10 18 24	
			ipP	10 19 08.8	
		Talaud Islands.			
		h = 180 km (Ki).			
"	18	Up	iP	11 17 35.6	
		Ud	iP	11 17 48.8	
"	18	Ki	iPgl	20 13 22.9	D
		Rockburst at the ore mines at Kiruna, Sweden.			
		Felt.			
"	18	Ki	iRg	20 14 05.9	
		Kiruna rockburst.			

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

1975 Apr. 18 Ki i 20 25 59.3
iRg 20 26 02.5
Kiruna rockburst.
Felt.

" 18 Up iP 20 30 10.0
Ki iP 20 29 17.7
Kamchatka.

" 18 Up iP 21 03 56.8
Sk iP 21 04 39.9
Um iP 21 04 35.4
Ud iP 21 04 06.0
De iP 21 03 28.5
Aegean Sea (h = 10 km).

" 18 Up iP 21 13 22.1
Ud iP 21 13 21.1

" 18 Up iPgl 22 30 49.4
iSgl 22 31 13.3
iRg 22 31 19.3
Ud iSgl 22 31 09.1
De iSgl 22 31 33.2
Östergötland, Sweden,
58.7°N, 15.2°E.
Origin time = 22 30 18.
m = 3.8, M_L = 1.8 (Up,Ud).
Near-surface event.

" 19 Um iP 02 10 27.7

" 19 Sk i(P) 04 44 16.1
i 04 44 42.5
Um i(P) 04 45 14.2

" 19 Up iP 05 06 32.3
Ki iP 05 06 30.1
Sk iP 05 06 00.6
Um iP 05 06 32.8
Ud iP 05 06 14.6
North Atlantic Ocean (h = N).

" 19 Up iP 05 58 01.8
Um iP 05 58 07.2
Ud iP 05 57 47.1

" 19 Up Mx 07 54

		micr	sec
Mx	E	0.9	19
Mx	N	1.4	20
Mx	Z	1.8	19

Ki Mx 07 52

		micr	sec
Mx	E	0.8	18

(cont.)

1975 Apr. 19 (cont.)

Ki

		micr	sec
Mx	N	0.9	18
Mx	Z	1.1	18

South Pacific Ocean (h = N).
M = 5.9 (Up,Ki).

" 19 Up iSgl 11 51 30.4
Sk iSgl 11 50 03.1
Um iSgl 11 51 53.7
Ud iSgl 11 50 28.2
De eSgl 11 51 45
West coast of Norway,
61.8°N, 5.0°E.
Origin time = 11 48 08.
By combination with Bergen readings.
m = 4.1, M_L = 2.4 (Sk,Um, Ud).

" 19 Um i(Sgl) 12 02 18.2

" 19 Up iP 12 32 57.4
Ki iP 12 33 19.3
ipP 12 33 25.6

		micr	sec
pP	Z'	0.1	1.3

Sk iP 12 32 49.6
Um iP 12 33 12.2
Ud iP 12 32 45.4
ipP 12 32 51.7
De iP 12 32 38.9
North Atlantic Ocean.
h = 25 km (Ki,Ud).

" 19 Ki iP 13 51 24.3
Um iP 13 51 03.2
Arabian Sea.
Origin time = 13 41 31.

" 19 Up iP 13 55 08.3
iS 14 02 42

		micr	sec
P	Z'	0.1	1.0
Mx	E	1.3	22
Mx	N	1.6	22
Mx	Z	3.3	22

Ki iP 13 55 42.3
ipP 13 55 49.4

		micr	sec
P	Z'	0.1	1.0
Mx	E	1.7	16
Mx	N	2.5	20
Mx	Z	2.7	18

Sk iP 13 55 39.4
Um iP 13 55 21.6
(cont.)

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

1975
Apr. 19 (cont.)

Um	ipP	13 55 28.9
	iS	14 02 59
Ud	iP	13 55 20.7
De	iP	13 55 04.7

Arabian Sea.
h = 30 km (Ki,Um).
m = 5.8, M = 5.3 (Up,Ki).

" 19

Ki	iP	13 58 02.9
Ud	iP	13 57 48.6

" 19

Ki	iP	13 59 14.0

" 19

Ki	iP	14 21 37.1
Sk	eP	14 21 36
Um	iP	14 21 16.7

Arabian Sea.
Origin time = 14 11 45.
Approximate origin times, based upon the same coordinates as for the earthquake at 13 45 50, April 19, are given for those Arabian Sea aftershocks, which have not been reported by NEIS.
Ki,Um are obviously our most sensitive stations for this sequence.

" 19

Ud	i(Sgl)	14 43 40.3
De	i(Sgl)	14 42 18.3

" 19

Ki	iP	17 19 24.4
Um	eP	17 19 04

Arabian Sea (h = N).

" 19

Um	iPKP	17 19 54.7

" 19

Up	iP	17 20 13.2
	ipP	17 20 17.8
Ki	iP	17 20 47.1
Sk	eP	17 20 47
Um	iP	17 20 27.5
Ud	eP	17 20 28
	ipP	17 20 32.8

Arabian Sea.
h = 20 km (Up,Ud).

" 19

Up	iP	17 30 51.6
	ipP	17 30 59.8
Ki	iP	17 31 27.0
	ipP	17 31 33.8
Um	iP	17 31 06.2
	ipP	17 31 13.1

(cont.)

1975
Apr. 19 (cont.)

Ud	eP	17 31 04

Arabian Sea.
h = 30 km (Up,Ki,Um).

" 19

Up	eP	17 36 01
Ki	iP	17 36 33.5
	ipP	17 36 40.5
Sk	eP	17 36 33
Um	iP	17 36 13.9
Ud	ipP	17 36 18.2

Arabian Sea.
h = 30 km (Ki).

" 19

Up	eP	17 42 42
Ki	iP	17 43 17.8
Sk	eP	17 43 14
Um	iP	17 42 56.8

Arabian Sea (h = N).

" 19

Ki	iP	17 44 36.4
Um	iP	17 44 16.3

Arabian Sea.
Origin time = 17 34 44.

" 19

Ki	iP	17 46 26.8
Um	eP	17 46 07
	ipP	17 46 13.9

Arabian Sea.
h = 30 km (Um).
Origin time = 17 36 35.

" 19

Ki	iP	17 48 29.6
Um	iP	17 48 09.2
Ud	iP	17 48 08.5

Arabian Sea (h = N).

" 19

Ki	iP	17 50 24.4
Um	iP	17 50 03.7

Arabian Sea.
Origin time = 17 40 32.

" 19

Ki	iP	17 55 52.3
Um	eP	17 55 29
Ud	iP	17 55 26.2

Arabian Sea (h = N).

" 19

Up	eP	18 00 11
Ki	iP	18 00 44.3
Sk	eP	18 00 43
Um	iP	18 00 23.5
	ipP	18 00 30.6
Ud	iP	18 00 22.2

Arabian Sea.
h = 30 km (Um).

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

1975 Apr.	19	Ki	eP	18 05 26	
"	19	Up	iP	18 13 58.1	
		Ki	e(P)	18 14 26	
		Um	iP	18 14 11.7	
		Arabian Sea.			
		Origin time = 18 04 40.			
"	19	Up	iP	18 14 31.9	
		Ki	iP	18 15 05.4	
		Sk	iP	18 15 05.6	
		Um	iP	18 14 45.3	
		Arabian Sea (h = N).			
"	19	Up	iP	18 18 45.9	
			ipP	18 18 52.3	
		Ki	iP	18 19 19.6	
		Sk	iP	18 19 16.6	
		Um	iP	18 18 59.2	
		Ud	iP	18 18 58.5	
		Arabian Sea.			
		h = 25 km (Up).			
"	19	Ki	iP	18 20 17.2	
		Um	iP	18 19 59.4	
			ipP	18 20 05.6	
		Ud	iP	18 19 52.1	
			ipP	18 19 59.2	
		Arabian Sea.			
		h = 25 km (Um,Ud).			
		Origin time = 18 10 24.			
"	19	Ki	iP	18 21 10.6	
		Um	iP	18 20 49.7	
		Arabian Sea.			
		Origin time = 18 11 18.			
"	19	Up	iP	18 25 29.7	
			ipP	18 25 35.6	
		Ki	iP	18 26 03.7	
			ipP	18 26 09.8	
		Sk	eP	18 26 01	
			ipP	18 26 06.7	
		Um	iP	18 25 42.9	
			ipP	18 25 47.8	
		Ud	iP	18 25 41.9	
			ipP	18 25 47.4	
		De	iP	18 25 24.9	
		Arabian Sea.			
		h = 20 km (Up,Ki,Sk,Um,Ud).			
"	19	Sk	iP	18 26 53.0	
		Um	iP	18 26 43.3	
"	19	Um	iP	18 31 33.1	

1975 Apr.	19	Ki	iP	18 34 21.6	
		Um	iP	18 34 00.7	
		Arabian Sea.			
		Origin time = 18 24 29.			
"	19	Up	iP	18 53 17.8	
		Ki	iP	18 53 51.1	
				micr	sec
			P Z'	0.1	1.0
		Sk	iP	18 53 48.1	
		Um	iP	18 53 30.4	
		Ud	iP	18 53 29.8	
		De	iP	18 53 14.2	
		Arabian Sea (h = N).			
"	19	Up	eP	18 59 00	
		Ki	eP	18 59 36	
		Um	iP	18 59 13.7	
			ipP	18 59 19.3	
		Arabian Sea (h = N).			
		h = 20 km (Um).			
"	19	Ki	iP	19 19 18.4	
		Sk	eP	19 19 16	
		Um	iP	19 18 57.8	
		Ud	eP	19 18 59	
		Arabian Sea (h = N).			
"	19	Up	iP	19 26 01.8	
		Ki	iP	19 26 38.8	
		Um	iP	19 26 18.0	
		Arabian Sea (h = N).			
"	19	Ki	iP	19 27 43.2	
		Um	iP	19 28 09.7	
		Ud	iP	19 28 34.8	
		Unimak Island (h = 50 km).			
"	19	Ki	eP	19 35 11	
		Um	iP	19 34 51.5	
		Arabian Sea.			
		Origin time = 19 25 20.			
"	19	Up	iP	20 25 02.2	
			ipP	20 25 10.6	
				micr	sec
			P Z'	0.1	1.5
			Mx E	1.1	22
			Mx N	0.9	17
			Mx Z	2.0	21
		Ki	iP	20 25 35.4	
				micr	sec
			P Z'	0.2	1.5
			Mx E	1.4	17
			Mx N	0.9	18
			Mx Z	1.9	18

(cont.)

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

1975
Apr. 19 (cont.)

Sk	iP		20 25 32.7
Um	iP		20 25 14.8
Ud	iP		20 25 14.1
De	iP		20 24 58.2

Arabian Sea.
h = 35 km (Up).
m = 5.8, M = 5.1 (Up,Ki).

" 19

Up	iP		21 30 32.2
	ipP		21 30 38.6
Ki	iP		21 31 05.5
	ipP		21 31 12.1
		micr	sec
	pP	Z' 0.1	1.1
Sk	iP		21 31 03.5
	ipP		21 31 09.8
Um	iP		21 30 45.9
	ipP		21 30 51.5
Ud	iP		21 30 46.3

Arabian Sea.
h = 25 km (Up,Ki,Sk,Um).

" 19

Up	iP		21 39 08.9
Ki	iP		21 39 42.9
Um	iP		21 39 22.2

Arabian Sea (h = N).

" 19 Um eP 22 06 58
Arabian Sea (h = N).

" 19 Ki eP 23 03 44

" 19

Up	iP		23 38 28.4
Ki	iP		23 39 01.4
	ipP		23 39 07.2
		micr	sec
	pP	Z' 0.1	1.1
Sk	ipP		23 39 04.7
Um	iP		23 38 41.0
	ipP		23 38 46.8
Ud	iP		23 38 37.8
De	ipP		23 38 31.6
	i		23 38 38.0

Arabian Sea.
h = 25 km (Ki,Um).

" 20

Ki	iP		00 18 59.5
Um	iP		00 18 39.4

Arabian Sea.
Origin time = 00 09 07.

" 20 Um iP 00 53 21.5

1975
Apr. 20

Ki	iP		01 09 42.3
Um	iP		01 09 22.3

Arabian Sea (h = N).

" 20

Ki	iP		02 16 26.3
Um	iP		02 16 05.3

Arabian Sea (h = N).

" 20

Up	iP		03 50 25.4
Ki	iP		03 50 59.1
	ipP		03 51 04.4
Um	eP		03 50 39
	ipP		03 50 43.8

Arabian Sea.
h = 20 km (Ki,Um).

" 20

Up	iP		04 27 27.2
Ud	iP		04 27 32.7

" 20

Up	iP		05 19 02.3
	ipP		05 19 07.2
Ki	iP		05 19 36.0
		micr	sec
	P	Z' 0.1	1.0
Sk	eP		05 19 35
Um	iP		05 19 15.3

Arabian Sea.
h = 20 km (Up).

" 20

Up	ipP		09 06 13.5
		micr	sec
	pP	Z' 0.1	1.1
Ki	iP		09 06 42.2
	ipP		09 06 47.3
		micr	sec
	pP	Z' 0.1	1.4
Sk	ipP		09 06 44.3
Um	iP		09 06 22.6
	ipP		09 06 26.8
Ud	iP		09 06 21.2
	ipP		09 06 26.2

Arabian Sea.
h = 20 km (Ki,Um,Ud).
m = 5.8 (Up,Ki).

" 20

Ki	iP		10 04 57.9
Um	iP		10 04 37.4

Arabian Sea (h = N).

" 20

Ki	iP		10 10 03.4
Um	iP		10 09 42.8

Arabian Sea.
Origin time = 10 00 11.

" 20 Um iP 10 38 51.1

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

1975 Apr.	20	Up	iPKP		11 59 55.8		
			i		12 00 01.6		
			iPP		12 02 24.0		
					micr	sec	
			PKP	Z'	0.5	1.8	
			PP	Z'	0.1	1.5	
			Mx	E	4.6	20	
			Mx	N	4.0	22	
			Mx	Z	6.2	20	
		Ki	iPKP		11 59 57.8		
			i		12 00 03.4		
			iPP		12 02 25.0		
					micr	sec	
			PKP	Z'	0.3	1.7	
			PP	Z'	0.3	2.0	
			Mx	E	4.5	18	
			Mx	N	4.4	18	
			Mx	Z	6.9	18	
		Sk	iPKP		11 59 52.4		
			i		11 59 57.7		
			iPP		12 02 06.1		
		Um	ePKP		12 00 00		
			i		12 00 04.9		
			iPP		12 02 25.7		
		Ud	iPKP		11 59 51.0		
			i		11 59 57.8		
			iPP		12 02 06.1		
		De	iPKP		11 59 53.3		
			i		11 59 58.4		
			iPP		12 02 11.1		

South Pacific Ocean (h = N).
m = 6.0, M = 6.3 (Up,Ki).
PP is consistently early.

"	20	Ki	iP	13 53 40.5
		Um	iP	13 53 48.9
			i	13 53 53.3
		Ud	iP	13 54 21.2

Japan.

"	20	Ki	iP	14 49 00.0
		Um	iP	14 48 39.5
			ipP	14 48 44.7

Arabian Sea.
h = 20 km (Um).

"	20	Ki	i	15 00 36.7
		Um	iP	15 00 29.8

Banda Sea (h = 170 km).

"	20	Up	iP		17 47 18.3		
			i		17 47 20.3		
			iS		17 56 41		
					micr	sec	
			P	Z'	0.1	1.1	

(cont.)

1975 Apr.	20	(cont.)					
		Up			micr	sec	
			Mx	E	11	13	
			Mx	N	16	14	
			Mx	Z	13	16	
		Ki	iP		17 46 44.1		
			i		17 46 46.7		
			iS		17 55 40		
					micr	sec	
			P	Z'	0.5	2.0	
			Mx	E	9.6	15	
			Mx	N	15	17	
			Mx	Z	10	16	
		Sk	iP		17 47 17.9		
			i		17 47 23.7		
		Um	iP		17 46 57.8		
			i		17 47 02.7		
			iS		17 56 05		
		Ud	iP		17 47 25.7		
			i		17 47 28.7		
			i		17 47 33.8		
		De	iP		17 47 40.4		
			iPP		17 50 27.4		

Japan (h = 7 km).
m = 6.2, M = 6.5 (Up,Ki).

"	20	Up	iPKP2	18 29 11.7
		Ki	iPKP1	18 28 39.9
		Um	iPKP1	18 28 48.4

New Zealand (h = 230 km).

"	20	Up	iP		18 59 12.1		
			ipP		18 59 19.3		
					micr	sec	
			P	Z'	0.3	1.2	
			pP	Z'	0.4	1.2	
		Ki	iP		18 58 19.3		
			ipP		18 58 26.1		
					micr	sec	
			P	Z'	0.2	1.1	
			pP	Z'	0.2	1.3	
		Sk	iP		18 58 56.0		
		Um	iP		18 58 44.9		
			ipP		18 58 51.1		
		Ud	iP		18 59 16.1		
			ipP		18 59 23.5		
		De	iP		18 59 36.9		
			ipP		18 59 44.1		

Kamchatka.
h = 25 km (Up,Ki,Um,Ud,De).
m = 6.3 (Up,Ki).

"	20	Um	iPKP	20 06 24.5

"	20	Ki	iP	21 32 37.9
		Um	iP	21 32 17.3

(cont.)

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

1975
Apr. 20 (cont.)
Ud eP 21 32 19
Arabian Sea (h = N).

" 20 Up iPKP1 22 14 16.7
ipPKP1 22 15 47.8
Sk iPKP1 22 14 09.5
Um iPKP1 22 14 04.7
Ud iPKP1 22 14 18.6
ipPKP1 22 15 50.2
De iPKP1 22 14 27.9
iPKP2 22 14 34.5
Kermadec Islands.
h = 380 km (Up,Ud).

" 20 Up iP 22 33 45.8
Ki iP 22 32 53.0
Um iP 22 33 17.9
ipP 22 33 29.1
Kamchatka.
h = 40 km (Um).

" 20 Ki eP 22 52 36
Um eP 22 52 15
Arabian Sea (h = N).

" 21 Ki eP 00 54 16
Ud iP 00 53 35.2
Azores Islands (h = N).

" 21 Ud iPKP1 02 24 18.6

" 21 Ki iP 02 35 49.1
Arabian Sea (h = N).

" 21 Ki iP 02 36 33.6
Um iP 02 36 10.3
Ud eP 02 36 04
Arabian Sea.

" 21 Ki eP 03 06 32
Um iP 03 06 12.1
Ud iP 03 05 41.0
North of Ascension Island
(h = N).

" 21 Up iP 03 19 49.2

" 21 Up iP 03 56 40.0 C
micr sec
P Z' 0.1 0.8
Ki iP 03 56 01.2 C
Sk iP 03 56 34.6 C
Um iP 03 56 18.2 C
Ud iP 03 56 47.3 C
De iP 03 57 01.8 C
Japan (h = 60 km).

1975
Apr. 21 Ki iP 04 04 09.6
ipP 04 04 14.7
Arabian Sea.
h = 20 km (Ki).

" 21 Ud iP 05 40 38.8
Greece (h = 90 km).

" 21 Ki iP 06 19 02.3
North Atlantic Ocean
(h = N).

" 21 Up iP 06 20 49.2
Ki iP 06 21 10.6
Sk eP 06 20 34
Um iP 06 21 03.4
Ud eP 06 20 32
De iP 06 20 23.5
North Atlantic Ocean
(h = N).

" 21 Up i(P) 07 53 54.0

" 21 Ki iP 09 01 16.0
Um iP 09 01 02.1
Ud iP 09 00 18.7
Azores Islands.

" 21 Ud eP 09 01 17
De iP 09 01 19.6
Colombia (h = 150 km).

" 21 Up iPKP1 11 32 47.5
Sk iPKP1 11 32 41.3
Um iPKP1 11 32 35.7
Ud iPKP1 11 32 49.3
iPKP2 11 32 54.1
De iPKP1 11 32 57.9
Kermadec Islands.

" 21 Up iP 12 01 31.5
Ki iP 12 02 01.9
Um eP 12 01 46
Arabian Sea (h = N).

" 21 Ki eP 15 17 11
Sk eP 15 17 10
Arabian Sea (h = N).

" 21 Up iP 17 05 37.7
Ki iP 17 05 46.0
Um iP 17 05 35.8
Ud iP 17 05 54.3
Hindu Kush.
Intermediate depth.

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

1975 Apr.	21	Ki	iP	19 21 28.4	
			i	19 21 39.5	
		Um	iP	19 21 23.2	
			i	19 21 30.3	
		North Atlantic Ocean (h = N).			
"	21	Up	iP	20 26 09.0	
		Sk	iP	20 26 47.7	
		Um	iP	20 26 50.2	
		Ud	iP	20 26 15.1	
		De	iP	20 25 40.2	
		Greece (h = 80 km).			
"	21	Up	iPKP1	20 37 12.0	
		Um	iSKP1	20 39 55.6	
		Ud	iPKP1	20 37 14.1	
"	21	Ki	ipP	21 14 35.3	
		Sk	eP	21 14 28	
			ipP	21 14 32.5	
		Um	iP	21 14 07.6	
			ipP	21 14 14.9	
		Arabian Sea.			
		h = 30 km (Um).			
"	21	Up	eP	22 18 12	
		Ki	iP	22 18 10.4	
		Um	iP	22 18 06.4	
		Ud	iP	22 18 28.2	
		Sinkiang, China.			
"	21	Up	iPKP1	22 28 34.9	
		Ud	iPKP1	22 28 37.5	
		De	iPKP1	22 28 49.0	
"	21	Up	iP	23 16 36.5	
		Ki	iP	23 16 19.7	
		Sk	eP	23 16 44	
		Um	iP	23 16 25.9	
		Ud	iP	23 16 45.4	
		Mindanao (h = 110 km).			
"	21	Up	iPKP1	23 54 00.5 C	
			iPKP2	23 54 04.6	
				micr sec	
			PKP1 Z'	0.1 1.1	
		Ki	ePKP	23 53 42	
		Sk	iPKP1	23 53 53.7 C	
		Um	iPKP1	23 53 48.7 C	
		Ud	iPKP1	23 54 02.1 C	
			iPKP2	23 54 07.2	
		De	iPKP1	23 54 10.7	
		Kermadec Islands (h = 45 km).			
"	22	Up	iP	00 24 03.9	
		(cont.)			
1975 Apr.	22	(cont.)			
		Ki	iP	00 24 04.4	
		Sk	iP	00 23 48.9	
		Um	iP	00 24 07.1	
		Ud	iP	00 23 53.0	
		Colombia (h = 35 km).			
"	22	Um	iP	00 44 19.6	
		Arabian Sea (h = N).			
"	22	Um	iP	00 45 08.6	
		Turkey (h = N).			
"	22	Up	iSg1	03 08 29.5	
		Ki	iSg1	03 06 24.0	
		Sk	iSg1	03 06 32.0	
		Um	iPg1	03 06 05.4	
			iSg1	03 06 55.6	
		Ud	iSg1	03 08 19.1	
		Nordland, Norway,			
		66.5°N, 14.3°E.			
		Origin time = 03 04 59.			
		m = 4.1, M_L = 2.3 (Ki,Sk,Um, Ud).			
		Explosion?			
"	22	Um	iP	03 44 42.9	
"	22	Up	iP	03 48 09.2	
			ipP	03 48 16.3	
		Ki	iP	03 48 44.0	
				micr sec	
			P Z'	0.1 1.6	
		Sk	eP	03 48 41	
		Um	iP	03 48 23.1	
		Ud	iP	03 48 21.4	
		De	iP	03 48 04.9	
		Arabian Sea.			
		h = 30 km (Up).			
"	22	Ud	iPKP1	06 25 25.6	
		De	iPKP1	06 25 36.9	
			i	06 25 45.3	
"	22	Up	iP	06 44 48.4	
		Ki	iP	06 45 24.4	
			ipP	06 45 29.3	
		Sk	iP	06 45 19.1	
			ipP	06 45 24.8	
		Um	iP	06 45 03.0	
		Ud	iP	06 45 01.1	
			ipP	06 45 05.9	
		De	iP	06 44 44.7	
		Arabian Sea.			
		h = 20 km (Ki,Sk,Ud).			

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

1975 Apr. 22 Up iPKP1 07 59 00.5
Um iPKP1 07 58 45.2
Kermadec Islands (h = 390 km).

" 22 Um iP 08 40 52.3
Ud iP 08 40 50.2
Arabian Sea (h = N).

" 22 Um iP 11 20 41.9
Azores Islands (h = N).

" 22 Up i(P) 12 30 47.4
Um i(P) 12 31 10.8
i 12 31 38.7

" 22 Ki iP 13 02 31.4

" 22 Ki iPKP 14 44 27.4
Um iPKP 14 44 35.0
De iPKP 14 44 51.6
Santa Cruz Islands (h = 640 km).

" 22 Up iSn 15 23 08.1
iSgl 15 23 20.3
Sk eSn 15 23 18
iSgl 15 23 33.7
Um eSgl 15 24 38
Ud iPgl 15 21 59.7
iSgl 15 22 17.2
De iSgl 15 23 36.7
Southeast Norway,
59.9°N, 11.2°E.
Origin time = 15 21 38.
m = 4.1, M_L = 2.3 (Um,Ud,De).

" 22 Up iP 15 32 22.8
Ki iP 15 32 56.5 C
Um iP 15 32 35.2
Ud iP 15 32 35.7
ipP 15 32 44.8
Arabian Sea.
h = 35 km (Ud).

" 22 Ki eP 16 27 14
Um iP 16 26 54.7
Arabian Sea.
Origin time = 16 17 23.

" 22 Ud iP 18 06 32.7
i 18 06 52.4
Crete.

" 22 Up iP 18 34 57.0
(cont.)

1975 Apr. 22 (cont.)
Ki iP 18 35 29.6
micr sec
P Z' 0.1 1.3
Sk iP 18 35 27.7
Um iP 18 35 09.9
Ud iP 18 35 09.7
De eP 18 34 53
Arabian Sea (h = N).

" 22 Ki iP 20 04 48.6
Um iP 20 04 27.4
Arabian Sea.
Origin time = 19 54 56.

" 22 Up iP 20 05 39.4
Sk epP 20 05 44
Um ipP 20 05 28.7
Ud iP 20 05 47.8
ipP 20 06 03.2
Japan.
h = 55 km (Ud).

" 22 Up iP 20 15 56.6
Ki iP 20 15 10.2
Sk iP 20 15 46.7
Um iP 20 15 31.3
Ud iP 20 16 02.8 C
De iP 20 16 21.4 C
Kurile Islands (h = 80 km).

" 22 Ki iP 20 26 06.6
iS 20 27 44.3
iTPg 20 32 10.8
iTSg 20 32 56.8
Um iP 20 27 01.0
Ud iP 20 27 50.8
De iP 20 28 30.0
Norwegian Sea (h = N).

" 22 Up iP 21 01 05.1
Ki iP 20 59 27.0
iTPg 21 05 34.3
iTSg 21 06 19.9
Sk iP 21 00 13.7
Um iP 21 00 17.1
Ud iP 21 01 07.7
De iP 21 01 46.6
Norwegian Sea.
Origin time = 20 57 33.

" 22 Ki iP 21 23 47.1
i 21 23 51.6

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

1975
Apr. 22 Up iP 21 35 14.9 C
ipP 21 35 45.6
Ki iP 21 35 16.0 C
Sk iP 21 35 30.7
Um iP 21 35 12.1 C
Ud iP 21 35 26.0 C
ipP 21 35 56.8
De iP 21 35 24.1 C
ipP 21 35 54.4
Nicobar Islands.
h = 120 km (Up,Ud,De).

" 22 Up iP 21 44 44.2
micr sec
P Z' 0.1 1.5
Mx Z 0.9 21
Ki iP 21 45 17.5
micr sec
P Z' 0.1 1.4
Mx E 0.7 20
Mx N 0.6 18
Mx Z 0.8 18
Sk iP 21 45 14.6
Um iP 21 44 56.7
Ud iP 21 44 56.0
De iP 21 44 40.2
Arabian Sea (h = N).
m = 5.7 (Up,Ki).

" 22 Up iP 22 27 08.4 C
Ki iP 22 27 42.2 C
ipP 22 27 47.6
micr sec
P Z' 0.1 1.2
pP Z' 0.1 1.4
Sk iP 22 27 39.8
Um iP 22 27 21.5
ipP 22 27 26.6
Ud iP 22 27 20.3
De iP 22 27 04.4
Arabian Sea.
h = 20 km (Ki,Um).

" 22 Up iP 22 51 36.2
i 22 54 42.9
Ki iP 22 50 10.0
iTPg 22 56 04.6
iTSg 22 56 28.1
Sk iP 22 50 39.3
iS 22 52 19.9
Um iP 22 50 57.4
i 22 52 59.5
Ud iP 22 51 27.6
i 22 54 18.1
(cont.)

1975
Apr. 22 (cont.)
De iP 22 52 15.5
iS 22 55 27.2
Norwegian Sea (h = N).

" 22 Ki iP 23 00 33.9
ipP 23 00 40.8
Um iP 23 00 13.5
Ud eP 23 00 14
Arabian Sea.
h = 30 km (Ki).
Origin time = 22 50 42.

" 22 Ki iP 23 12 03.4

" 22 Ki iP 23 22 48.6
Sk iP 23 22 44.6
Um iP 23 22 27.6
Arabian Sea.
Origin time = 23 12 56.

" 22 Up iP 23 36 32.6 C
micr sec
Mx Z 0.8 22
Ki iP 23 37 06.3
ipP 23 37 12.6
micr sec
pP Z' 0.1 1.0
Sk iP 23 37 02.0
Um iP 23 36 44.7
Ud iP 23 36 44.4
De eP 23 36 30
Arabian Sea.
h = 25 km (Ki).

" 23 Up iP 00 27 38.2 C
Ki iP 00 26 58.4 C
Sk iP 00 27 33.6
Um iP 00 27 15.6 C
Ud iP 00 27 46.9
De iP 00 28 02.0
Russia-China (h = 500 km).

" 23 Up iP 00 30 37.9
Ki iP 00 29 44.4
Sk iP 00 30 20.6
Um iP 00 30 09.9
Ud iP 00 30 41.2
De iP 00 31 02.7
Kamchatka (h = N).

" 23 Up iP 01 12 40.9
micr sec
Mx E 0.6 12
(cont.)

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

1975 Apr. 23 (cont.)

Up			micr	sec
	Mx	N	0.6	11
	Mx	Z	0.9	11
Ki	eP		01 13 55	
			micr	sec
	Mx	E	0.4	11
	Mx	N	0.3	8
Sk	iP		01 13 29.4	
Um	iP		01 13 19.8	
	i		01 13 30.7	
Ud	iP		01 12 54.6	
De	iP		01 12 20.7	

Aegean Sea (h = 20 km).
M = 4.4 (Up,Ki).

" 23

Up	iRg	02 25 57.9
Ud	iRg	02 25 40.8

Central Sweden.
Near-surface event.

" 23

Ki	iP	02 54 06.9
Um	iP	02 53 46.6
Ud	iP	02 53 47.3

Arabian Sea.
Origin time = 02 44 15.

" 23

Up	eP	03 55 32
Ki	iP	03 56 04.9
Um	iP	03 55 44.1
Ud	iP	03 55 43.9

Arabian Sea.
Origin time = 03 46 13.

" 23

Up	iP		05 19 46.9	
	i		05 19 55.2	
	iLgl		05 33 03	
			micr	sec
	P	Z'	0.1	0.8
	Mx	N	1.3	15
	Mx	Z	0.6	6
Ki	iP		05 19 32.7	
			micr	sec
	Mx	E	0.4	10
	Mx	N	1.2	14
Sk	iP		05 20 02.5	
Um	iP		05 19 33.6	
Ud	iP		05 20 02.5	
De	iP		05 20 08.4	

Kazakh-Sinkiang (h = N).
M = 5.0 (Up,Ki).

" 23

Ki	iP	05 22 42.3
Sk	eP	05 22 40

(cont.)

1975 Apr. 23 (cont.)

Um	iP	05 22 21.7
	ipP	05 22 28.4

Arabian Sea.
h = 25 km (Um).

" 23

Ki	iP	07 42 39.8
Um	iP	07 42 19.8

Arabian Sea.
Origin time = 07 32 48.

" 23

Ki	iP	08 24 48.3
Um	iP	08 24 28.0

Arabian Sea.
Origin time = 08 14 56.

" 23

Up	eP		08 25 49	
	ipP		08 25 54.6	
Ki	iP		08 26 23.3	
	ipP		08 26 28.5	
			micr	sec
	P	Z'	0.1	1.3
Um	iP		08 26 03.3	
Ud	iP		08 26 02.5	
De	eP		08 25 45	

Arabian Sea.
h = 20 km (Up,Ki).

" 23

Up	iP		08 26 55.6
Ki	iP		08 27 29.1 D
	ipP		08 27 35.2
		micr	sec
	P	Z' 0.1	1.0
	pP	Z' 0.1	1.2
Sk	iP		08 27 26.1
Um	iP		08 27 09.0 D
	ipP		08 27 14.7
Ud	iP		08 27 08.1
	ipP		08 27 13.7
De	iP		08 26 52.5

Arabian Sea.
h = 25 km (Ki,Um,Ud).

" 23

Up	iP		08 39 54.3	
	ipP		08 42 04.6	
Ki	iP		08 39 39.1	
	ipP		08 41 49.3	
			micr	sec
	P	Z'	0.1	1.1
	pP	Z'	0.1	1.0
Sk	iP		08 39 59.7	
	ipP		08 42 09.4	
Um	iP		08 39 44.1	
	ipP		08 41 54.4	

(cont.)

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

1975
Apr. 23 (cont.)

Ud	iP		08 40 03.1	
	ipP		08 42 13.0	
De	iP		08 40 08.2	
	ipP		08 42 18.5	

Mindanao.
h = 600 km (Up,Ki,Sk,Um,Ud, De).

" 23

Up	iP		09 15 17.2	
Ki	iP		09 15 23.6	
Sk	iP		09 15 41.9	
Um	iP		09 15 13.9	
Ud	iP		09 15 33.1	
De	iP		09 15 31.0	

Kashmir (h = 80 km).

" 23

Up	iP		10 17 21.5	C
Ki	iP		10 17 54.7	
	ipP		10 18 00.8	
			micr sec	
	P	Z'	0.1 1.0	
Sk	iP		10 17 50.1	
Um	iP		10 17 34.1	
	ipP		10 17 40.0	
Ud	iP		10 17 33.5	
De	iP		10 17 13.4	

Arabian Sea.
h = 25 km (Ki,Um).

" 23

Ki	iP		10 35 12.2	
	ipP		10 35 17.6	
Um	iP		10 34 51.8	
De	iP		10 34 35.8	

Arabian Sea.
h = 20 km (Ki).
Origin time = 10 25 20.

" 23

Up	iP		11 27 40.5	
	i		11 28 04.3	
	iPP		11 31 08.0	
	iSKS		11 38 07	
			micr sec	
	P	Z'	0.2 1.8	
	i	Z'	0.3 1.7	
	PP	Z'	0.6 2.3	
	Mx	E	3.4 22	
	Mx	N	2.8 22	
	Mx	Z	7.6 23	
Ki	iP		11 27 25.4	C
	i		11 27 48.2	
	iPP		11 30 41.7	
	iS		11 37 45	

(cont.)

1975
Apr. 23 (cont.)

Ki			micr sec	
	P	Z'	0.1 1.5	
	i	Z'	0.3 1.8	
	PP	Z'	0.5 2.4	
	Mx	E	5.3 19	
	Mx	N	6.9 22	
	Mx	Z	8.3 23	
Sk	iP		11 27 22.6	
Um	iP		11 27 35.8	
	iSKS		11 37 59	
Ud	iP		11 27 32.3	
De	iP		11 27 40.2	

Mexico (h = 10 km).
m = 6.2, M = 6.0 (Up,Ki).

" 23

Up	iP		12 14 50.6
Ki	iP		12 15 23.5
Um	iP		12 15 03.9
Ud	eP		12 15 03

Arabian Sea (h = N).

" 23

Up	eP		12 15 09
Ki	iP		12 15 40.3
Um	iP		12 15 20.0
Ud	iP		12 15 18.5
De	iP		12 15 02.7

Arabian Sea.
Origin time = 12 05 48.

" 23 De eP 13 36 15

" 23 De iPKP1 15 00 38.2

Tonga Islands (h = 40 km).

" 23

Up	iP		15 11 28.0
Ki	iP		15 12 01.8
Um	iP		15 11 41.1 C
Ud	eP		15 11 40
De	eP		15 11 24

Arabian Sea (h = N).

" 23

Up	iP		15 11 36.7	
Ki	iP		15 12 10.4	C
	ipP		15 12 15.7	
			micr sec	
	P	Z'	0.1 1.1	
	pP	Z'	0.2 1.4	
	Mx	E	0.7 16	
	Mx	N	0.8 19	
	Mx	Z	1.1 18	
Sk	iP		15 12 07.6	
Um	iP		15 11 50.3	C

(cont.)

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

1975 Apr.	23	(cont.)			
		Ud	iP	15 11 49.8	
		De	iP	15 11 33.5	
		Arabian Sea.			
		h = 20 km (Ki).			
		Origin time = 15 02 19.			
"	23	Up	iP	15 21 23.0	
		Ki	iP	15 21 56.1	
		Um	iP	15 21 35.5	
		De	iP	15 21 22.0	
		Arabian Sea (h = N).			
"	23	Ki	iP	18 55 39.4	
		Um	iP	18 55 17.0	
		Arabian Sea.			
		Origin time = 18 45 46.			
"	23	Ud	iP	19 18 18.4	
"	23	Up	i(P)	20 10 30.0	
"	23	Um	iP	22 38 07.1	
		Ud	iP	22 38 25.7	
		Mindanao (h = 70 km).			
		Late arrivals compared to the NEIS solution.			
"	24	Up	iP	00 15 00.8	
		Ki	iP	00 15 34.6	
		Um	iP	00 15 14.4	
		Ud	iP	00 15 13.4	
		Arabian Sea (h = N).			
"	24	Up	iP	01 45 31.6 C	
		Ki	iP	01 45 29.2 C	
		Sk	iP	01 45 49.9	
		Um	iP	01 45 25.4 C	
		Ud	iP	01 45 45.8 C	
		De	iP	01 45 45.8	
		Nepal (h = N).			
"	24	Up	iP	02 02 01.3	
		Ud	iP	02 02 12.0	
		De	eP	02 02 04	
		Pakistan.			
"	24	Um	iPKP1	03 27 37.9	
"	24	Ud	iP	04 07 15.6	
		Iran (h = 80 km).			
"	24	Ki	ePKP1	04 39 50	

1975 Apr.	24	Up	iP	05 39 42.8	
		Ki	iP	05 40 18.0	
		Um	iP	05 39 57.0	
		Arabian Sea (h = N).			
"	24	Um	iP	07 08 12.2	
"	24	Ki	iP	12 32 55.5	
		Um	iP	12 32 31.9	
		Ud	iP	12 32 33.1	
		Iran.			
"	24	Ud	iP	14 21 41.3	
		Nevada.			
		Underground explosion.			
"	24	Ki	eP	21 38 19	
			ipP	21 39 01.7	
		Afghanistan-USSR.			
		h = 210 km (Ki).			
"	24	Up	iP	23 03 11.2 C	
			iS	23 07 12.1	
				micr sec	
			P Z'	0.2 1.0	
		Ki	iP	23 04 23.0 C	
		Sk	iP	23 03 51.2 C	
		Um	iP	23 03 46.9 C	
		Ud	iP	23 03 18.4 C	
		De	iP	23 02 43.1 C	
		Greece (h = 80 km).			
"	24	Ki	iP	23 23 56.6	
		Um	iP	23 24 13.9	
			ipP	23 24 22.4	
		Ud	iP	23 24 42.2	
		Japan.			
		h = 30 km (Um).			
"	25	Ki	iPKP	00 00 47.1	
		Santa Cruz Islands			
		(h = 230 km).			
"	25	Up	iPKP1	04 59 58.6	
			iPKP2	05 00 05.0	
				micr sec	
			PKP2 Z'	0.1 0.8	
		Ki	ePKP	04 59 37	
		Sk	iPKP1	04 59 52.8	
		Um	iPKP1	04 59 47.2	
		Ud	iPKP1	05 00 00.2	
			iPKP2	05 00 07.9	
		De	iPKP2	05 00 21.5	
		Kermadec Islands (h = 420 km).			

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

1975
Apr. 25 Up iP 05 04 47.4
micr sec
P Z' 0.1 0.8
Ki iP 05 05 26.0
Sk iP 05 05 25.8
i 05 05 34.9
Um iP 05 04 57.0
Ud iP 05 05 07.7
De iP 05 04 58.2
Caspian Sea region.

" 25 Ud ePKPl 13 20 55

" 25 Ki iPKP 14 07 34.4
Chile (h = N).

" 25 Up iP 14 33 55.5
micr sec
P Z' 0.1 1.1
Ki iP 14 33 02.4
ipP 14 33 14.2
micr sec
P Z' 0.1 1.0
Sk iP 14 33 38.6
Um iP 14 33 27.6
ipP 14 33 38.8
Ud iP 14 33 59.9
De iP 14 34 20.3
iPP 14 34 31.5
Kamchatka.
h = 40 km (Ki,Um,De).
m = 5.9 (Up,Ki).

" 25 Up iP 17 48 47.9
ipP 17 49 09.9
Ki iP 17 48 08.0
Sk eP 17 48 43
Um iP 17 48 25.6
ipP 17 48 47.5
Ud iP 17 48 55.3 C
ipP 17 49 17.1
De iP 17 49 09.8
Japan.
h = 80 km (Up,Um,Ud).

" 25 Up ePKPl 21 30 25
Um iPKP 21 30 18.2
Ud iPKPl 21 30 25.5
De iPKPl 21 30 37.0
Fiji Islands (h = 610 km).

" 26 Up iP 03 25 41.8 C
micr sec
P Z' 0.1 0.9
(cont.)

1975
Apr. 26 (cont.)
Ki iP 03 25 01.3 C
ipP 03 25 26.3
Sk iP 03 25 35.5
Um iP 03 25 19.2 C
ipP 03 25 44.3
Ud iP 03 25 49.5
ipP 03 26 14.3
isP 03 26 25.4
De iP 03 26 04.8
Japan.
h = 100 km (Ki,Um,Ud).

" 26 Ud iPKPl 05 39 33.0

" 26 Ki iP 07 09 37.7

" 26 Ud iPKPl 17 39 59.5

" 26 Up iP 19 45 33.1
Ki eP 19 46 07
Um iP 19 45 45.2
Arabian Sea (h = 25 km).

" 26 Ud iPKPl 19 47 17.5
De iPKPl 19 47 29.7

" 26 Sk iPKP 21 57 01.0
Um iPKP 21 56 55.6

" 27 Ud iP 05 29 38.9

" 27 Up iP 05 43 55.3 C
micr sec
P Z' 0.8 0.8
Ki iP 05 43 38.6 C
i(PP) 05 44 42.5
micr sec
P Z' 0.7 0.6
Sk iP 05 44 10.4 C
iPP 05 45 33.1
Um iP 05 43 39.8 C
Ud iP 05 44 11.3 C
De iP 05 44 18.9 C
iPP 05 45 44.6
Kazakh SSR.
m = 6.7 (Up,Ki).
Underground explosion.

" 27 Up iP 07 18 54.9 C
micr sec
P Z' 0.1 0.9
Ki iP 07 18 17.9 C
micr sec
P Z' 0.1 0.9
(cont.)

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

1975 Apr. 27 (cont.)

	Sk	iP	07 18 49.5
	Um	iP	07 18 34.1 C
	Ud	iP	07 19 02.0 C
	De	iP	07 19 15.8

Japan (h = 60 km).
m = 5.7 (Up,Ki).

" 27	Um	iPKP	08 41 09.8
		i	08 41 27.2
" 27	Ud	iP	10 18 33.3

Greece.

" 27	Ud	iP	12 10 38.9
" 27	Up	iSgl	15 07 18.6
		iRg	15 07 24.5
	Um	iSgl	15 09 03.8
	Ud	iSgl	15 06 54.7
		iRg	15 07 01.2

Central Sweden.
Near-surface event.

" 27	Ud	iP	21 40 04.9

Crete (h = N).

" 27	Up	iPKPl	23 25 30.5
	Um	iPKPl	23 25 20.2
	Ud	iPKPl	23 25 32.1
	De	iPKPl	23 25 41.5

Kermadec Islands (h = 210 km).

" 28	Ud	iPKPl	00 59 45.5
" 28	Up	i	02 05 52.9
		i	02 07 07.1
		iSgl	02 07 37.5
	Sk	i	02 06 04.9
		i	02 06 25.1
	Um	i	02 06 16.6
		i	02 07 40.9
		iSgl	02 08 20.6
	Ud	i	02 05 30.0
		iSgl	02 06 37.8
	De	iSgl	02 07 36.6

Southwest coast of Norway, near 60.8°N, 4.7°E.
Poor agreement between data.
m = 4.4, M_L = 2.9 (Up,Sk,Um, Ud,De).

" 28	Up	iP		02 08 15.8 C	
		iPP		02 09 37.4	
				micr	sec
		P	Z'	0.2	1.0

(cont.)

1975 Apr. 28 (cont.)

	Ki	iP		02 08 48.1 C	
		iPP		02 10 21.5	
				micr	sec
		P	Z'	0.1	1.0
	Sk	iP		02 08 49.5	
	Um	iP		02 08 26.5 C	
	Ud	iP		02 08 32.1 C	
	De	iP		02 08 18.1 C	
		i		02 08 23.2	

Iran (h = 40 km).
m = 5.7 (Up,Ki).

" 28	Up	iP	02 34 41.2
		iPP	02 35 09.8
	Ki	iP	02 35 46.0 C

			micr	sec
	P	Z'	0.2	0.5
Sk	iP		02 35 19.8	
Um	iP		02 35 11.1 C	
Ud	iP		02 34 49.8 C	
De	iP		02 34 19.2 C	

East of Crete (h = N).

" 28	Ud	iPKPl	06 51 08.2
" 28	Up	iP	09 27 27.5
	Ki	iP	09 27 24.3
	Um	iP	09 27 21.1
	Ud	iP	09 27 41.5
	De	iP	09 27 43.1

Kashmir-Tibet (h = N).

" 28	Up	iP	10 51 15.2
	Ki	iP	10 50 51.2
	Um	iP	10 51 00.9
	Ud	iP	10 51 25.0
	De	eP	10 51 35

Formosa (h = 40 km).

" 28	Up	iP		11 15 04.8 D	
		i		11 15 07.8	
		iS		11 21 45	
				micr	sec
		P	Z'	0.9	1.6
		Mx	E	7.9	14
		Mx	N	7.9	21
		Mx	Z	17	15
	Ki	iP		11 15 03.7 D	
		i		11 15 08.1	
		iPP		11 16 52.8	
				micr	sec
		P	Z'	1.2	1.6
		PP	Z'	0.6	1.7
		Mx	E	13	12
		Mx	N	70	20
		Mx	Z	15	14

(cont.)

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

1975 Apr.	28	(cont.)				
		Sk	iP		11 15 25.3	D
			i		11 15 28.2	
			iPP		11 17 22.4	
		Um	iP		11 14 58.0	D
			i		11 15 00.7	
			iPP		11 16 44.2	
		Ud	iP		11 15 19.9	D
			i		11 15 23.1	
			iPP		11 17 12.2	
		De	iP		11 15 20.4	
			i		11 15 23.4	
			iPP		11 17 13.3	
		Kashmir-Tibet (h = N).				
		m = 6.7, M = 6.0 (Up,Ki).				
		Double P, smaller and larger,				
		average separation = 3.2 sec.				
"	28	Ki	iP		11 52 09.0	
		Ud	iP		11 52 35.8	
		Mindanao (h = 50 km).				
"	28	Up	iP		12 06 55.6	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		12 06 53.7	
			i		12 06 57.2	
					micr	sec
			P	Z'	0.2	1.0
		Sk	iP		12 07 15.9	
		Um	iP		12 06 50.0	
		Ud	iP		12 07 10.3	
			i		12 07 13.4	
		De	iP		12 07 11.1	
			i		12 07 13.3	
		Kashmir-Tibet (h = 30 km).				
		m = 6.0 (Up,Ki).				
		Double P, average separation				
		= 2.9 sec.				
"	28	Ki	iP		12 32 51.8	
"	28	Ud	iPKP1		12 49 34.0	
"	28	Up	iP		13 14 25.1	
		Ki	iP		13 14 18.2	
		Ud	iP		13 14 40.5	
		Kashmir-Tibet (h = 55 km).				
"	28	Up	iP		14 41 00.7	
		Ki	eP		14 40 45	
		Mindanao (h = N).				
"	28	Ki	iP		15 30 43.6	
"	28	Ud	iPKP1		17 32 45.8	
		De	iPKP1		17 32 56.7	
1975 Apr.	28	Up	iP		17 57 33.1	
		Ki	iP		17 57 15.6	
		Sk	iP		17 57 40.1	
		Ud	iP		17 57 41.4	
		Mindanao (h = 70 km).				
"	28	Ud	iP		18 13 57.7	
"	29	Ud	iP		02 42 24.9	
"	29	Up	iP		03 16 20.0	
			i		03 16 23.6	
					micr	sec
			P	Z'	0.2	1.4
		Ki	iP		03 16 19.7	
			i		03 16 22.8	
					micr	sec
			P	Z'	0.1	0.9
			Mx	N	1.2	14
		Sk	iP		03 16 42.8	
		Um	iP		03 16 15.6	
			i		03 16 17.6	
		Ud	iP		03 16 36.2	
			i		03 16 39.6	
		De	iP		03 16 37.1	
		Kashmir-Tibet (h = N).				
		m = 5.9 (Up,Ki).				
		Double P, in average				
		3.0 sec apart.				
"	29	Um	iPKP		04 36 34.5	
"	29	Ki	iP		05 17 49.9	
		Ud	eP		05 18 06	
		Kashmir-Tibet (h = N).				
"	29	Up	iP		05 55 17.4	
		Japan (h = 40 km).				
"	29	Ud	iPKP1		08 19 11.7	
		De	iPKP1		08 19 21.9	
"	29	Up	iP		08 49 58.0	
		Ud	iP		08 50 13.2	
"	29	Up	iP		08 54 24.3	
			i		08 54 31.7	
					micr	sec
			Mx	N	1.9	18
		Ki	iP		08 54 07.0	
					micr	sec
			Mx	E	0.7	13
			Mx	N	1.7	15
			Mx	Z	1.5	14
		Sk	eP		08 54 31	
		Um	iP		08 54 12.6	
		(cont.)				

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

1975 Apr.	29	(cont.)			
		Um	i	08 54 20.0	
		Ud	iP	08 54 31.7	
		Mindoro (h = 55 km).			
		M = 5.6 (Up,Ki).			
"	29	Up	iP	09 01 55.3	
		Ki	iP	09 01 37.3	
			i	09 01 44.3	
		Um	iP	09 01 43.3	C
		Ud	iP	09 02 04.5	
		Mindoro (h = 50 km).			
"	29	Ki	iP	12 13 01.0	
		Um	iP	12 12 41.2	
		Ud	iP	12 12 40.6	
		Arabian Sea (h = N).			
"	29	Up	iPKP1	13 17 19.8	D
		Ki	iSKP1	13 19 56.5	
		Sk	iSKP1	13 20 11.5	
		Um	iSKP1	13 20 07.0	
		Ud	iPKP1	13 17 21.9	D
			iSKP1	13 20 18.6	
		De	iPKP1	13 17 33.3	
		Tonga-Kermadec Islands			
		(h = 470 km).			
"	29	Um	iP	15 04 02.5	
		Ud	iP	15 04 33.7	
		Japan (h = 130 km).			
"	29	Up	iPKP2	15 40 17.3	
		Ki	iPKP1	15 39 45.1	D
			ipPKP1	15 40 16.2	
				micr sec	
			PKP1 Z'	0.1 0.8	
		Sk	iPKP1	15 39 57.5	
		Um	iPKP1	15 39 52.6	D
			ipPKP1	15 40 23.3	
		Ud	iPKP1	15 40 15.0	
			iPKP2	15 40 23.0	
		De	ePKP2	15 40 33	
		New Zealand.			
		h = 110 (Ki,Um).			
"	29	Up	iP	17 27 13.0	
		Ki	iP	17 26 37.5	
				micr sec	
			P Z'	0.1 0.6	
		Sk	eP	17 27 09	
		Um	iP	17 26 52.6	
		Ud	iP	17 27 20.7	
		Japan (h = 370 km).			

1975 Apr.	29	Up	iP	20 37 38.7	
		Ki	iP	20 36 45.6	
		Sk	iP	20 37 18.7	
		Um	iP	20 37 11.3	
		Ud	iP	20 37 41.1	
		De	iP	20 38 02.7	
		Kamchatka (h = N).			
"	29	Up	iP	20 56 24.8	
		Ki	iP	20 55 31.6	
		Um	i(pP)	20 56 07.0	
		Ud	iP	20 56 28.0	
		De	iP	20 56 50.4	
		Kamchatka (h = N).			
"	29	Ki	iP	23 00 38.7	
		Ud	iP	23 01 05.1	
		Mindanao (h = 90 km).			
"	30	Up	iP	03 14 49.1	
		Ki	iP	03 14 47.1	
				micr sec	
			P Z'	0.1 0.5	
		Sk	eP	03 15 10	
		Um	iP	03 14 42.1	
		Ud	iP	03 15 04.2	
		De	eP	03 15 04	
		Sinkiang, China (h = 30 km).			
"	30	Ki	iP	03 17 32.5	
"	30	Ki	iP	03 29 23.3	
"	30	Up	iP	04 34 18.0	C
			i	04 34 19.4	
			iPP	04 34 45.6	
			iPcP	04 37 51.0	
			iS	04 38 36	
				micr sec	
			P Z'	0.1 1.0	
			i Z'	1.2 1.0	
			Mx E	3.0 22	
			Mx N	3.9 20	
			Mx Z	7.2 21	
		Ki	iP	04 35 20.8	C
			iPP	04 36 12.1	
				micr sec	
			P Z'	0.8 0.8	
			Mx E	3.0 18	
			Mx N	3.2 20	
			Mx Z	2.7 17	
		Sk	iP	04 34 57.2	C
		Um	iP	04 34 46.6	C
		Ud	iP	04 34 28.2	C
		(cont.)			

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

1975 Apr.	30	(cont.)				
		Ud	i		04 34 30.4	
			iPP		04 35 01.7	
		De	iP		04 33 59.0	C
		Turkey (h = 55 km).				
		m = 6.6, M = 5.1 (Up,Ki).				
		Double P.				
"	30	Ki	iP		04 51 38.0	
		Mongolia (h = N).				
"	30	Up	iP		07 18 55.5	C
					micr sec	
			P	Z'	0.2 0.8	
			Mx	E	1.0 20	
			Mx	N	2.0 22	
			Mx	Z	1.4 20	
		Ki	iP		07 18 02.8	C
					micr sec	
			P	Z'	0.1 0.8	
			Mx	E	1.2 18	
			Mx	N	1.2 18	
			Mx	Z	0.8 15	
		Sk	iP		07 18 35.4	C
		Um	iP		07 18 28.6	C
		Ud	iP		07 18 56.5	C
		De	iP		07 19 18.5	C
		Aleutian Islands (h = 50 km).				
		m = 6.1, M = 5.4 (Up,Ki).				
"	30	Up	iP		09 01 15.9	
		Ud	iP		09 01 30.2	
		Tibet (h = N).				
"	30	Ki	iP		09 19 31.0	
		Ud	eP		09 19 53	
"	30	Ud	iSgl		10 50 18.5	
		De	iSgl		10 50 37.6	
"	30	Ud	iP		10 58 00.3	
"	30	Up	i(Rg)		11 10 28.4	
		Ud	iPgl		11 10 13.8	
			iSgl		11 10 39.3	
"	30	Up	iPKPl		11 18 52.0	
					micr sec	
			PKPl	Z'	0.1 0.8	
		Ud	iPKPl		11 18 54.0	
		De	iPKPl		11 19 04.1	
		Tonga-Kermadec Islands				
		(h = 70 km).				
1975 Apr.	30	Ud	iP		11 45 13.3	
		Mindanao (h = 80 km).				
"	30	Ud	iP		12 19 37.6	
"	30	Ud	iP		12 37 11.3	
"	30	Ud	iP		15 05 35.7	
		Formosa (h = N).				
"	30	Up	iP		15 11 48.7	C
		Ki	iP		15 11 14.6	C
		Sk	iP		15 11 22.5	
		Um	iP		15 11 34.1	C
		Ud	iP		15 11 40.7	C
		De	iP		15 11 57.5	
		Nevada.				
		Underground explosion.				
"	30	Ud	iP		17 25 57.6	
"	30	Ud	iP		18 01 45.2	
		De	iP		18 01 29.7	
"	30	Ud	iP		18 24 43.1	
"	30	Ud	iSKPl		18 34 11.3	
		New Hebrides Islands				
		(h = 15 km).				
"	30	Ud	iP		22 02 19.1	
			i		22 02 26.4	
		Greece.				
"	30	Um	ipP		22 18 25.0	
		Ud	iP		22 18 17.8	
			ipP		22 18 23.9	
		Arabian Sea.				
		h = 25 km (Ud).				
"	30	Up	iP		23 34 59.7	
		Ki	iP		23 34 39.4	
		Um	iP		23 34 46.4	
		Ud	iP		23 35 09.2	
		Luzon (h = 60 km).				
"	30	Up	iP		23 49 48.4	
		Ki	iP		23 50 21.8	
			ipP		23 50 27.8	
		Sk	iP		23 50 19.2	
		Um	iP		23 50 01.8	
			ipP		23 50 07.5	
		Ud	iP		23 50 00.7	
		(cont.)				

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

1975
Apr. 30 (cont.)
De eP 23 49 46
Arabian Sea.
h = 25 km (Ki,Um).

Markus Båth
Klaus Meyer
Rutger Wahlström

November 5, 1976

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

M A Y 1 - 31, 1975

1975						
May	1	Up	iP		02 47 00.4	
		Ki	iP		02 47 33.9	
		Sk	eP		02 47 31	
		Um	iP		02 47 13.0	
		Ud	eP		02 47 11	
		Arabian Sea (h = N).				
"	1	Up	iPKP2		03 40 16.6	
			i		03 40 23.3	
					micr	sec
			PKP2	Z'	0.1	1.0
		Ki	iPKP		03 40 13.4	
			ipPKP		03 40 23.5	
					micr	sec
			pPKP	Z'	0.1	1.1
		Sk	iPKP1		03 40 21.0	
			ipPKP1		03 40 31.8	
		Um	iPKP1		03 40 12.5	
			ipPKP1		03 40 22.7	
		Ud	iPKP1		03 40 18.4	
			iPKP2		03 40 26.6	
			ipPKP2		03 40 35.8	
		De	iPKP2		03 40 22.6	
		West of Macquarie Islands.				
		h = 30 km (Ki,Sk,Um,Ud).				
"	1	Ud	i(P)		03 46 47.9	
"	1	Ud	iP		06 37 04.3	
"	1	Up	ipP		08 25 01.1	
		Ki	ipP		08 24 26.6	
		Um	iP		08 24 30.0	
			ipP		08 24 45.5	
		Ud	iP		08 24 57.9	
			ipP		08 25 13.6	
		De	i		08 25 31.1	
		Japan.				
		h = 50 km (Um,Ud).				

1975						
May	1	Up	iPKP1		09 53 34.9	
		Ud	iPKP1		09 53 37.4	
		De	iPKP1		09 53 48.4	
"	1	Up	iP		11 01 32.3	
		Um	i		11 01 40.3	
		Ud	iP		11 01 48.0	
		De	iP		11 01 45.6	
		Afghanistan-USSR (h = 120 km).				
"	1	Ud	iP		12 02 25.3	
		Guatemala (h = N).				
"	1	Up	iP		12 49 30.8	
		Ki	iP		12 49 20.1	
		Um	iP		12 49 19.3	
		Ud	iP		12 49 39.9	
		Mindoro (h = 50 km).				
"	1	Up	iSg1		16 38 41.2	
		Sk	e		16 37 29	
			iSg1		16 37 47.8	
		Um	eSg1		16 39 27	
		Ud	iSn		16 37 28.7	
			iSg1		16 37 40.3	
		De	i		16 38 45.0	
		Coast of southwest Norway,				
		near 61°N, 5°E.				
		Origin time = 16 35 38.				
"	1	Up	iP		17 02 11.5	C
			ipP		17 02 20.8	
					micr	sec
			P	Z'	0.2	1.4
			Mx	E	1.3	12
			Mx	Z	2.3	11
		Ki	iP		17 01 43.4	C
			ipP		17 01 53.3	
		(cont.)				

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

1975
May 1 (cont.)

				micr	sec	
Ki	P	Z'	0.1	1.4	
	pP	Z'	0.3	2.2	
	Mx	E	1.0	12	
	Mx	N	1.3	13	
	Mx	Z	1.0	12	
Sk	iP			17 02 12.5	
Um	iP			17 01 53.6	C
	iS			17 11 32	
Ud	iP			17 02 20.6	C
	i(PcP)			17 02 33.0	
De	iP			17 02 32.4	

Ryukyu Islands.
h = 30 km (Up,Ki).
m = 5.8, M = 5.5 (Up,Ki).

" 1	Up	iSgl	17 06 30.5	
	Sk	iSgl	17 05 38.1	
	Um	eSgl	17 07 25	
	Ud	iPn	17 04 31.9	
		iSn	17 05 19.4	
		i	17 05 36.1	
	De	e	17 06 29	
		iSgl	17 06 46.9	

Same location as the event 16 35 this day.
Origin time = 17 03 29.

" 1	Up	iP	18 06 21.9	
	Sk	eP	18 06 24	
	Um	iP	18 06 35.0	
	Ud	iP	18 06 13.9	

" 1	Up	iP	18 58 53.1	
	Ki	iP	18 57 59.3	
	Sk	iP	18 58 30.1	
	Um	iP	18 58 26.0	
		ipP	18 58 32.1	
	Ud	iP	18 58 51.3	
	De	iP	18 59 14.5	
		ipP	18 59 20.4	

Aleutian Islands.
h = 20 km (Um,De).

" 1	Up	iP	19 12 32.0	
	Ki	iP	19 11 39.2	
	Um	iP	19 12 04.4	
	Ud	iP	19 12 30.6	

Aleutian Islands (h = N).

" 1	Ki	iP	19 19 33.1	
	Um	iP	19 19 49.4	

(cont.)

1975
May 1 (cont.)

Ud	iP	19 20 19.6	

Japan (h = 70 km).

" 1	Um	iP	19 31 29.4	
	Ud	iP	19 31 58.8	

Aleutian Islands (h = 10 km).

" 1	Up	iP		21 22 15.1		
	Ki	iP		21 22 05.8		C
				micr	sec	
		Mx	E	1.5	18	
		Mx	N	1.6	17	
		Mx	Z	1.1	15	
	Um	iP		21 22 03.6		
	Ud	iP		21 22 24.2		

Mindoro (h = 50 km).

" 2	Up	iPKPl	00 01 43.2	
	Ud	iPKPl	00 01 46.0	
	De	iPKPl	00 01 53.5	

" 2	Ki	iP	02 22 33.7	
	Um	iP	02 22 23.9	
	Ud	iP	02 22 43.0	

Hindu Kush (h = 240 km).

" 2	Ud	iP	05 09 06.4	

Turkey (h = 45 km).

" 2	Um	iP	05 45 51.1	

" 2	Up	iP	07 28 14.2	
	Um	iP	07 28 47.1	

" 2	Ki	iP	07 37 58.3	
	Um	iP	07 38 43.2	
	Ud	iP	07 39 20.2	

" 2	Up	i(pP)	11 15 32.6	
	Ud	iP	11 16 15.3	

Kurile Islands (h = 55 km).

" 2	Up	i(P)	11 16 21.6	

" 2	Up	iP	14 16 45.1	
	Ki	iP	14 15 53.9	
	Um	iP	14 16 13.4	
		i	14 16 24.6	
	Ud	iP	14 16 50.5	

" 2	Up	iP	14 20 03.2	
	Ki	eP	14 19 10	C

(cont.)

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

1975
May 2 (cont.)

	Um	iP	14 19 32.0
	Ud	iP	14 20 02.3
		i	14 20 15.5

Aleutian Islands (h = N).

" 2	Up	iP	20 47 45.2
	Ki	eP	20 47 14
	Sk	eP	20 47 42
	Um	iP	20 47 27.6
	Ud	iP	20 47 48.0
" 2	Um	iP	21 36 22.9

Aleutian Islands (h = N).

" 3	Um	iP	00 08 35.1
	Ud	iP	00 08 58.0

Mindanao (h = 50 km).

" 3	Ud	iP	01 06 59.6
" 3	De	iP	01 36 49.3
" 3	Up	eP	03 20 58
		i	03 21 00.8
	Sk	iP	03 21 43.5
	Um	iP	03 21 41.0
		i	03 21 48.8
	Ud	iP	03 21 05.4
		i	03 21 11.1
	De	iP	03 20 34.9

Greece.

" 3	Up	iP	05 26 15.9 C
	Ki	iP	05 25 29.7
	Sk	iP	05 26 06.0
	Um	iP	05 25 50.7 C
	Ud	iP	05 26 22.0 C
	De	iP	05 26 39.9

Okhotsk Sea (h = 370 km).

" 3	Up	iP	05 51 26.0
	Ki	iP	05 51 08.9
	Ud	iP	05 51 34.2

Mindanao (h = 130 km).

" 3	Up	iP	06 57 38.4 C	
			micr	sec
		P Z'	0.2	0.9
	Ki	iP	06 57 10.0 C	
			micr	sec
		P Z'	0.2	1.0
	Sk	iP	06 57 35.3 C	
	Um	iP	06 57 21.9 C	
	Ud	iP	06 57 44.3	

(cont.)

1975
May 3 (cont.)

	De	iP	06 57 55.6

Mariana Islands (h = 70 km).
m = 6.3 (Up,Ki).

" 3	Up	iP	07 17 59.5
	Um	iP	07 17 34.6
	Ud	iP	07 18 05.5

Kurile Islands (h = N).

" 3	Ki	iP	10 36 04.0
	Um	iP	10 36 32.2
	Ud	iP	10 36 57.1

Unimak Island (h = 35 km).

" 3	Up	iP	10 38 26.8
	Um	iP	10 38 32.8
" 3	Up	i	11 15 26.9
		iPn	11 15 35.6
	Ud	iP	11 15 31.3

Caspian Sea (h = N).

" 3	Ud	iP	11 16 08.5
" 3	Up	iP	16 58 30.1
	Ud	iP	16 58 40.4

Ryukyu Islands (h = 60 km).

" 3	Up	iP	17 17 02.3 C
	Ki	iP	17 16 33.7
	Ud	iP	17 17 10.8 C
		ipP	17 17 26.1
	De	i	17 17 35.9

Ryukyu Islands.
h = 55 km (Ud).

" 3	Up	iP	17 30 28.4
	Ki	iP	17 30 00.2
	Ud	iP	17 30 37.2 C

Ryukyu Islands (h = 45 km).

" 3	Ud	iP	18 17 10.3
" 3	Up	iP	18 40 56.0
		i	18 41 19.2
	Ki	iP	18 40 28.3
	Sk	iP	18 40 57.0
	Um	i	18 40 52.4
	Ud	iP	18 41 05.2 C
		i	18 41 18.2
	De	iP	18 41 17.0

Ryukyu Islands (h = 25 km).

" 4	Up	i(PKP)	00 25 27.1

(cont.)

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

1975
May 4 (cont.)

	Up	iPKP	00 25 40.8
	Ud	i(PKP)	00 25 30.5
		iPKP	00 25 42.7
	De	e(PKP)	00 25 38
		iPKP	00 25 51.8
" 4	Um	iP	00 46 56.0
" 4	Up	iP	02 29 57.2
		ipP	02 30 06.6
	Ud	iP	02 30 06.4
		ipP	02 30 16.7
	De	iP	02 30 18.2

Ryukyu Islands.
h = 35 km (Up,Ud).

" 4	Up	iP	03 52 39.1
	Ki	iP	03 52 13.1
	Um	iP	03 52 21.9
	Ud	iP	03 52 49.1
" 4	Ud	iPKP1	06 41 44.2
	De	iPKP1	06 41 55.3
" 4	Um	iP	07 43 32.1
	Ud	iP	07 43 59.6

Japan (h = 340 km).

" 4	Ki	iP	08 00 07.8
	Ud	iP	08 00 23.7

Kashmir-Tibet (h = N).

" 4	Up	iP		09 43 27.9 C
		ipP		09 43 34.1
		iS		09 52 57
				micr sec
		P	Z'	0.2 0.9
		pP	Z'	0.9 1.4
		Mx	E	2.4 14
		Mx	N	3.9 17
		Mx	Z	5.8 15
	Ki	iP		09 42 48.1
		ipP		09 42 54.2
		i		09 43 06.9
				micr sec
		P	Z'	0.1 0.9
		pP	Z'	0.3 1.3
		i	Z'	0.9 2.0
		Mx	E	4.6 14
		Mx	N	3.4 14
		Mx	Z	4.3 16
	Sk	iP		09 43 21.3
		ipP		09 43 27.5

(cont.)

1975
May 4 (cont.)

	Sk	iPP	09 45 57.5
	Um	iP	09 43 05.7 C
		ipP	09 43 11.6
		iS	09 52 11
	Ud	iP	09 43 35.1 C
		ipP	09 43 41.3
		i	09 47 11.0
	De	iP	09 43 50.1
		ipP	09 43 56.5

Japan.
h = 20 km (Up,Ki,Sk,Um,Ud,De).
m = 6.5, M = 6.1 (Up,Ki).

" 4	Um	iP	09 51 12.7 C
	Ud	iP	09 51 42.1 C

Japan (h = 40 km).

" 4	Um	iP	12 20 11.4
	Ud	iP	12 20 40.6

Japan (h = 25 km).

" 4	Um	iP	13 08 51.1
	Ud	iP	13 09 22.1

Japan (h = 70 km).

" 4	Up	iPKP1	21 37 46.5
	Ud	iPKP1	21 37 47.3
	De	iPKP1	21 37 58.0

Fiji Islands (h = 560 km).

" 4	Up	iP	21 39 14.7
	Um	iP	21 39 03.1
	Ud	iP	21 39 26.7

Szechwan, China (h = N).

" 5	Ud	iP	02 38 27.0
" 5	Ud	iP	01 21 38.3

Greece.

" 5	Ud	iPKP1	03 23 51.8
	De	iPKP1	03 24 02.2
" 5	Um	iP	04 30 19.6

Zaire (h = N).

" 5	Up	iP		05 28 16.2
		ipP		05 28 20.2
		i		05 28 41.9
		iS		05 35 59
				micr sec
		P	Z'	0.1 0.9
		pP	Z'	0.2 0.9

(cont.)

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

1975 May 5 (cont.)

	Up		micr	sec
		Mx E	20	13
		Mx N	28	13
		Mx Z	33	13
	Ki	iP	05 28 04.4	
		ipP	05 28 08.6	
			micr	sec
		pP Z'	0.2	1.4
		Mx E	25	13
		Mx N	20	12
		Mx Z	23	12
	Sk	iP	05 28 30.7	
	Um	iP	05 28 04.8	
		i	05 28 06.3	
		i	05 28 47.8	
		iS	05 35 41	
	Ud	iP	05 28 30.2	
		ipP	05 28 34.4	
		iPcP	05 29 31.3	
	De	iP	05 28 33.7	
		ipP	05 28 37.6	
		iPcP	05 29 34.3	

Tsinghai, China.
h = 15 km (Up,Ki,Ud,De).
m = 6.1, M = 6.6 (Up,Ki).

" 5	Up	iP	05 39 22.8
	Ki	iP	05 39 11.5
	Sk	iP	05 39 38.2
	Um	i	05 39 15.7
	Ud	iP	05 39 36.8
	De	iP	05 39 41.8

Tsinghai, China (h = N).

" 5	Up	iSgl	08 42 30.5
	Sk	eSgl	08 43 22
	Ud	iPn	08 41 20.8
		iPgl	08 41 22.3
		iSn	08 41 38.8
		iSgl	08 41 42.0
		iRg	08 41 49.5
	De	iSn	08 42 12.5
		iSgl	08 42 19.5

Dalsland, Sweden,
58.9°N, 12.1°E.
Origin time = 08 40 57.
m = 4.4, M_L = 3.0 (Ud).

Near-surface event.

" 5	Up	iP	08 46 52.5
	Um	i	08 46 39.7

Japan (h = 55 km).

1975 May 5

	Ud	iP	09 35 22.8
" 5	Ud	iP	11 37 14.3
" 5	Sk	i(P)	11 50 07.8
		i	11 50 12.6
" 5	Um	iP	12 09 42.9
	Ud	iP	12 10 09.0

Japan (h = 70 km).

" 5	Ki	iP	15 47 31.8
		iS	15 48 37.9
		i	15 48 57.0
		iTSg	15 53 04.2
	Sk	iS	15 49 32.3
	Um	iS	15 49 57.8
		i	15 50 14.4
		i	15 50 32.5
	Ud	iP	15 48 41.3
		i	15 50 07.2
		i	15 51 12.6

Norwegian Sea,
near 71 1/2°N, 7 1/2°E.
Origin time = 15 45 58.

" 5	Up	i(P)	19 13 45.9
" 5	Up	iP	19 36 07.2
	Ki	iP	19 36 05.8
			micr sec
		P Z'	0.1 0.8
	Sk	iP	19 36 28.1
	Um	iP	19 36 00.7
	Ud	iP	19 36 22.6
	De	iP	19 36 23.5

Kashmir-Tibet (h = 20 km).

" 5	Up	iP	19 55 20.8
	Ud	iP	19 55 33.8
	De	iP	19 55 19.4

Iran (h = 50 km).

" 5	Up	i(PKP)	20 47 24.1
		iPKPl	20 47 25.5
		iX	20 51 06.7
			micr sec
		PKPl Z'	0.1 0.8
		X Z'	0.1 1.1
		Mx N	1.4 20
		Mx Z	2.1 22
	Ki	iPKP	20 47 14.8
		iSKPl	20 50 40.1

(cont.)

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

1975 May 5 (cont.)

			micr	sec	
Ki					
	PKP	Z'	0.1	0.9	
	SKP1	Z'	0.3	2.0	
Sk	i(PKP)		20 47	17.8	
	iSKP1		20 50	55.2	
Um	i(PKP)		20 47	13.1	
	i		20 47	17.7	
	iPKP		20 47	20.6	
	iSKP1		20 50	51.9	
Ud	i(PKP)		20 47	26.0	
	iPKP1		20 47	27.4	
	iSKP1		20 51	03.6	
	iX		20 51	09.7	
De	iPKP1		20 47	37.2	D
	iSKP1		20 51	12.5	

Tonga-Kermadec Islands (h = 90 km).

" 5	Up	iPKP1	21 15	55.3
	Ud	iPKP1	21 15	57.8
" 5	Up	iP	22 07	40.3
		i	22 07	50.3
	Ki	iP	22 07	23.5
	Sk	iP	22 07	46.0
	Um	iP	22 07	28.7
	Ud	iP	22 07	49.5

Mindoro (h = 10 km).

" 6	Um	iP	03 30	44.2

Ceram Sea (h = 25 km).

" 6	Um	iP	04 39	43.2
" 6	Ud	iP	04 49	52.2
" 6	Up	i(P)	07 18	43.1
" 6	Up	iP	10 20	42.9 C
	Ki	iP	10 20	08.1
	Um	iP	10 20	22.4
	Ud	iP	10 20	49.7

Japan (h = 20 km).

" 6	Up	iP	10 30	19.4	
		i	10 30	21.1	
		iPP	10 33	17.8	
		iS	10 40	12	
			micr	sec	
	P	Z'	0.1	0.9	
	i	Z'	0.1	0.7	
	Mx	E	3.8	20	

(cont.)

1975 May 6 (cont.)

			micr	sec	
Up					
	Mx	N	4.7	14	
	Mx	Z	3.8	15	
Ki	iP		10 29	44.9	
	iS		10 39	06	
			micr	sec	
	P	Z'	0.2	1.0	
	Mx	E	7.1	16	
	Mx	N	8.7	17	
	Mx	Z	4.4	13	
Sk	iP		10 30	15.8	
Um	iP		10 29	58.8	
	i		10 30	00.5	
	iS		10 39	34	
Ud	iP		10 30	25.9	
	i		10 30	28.2	
De	iP		10 30	35.0	

Japan (h = N).
m = 6.1, M = 6.1 (Up,Ki).
Double P (Up,Um,Ud), smaller and larger, average separation 1.9 sec.

" 6	Up	iP	11 13	13.3
	Um	iP	11 12	51.3
" 6	Up	iSg1	12 53	45.8
	Ud	iSg1	12 54	29.9
	De	iSg1	12 54	21.0

Near north Gotland, Sweden, 58.0°N, 18.7°E.
Origin time = 12 52 45.
m = 4.1, M_L = 2.3 (Up,De).
Probably explosion.

" 6	Up	iSg1	15 27	50.8
	Ud	iPg1	15 26	38.5
		iSg1	15 27	14.3
		iRg	15 27	30.4
	De	iSg1	15 26	44.6
		i	15 26	51.8

Off coast of Bohuslän, Sweden, 57.6°N, 11.7°E.
Origin time = 15 25 52.
Near-surface event.

" 6	Up	iRg	16 37	24.9
	Ud	iRg	16 37	12.5

Central Sweden.
Near-surface event.

" 6	Ud	iP	17 40	34.4

Kurile Islands (h = 35 km).

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

1975
May 6 Ud iP 21 16 42.2
Mexico (h = 20 km).

" 6 Um iP 21 44 48.7
Ud iP 21 45 14.0
Unimak Island (h = 50 km).

" 6 Ud iP 23 38 51.5
Gulf of Aden (h = N).

" 7 Up eP 03 44 42
Sk eP 03 44 46
Ud iP 03 44 51.4
Mindanao (h = 45 km).

" 7 Ud iPKP1 07 50 57.2
De iPKP1 07 51 08.3

" 7 Um i(P) 10 44 33.3

" 7 Up iSg1 12 16 23.7
iRg 12 16 25.9
Ud iSg1 12 16 31.6
iRg 12 16 37.2
Central Sweden.
Near-surface event.

" 7 De iP 12 37 45.1
Turkey (h = N).

" 7 Up iP 14 00 47.4

" 7 Ud iPKP1 14 03 47.6
De iPKP1 14 03 59.4
Tonga-Kermadec Islands
(h = 620 km).

" 7 Ud iP 17 50 17.9
i 17 50 22.1
Turkmen SSR.

" 7 Um i(P) 18 04 33.9
Turkey (h = N).

" 7 Sk eSg1 18 18 05
Um iSg1 18 19 46.1
Ud iSn 18 17 39.8
iSg1 18 17 55.0
Coast of southwest Norway,
near 60 1/2°N, 5°E.
Checked with Bergen and
Kongsberg readings.

" 7 Ud iSg1 18 23 15.7
(cont.)

1975
May 7 (cont.)
Same region as the preceding
event.
By combination with Bergen
reading.

" 7 Um iP 18 29 56.1
Ud iP 18 30 15.8
Tadzhik SSR (h = 250 km).

" 7 Ki iPKP 18 53 28.3
Um i(PKP) 18 53 16.7
iPKP 18 53 20.6
South Sandwich Islands
(h = N).

" 7 Up i(P) 19 20 52.8

" 7 Um iP 21 19 50.4
Ud iP 21 20 09.6
Molucca Passage (h = 100 km).

" 7 Ud iP 23 02 03.8

" 7 Up iPKP1 23 30 10.5
Um iPKP1 23 29 59.7
Ud iPKP1 23 30 12.5

" 8 Up iP 01 10 26.3
Ki iP 01 09 32.4
Sk iP 01 09 59.5
Um iP 01 10 00.4
ipP 01 10 06.1
Ud iP 01 10 23.3
ipP 01 10 29.9
De iP 01 10 46.0
Kodiak Island.
h = 20 km (Um,Ud).

" 8 Ud iP 06 50 51.7
i 06 51 02.4

" 8 Ud iP 07 48 49.4
Mariana Islands (h = N).

" 8 Up iPg1 09 30 25.3
iSg1 09 30 41.2
iRg 09 30 48.8
Ud iRg 09 30 33.9
Central Sweden.
Origin time = 09 30 03.
Near-surface event.

" 8 Up iP 10 37 59.7 D
(cont.)

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

1975 May 8 (cont.)

Up	ipP		10 38 10.5	
			micr	sec
	P	Z'	0.1	0.8
	pP	Z'	0.1	0.8
Ki	iP		10 37 07.4	D
	ipP		10 37 17.4	
Sk	iP		10 37 39.1	
	ipP		10 37 49.7	
Um	iP		10 37 32.5	
	ipP		10 37 43.0	
Ud	iP		10 38 00.8	D
	ipP		10 38 11.1	
De	eP		10 38 20	
	ipP		10 38 30.2	

Aleutian Islands.
h = 35 km (Up,Ki,Sk,Um,Ud, De).

" 8

Up	iP		12 04 44.1
Ki	iP		12 04 47.7
Sk	iP		12 05 08.1
	i		12 05 14.6
Um	iP		12 04 43.8
	i		12 05 06.5
Ud	iP		12 05 00.2
De	i		12 05 02.7

Kashmir-Tibet (h = N).

" 8 Up i(P) 16 01 22.3

" 8

Up	iP		19 24 56.2
	i		19 25 02.8
Ki	iP		19 24 55.0
	i		19 25 03.0
Um	iP		19 24 52.8
Ud	iP		19 25 05.7

Sumatra.

" 8

Um	iPKP		20 53 42.9
De	iPKP		20 53 55.3

Loyalty Islands (h = 80 km).

" 8 Um iPKP 23 11 25.9
Solomon Islands (h = 60 km).

" 9

Up	iP		04 24 34.3	C
	iPP		04 28 09.6	
Ki	iP		04 24 34.0	C
	ipP		04 24 46.7	
	iPP		04 28 10.2	
			micr	sec
	P	Z'	0.1	0.8
Sk	iP		04 24 47.4	C
Um	iP		04 24 31.5	C

(cont.)

1975 May 9 (cont.)

Um	iPP		04 28 01.7
Ud	iP		04 24 43.7 C
	ipP		04 24 56.5
	iPP		04 28 17.9
De	iP		04 24 42.0

Sumatra.
h = 45 km (Ki,Ud).

" 9

Up	iPKP1		17 29 52.1
Ud	i(PKP)		17 29 54.1
	iPKP1		17 29 55.3
De	iPKP1		17 30 05.5

" 9

Ki	iPg1		17 31 50.2	
	iSg1		17 32 18.0	
			micr	sec
	Sg1	Z'	0.1	0.3
Um	iSg1		17 34 09.4	

Off coast of north Norway, 69.2°N, 16.2°E.
Origin time = 17 31 15.
m = 4.4, M_L = 3.1 (Ki).
By combination with Tromsoe reading.

" 9

Ki	iPg1		18 03 35.1	
	iSg1		18 04 03.1	
			micr	sec
	Sg1	Z'	0.2	0.4
Um	iSg1		18 05 52.6	

Same location as the preceding event.
Origin time = 18 02 59.
m = 4.5, M_L = 3.3 (Ki).
By combination with Tromsoe reading.

" 9

Ki	iP		18 08 14.4
Um	iP		18 07 51.1
Ud	iP		18 07 51.9

Iran (h = 35 km).

" 9

Up	iP		18 08 54.2
	iPP		18 10 22.6
Ki	iP		18 09 32.0
Sk	iP		18 09 31.4
Um	iP		18 09 08.1
Ud	iP		18 09 09.7
	i		18 09 13.6
De	iP		18 08 53.6
	i		18 09 03.9

Iran (h = 55 km).

" 9 Ud iP 18 29 59.7

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

1975							
May	9	Up	iPKP		18	54	44.4
			iPKP1		18	54	50.7
			iPKP2		18	54	59.0
			iPP		18	58	24.4
					micr		sec
			PKP	Z'	0.2		1.6
			PKP1	Z'	0.7		1.4
			Mx	E	2.1		26
			Mx	N	2.8		22
			Mx	Z	3.8		23
		Ki	i(PKP)		18	54	29.8
			iPKP1		18	54	31.4
					micr		sec
			Mx	E	1.6		21
			Mx	N	2.2		22
			Mx	Z	2.1		21
		Sk	iPKP		18	54	41.3
			iPKP1		18	54	45.3
		Um	iPKP		18	54	38.3
			iPKP1		18	54	40.3
		Ud	iPKP		18	54	46.1
			iPKP1		18	54	52.4
			iPKP2		18	55	01.8
			iPP		18	58	42.4
		De	iPKP		18	54	49.8
			iPKP1		18	55	00.1
			iPKP2		18	55	12.7
		South of Kermadec Islands					
		(h = 45 km).					
		M = 6.0 (Up,Ki).					
"	9	Ud	iP		19	21	14.0
		Mindanao (h = 290 km).					
"	9	Up	iPKP1		21	51	05.1
			iPKP2		21	51	13.0
		Sk	iPKP1		21	50	59.7
		Um	iPKP1		21	50	54.5
		Ud	iPKP1		21	51	06.8
			iPKP2		21	51	16.4
		De	ePKP1		21	51	16
			iPKP2		21	51	30.3
		South of Kermadec Islands.					
"	10	Up	iP		04	38	17.4
			ipP		04	38	27.7
		Ki	iP		04	37	24.9
			ipP		04	37	35.0
		Ud	iP		04	38	18.7
			ipP		04	38	29.0
		Aleutian Islands.					
		h = 40 km (Up,Ki,Ud).					
"	10	Um	ePKP		05	41	23
		New Britain (h = 130 km).					

1975							
May	10	Up	iPKP1		13	42	13.2
		Ud	iPKP1		13	42	15.0
"	10	Sk	iP		13	43	02.8
		Um	iP		13	42	35.1
		Ud	iP		13	42	53.9
		Pakistan (h = N).					
"	10	Up	iP		14	07	07.7
		Ud	iP		14	07	19.9
		De	i		14	06	53.3
"	10	Up	iPdiff		14	43	06.5
			iPKP		14	46	33.9 C
			i		14	46	45.2
			iPP		14	48	04.6
			iPKKP		14	56	31.7
					micr		sec
			i	Z'	0.1		0.8
			PP	Z'	6.9		3.3
			Mx	E	132		20
			Mx	N	103		20
			Mx	Z	263		20
		Ki	iPKP		14	46	41.8
			iPP		14	48	29.9
					micr		sec
			PKP	Z'	0.9		2.3
			PP	Z'	2.4		2.3
			Mx	E	100		20
			Mx	N	109		19
			Mx	Z	62		19
		Sk	iPKP		14	46	32.9 C
			i		14	47	19.2
			iPP		14	48	03.2
		Um	iPKP		14	46	38.5
			iPP		14	48	25.5
			iPKKP		14	56	19.6
			i		14	57	24.9
		Ud	iPKP		14	46	30.1 C
			i		14	47	39.0
			iPP		14	47	57.4
			iPKKP		14	56	41.5
		De	iPKP		14	46	28.8 C
			iPP		14	47	51.2
			iPKKP		14	57	51.4
		Chile (h = 5 km).					
		m = 7.4, M = 7.7 (Up,Ki).					
"	10	Up	iPKP		15	00	54.7
		Ki	iPKP		15	01	01.5
		Sk	iPKP		15	00	53.3
		Um	iPKP		15	00	59.3
		Ud	iPKP		15	00	51.0
		Chile (h = N).					

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

1975							
May	10	Um	iPKP		15 10 28.6		
		Ud	iPKP		15 10 18.8		
		Chile.					
"	10	Sk	i(PKP)		18 31 03.2		
		Um	iPKP		18 31 16.9		
		Chile (h = 35 km).					
"	11	Up	iP		02 35 56.6		
		Ud	iP		02 36 04.2		
		Ryukyu Islands (h = N).					
"	11	Um	iP		04 26 18.4		
		Ud	iP		04 26 16.1		
"	11	Up	iP		06 57 19.6		
		Sk	iP		06 57 43.1		
		Um	iP		06 57 16.6		
		Ud	iP		06 57 36.0		
		De	iP		06 57 32.5		
		Kashmir-Tibet (h = 25 km).					
"	11	Up	iP		07 07 27.8		
			i		07 08 12.6		
			iS		07 16 23		
					micr	sec	
			P	Z'	0.2	1.1	
			Mx	E	4.2	14	
			Mx	N	8.7	17	
			Mx	Z	13	16	
		Ki	iP		07 06 34.4		
					micr	sec	
			Mx	E	4.7	12	
			Mx	N	6.3	15	
			Mx	Z	6.6	15	
		Sk	iP		07 07 12.2		
		Um	iP		07 07 00.1		
			iS		07 15 30		
		Ud	iP		07 07 31.7 C		
		De	iP		07 07 50.9		
		Kurile Islands (h = 60 km).					
		M = 6.1 (Up,Ki).					
"	11	Up	iP		07 22 27.5		
		Ki	iP		07 21 36.4		
		Um	iP		07 22 01.3		
		Ud	iP		07 22 32.9		
		Kurile Islands (h = 25 km).					
"	11	Ud	iPKP		07 47 42.5		
		Santa Cruz Islands (h = 35 km).					
"	11	Up	iPKP1		10 40 35.5 C		
		Ud	iPKP1		10 40 37.1 C		
		De	iPKP1		10 40 47.3 C		
1975							
May	11	Up	iP		14 28 03.7		
			ipP		14 28 16.6		
					micr	sec	
			P	Z'	0.1	0.8	
		Ki	iP		14 27 42.7		
			ipP		14 27 55.4		
					micr	sec	
			pP	Z'	0.1	0.8	
		Sk	iP		14 28 08.4 C		
			ipP		14 28 21.2		
		Um	iP		14 27 49.7		
			ipP		14 28 02.3		
		Ud	iP		14 28 13.0		
			ipP		14 28 25.8		
		De	iP		14 28 21.0		
			ipP		14 28 34.1		
		Luzon.					
		h = 45 km (Up,Ki,Sk,Um,Ud,De).					
		m = 5.8 (Up,Ki).					
"	11	Up	eP		18 47 28		
"	11	Up	iP		20 32 36.9		
		Kurile Islands (h = 45 km).					
"	11	Up	iP		20 45 59.2		
		Ki	iP		20 45 07.7		
		Ud	iP		20 46 04.0		
		De	i		20 46 38.6		
		Kurile Islands (h = 40 km).					
"	11	Up	iP		23 16 46.2		
			ipP		23 15 55.7		
		Ki	iP		23 17 58.1		
		Sk	iP		23 17 27.6		
		Ud	iP		23 16 55.9		
		De	iP		23 16 19.6		
		Greece.					
		h = 40 km (Up).					
"	12	Up	iSgl		00 56 45.8		
		Sk	eSgl		00 56 00		
		Um	iSgl		00 57 40.9		
		Ud	iPgl		00 54 51.9		
			iS*		00 55 41.2		
			iSgl		00 55 45.5		
		De	iSgl		00 56 31.7		
		Near Bergen, Norway, 60.3°N, 5.1°E.					
		Origin time = 00 53 34.					
		By combination with Bergen and Kongsberg readings.					
"	12	Ki	i(PKP)		01 00 40.3		
		Sk	iPKP		01 00 59.2		
		Um	iPKP		01 00 54.0		
		Santa Cruz Islands (h = 60 km).					

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

1975
May 12 Ud i 05 35 55.1
i(Sgl) 05 36 07.9

" 12 Up iPKP2 08 19 23.6
Sk iPKP1 08 19 12.1
Um iPKP1 08 19 05.9
ipPKP1 08 19 21.6
Ud iPKP1 08 19 17.1
ipPKP1 08 19 33.2
De ipPKP1 08 19 43.1
Kermadec Islands.
h = 55 km (Um,Ud).

" 12 Up iP 08 42 01.2
Ki iP 08 41 08.0
Sk iP 08 41 51.0
Ud iP 08 42 07.2
De iP 08 42 27.5
Kurile Islands (h = 45 km).

" 12 Up iP 10 22 35.0
ipP 10 22 43.7
iPcP 10 23 07.4

		micr	sec
P	Z'	0.1	1.1
Mx	E	1.4	15
Mx	N	4.4	19
Mx	Z	4.7	16

Ki iP 10 22 45.4

		micr	sec
Mx	E	2.2	16
Mx	N	1.8	18
Mx	Z	1.5	18

Sk iP 10 22 21.4
Um iP 10 22 06.6
Ud iP 10 22 40.5
ipP 10 22 48.9
De iP 10 22 59.7
Kurile Islands.
h = 30 km (Up,Ud).
M = 5.6 (Up,Ki).

" 12 Up iP 11 53 51.8
Ud iP 11 53 56.3
Kurile Islands (h = 45 km).

" 12 Ud iP 11 58 39.4
Sinkiang, China (h = N).

" 12 Um iP 13 01 19.4

" 12 Up iSgl 13 34 13.8
Sk eSgl 13 34 13
e 13 34 27
Ud i 13 32 55.7
iS* 13 33 13.7
(cont.)

1975
May 12 (cont.)
Ud iSgl 13 33 16.7
De iSn 13 33 05.9
iSgl 13 33 26.6
South Norway,
58.4°N, 6.6°E.
Origin time = 13 31 11.
m = 4.3, M_L = 2.8 (Ud).
By combination with Bergen and Kongsberg readings.

" 12 Ud iP 13 40 41.3

" 12 Ud i(P) 14 53 39.3

" 12 Ud iP 15 20 00.0

" 12 Up iSn 15 52 44.2
iSgl 15 52 53.7
Ud iPn 15 51 43.1
iSgl 15 52 04.8
iRg 15 52 10.9
De iSn 15 52 34.8
Dalsland, Sweden,
58.9°N, 12.1°E.
Origin time = 15 51 20.
Near-surface event.
Cf the event on May 5, 08 40.

" 12 Ud iP 19 07 02.0

" 12 Ud iP 19 30 59.0
Iceland (h = N).

" 12 Ud i(P) 19 36 41.2

" 12 Up iP 20 16 58.1
Ki iP 20 16 29.6 C
Sk iP 20 16 54.8
Um iP 20 16 42.4
Ud iP 20 17 04.1
De iP 20 17 15.3
Mariana Islands (h = 170 km).

" 13 Up i(P) 00 02 13.7
iP 00 02 21.7
Um iP 00 01 54.7
Ud iP 00 02 22.2
Aleutian Islands (h = 55 km).

" 13 Up iP 00 27 40.9
Sk iP 00 28 22.7
Um iP 00 28 17.3
Ud iP 00 27 48.7
(cont.)

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

1975
May 13 (cont.)

	Ud	i	00 27 54.4	
	De	iP	00 27 13.6	
	Greece (h = 35 km).			
" 13	Ki	ePKP	06 43 20	
	Um	iPKP	06 43 16.5	
	Ud	iPKP	06 43 09.4	
	De	iPKP	06 43 08.2	
	Chile (h = 25 km).			
" 13	Up	iP	06 47 34.8	
	Ki	iP	06 47 05.9	C
			micr sec	
		P Z'	0.1 1.0	
	Sk	iP	06 47 32.4	
	Um	iP	06 47 18.4	C
		ipP	06 48 39.1	
	Ud	iP	06 47 41.3	C
		ipP	06 48 59.1	
	De	iP	06 47 51.9	
	Mariana Islands.			
	h = 340 km (Um,Ud).			
" 13	Ud	iP	12 22 33.0	
	De	iP	12 21 58.7	
	Rumania (h = 140 km).			
" 13	Sk	iP	12 34 08.6	
	Ud	iP	12 34 08.6	
	Tsinghai, China (h = N).			
" 13	Ud	iP	13 23 51.5	
" 13	Ud	iP	19 40 47.5	
	Afghanistan-USSR (h = 250 km).			
" 13	Up	iP	20 44 34.2	
	Ki	iP	20 44 14.2	
	Ud	iP	20 44 42.8	
	Luzon (h = 60 km).			
" 13	Up	iPKP	21 26 07.4	
	Ki	iPKP	21 25 53.2	
	Samoa Islands (h = 35 km).			
" 13	Up	iP2	21 32 21.0	
		ipP1	21 32 26.1	
		i(PP)	21 35 15.2	
		iSKS	21 42 53	
		iS	21 43 59	
			micr sec	
		pP1 Z'	0.1 1.1	
		(PP) Z'	0.1 1.2	

(cont.)

1975
May 13 (cont.)

	Up		micr	sec
		Mx E	10	19
		Mx N	10	20
		Mx Z	20	22
	Ki	iP1	21 31 58.8	
		ipP1	21 32 11.7	
		i(PP)	21 34 49.0	
		iSKS	21 42 38	
			micr	sec
		P1 Z'	0.1	1.3
		pP1 Z'	0.2	1.1
		Mx E	6.6	16
		Mx N	15	21
		Mx Z	7.2	17
	Sk	eP1	21 32 24	
		ipP1	21 32 31.1	
	Um	iP1	21 32 05.8	
		iP2	21 32 11.1	
		ipP1	21 32 15.6	
		iSKS	21 42 38	
		iS	21 43 21	
		iPKKP	21 48 55.3	
	Ud	iP1	21 32 24.3	
		iP2	21 32 30.1	
		ipP1	21 32 36.1	
		i(PP)	21 35 45.3	
		iPKKP	21 48 40.6	
	De	iP2	21 32 33.6	
		ipP1	21 32 40.1	
		i(PP)	21 35 49.8	
	Molucca Passage (h = 35 km).			
	Multiple P with arrivals in average 5.6 and 11.5 sec after the first onset.			
" 13	Ud	iP	22 11 18.4	
	Afghanistan-USSR (h = 55 km).			
" 14	Up	iP	03 52 02.6	
		i	03 52 11.2	
	Sk	iP	03 52 18.8	
	Um	iP	03 52 03.8	
	Ud	iP	03 52 10.6	
		i	03 52 22.6	
	De	iP	03 52 06.1	
" 14	Up	iPKP1	04 53 52.5	C
	Ud	iPKP1	04 53 54.8	
		i	04 54 12.9	
	De	iPKP1	04 54 05.1	
	Tonga-Kermadec Islands (h = 580 km).			
" 14	Ud	iP	06 56 26.4	

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

1975							
May	14	Up	iP		07 23 08.7		
		Ud	iP		07 23 17.6		
"	14	Up	i		07 29 09.3		
		Ud	iPKP1		07 29 13.9		
		De	iPKP1		07 29 24.6		
"	14	Um	iP		09 23 16.5		
		Afghanistan-USSR (h = 50 km).					
"	14	Ki	iP		09 40 06.4		
			i		09 40 10.5		
		Sk	iP		09 40 18.7		
		Ud	iP		09 41 03.4		
"	14	Ud	iPKP		09 58 32.3		
		De	iPKP1		09 58 40.5		
		Tonga Islands (h = N).					
"	14	Up	iP		10 13 35.2		
		Ki	iP		10 13 32.0		
		Sk	iP		10 13 47.1		
		Um	iP		10 13 31.0		
		Ud	iP		10 13 44.8		
		De	iP		10 13 43.4		
		Java (h = 110 km).					
"	14	Up	iP		11 52 27.9		
		Ki	iP		11 51 40.6		
			ipP		11 52 26.9		
		Sk	iP		11 52 16.8		
		Um	iP		11 52 02.1		
		Ud	iP		11 52 33.6		
			ipP		11 53 19.7		
		Kurile Islands.					
		h = 200 km (Ki,Ud).					
"	14	Ud	iP		12 26 03.8		
"	14	Up	iP		14 11 48.5	C	
					micr	sec	
			P	Z'	0.5	1.3	
		Ki	iP		19 11 14.2	C	
			iP'P'		14 39 10.3		
					micr	sec	
			P	Z'	0.3	1.3	
			P'P'	Z'	0.2	2.0	
		Sk	iP		14 11 22.8	C	
			iPcP		14 11 43.1		
		Um	iP		14 11 34.0	C	
			iPcP		14 11 50.3		
		Ud	iP		14 11 40.9	C	
		De	iP		14 11 57.5	C	
		(cont.)					

1975							
May	14	(cont.)					
		Nevada.					
		m = 6.5 (Up,Ki).					
		Underground explosion.					
"	14	Ud	i(P)		14 41 47.6		
"	14	Up	i(P)		14 42 55.5		
"	14	Um	i(pP)		16 05 38.3		
		Hindu Kush (h = 170 km).					
"	14	Ki	iP		16 20 58.7		
		Unimak Island (h = 10 km).					
"	14	Um	iP		18 47 12.7		
		Ud	iP		18 47 44.0		
		Kamchatka (h = 55 km).					
"	14	Up	iP		22 30 17.5	C	
					micr	sec	
			P	Z'	0.1	0.8	
"	14	Up	iP		22 30 39.4		
			iPP		22 32 18.1		
			iS		22 36 46		
			i		22 39 17.4		
					micr	sec	
			P	Z'	0.4	1.1	
			PP	Z'	0.6	1.6	
			i	Z'	0.4	2.1	
		Ki	iP		22 30 48.6		
			ipP		22 31 12.6		
			iPP		22 32 26.8		
			i		22 40 05.0		
					micr	sec	
			P	Z'	0.3	1.5	
		Sk	iP		22 31 04.6		
			ipP		22 31 29.9		
			iPP		22 32 48.1		
		Um	iP		22 30 37.8		
			ipP		22 31 01.4		
			iS		22 36 43		
			i		22 39 05.5		
		Ud	iP		22 30 55.7		
			ipP		22 31 20.7		
			iPP		22 32 38.5		
			i		22 40 00.5		
		De	iP		22 30 52.5		
			ipP		22 31 15.6		
			iPP		22 32 33.7		
			i		22 40 18.9		
		Hindu Kush.					
		h = 120 km (Ki,Sk,Um,Ud,De).					
		m = 6.0 (Up,Ki).					

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

1975 May	15	Up	iP	00 00 34.9	
"	15	Ud	i(P)	04 20 30.7	
			i	04 21 05.0	
"	15	Up	iP	04 21 31.1	
		North Atlantic Ocean (h = N).			
"	15	Ud	i(P)	05 40 28.1	
"	15	Ud	iP	07 12 29.2	
		Hindu Kush (h = 160 km).			
"	15	Ud	iPKP	08 54 01.0	
		Fiji Islands (h = 530 km).			
"	15	Ki	ipP	11 06 22.2	
		Um	iP	11 06 40.9	
		Ud	iP	11 07 05.5	
			ipP	11 07 14.7	
		Aleutian Islands.			
		h = 30 km (Ud).			
"	15	Um	i(Sgl)	12 47 06.9	
			iRg	12 47 34.9	
		Ud	i(Sgl)	12 47 45.5	
		Near-surface event.			
"	15	Ki	iP	13 22 56.2	
		Colombia (h = 160 km).			
"	15	Up	iSgl	13 49 09.5	
		Um	iSgl	13 51 20.1	
		Ud	iSgl	13 49 09.4	
		De	iPgl	13 47 16.7	
			iRg	13 47 28.9	
		Near Karlshamn, south Sweden,			
		56.2°N, 14.9°E.			
		Origin time = 13 47 07.			
		m = 4.2, M_L = 2.5 (Up).			
		Explosion.			
"	15	Up	iSgl	14 02 57.1	
		Ud	iSgl	14 02 54.9	
		De	iPgl	14 01 05.0	
			iSgl	14 01 14.7	
			iRg	14 01 17.7	
		Same location as the preceding event.			
		Origin time = 14 00 56.			
		Explosion.			
"	15	Ki	iP	14 55 43.1	
		Um	iP	14 55 24.1	

1975 May	15	De	i(P)	15 17 27.0	
"	15	Ki	iPgl	16 34 26.4	
			iSgl	16 34 54.1	
				micr sec	
			Sgl Z'	0.1 0.3	
		Um	iSgl	16 36 43.6	
		Off coast of north Norway,			
		69.2°N, 16.2°E.			
		Origin time = 16 33 51.			
		m = 4.4, M_L = 3.1 (Ki).			
		The following two events have the same location.			
"	15	Ki	iPgl	17 23 34.6	
			iSgl	17 24 02.1	
				micr sec	
			Sgl Z'	0.1 0.3	
		Um	iSgl	17 25 54.0	
		Origin time = 17 22 59.			
		m = 4.4, M_L = 3.1 (Ki).			
"	15	Ki	iPgl	17 55 08.9	
			iSgl	17 55 37.0	
				micr sec	
			Sgl Z'	0.1 0.3	
		Um	iSgl	17 57 26.2	
		Origin time = 17 54 33.			
		m = 4.4, M_L = 3.1 (Ki).			
"	15	Up	iPKP1	18 51 56.0	
			i	18 52 05.6	
		Ki	iPKP	18 51 48.6	
		Sk	i(PKP)	18 51 54.3	
		Um	i(PKP)	18 51 53.1	
			iPKP	18 51 55.4	
		Ud	iPKP1	18 51 56.1	
			i	18 52 00.0	
		De	iPKP1	18 52 06.1	
			i	18 52 08.6	
		Fiji Islands (h = 630 km).			
"	15	Up	iP	21 18 51.4 C	
			ipP	21 19 17.5	
			i	21 19 23.8	
		Ki	iP	21 18 51.5	
			ipP	21 19 16.9	
		Sk	iP	21 19 06.7	
		Um	iP	21 18 47.0	
			ipP	21 19 14.0	
			i	21 19 20.0	
		Ud	iP	21 19 03.4 C	
			i	21 19 36.3	
		De	iP	21 19 01.7	

(cont.)

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

1975						
May	15	(cont.)				
		De	ipP		21 19 26.6	
			i		21 19 34.0	
		Andaman Islands.				
		h = 100 km (Up,Ki,Um,De).				
"	15	Ud	iP		21 58 52.0	
"	15	Sk	iP		23 23 58.6	
		Um	iP		23 23 37.1	
		Ud	iP		23 24 08.2	
"	15	De	iP		23 27 17.3	
"	16	Up	iP		01 25 02.2	C
			i		01 25 09.7	
					micr	sec
			P	Z'	0.2	1.5
		Ki	iP		01 24 21.7	C
			i		01 24 29.7	
					micr	sec
			P	Z'	0.1	1.0
			Mx	E	0.8	12
			Mx	N	1.2	12
			Mx	Z	0.7	11
		Sk	iP		01 24 56.9	
			i		01 25 04.0	
		Um	iP		01 24 39.1	C
			i		01 24 47.0	
			iS		01 33 13	
		Ud	iP		01 25 10.2	
			i		01 25 17.8	
		De	iP		01 25 26.0	
			i		01 25 33.5	
		Sea of Japan (h = 0 km).				
		m = 6.1 (Up,Ki).				
		Double P with arrivals in average 7.6 sec after the first onset.				
"	16	Up	iP		02 35 38.4	
"	16	Up	iP		02 36 16.8	
			ipP		02 36 27.3	
			iS		02 41 32	
					micr	sec
			P	Z'	0.1	1.3
		Ki	iP		02 36 44.1	
					micr	sec
			P	Z'	0.1	1.3
			Mx	E	0.7	12
			Mx	N	1.1	17
			Mx	Z	1.6	21
		(cont.)				

1975						
May	16	(cont.)				
		Um	iP		02 36 34.5	
			ipP		02 36 44.5	
			iS		02 41 59	
		Ud	iP		02 36 00.1	
		North Atlantic Ocean.				
		h = 40 km (Up,Um).				
		m = 5.6 (Up,Ki).				
"	16	Ud	iP		02 40 27.7	
"	16	Up	iP		03 19 48.9	
		Ud	iP		03 19 56.0	
"	16	Um	i(P)		04 00 35.1	
		Ud	i(P)		03 59 55.6	
"	16	Um	iP		05 11 13.7	
		Ud	iP		05 11 28.6	
"	16	Up	iP		08 08 37.1	C
			iS		08 17 21	
					micr	sec
			P	Z'	0.1	0.7
			Mx	N	1.7	23
			Mx	Z	2.5	23
		Ki	iP		08 07 42.9	C
					micr	sec
			P	Z'	0.1	1.2
		Sk	iP		08 08 12.2	
		Um	iP		08 08 10.7	C
			iS		08 16 31	
		Ud	iP		08 08 35.6	C
		De	iP		08 08 58.4	
		Unimak Island (h = 10 km).				
		m = 6.0 (Up,Ki).				
"	16	Up	iP		12 14 15.9	
		Mexico (h = 55 km).				
"	16	Up	iP		17 33 10.9	
		Sk	iP		17 32 58.7	
		Um	iP		17 33 25.6	
		Ud	iP		17 32 54.4	
		North Atlantic Ocean (h = 30 km)				
"	16	Ud	iP		18 37 33.9	
		Hindu Kush (h = 160 km).				
"	16	Ud	iP		19 44 47.5	
			i		19 44 54.8	
		Yugoslavia (h = 15 km).				
"	16	Um	i(P)		21 14 31.8	
		Ud	i(P)		21 15 49.5	

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

1975						
May	16	Um	i(P)		21 16 33.2	
		Ud	iP		21 16 52.8	
"	17	Ki	iP		00 16 33.3	
		Ud	iP		00 16 54.5	
		Sinkiang, China (h = 25 km).				
"	17	Ud	iP		02 32 54.9	
		De	iP		02 32 24.2	
			i		02 32 27.2	
		Crete (h = 50 km).				
"	17	Ud	iP		06 35 15.5	
		De	iP		06 35 16.4	
"	17	Ud	iP		07 09 31.3	
"	17	Ud	eSgl		14 40 43	
		De	iPn		14 38 06.3	
			iSgl		14 38 56.6	
"	17	Up	eP		16 05 10	
		Ud	iP		16 05 23.8	
		De	iP		16 05 08.4	
		Iran, the same focal region as the following event. Origin time = 15 57 18.				
"	17	Up	iP		16 27 03.0	
			i		16 27 18.6	
			iPP		16 28 58.5	
			iS		16 33 18	
					micr	sec
			PP	Z'	0.1	1.4
		Ki	iP		16 27 34.3	
					micr	sec
			P	Z'	0.1	0.8
			Mx	E	0.8	14
			Mx	N	0.8	12
			Mx	Z	1.1	15
		Sk	iP		16 27 35.9	
		Um	iP		16 27 14.0	
			ipP		16 27 25.1	
			iS		16 33 41	
		Ud	iP		16 27 18.7	
			ipP		16 27 31.3	
			iPP		16 29 22.3	
		De	iP		16 27 04.5	
			ipP		16 27 16.2	
			i		16 27 21.4	
		Iran. h = 45 km (Um,Ud,De). m = 5.7 (Up,Ki).				

1975						
May	17	Ud	iP		22 10 36.1	C
"	17	Ki	iP		23 51 34.1	
		North Atlantic Ocean (h = N).				
"	18	Ud	iP		04 21 21.2	
		De	iP		04 21 02.0	
"	18	Up	iP		06 03 57.7	
		Ki	iP		06 04 06.5	
		Sk	iP		06 04 23.8	
		Um	iP		06 03 56.1	
		Ud	iP		06 04 14.4	
		De	iP		06 04 11.4	
		Hindu Kush (h = 220 km).				
"	18	Ud	iP		06 13 37.4	
"	18	Up	iP		14 52 21.6	
		Ki	iP		14 52 52.6	
		Sk	iP		14 52 55.2	
		Um	iP		14 52 30.8	
			i		14 52 46.6	
		Ud	iP		14 52 36.3	
			i		14 52 50.3	
		De	iP		14 52 21.9	
			i		14 52 48.7	
		Iran (h = N).				
"	18	Up	iP		15 52 32.9	C
			ipP		15 52 59.5	
			iPcP		15 53 29.5	
			i(PcS)		15 57 15.3	
			iS		16 00 10.7	
			i		16 02 07.7	
					micr	sec
			P	Z'	0.2	1.5
			pP	Z'	0.1	1.0
		Ki	iP		15 51 35.9	C
			ipP		15 52 02.6	
			iS		15 58 30.9	
					micr	sec
			P	Z'	0.3	0.9
			pP	Z'	0.3	1.2
		Sk	iP		15 52 03.9	C
			ipP		15 52 31.2	
		Um	iP		15 52 05.6	C
			ipP		15 52 33.3	
			i(PcS)		15 56 57.7	
			iS		15 59 25.3	
		Ud	iP		15 52 29.4	C
			ipP		15 52 57.3	
			i(PcS)		15 57 13.3	

(cont.)

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

1975 May 18 (cont.)

	De	iP	15 52 55.0 C
		ipP	15 53 20.8
		isP	15 53 32.5
		i(PcS)	15 57 29.5

Alaska.
h = 120 km (Up,Ki,Sk,Um,Ud, De).
m = 6.0 (Up,Ki).
Parentheses denote early arrivals, by about 15 sec, wrt JB-Tables.

" 18	Up	iP	16 22 20.6
" 18	Ud	i(P)	17 02 05.7
" 18	Um	iPKP	17 07 51.6
	Ud	iPKP	17 07 42.0
	De	iPKP	17 07 38.6

Chile (h = 35 km).

" 18	Up	iP	17 59 08.6
	Ki	iP	17 59 17.4
	Sk	iP	17 59 34.7
	Um	iP	17 59 07.0
	Ud	iP	17 59 24.8
	De	iP	17 59 21.7

Afghanistan-USSR (h = 90 km).

" 18	Um	iP	19 01 17.6
" 18	Up	iPKP1	19 48 15.3
		i	19 48 18.8
	Sk	iPKP1	19 48 09.1
	Um	iPKP1	19 48 03.9
	Ud	iPKP1	19 48 16.4
	De	ePKP1	19 48 28

Tonga-Kermadec Islands (h = 35 km).

" 18	Up	iSn	22 22 03.4
		iSg1	22 22 51.0
	Ki	iPn	22 19 29.5
		iPg1	22 19 35.6
		iSn	22 20 13.7
		iSg1	22 20 26.9
	Sk	iPn	22 19 36.4
		iPg1	22 19 44.4
		iSn	22 20 24.7
	Um	iPn	22 19 55.5
		iSn	22 20 57.5
		i	22 21 15.3
		iSg1	22 21 24.7
	Ud	ePn	22 20 25
		iSn	22 21 48.5

(cont.)

1975 May 18 (cont.)

Norwegian Sea, 67.9°N, 9.9°E.
Origin time = 22 18 31.
m = 4.6, M_L = 3.4 (Ki,Um).

" 18	Up	iP		22 45 07.8 C
		ipP		22 45 33.4
			micr	sec
		P	Z' 0.1	1.0
	Ki	iP		22 44 21.7
			micr	sec
		P	Z' 0.2	0.9
	Sk	iP		22 44 57.4
	Um	iP		22 44 42.6 C
	Ud	iP		22 45 14.0 C
	De	iP		22 45 31.8 C

Kurile Islands.
h = 100 km (Up).
m = 6.0 (Up,Ki).

" 18	Um	iP	23 24 33.8
" 19	Up	iPKP1	00 13 12.7
		iPP	00 16 14.7
		micr	sec
		Mx E	1.0 17
		Mx N	1.3 18
		Mx Z	1.5 19
	Ki	i	00 13 07.0
		micr	sec
		Mx E	0.8 17
		Mx N	1.3 19
		Mx Z	1.3 19
	Sk	ePKP	00 13 13
	Um	iPKP	00 13 10.4
	Ud	iPKP1	00 13 12.2
		iPP	00 16 16.2
	De	iPKP1	00 13 23.6

Tonga Islands (h = 45 km).
M = 5.8 (Up,Ki).

" 19	Up	eP		03 31 08
		i		03 31 11.3
		i		03 31 15.9
		i		03 31 49.7
		iS		03 35 10.0
			micr	sec
		Mx	E 1.4	15
	Ki	iP		03 32 26.6
	Sk	iP		03 31 49.3
	Um	iP		03 31 48.1
		i		03 31 55.7
		i		03 35 17.2
	Ud	iP		03 31 16.2
		i		03 31 20.8

(cont.)

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

1975						
May	19	(cont.)				
		Ud	i		03 31 52.1	
			iS		03 35 20.7	
		De	iP		03 30 40.7	
			i		03 30 45.2	
		Greece (h = 15 km).				
"	19	Ud	iP		03 49 26.8	
"	19	Up	iP		08 08 49.1	
		Ki	iP		08 09 17.1	
		Sk	iP		08 09 19.9	
		Um	iP		08 08 58.5	
		Ud	iP		08 09 04.3	
		De	iP		08 08 51.4	
			ipP		08 08 59.1	
		Arabian Sea (h = N).				
"	19	Up	ipP		11 37 08.5	
		Ud	iP		11 37 06.6	
		Italy (h = N).				
"	19	Ud	iP		17 33 10.6	
"	19	Up	iP		19 56 14.7	
			ipP		19 56 19.0	
			iPP		19 58 06.2	
			i		19 58 42.1	
			iS		20 03 08	
					micr	sec
			P	Z'	0.1	0.9
			pP	Z'	0.5	1.4
			Mx	E	2.2	15
			Mx	N	4.5	17
			Mx	Z	4.4	14
		Ki	iP		19 56 13.8	
			ipP		19 56 17.5	
			iPP		19 58 04.3	
					micr	sec
			pP	Z'	0.4	1.7
			Mx	E	2.7	16
			Mx	N	7.5	14
			Mx	Z	2.5	14
		Sk	iP		19 56 35.2	
			ipP		19 56 39.2	
		Um	iP		19 56 09.0	
			ipP		19 56 12.4	
			iPcP		19 57 48.0	
			i		19 58 06.3	
			iS		20 02 58	
		Ud	iP		19 56 30.5	
			ipP		19 56 34.5	
		De	iP		19 56 30.3	
			ipP		19 56 34.2	
		(cont.)				

1975						
May	19	(cont.)				
		De	iPcP		19 57 55.1	
			i		19 57 58.8	
			iPP		19 58 26.8	
		Kashmir-Tibet.				
		h = 15 km (Up,Ki,Sk,Um,Ud, De).				
		m = 6.3, M = 5.7 (Up,Ki).				
"	19	Up	eP		20 35 26	
		Ud	iP		20 35 36.4	
"	19	Up	iP		22 52 57.8	
					micr	sec
			P	Z'	0.1	0.7
		Ki	iP		22 52 07.2	
					micr	sec
			P	Z'	0.1	0.7
		Sk	iP		22 52 42.8	
		Um	iP		22 52 30.8	
		Ud	iP		22 53 02.4	
		De	iP		22 53 22.6	
		Kurile Islands (h = 55 km).				
		m = 6.1 (Up,Ki).				
"	19	Up	iP		23 30 12.3	
			i		23 30 15.4	
		Sk	iP		23 30 56.1	
		Um	i		23 31 03.2	
		Ud	iP		23 30 20.4	
		De	iP		23 29 43.1	
		Greece-Albania (h = 45 km).				
"	19	Ud	iPKP1		23 35 42.5	
		De	iPKP1		23 35 52.8	C
"	19	Up	iPKP1		23 36 40.1	
		Ud	iPKP1		23 36 41.1	
		De	iPKP1		23 36 52.2	C
"	20	Up	iP		01 15 45.1	
		Ud	iP		01 15 48.9	
		De	iP		01 16 09.7	
		Kamchatka (h = 10 km).				
"	20	Ki	iP		04 26 10.7	
			i		04 26 26.7	
		Sk	iP		04 26 47.3	
		Um	iP		04 26 19.1	
		Ud	iP		04 26 39.9	
		De	iP		04 26 38.7	
"	20	Ud	iP		12 18 27.9	
		Talaud Islands (h = 110 km).				
"	20	Um	iPKP		13 48 55.7	
		Chile (h = 110 km).				

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

1975							
May	20	Ud	iP		13 59 11.0		
		De	iP		13 59 19.1		
"	20	Up	iP		14 20 08.7		
		Ki	eP		14 20 10		
		Um	iP		14 20 09.3		
			i		14 20 15.1		
		Ud	iP		14 19 59.2		
		Costa Rica (h = N).					
"	20	Up	iPKP1		14 50 38.9	D	
			i		14 50 41.9		
			ipPKP1		14 52 21.0		
					micr	sec	
			PKP1	Z'	0.3	0.6	
			i	Z'	0.3	0.8	
		Ki	iPKP1		14 50 21.4		
			iSKP1		14 53 25.1		
					micr	sec	
			PKP1	Z'	0.1	0.9	
		Sk	iPKP1		14 50 31.7		
			iPKP		14 50 39.3		
		Um	iPKP1		14 50 27.1		
			i		14 50 30.2		
			i		14 50 35.9		
			iSKP1		14 53 35.5		
		Ud	iPKP1		14 50 41.3	D	
			i		14 50 44.4		
		De	iPKP		14 50 48.7	D	
			iPKP1		14 50 51.7		
			i		14 50 54.7		
			ipPKP1		14 52 25.1		
		Tonga-Kermadec Islands.					
		h = 410 km (Up,De).					
		Double PKP1 (Up,Um,Ud),					
		average separation = 3.1 sec.					
"	20	Ki	iPKP		15 29 11.7		
		New Britain (h = 140 km).					
"	20	Up	iP		15 53 07.1	C	
		Ki	iP		15 52 48.6	C	
		Sk	iP		15 53 10.7		
		Um	iP		15 52 55.1		
		Ud	iP		15 53 15.1		
			i		15 53 26.5		
		De	iP		15 53 21.7		
		Mindanao (h = 70 km).					
"	20	Up	iP		15 55 24.2		
		Ud	iP		15 55 32.3		
			i		15 55 44.0		
"	20	Up	iPKP1		21 40 21.6		
		(cont.)					

1975							
May	20	(cont.)					
		Up	i		21 40 25.4		
			iPKP2		21 40 28.7		
					micr	sec	
			PKP1	Z'	0.1	0.9	
		Ki	ePKP1		21 40 04		
		Sk	iPKP1		21 40 14.8		
			i		21 40 19.4		
		Um	ePKP1		21 40 10		
			e		21 40 14		
		Ud	iPKP1		21 40 23.2		
			i		21 40 27.3		
		De	iPKP1		21 40 31.7		
			i		21 40 35.0		
			iPKP2		21 40 45.2		
		Kermadec Islands (h = 50 km).					
		Double PKP1 (Up,Um,Ud,De),					
		average separation = 4.1 sec.					
"	20	Up	e(PKP)		21 51 10		
			iPKP		21 51 25.8		
		Um	iPKP		21 51 21.3		
		Sumbawa Island (h = 60 km).					
"	20	Um	iP		23 03 26.6		
		Ud	i(P)		23 03 23.6		
"	21	Up	iP		00 42 26.7		
		Um	iP		00 42 21.3		
		Ud	iP		00 42 43.1		
"	21	Up	iP		03 26 40.0	D	
			i		03 26 48.2		
			ipP		03 26 59.5		
					micr	sec	
			P	Z'	0.1	0.8	
			i	Z'	0.1	0.8	
			pP	Z'	0.1	0.9	
		Ki	iP		03 26 34.2	D	
			ipP		03 26 52.7		
					micr	sec	
			P	Z'	0.1	1.0	
			pP	Z'	0.2	1.1	
		Sk	iP		03 26 56.6		
		Um	iP		03 26 32.8	D	
			ipP		03 26 51.9		
		Ud	iP		03 26 53.6	D	
			i		03 27 01.6		
			ipP		03 27 12.6		
		De	iP		03 26 54.7		
			ipP		03 27 14.2		
		Burma-India.					
		h = 80 km (Up,Ki,Um,Ud,De).					
		m = 6.0 (Up,Ki).					
		(cont.)					

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

1975
May 21 (cont.)
Double P (Up,Ud), average separation = 8.1 sec.

" 21 Ki iP 06 44 01.5
micr sec
P Z' 0.1 1.4
Sk iP 06 44 29.0
Um iP 06 44 30.5
Alaska (h = 35 km).

" 21 Up iP 06 59 36.9
micr sec
P Z' 0.1 1.0
Ki iP 06 59 02.4
Sk iP 06 59 33.8
Um iP 06 59 17.1 D
Ud iP 06 59 44.8 D
De iP 06 59 57.1
South of Japan (h = 390 km).

" 21 Ki iP 14 11 54.5
Ud iP 14 12 08.1
De iP 14 12 08.3
Tadzhik SSR-Sinkiang
(h = 60 km).

" 21 Up iP 17 33 45.5
Ki iP 17 33 51.2
Um iP 17 33 42.9
Ud iP 17 34 00.5
De iP 17 34 00.0
Tadzhik SSR (h = 130 km).

" 21 Ki iP 18 31 03.3
Kamchatka (h = 60 km).

" 22 Um iP 03 42 37.0
Ud iP 03 42 52.1

" 22 Up iP 05 14 18.4
Ki iP 05 14 04.5
Um iP 05 14 08.3
Ud iP 05 14 26.0
Celebes (h = 45 km).
Consistently late arrivals, by about 13 sec, compared to the NEIS solution.

" 22 Ud iP 21 08 12.1
Banda Sea (h = 150 km).

" 22 Ki iPKP 21 38 07.5
North of Solomon Islands
(h = 470 km).

1975
May 23 De iPKP1 02 43 59.4 D
Fiji Islands (h = 660 km).

" 23 Ki iP 06 20 16.1
Mariana Islands (h = 260 km).

" 23 Up iP 12 14 57.7
Ud iP 12 15 03.2 D
Japan (h = 80 km).

" 23 Up iP 12 23 13.6

" 23 Up iP 15 23 19.5
micr sec
P Z' 0.1 1.4
Ki iP 15 22 31.8
micr sec
P Z' 0.2 1.7
Um iP 15 22 59.6
Ud iP 15 23 13.3 C
Queen Charlotte Islands
(h = N).
m = 5.9 (Up,Ki).

" 23 Up iP 15 55 51.4 C
ipP 15 56 02.0
micr sec
P Z' 0.1 1.0
Ki iP 15 55 28.3 C
micr sec
P Z' 0.1 1.0
Sk iP 15 55 54.2
i 15 55 58.9
Um iP 15 55 36.3 C
ipP 15 55 47.0
Ud iP 15 56 00.8
ipP 15 56 10.3
i 15 56 27.9
De iP 15 56 11.0
Formosa.
h = 35 km (Up,Um,Ud).
m = 5.8 (Up,Ki).

" 23 Up iP 16 13 47.7 D
i 16 13 51.2
i 16 13 58.5
i 16 19 49.4
iS 16 23 38.1
micr sec
P Z' 1.0 1.3
Mx E 41 22
Mx N 93 22
Mx Z 41 20
Ki iP 16 13 24.7 D
i 16 13 33.7
(cont.)

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

1975						
May	23	(cont.)				
		Ki	iS		16 22 56	
					micr sec	
			P	Z'	1.0 1.6	
			Mx	E	26 13	
			Mx	N	47 19	
		Sk	iP		16 13 51.9	
		Um	iP		16 13 32.9	D
			i		16 13 36.3	
			i		16 13 44.2	
			i		16 18 45.5	
			iS		16 23 11	
		Ud	iP		16 13 57.2	D
			i		16 14 00.4	
		De	iP		16 14 05.8	
			i		16 14 17.0	
			iPP		16 17 09.1	
		Formosa (h = 5 km).				
		m = 6.7, M = 7.0 (Up,Ki).				
"	23	Up	i(P)		16 55 06.8	
					micr sec	
			(P)	Z'	0.1 1.1	
"	23	Up	iP		21 44 23.1	
"	23	Up	iP		21 52 55.9	
		Ud	iP		21 53 13.2	
"	23	Up	iP		23 28 45.1	
		Ki	iP		23 28 27.6	
		Sk	ipP		23 29 01.1	
		Um	iP		23 28 33.1	
		Ud	iP		23 28 54.8	
		Mindoro (h = 40 km).				
"	24	Up	iP		01 06 54.8	C
		Ki	iP		01 06 29.8	
		Sk	iP		01 06 58.2	
		Um	iP		01 06 38.9	
		Ud	iP		01 07 04.4	C
		De	iP		01 07 15.2	
		Formosa (h = 130 km).				
"	24	Ud	iPKP		02 13 06.6	
			i		02 13 11.5	
		De	iPKP		02 13 12.3	
		Tonga Islands (h = 20 km).				
"	24	Um	iP		05 55 11.7	
"	24	Up	iSgl		03 23 10.2	
		Sk	iSgl		03 23 01.7	
		Um	eSgl		03 24 14	
		Ud	iPgl		03 21 49.5	
		(cont.)				

1975						
May	24	(cont.)				
		Ud	iSgl		03 22 08.0	
		De	iSgl		03 23 36.4	
		Southeast Norway,				
		60.5°N, 11.1°E.				
		Origin time = 03 21 26.				
		m = 3.9, M_L = 2.0 (Ud).				
"	24	De	iPKPl		06 13 48.9	
		Tonga Islands (h = N).				
"	24	Um	iPKP		10 56 12.3	
		Ud	iPKPl		10 56 11.0	
		De	iPKPl		10 56 17.9	
		Tonga Islands (h = 55 km).				
"	24	Up	i(P)		11 23 48.2	
"	24	Um	iP		21 13 56.9	C
		Japan (h = 60 km).				
"	24	Up	iP		22 08 06.4	
		Ki	iP		22 08 40.2	
		Ud	iP		22 08 16.8	
			i		22 08 23.5	
		Arabian Sea (h = N).				
"	24	Up	iP		22 23 07.2	
		Ud	iP		22 23 11.7	
		Kurile Islands (h = 70 km).				
"	24	Ud	iPKPl		23 29 53.3	
		De	iPKPl		23 30 02.6	
		Fiji Islands (h = 570 km).				
"	24	Up	i(PKP)		23 59 00.9	
			iPKP		23 59 05.2	
		Ki	i		23 58 56.6	
		Sk	e(PKP)		23 58 59	
		Um	iPKP		23 58 59.7	
		Ud	i(PKP)		23 59 01.4	
			iPKP		23 59 06.6	
		De	iPKP		23 59 12.6	
			i		23 59 16.5	
		Fiji Islands (h = 560 km).				
"	25	Up	iP		01 41 55.9	
		Ki	iP		01 42 27.8	
		Sk	iP		01 42 24.9	
		Um	iP		01 42 05.4	
		Ud	iP		01 42 07.0	
		De	iP		01 41 51.3	
		Arabian Sea (h = N).				
"	25	Up	iP		05 33 59.5	
		Kamchatka (h = N).				

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

1975						
May	25	Ki	iP		07 56 08.2	
		Ud	iP		07 56 33.3	
		Talaud Islands (h = 100 km).				
"	25	Up	e(P)		09 17 23	
			i		09 17 27.7	
"	25	Up	iP		12 42 25.7	C
		Sk	eP		12 42 16	
		Ud	iP		12 42 32.1	C
		Japan (h = 100 km).				
"	25	Up	iP		15 57 52.5	
		Ki	iP		15 56 58.3	
		Um	iP		15 57 26.5	
		Ud	iP		15 57 49.9	
		De	ipP		15 58 21.4	
		Gulf of Alaska (h = N).				
"	25	Up	iP		17 22 30.2	
"	25	Up	iP		19 14 57.1	C
			ipP		19 15 04.2	
			iS		19 23 24	
			i		19 24 47.1	
			iP'P'		19 44 00.8	
					micr	sec
			P	Z'	0.1	1.0
			pP	Z'	0.2	1.2
			Mx	E	1.9	17
			Mx	N	2.9	20
			Mx	Z	3.3	22
		Ki	iP		19 14 02.6	C
			ipP		19 14 10.0	
					micr	sec
			P	Z'	0.3	1.0
			pP	Z'	0.5	1.2
			Mx	E	2.0	19
			Mx	N	4.6	20
			Mx	Z	5.7	20
		Sk	iP		19 14 29.4	C
			ipP		19 14 37.6	
		Um	iP		19 14 30.2	
			ipP		19 14 39.6	
			iS		19 22 33	
			eP'P'		19 44 11	
		Ud	iP		19 14 53.0	
			ipP		19 15 00.8	
			iP'P'		19 44 04.6	
		De	iP		19 15 17.0	
			ipP		19 15 25.6	
			iP'P'		19 43 55.7	
		Gulf of Alaska.				
		h = 25 km (Up,Ki,Sk,Um,Ud, De).				
		m = 6.3, M = 5.6 (Up,Ki).				

1975				
May	25	Up	iP	20 39 29.7
		Um	iP	20 39 42.5
		Ud	iP	20 39 41.0
		Arabian Sea (h = N).		
"	25	Up	iP	20 48 35.8
"	25	Up	iPKP	22 00 52.0 C
		Ud	iPKP	22 00 54.5
"	25	Ud	iP	23 04 18.6
			i	23 04 33.5
		De	iP	23 04 18.4
		Leeward Islands (h = N).		
"	26	Up	iSgl	00 54 45.0
		Sk	iSgl	00 54 16.9
		Um	iSgl	00 55 50.2
		Ud	iSgl	00 53 44.7
		De	iSn	00 53 57.0
			iSgl	00 54 23.4
		Coast of southwest Norway, 59.6°N, 5.8°E.		
		Origin time = 00 51 41.		
		m = 4.3, M_L = 2.8 (Um,Ud,De).		
		By combination with Bergen and Kongsberg readings.		
"	26	Up	iP	01 15 10.1
"	26	Up	iPKP	04 55 26.6
		Ki	iPKP	04 55 14.7
		Sk	iPKP	04 55 25.7
		Um	iPKP	04 55 19.3
		Ud	iPKP	04 55 28.9
			ipPKP	04 55 52.1
		De	iPKP	04 55 34.2
		Solomon Islands (h = 80 km).		
"	26	Um	iP	07 09 59.0
		Ud	iP	07 10 23.4
"	26	Up	iP	09 18 23.2
			i	09 18 24.2
			iS	09 23 37
				micr sec
			P	Z' 2.3 0.7
			Mx	E 1370 16
			Mx	N 1151 16
			Mx	Z 261 15
		Ki	iP	09 19 10.5
			i	09 19 12.8
		(cont.)		

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

1975 May 26 (cont.)

Ki			micr	sec
	P	Z'	18	2.6
	Mx	E	788	14
	Mx	N	781	15
	Mx	Z	833	14
Sk	iP		09 18 26.6	
	i		09 18 28.0	
Um	iP		09 18 51.1	
	i		09 18 52.8	
Ud	iP		09 18 09.9	
De	iP		09 17 53.9	

North Atlantic Ocean (h = N).
m = 7.3, M = 7.8 (Up,Ki).
Double P, small and large (Up,Ki,Sk,Um), average separation = 1.6 sec.

" 26

Up	iP		09 59 58.7
	ipP		10 00 07.7
		micr	sec
	pP	Z' 0.1	1.0
Ki	iP		10 00 49.5
Um	iP		10 00 26.1
Ud	iP		09 59 47.1
	ipP		09 59 55.0
De	iP		09 59 30.4
	ipP		09 59 38.9

North Atlantic Ocean.
h = 40 km (Up,Ud,De).

" 26

Up	iP	10 29 21.4
	ipP	10 29 29.8
Ki	iP	10 30 08.2
Um	iP	10 29 48.9
	i	10 30 09.2
Ud	iP	10 29 07.8
De	iP	10 28 52.0
	ipP	10 29 01.3

North Atlantic Ocean.
h = 35 km (Up,De).

" 26

Up	iP	10 39 45.8

" 26

Up	iP	10 48 40.1
	i	10 48 46.7
Ki	iP	10 49 34.8
Sk	eP	10 48 50
Um	iP	10 49 06.2
	i	10 49 14.7
Ud	iP	10 48 33.6
De	iP	10 48 17.4 C

" 26

Up	iP	11 10 07.8
	ipP	11 10 14.9

(cont.)

1975 May 26 (cont.)

Ki	eP	11 10 52
Um	iP	11 10 34.3 C
	ipP	11 10 42.1
Ud	iP	11 09 53.6
	ipP	11 10 02.2

North Atlantic Ocean.
h = 30 km (Up,Um,Ud).

" 26

Up	iP	11 25 41.7
	i	11 25 48.9

" 26

Up	iP	11 38 49.3
	i	11 38 57.0
Ki	iP	11 39 44.2
Um	iP	11 39 15.9
	i	11 39 23.8
Ud	iP	11 38 34.6
	i	11 38 43.7

" 26

Up	iP	14 15 53.0

" 26

Up	iP	14 20 33.2
Ki	iP	14 21 20.9
Ud	iP	14 20 19.7
	i	14 20 38.1
De	iP	14 20 04.3

North Atlantic Ocean (h = N).

" 26

Um	iP	14 30 09.2
Ud	iP	14 30 41.1

Kurile Islands (h = 120 km).

" 26

Um	iP	17 05 37.4
Ud	iP	17 06 18.0

" 26

Up	iP	17 10 25.2
Um	iP	17 10 51.1
Ud	iP	17 10 13.5
De	iP	17 09 53.8

North Atlantic Ocean (h = N).

" 26

Up	iP		18 09 19.1 D
	iPP		18 10 59.9
		micr	sec
	P	Z' 0.2	1.3
	Mx	E 0.8	9
	Mx	N 1.1	15
	Mx	Z 1.1	9
Ki	iP		18 09 16.0 D
	ipP		18 09 21.8
		micr	sec
	P	Z' 0.1	0.8
	pP	Z' 0.2	0.7
	Mx	E 1.7	12

(cont.)

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

1975
May 26 (cont.)

			micr	sec	
Ki					
	Mx	N	3.9	15	
	Mx	Z	1.8	13	
Sk	iP		18 09 39.8		D
	ipP		18 09 46.7		
Um	iP		18 09 11.3		D
	ipP		18 09 18.2		
	i		18 09 29.8		
Ud	iP		18 09 35.8		D
De	iP		18 09 36.5		D
	i		18 09 38.8		
	iPP		18 11 19.2		

Sinkiang, China.
h = 25 km (Ki,Sk,Um).
m = 5.7, M = 5.2 (Up,Ki).

" 26

Up	iP		18 17 55.0	
	ipP		18 18 07.7	
Um	ipP		18 18 47.2	
Ud	iP		18 18 07.4	
	ipP		18 18 20.9	
De	iP		18 17 31.6	

Rumania (h = 60 km).

" 26

Up	iP		18 34 03.6		C
	ipP		18 34 20.0		
			micr	sec	
	P	Z'	0.1	0.8	
Ki	iP		18 33 19.2		
	i		18 33 28.1		
Sk	iP		18 33 54.6		C
Um	iP		18 33 38.9		C
Ud	iP		18 34 10.1		C
	ipP		18 34 27.3		
De	iP		18 34 27.3		

Japan.
h = 60 km (Up,Ud).

" 26

Up	iP		20 26 07.6		C
	ipP		20 26 21.7		
	i		20 28 33.1		
	iS		20 31 20		
			micr	sec	
	P	Z'	0.2	0.9	
	pP	Z'	0.2	0.9	
	Mx	E	1.7	18	
	Mx	N	1.5	17	
	Mx	Z	3.1	18	
Ki	iP		20 26 55.0		C
	ipP		20 27 09.7		
			micr	sec	
	P	Z'	0.1	1.0	
	pP	Z'	0.3	1.2	

(cont.)

1975
May 26 (cont.)

			micr	sec	
Ki					
	Mx	E	0.7	13	
	Mx	N	1.7	16	
	Mx	Z	1.1	15	
Sk	iP		20 26 09.8		C
	ipP		20 26 24.8		
Um	iP		20 26 35.3		C
	i		20 26 43.2		
	ipP		20 26 50.0		
	iS		20 32 09		
Ud	iP		20 25 54.1		C
	ipP		20 26 08.6		
De	iP		20 25 38.0		C
	i		20 25 48.5		
	ipP		20 25 52.2		

North Atlantic Ocean.
h = 60 km (Up,Ki,Sk,Um,Ud, De).
m = 6.0, M = 5.0 (Up,Ki).

" 26

Up	iP		22 05 14.8	
Ud	iP		22 05 32.1	
De	iP		22 04 52.6	

Rumania (h = 50 km).

" 26

Up	iP		22 07 36.5		
	ipP		22 07 43.7		
			micr	sec	
	pP	Z'	0.1	0.9	
Ki	iP		22 08 24.7		
Sk	i		22 08 08.9		
Um	iP		22 08 03.8		
	ipP		22 08 11.0		
Ud	iP		22 07 22.6		
	ipP		22 07 30.1		
De	iP		22 07 06.9		

North Atlantic Ocean.
h = 25 km (Up,Um,Ud).

" 26

Ud	iPKP1	23 25 33.4	
De	iPKP1	23 25 42.7	

" 27

Up	iP	00 48 10.5		C
	i	00 48 21.3		
Sk	iP	00 48 09.4		
Um	iP	00 47 50.9		
Ud	iP	00 48 17.8		
De	iP	00 48 31.4		

Ryukyu Islands (h = 10 km).

" 27

Up	iP	03 22 32.3	
Ki	iP	03 23 19.2	
Um	iP	03 22 01.0	

(cont.)

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

1975
May 27 (cont.)
Ud eP 03 22 19
North Atlantic Ocean (h = N).

" 27 Up iP 06 52 19.4
i 06 52 28.5
Ki iP 06 51 33.9
Sk iP 06 52 09.4
Um iP 06 51 54.1
Ud iP 06 52 25.2
i 06 52 34.9
Kurile Islands.
h = 30 km (Up,Ud).

" 27 Up iPKPl 09 30 40.3
Sk iPKP 09 30 39.3
Ud iPKPl 09 30 39.5
De iPKPl 09 30 51.1
Fiji Islands (h = 140 km).

" 27 Ud iP 09 34 13.0

" 27 Up iP 10 31 58.5
ipP 10 32 17.3
i(PP) 10 35 18.0
iS 10 43 06

			micr	sec
	P	Z'	0.1	1.0
	pP	Z'	0.1	1.0
	Mx	E	1.6	26
	Mx	N	1.9	26
	Mx	Z	4.0	28

Ki iP 10 31 44.4
ipP 10 32 02.9
iPP 10 35 25.6

			micr	sec
	P	Z'	0.3	1.2
	pP	Z'	0.1	1.2
	Mx	E	1.8	20
	Mx	N	4.7	21
	Mx	Z	1.3	19

Sk iP 10 32 05.2
ipP 10 32 23.5
iPP 10 35 50.5
Um iP 10 31 49.2 D
ipP 10 32 06.8
i(PP) 10 35 06.3
iS 10 42 49
Ud iP 10 32 06.6
ipP 10 32 24.2
i(PP) 10 35 14.7
De iP 10 32 11.5
ipP 10 32 30.2
iPP 10 36 06.9
Celebes.
(cont.)

1975
May 27 (cont.)
h = 70 km (Up,Ki,Sk,Um,Ud, De).
m = 6.5, M = 5.7 (Up,Ki).

" 27 Ud i(P) 14 19 56.2

" 27 Ud i(P) 19 34 42.3

" 27 Up iP 20 51 43.8
Um iP 20 51 20.5
Ud iP 20 51 51.2
Japan (h = 90 km).

" 27 Um iP 22 23 33.8
Ud iP 22 23 48.7

" 27 Ud iP 22 25 03.7

" 28 Up iP 01 14 17.7
Ud iP 01 14 32.2
Afghanistan-USSR (h = 100 km).

" 28 Ud iP 02 16 46.6
De iP 02 16 14.4
Greece.

" 28 Ki iP 07 09 44.1
Um iP 07 10 01.7

" 28 Sk iSg1 09 43 18.2
Ud iSg1 09 43 37.3
Coast of Norway,
61.7°N, 5.0°E.
Origin time = 09 41 18.
m = 4.3, M_L = 2.7 (Ud).
By combination with Bergen readings.

" 28 Up iP 09 59 47.8
Um iP 10 00 15.9
Ud iP 09 59 35.1
North Atlantic Ocean (h = N).

" 28 Up iP 13 45 33.9

			micr	sec
	P	Z'	0.1	1.1

" 28 Up iPKP 14 16 24.7
Ki iPKP 14 16 34.7 C

			micr	sec
	Mx	Z	12	34

Um iPKP 14 16 31.8
(cont.)

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

1975					
May	28	(cont.)			
		Ud	iPKP	14 16 23.4	C
		De	iPKP	14 16 22.2	C
		Chile (h = 25 km).			
"	28	Ud	iP	14 41 06.2	
"	28	Ud	iP	14 57 05.5	
"	28	Up	iP	15 09 20.5	
		Sk	iP	15 09 06.4	
		Um	iP	15 09 25.8	
"	28	Up	iP	17 07 56.5	
		Ki	iP	17 08 04.9	
		Ud	iP	17 08 12.8	
		De	iP	17 08 09.2	
		Afghanistan-USSR (h = 260 km).			
"	28	Up	iPKP1	17 21 17.1	
		Ud	iPKP1	17 21 19.8	
		De	iPKP1	17 21 29.6	
"	28	Ud	iP	17 57 26.0	
"	28	Ud	iP	21 21 02.9	
		Kashmir-Tibet (h = 40 km).			
"	28	Up	iP	22 48 54.6	
		Um	iP	22 48 28.3	
		Ud	iP	22 48 57.8	
			ipP	22 49 13.1	
		De	iP	22 49 19.2	
		Kamchatka.			
		h = 55 km (Ud).			
"	28	Up	iP	23 05 45.9	
				micr	sec
			P Z'	0.1	1.3
		Ki	ipP	23 05 10.3	
		Sk	iP	23 05 32.1	
		Um	iP	23 05 19.8	
			ipP	23 05 30.9	
		Ud	iP	23 05 51.2	
			ipP	23 06 03.4	
		Kurile Islands.			
		h = 40 km (Um,Ud).			
"	29	Up	iP	01 59 36.3	
		Ki	iP	01 59 02.7	
		Sk	iP	01 59 32.0	
		Um	iP	01 59 17.1	C
		Ud	iP	01 59 41.2	
		De	iP	01 59 55.6	
		Bonin Islands (h = 430 km).			

1975					
May	29	Ud	iP	02 28 13.5	
		De	iP	02 28 30.3	
"	29	Up	iPKP1	07 00 27.3	
			iSKP1	07 03 15.7	
			i	07 03 39.3	
				micr	sec
			PKP1 Z'	0.1	0.7
			SKP1 Z'	0.1	1.0
			i Z'	0.3	1.4
		Ki	i(PKP)	07 00 08.1	
			iPKP	07 00 19.1	
			iSKP1	07 02 53.1	
				micr	sec
			SKP1 Z'	0.5	1.6
		Sk	i(PKP)	07 00 19.2	
			i	07 00 21.9	
			iSKP1	07 03 09.4	
		Um	i(PKP)	07 00 13.6	
			i	07 00 16.5	
			iSKP1	07 03 04.4	
		Ud	iPKP1	07 00 29.7	
			i	07 02 38.2	
			iSKP1	07 03 17.4	
		De	iPKP1	07 00 40.8	
			i	07 03 23.0	
			iSKP1	07 03 26.5	
		Tonga-Kermadec Islands (h = 620 km).			
"	29	Um	iP	15 48 09.3	
"	29	Up	iP	15 55 46.0	
		Ki	iP	15 55 11.3	
			ipP	15 56 32.7	
				micr	sec
			pP Z'	0.1	1.1
		Sk	iP	15 55 42.3	
		Um	iP	15 55 24.8	
			ipP	15 56 50.0	
		Ud	iP	15 55 52.9	
			ipP	15 57 13.4	
		Japan.			
		h = 380 km (Ki,Um,Ud).			
"	29	Ki	iP	16 19 11.5	
"	29	Up	iP	19 19 15.8	
		Ki	iP	19 18 36.8	
		Um	iP	19 18 53.5	
		Ud	iP	19 19 22.9	
		Japan (h = 15 km).			
"	29	Ud	iP	20 46 31.9	

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

1975					
May	29	Ki	iP	22 30 38.4	
"	29	Up	iP	23 05 14.6	
			ipP	23 05 23.0	
		Ki	iP	23 06 02.2	
			ipP	23 06 09.9	
		Um	iP	23 05 39.5	
		Ud	iP	23 05 01.2	
			ipP	23 05 09.8	
		De	iP	23 04 46.5	
		North Atlantic Ocean.			
		h = 30 km (Up,Ki,Ud).			
"	30	Up	iP	00 53 49.2	
		Um	iP	00 53 48.2	
		Ud	iP	00 54 06.1	
		De	eP	00 54 03	
		Hindu Kush (h = 220 km).			
"	30	Um	iPKP1	01 22 22.5	
		Ud	iPKP1	01 22 36.0	C
"	30	Ud	iPKP1	01 35 23.6	
		De	iPKP1	01 35 34.9	
		Fiji Islands (h = 560 km).			
"	30	Up	iPKP1	02 30 52.2	
			ipPKP1	02 31 02.8	
		Um	iPKP1	02 30 41.0	
		Ud	iPKP1	02 30 53.8	
			ipPKP1	02 31 04.2	
		De	iPKP1	02 31 04.5	
			ipPKP1	02 31 16.1	
		Tonga-Kermadec Islands.			
		h = 30 km (Up,Ud,De).			
"	30	Up	iP	04 18 02.3	
				micr sec	
			P Z'	0.1 0.9	
		Ki	iP	04 17 15.5	
		Sk	iP	04 17 50.2	
		Um	iP	04 17 36.7	
		Ud	iP	04 18 08.1	
		De	iP	04 18 27.2	
		Kurile Islands (h = 170 km).			
"	30	Up	iP	04 28 29.1	
			i	04 28 35.5	
		Um	iP	04 28 20.4	
		Ud	iP	04 28 36.5	
			i	04 28 48.2	
"	30	Up	iP	04 41 57.7	
		(cont.)			

1975					
May	30	(cont.)			
		Ki	iP	04 42 15.4	
		Um	iP	04 42 16.6	
		Ud	iP	04 42 17.6	
"	30	Up	iP	10 36 10.2	
		Ki	iP	10 35 22.1	
		Sk	iP	10 35 56.4	
		Um	iP	10 35 44.3	
		Ud	iP	10 36 15.4	
		Kurile Islands (h = 50 km).			
"	30	Ki	iP	13 48 27.7	
		Ud	iP	13 48 57.6	
			i	13 49 09.0	
		Formosa (h = N).			
		The second onset (Ud), when interpreted as pP, gives the focal depth of 40 km.			
"	30	Up	iP	14 26 37.4	
			i	14 26 46.8	
				micr sec	
			P Z'	0.1 1.0	
			Mx E	1.9 20	
			Mx N	4.4 24	
		Ki	iP	14 26 12.1	
			i	14 26 23.5	
				micr sec	
			i Z'	0.1 1.0	
			Mx E	1.5 16	
			Mx N	3.1 21	
		Sk	iP	14 26 38.4	
			i	14 26 50.4	
		Um	iP	14 26 21.8	
			i	14 26 31.7	
		Ud	iP	14 26 44.4	
			i	14 25 56.0	
		Formosa (h = 10 km).			
		m = 5.9, M = 5.7 (Up,Ki).			
		Double P, smaller and larger, average separation = 10.9 sec.			
		The second onset, when interpreted as pP, gives the focal depth of 35 km.			
"	30	Up	iP	17 55 16.7	
			i	17 55 27.1	
			iPcP	17 55 57.5	
			iPP	17 57 32.9	
			iS	18 03 42	
				micr sec	
			P Z'	0.4 0.7	
			i Z'	0.8 1.3	
		(cont.)			

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

1975
May 30 (cont.)

			micr	sec
Up				
	Mx	E	6.7	15
	Mx	N	24	27
	Mx	Z	11	13
Ki	e(P)		17 55 02	
	iP		17 55 06.3	
	iPP		17 57 11.6	
			micr	sec
	P	Z'	0.3	1.1
	Mx	E	6.9	12
	Mx	N	9.7	13
	Mx	Z	7.4	13
Sk	iP		17 55 29.7	
	i		17 55 31.5	
Um	iP		17 55 06.1	
	i		17 55 07.8	
	iS		18 03 24	
Ud	iP		17 55 28.2	
	i		17 55 30.5	
	iPP		17 57 50.8	
De	iP		17 55 32.3	
	iPcP		17 56 08.6	
	iPP		17 57 56.1	

Burma (h = 55 km).
m = 6.5, M = 6.3 (Up,Ki).
Double P, small and large (Sk,Um,Ud), average separation = 1.9 sec.

" 30	Up	iPKP1	18 06 04.0	
		i	18 06 06.2	
	Ki	iPKP1	18 06 00.2	
		i	18 06 01.6	
			micr	sec
		PKP1 Z'	0.8	2.2
	Sk	iPKP1	18 06 10.2	
	Um	iPKP1	18 05 58.6	
		i	18 06 04.1	
		i	18 06 11.4	
	Ud	iPKP1	18 06 09.3	
		i	18 06 17.4	
		i	18 06 27.0	
	De	iPKP2	18 06 10.3	
		i	18 06 13.1	
		i	18 06 23.1	

South of Australia (h = N).

" 30	Up	iPKP1	18 09 14.4	
			micr	sec
		PKP1 Z'	0.3	1.5
	Ki	iPKP1	18 09 12.5	
		i	18 09 14.3	

(cont.)

1975
May 30 (cont.)

	Ki		micr	sec
		PKP1 Z'	0.1	1.0
		i Z'	0.6	2.0
	Sk	iPKP1	18 09 21.8	
		iPKP2	18 09 28.4	
	Um	iPKP1	18 09 12.2	
		i	18 09 18.1	
	Ud	iPKP2	18 09 23.8	
		i	18 09 31.8	
	De	iPKP2	18 09 20.7	
		i	18 09 29.4	

South of Australia (h = 45 km).

" 30	Up	i(P)	18 40 49.2	
" 30	Up	iP	18 55 46.1	
	Um	iP	18 55 27.9	
	Ud	iP	18 55 59.2	
" 30	Up	iPKP	20 28 02.6	
	Um	iPKP	20 28 10.3	
	Ud	iPKP	20 28 01.1	

South Atlantic Ocean (h = N).

" 30	Up	iP	20 35 35.9	
	Ki	iP	20 35 38.9	

Sumatra (h = N).

" 30	Up	i(P)	20 45 00.6	
" 30	Up	i(P)	20 45 19.5	
" 30	Up	iP	22 08 16.9	
	Ki	iP	22 07 33.8	
	Sk	iP	22 08 07.8	
	Um	iP	22 07 52.9	
	Ud	iP	22 08 24.0	
	De	iP	22 08 40.3	

Japan (h = 120 km).

" 30	Up	iPKP1	23 04 23.8	
	Ud	iPKP1	23 04 25.3	
	De	iPKP1	23 04 34.4	
" 31	Up	iP	01 15 33.9	
	Um	iP	01 15 22.7	C
	Ud	iP	01 15 34.2	C
" 31	Ud	iP	03 29 23.4	
" 31	Up	iPKP1	07 38 28.5	
	Ud	iPKP1	07 38 29.0	
	De	iPKP1	07 38 40.0	

Fiji Islands (h = 550 km).

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

1975

May	31	Up	iP	07 55 58.3
		Sk	iP	07 56 04.9
		Um	iP	07 55 47.1
			i	07 55 54.6
			iS	08 06 29
		Ud	iP	07 56 07.5
			i	07 56 13.0
		Mindanao (h = 70 km).		
"	31	Ud	iP	12 46 51.9
		De	iP	12 46 17.0
		Dodecanese Islands (h = 20 km).		
"	31	Up	iP	13 22 47.1
		Ud	iP	13 23 00.6
"	31	Up	iP	23 45 28.7
		Ki	iP	23 44 33.9
		Sk	iP	23 45 02.5
		Um	iP	23 45 02.7
		Ud	iP	23 45 26.8 C
		De	iP	23 45 50.3
		Alaska (h = 130 km).		

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February 22, 1977

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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, 1975

1975
June 1 Ud iP 01 50 45.3
California (h = 5 km),

" 1 Up iP 01 51 57.3
Ki iP 01 51 36.7
Um iP 01 51 41.4
Ud iP 01 52 06.8
i 01 52 15.7
Luzon (h = 25 km).

" 1 Up iP 05 10 54.0
Ud iP 05 11 00.4
Japan (h = 50 km).

" 1 Up iPKP1 06 05 11.7
Ud iPKP1 06 05 13.7
i 06 05 25.0

" 1 Ud iP 08 38 31.1

" 1 Up eP 09 29 29
Ud iP 09 29 36.5
Mariana Islands (h = 45 km).

" 1 Ud iP 11 48 50.8

" 1 Ki iP 13 19 55.0
Alaska (h = 140 km).

" 1 Up i(P) 21 07 44.2
Ki i(P) 21 08 38.2

" 1 Up iP 21 29 59.2
Ud iP 21 30 13.8

" 2 Up iP 03 24 12.0
i 03 24 20.3
iS 03 28 39
(cont.)

1975
June 2 (cont.)

		micr	sec
Mx	E	0.8	11
Mx	N	1.1	11
Mx	Z	1.3	11

Ki eP 03 25 27

		micr	sec
Mx	E	0.6	10
Mx	N	0.6	10
Mx	Z	0.7	11

Sk iP 03 24 59.2
Ud iP 03 24 28.1
De iP 03 23 55.9
Dodecanese Islands (h = 25 km).
M = 4.7 (Up,Ki).

" 2 Ud iP 04 29 26.0
Iran (h = 50 km).

" 2 Up iP 05 22 09.9

" 2 Up

		micr	sec
Mx	E	1.7	22
Mx	N	1.4	20
Mx	Z	2.4	20

Ki

		micr	sec
Mx	E	2.0	23
Mx	N	1.7	22
Mx	Z	2.3	22

Um iPKP 19 52 12.7
Ud ePKP 19 52 15
De i(PKP) 19 52 23.8
New Hebrides Islands
(h = 55 km).
M = 5.9 (Up,Ki).

" 2 Up iP 20 32 38.2
Ki eP 20 32 04
(cont.)

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

1975
June 2 (cont.)

Um	iP		20 32 18.2	
Ud	iP		20 32 44.7	

Japan (h = 60 km).

" 3 Um iSgl 00 44 22.2
Gulf of Bothnia,
61.6°N, 20.9°E.
Origin time = 00 43 10.
m = 3.9, M_L = 2.0 (Um).
Explosion?
Solution from Helsinki
regional bulletin.

" 3

Up	iP		00 48 00.1	
			micr	sec
	P	Z'	0.1	0.8
Ki	iP		00 47 50.3	
			micr	sec
	P	Z'	0.2	1.8
	Mx	E	0.9	15
	Mx	N	0.7	12
	Mx	Z	0.9	13
Sk	iP		00 48 14.3	
	ipP		00 48 19.0	
Um	iP		00 47 50.5	
	ipP		00 47 55.7	
Ud	iP		00 48 13.6	
De	iP		00 48 17.0	

Burma.
h = 20 km (Sk,Um).
m = 6.0 (Up,Ki).

" 3

Ud	iPKPl		01 02 55.1
De	iPKPl		01 03 05.7

" 3

Up	iP		01 09 31.5	
	ipP		01 09 37.1	
			micr	sec
	pP	Z'	0.1	1.1
Ki	iP		01 09 21.4	
Sk	iP		01 09 45.0	
Um	iP		01 09 21.6	
	ipP		01 09 27.4	
Ud	iP		01 09 44.2	
	ipP		01 09 50.3	

Burma.
h = 25 km (Up,Um,Ud).

" 3

Up	iP		02 46 32.4
	i1		02 46 38.7
	i2		02 46 43.0
Um	iP		02 46 09.1
Ud	i2		02 46 37.0

Queen Elizabeth Islands
(h = N).

1975
June 3

Up	iP		03 33 57.0	
			micr	sec
	P	Z'	0.2	1.0
	Mx	N	0.8	16
Ki	iP		03 34 47.1	
	ipP		03 34 57.3	
			micr	sec
	P	Z'	0.2	1.0
	Mx	E	0.8	14
	Mx	N	0.7	15
	Mx	Z	0.8	15
Sk	iP		03 34 11.2	
	ipP		03 34 21.0	
Um	iP		03 33 46.7	
	ipP		03 33 57.7	
	iS		03 42 07	
Ud	iP		03 34 10.4	
De	iP		03 34 12.9	
	iPcP		03 34 48.8	

Burma.
h = 40 km (Ki,Sk,Um).
m = 6.2 (Up,Ki).

" 3

Up	eP		03 52 30
Ki	eP		03 52 25

" 3 Um iP 05 05 19.2
Iran (h = N).

" 3

Up	iP		05 34 05.7	
			micr	sec
	P	Z'	0.1	1.0
Ki	iP		05 33 47.4	
			micr	sec
	P	Z'	0.1	1.0
	Mx	E	0.6	13
	Mx	N	0.7	16
	Mx	Z	1.1	15
Sk	iP		05 34 10.0	
Um	iP		05 33 53.7	
	iS		05 44 15	
Ud	iP		05 34 13.9	

Philippine Islands (h = N).
m = 6.0 (Up,Ki).

" 3

Sk	iPKP		10 04 33.0
Um	iPKP		10 04 28.9

" 3 Um iPKPl 13 52 45.8
South of Kermadec Islands
(h = 150 km).

" 3

Up	iP		14 31 48.2	C
			micr	sec
	P	Z'	0.3	1.1

(cont.)

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

1975 June 3 (cont.)

	Ki	iP		14 31 13.6	C
				micr	sec
		P	Z'	0.2	1.2
		Mx	E	0.5	12
		Mx	Z	0.5	13
	Sk	iP		14 31 21.7	C
	Um	iP		14 31 33.3	C
	Ud	iP		14 31 40.1	C
	De	iP		14 31 56.9	C

Nevada.
Underground explosion.
m = 6.2 (Up,Ki).

" 3	Up	iP		14 51 49.3	C
	Ki	iP		14 51 14.8	C
				micr	sec
		P	Z'	0.3	1.5
	Sk	iP		14 51 22.6	C
	Um	iP		14 51 43.2	C
	Ud	iP		14 51 40.7	C
	De	iP		14 51 57.5	C

Nevada.
Underground explosion.

" 3	Up	iP		18 21 20.0	
		il		18 21 21.6	
		i2		18 21 23.9	
		iSKS		18 31 48	
		iS		18 32 12	
				micr	sec
		il	Z'	0.1	1.0
		i2	Z'	0.7	1.9
		Mx	E	2.7	20
		Mx	N	4.9	21
		Mx	Z	4.6	20
	Ki	iP		18 21 01.0	
		i2		18 21 05.1	
		iSKS		18 31 24	
		iS		18 31 38	
				micr	sec
		i2	Z'	0.1	1.0
		Mx	E	3.6	15
		Mx	N	2.6	14
		Mx	Z	3.9	14
	Sk	iP		18 21 22.8	
		i2		18 21 27.5	
	Um	il		18 21 09.2	
		i2		18 21 11.8	
		iSKS		18 31 34	
		iS		18 31 49	
	Ud	iP		18 21 27.5	
		il		18 21 29.6	
		i2		18 21 32.1	
	De	i2		18 21 38.6	

(cont.)

1975 June 3 (cont.)
Philippine Islands (h = N).
m = 6.3, M = 6.0 (Up,Ki).
Multiple event.

" 3	Up	iP		19 23 20.0	
	Ki	iP		19 23 01.2	
		ipP		19 23 13.3	
	Sk	iP		19 23 23.4	
		ipP		19 23 35.8	
	Um	iP		19 23 07.6	
	Ud	iP		19 23 28.1	
		ipP		19 23 40.0	
	De	iP		19 23 35.4	

Philippine Islands.
h = 45 km (Ki,Sk,Ud).

" 3	Up	iP		23 20 22.3	
	Ud	iP		23 20 29.6	
" 4	Ki	iP		00 17 35.8	
	Ud	iP		00 18 02.5	
" 4	Up	iP		02 32 54.6	
		i		02 32 58.2	
		iPP		02 34 35.9	
		iS		02 39 39	
				micr	sec
		P	Z'	0.1	0.8
		i	Z'	0.4	1.1
		Mx	E	12	13
		Mx	N	35	17
		Mx	Z	23	13
	Ki	iP		02 32 52.8	
		i		02 32 56.4	
		iS		02 39 38	
				micr	sec
		P	Z'	0.2	0.6
		i	Z'	0.5	0.8
		Mx	E	9.3	11
		Mx	N	51	19
		Mx	Z	11	13
	Sk	iP		02 33 14.6	
		i		02 33 19.1	
		iPP		02 35 13.8	
	Um	iP		02 32 47.4	
		i		02 32 52.1	
		iPP		02 34 31.6	
		iS		02 39 28	
	Ud	iP		02 33 09.9	
		i		02 33 14.3	
	De	iP		02 33 10.7	
		i		02 33 14.2	

Kashmir-Tibet (h = N).
m = 6.4, M = 6.6 (Up,Ki).
Multiple event.

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

1975 June 4 Up iP 02 46 08.3
Ki iP 02 46 06.7 D
Sk iP 02 46 29.1
Um iP 02 46 01.4
Ud iP 02 46 23.2
De iP 02 46 23.9
Kashmir-Tibet (h = 60 km).

" 4 Ki eP 02 49 59

" 4 Up iP 03 00 17.0
Ki iP 03 01 20.5
Um iP 03 00 42.8
Ud iP 03 00 31.8
Turkey(h = 70 km).

" 4 Up iP 03 01 54.9
Ki eP 03 02 55
Um iP 03 02 20.0
Ud iP 03 02 08.9
De i(P) 03 01 45.9
Turkey.
Origin time = 02 57 14.

" 4 Ki iP 03 17 10.2

" 4 Ki iP 04 37 02.5
Kashmir-Tibet (h = N).

" 4 Um iPKP 04 51 39.9
Loyalty Islands (h = 40 km).

" 4 Up iPKP 05 44 39.0
Ki iPKP 05 44 23.9
iSKP1 05 47 15.5
Um iPKP 05 44 33.2
i 05 44 41.7
iSKP1 05 47 27.6
Ud iPKP 05 44 40.2
Fiji Islands (h = 470 km).

" 4 Ki eP 08 21 52

" 4 Ud iP 09 08 27.9
Japan (h = 70 km).

" 4 Um iP 09 22 36.5
Japan (h = 70 km).

" 4 Ki iP 09 26 22.4
micr sec
Mx E 0.7 16
Mx N 0.7 15
Mx Z 0.9 16
(cont.)

1975 June 4 (cont.)
Sk eP 09 26 53
iS 09 28 33.2
Um iP 09 27 07.5
Norwegian Sea, near 72°N, 4°E.
Origin time = 09 24 42.

" 4 Up iP 09 57 12.3
Ki eP 09 56 24
Um iP 09 56 46.8
Ud iP 09 57 18.0
i 09 57 31.8
Kurile Islands (h = N).

" 4 Um iPKP1 10 33 30.6
Ud iPKP1 10 33 45.5

" 4 Ki iP 13 13 41.5
Molucca Sea (h = 30 km).

" 4 Up iP 13 17 34.0
Ud iP 13 17 32.0

" 4 Ki iP 14 29 44.1
Kashmir-Tibet (h = N).

" 4 Up iRg 15 36 06.6
Ud iRg 15 35 40.8
South-central Sweden.
Near-surface event.

" 4 Up iPg1 15 39 31.8
iSg1 15 39 38.1
iRg 15 39 40.2
Sk iSg1 15 41 46.4
Ud iSg1 15 40 13.5
iRg 15 40 20.1
East-central Sweden.
Near-surface event.

" 4 Um iSg1 16 02 51.0
Gulf of Bothnia, 61.5°N, 20.8°E.
Origin time = 16 01 39.
m = 3.9, M_L = 2.0 (Um).
Explosion?
Solution from Helsinki regional bulletin.

" 4 Up iP 16 46 34.5
Ki eP 16 47 20
Sk iP 16 47 07.7
Um iP 16 46 54.6
Ud iP 16 46 45.2

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

1975 June	4	Ud	iP	16 48 13.4	
"	4	Um	i(P)	18 08 09.4	
"	4	Up	iP	18 10 58.6	
		Ki	iP	18 10 26.9	C
		Sk	iP	18 10 55.7	
			iPP	18 14 01.7	
		Um	iP	18 10 40.5	C
		Ud	iP	18 11 06.1	
		De	iP	18 11 17.6	
		Bonin Islands (h = 500 km).			
"	4	Ki	iP	18 50 57.9	
"	4	Um	iP	20 32 22.7	
"	4	De	iPKP	20 40 41.6	
		Solomon Islands (h = 170 km).			
"	4	Up	iP	20 46 47.2	
		Ki	iP	20 45 54.1	
		Ud	iP	20 46 47.2	
		De	iP	20 47 10.0	
		Aleutian Islands (h = 80 km).			
"	5	Ki	i(pP)	03 47 04.6	
		Peru (h = 60 km).			
"	5	Um	iP	04 17 22.1	
		Mexico (h = 110 km).			
"	5	Up	iP	06 51 09.8	
				micr sec	
			P Z'	0.1 0.7	
		Ki	iP	06 50 57.6	
		Sk	eP	06 51 22	
		Ud	iP	06 51 25.6	
		De	iP	06 51 30.7	
		Sinkiang, China (h = N).			
"	5	Ud	iP	12 30 07.5	
		Japan (h = 20 km).			
"	5	Up	iRg	12 33 59.2	
		Ud	iRg	12 33 54.5	
		South-central Sweden.			
		Near-surface event.			
"	5	Up	iSgl	13 21 59.5	
			iRg	13 22 09.1	
		Um	iSgl	13 22 33.4	
		Gulf of Bothnia,			
		60.9°N, 20.6°E.			
		Origin time = 13 21 01.			
		(cont.)			

1975 June	5	(cont.)		
		m = 3.9, M_L = 2.0 (Up,Um).		
		Explosion?		
		Solution from Helsinki		
		regional bulletin.		
"	5	Up	iP	13 40 49.3
		Ki	iP	13 40 25.6
		Ud	iP	13 40 56.7
			i	13 41 10.0
		Philippine Islands (h = N).		
"	5	Up	iSgl	14 33 12.3
			iRg	14 33 28.2
		Regional near-surface event.		
"	5	Ud	iP	15 01 39.9
"	5	Ud	iP	15 59 00.1
"	5	Ud	iP	18 40 53.1
"	5	Up	iP	19 36 28.8
		Ud	iP	19 36 45.3
		De	iP	19 36 42.4
		Afghanistan-USSR (h = 110 km).		
"	5	Up	iRg	20 42 06.0
		Ud	iRg	20 41 53.8
		South-central Sweden.		
		Near-surface event.		
"	5	Up	iSKS	20 53 30
		Ki	iSKS	20 53 38.4
		Um	iSKS	20 53 40
		Ud	iP	20 43 04.2
			iPP	20 47 12.0
		Peru-Bolivia (h = 180 km).		
"	5	Up	iP	21 50 38.6
			i	21 50 58.8
		Ki	iP	21 50 26.3
		Ud	iP	21 50 55.2
		De	iP	21 51 00.3
"	5	Up	iP	23 14 29.4 C
		Ki	iP	23 13 46.4
		Ud	iP	23 14 43.1
"	6	Ki	iP	00 03 06.9
		Sk	iP	00 02 52.8
		Um	iP	00 03 09.7
		Ud	iP	00 02 56.6
		De	iP	00 02 59.3
		Panama-Colombia (h = 15 km).		

Up = Uppsala, Si = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delaray

1975 June	6	Up	iPKP1		01 26 46.1	
			iSKP1		01 29 31.0	
			iPP		01 29 54.3	
					micr	sec
			PKP1	Z'	0.1	0.7
		Ki	i(PKP)		01 26 25.2	
			iPKP		01 26 40.9	C
			iSKP1		01 29 07.5	
					micr	sec
			PKP	Z'	0.1	0.6
			SKP1	Z'	0.3	1.4
		Sk	i(PKP)		01 26 40.4	
			iPKP		01 26 50.4	
			iSKP1		01 29 23.8	
		Um	i(PKP)		01 26 32.9	
			i(PKP)		01 26 40.5	
			iPKP		01 26 46.1	
			iSKP1		01 29 19.4	
		Ud	iPKP1		01 26 47.8	
			iSKP1		01 29 32.8	
			iSKKP		01 38 06.9	
		De	iPKP1		01 26 59.9	
			iSKP1		01 29 41.9	
		Fiji Islands (h = 660 km).				
"	6	Um	iPKP		05 37 37.4	
		New Ireland (h = 60 km).				
"	6	Up	i(PKP)		06 05 55.9	
		Ki	e(PKP)		06 05 41	
			iPKP		06 05 48.3	
		Um	iPKP		06 05 55.9	
		Ud	i(PKP)		06 06 01.0	
			iPKP		06 06 05.9	
		De	i(PKP)		06 06 02.0	
			iPKP		06 06 13.3	
		Fiji Islands (h = 410 km).				
"	6	Up	iP		10 58 34.0	
		Ki	iP		10 58 33.1	
		Sk	iP		10 58 55.3	
		Um	iP		10 58 27.9	
		Ud	iP		10 58 50.2	D
		De	iP		10 58 50.1	D
		Kashmir-Tibet (h = N).				
"	6	Up	iP		14 34 20.6	
		Sk	eP		14 34 08	
		Ud	iP		14 34 11.5	
		De	iP		14 34 12.5	
		Peru (h = 110 km).				
"	6	Up	iP		15 50 28.8	
		Ud	iP		15 50 35.6	

1975 June	6	Up	i(P)		16 01 28.8	
			iP		16 01 29.2	D
			i		16 01 43.2	
			iS		16 11 28	
					micr	sec
			P	Z'	0.2	0.8
			Mx	E	6.2	15
			Mx	N	4.2	14
			Mx	Z	13	15
		Ki	iP		16 01 03.1	D
					micr	sec
			P	Z'	0.4	1.4
			Mx	E	3.3	13
			Mx	N	3.0	15
			Mx	Z	3.8	15
		Sk	iP		16 01 30.8	D
		Um	iP		16 01 12.9	D
			iS		16 11 01	
		Ud	i(P)		16 01 37.8	
			iP		16 01 38.1	D
			i		16 01 52.0	
		De	iP		16 01 47.6	
		Ryukyu Islands (h = 15 km). m = 6.2, M = 6.0 (Up,Ki). The phase denoted as (P) is a small-amplitude precursor.				
"	6	Ud	iP		17 45 56.1	
"	6	Up	iP		18 58 10.2	
		Sk	iP		18 58 52.5	
		Um	iP		18 58 47.2	
		Ud	iP		18 58 19.5	
		De	eP		18 57 47	
		Greece (h = 30 km).				
"	6	Um	iPKP		19 31 10.5	
		Santa Cruz Islands (h = 35 km).				
"	6	Up	iP		20 12 55.4	
		Ki	iP		20 12 56.8	
		Ud	iP		20 13 12.0	
		De	eP		20 13 11	
		Sinkiang, China (h = 45 km).				
"	6	Um	iP		20 18 56.0	
"	6	Ki	iP		20 55 09.8	
		Ud	iP		20 55 18.5	
			il		20 55 25.3	
		De	il		20 55 22.6	
		Sunda Strait (h = N).				

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

1975 June	6	Up	iP		22 53 30.2	
		Ud	eP		22 53 45	
		Pakistan (h = N).				
"	7	De	eP		01 28 50	
"	7	Up	iP		06 04 26.3	
		Um	iP		06 04 35.9	
		Ud	iP		06 04 42.2	
		De	eP		06 04 28	
"	7	Um	iP		08 40 18.7	
"	7	Up	iP		08 58 02.6	
			ipP		08 58 12.2	
			iS		09 07 38	
					micr	sec
			P	Z'	0.2	1.0
			Mx	E	1.6	21
			Mx	N	2.0	22
			Mx	Z	4.0	21
		Ki	iP		08 57 24.1	
			ipP		08 57 33.8	
					micr	sec
			P	Z'	0.2	1.1
			Mx	E	2.7	18
			Mx	N	2.6	18
			Mx	Z	3.0	19
		Sk	iP		08 57 36.8	
			ipP		08 57 45.3	
		Um	iP		08 57 45.6	
			ipP		08 57 54.2	
		Ud	iP		08 57 56.0	
			ipP		08 58 04.4	
		De	iP		08 58 14.0	
			epP		08 58 24	
		California.				
		h = 35 km (Up,Ki,Sk,Um,Ud,De).				
		m = 6.1, M = 5.6 (Up,Ki).				
"	7	Up	iSgl		09 25 57.8	
		De	iPgl		09 23 40.0	
			iSgl		09 24 11.2	
		South Baltic Sea.				
"	7	Ud	iP		09 41 06.3	
		Kurile Islands (h = 100 km).				
"	7	Up	iP		14 56 43.8	
		Sk	iP		14 57 26.2	
		Ud	iP		14 57 06.5	
		De	iP		14 56 59.6	
"	7	Up	iP		15 23 21.9 C	
					micr	sec
			P	Z'	0.1	0.9
		(cont.)				

1975 June	7	(cont.)				
		Ki	iP		15 22 30.3	
		Sk	iP		15 23 06.6 C	
		Um	iP		15 22 54.0	
		Ud	iP		15 23 26.2 C	
		De	iP		15 23 46.7 C	
		Kamchatka (h = 45 km).				
"	7	Up	iP		16 03 26.7	
		Um	iP		16 03 01.9	
		Ud	iP		16 03 33.7	
		Kurile Islands (h = N).				
"	7	Up	iP		16 55 20.5	
		Um	iP		16 55 02.7	
		Ud	iP		16 55 26.8	
		Volcano Islands (h = N).				
"	7	Up	iP		17 34 04.9	
		Ki	iP		17 35 11.7	
		Sk	iP		17 34 44.1	
		Ud	iP		17 34 13.3	
		De	iP		17 33 40.9	
		Crete (h = 80 km).				
"	7	Ud	iP		17 38 14.2	
"	7	Up	iP		17 42 06.7	
		Ki	iP		17 43 13.8	
		Sk	iP		17 42 46.2	
		Um	iP		17 42 38.5	
		Ud	iP		17 42 14.6	
		De	iP		17 41 42.5	
		Crete (h = 70 km).				
"	7	De	i(Pgl)		19 36 20.4	
			iSgl		19 37 04.3	
"	7	Ud	iP		21 59 10.3	
		Kurile Islands (h = 55 km).				
"	8	Up	iP		02 35 27.2	
		Ud	eP		02 35 39	
"	8	Up	iP		03 33 52.7 C	
			iPn		03 35 00.0	
			iPP		03 35 11.3	
					micr	sec
			P	Z'	0.2	0.9
		Ki	iP		03 33 37.4 C	
			iPn		03 34 37.3	
					micr	sec
			P	Z'	0.4	0.5
		Sk	iP		03 34 08.5 C	
			iPP		03 35 29.0	
		Um	iP		03 33 37.7 C	
		(cont.)				

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

1975 June	8	(cont.)			
		Um	iPn	03 34 38.7	
			iPP	03 34 52.5	
		Ud	iP	03 34 09.0	C
			iPn	03 35 21.8	
			iPP	03 35 33.6	
		De	iP	03 34 16.2	C
			iPn	03 35 31.3	
			iPP	03 35 43.7	
		Eastern Kazakh SSR.			
		m = 6.3 (Up,Ki).			
		Underground explosion.			
"	8	Up	i(P)	12 11 39.1	
"	8	Up	iPKPl	16 56 11.5	
		Ud	iPKPl	16 56 13.2	
		De	iPKPl	16 56 23.8	
		Tonga-Kermadec Islands			
		(h = 540 km).			
"	8	Up	iP	17 27 53.4	
			i	17 28 08.8	
		Ki	eP	17 29 02	
		Sk	eP	17 28 32	
		Um	iP	17 28 26.3	
		Ud	iP	17 28 00.1	
			ipP	17 28 11.7	
		De	iP	17 27 26.8	
		Crete.			
		h = 60 km (Ud).			
"	8	Ud	iP	18 02 28.2	
		Aegean Sea (h = N).			
		About 10 sec early compared			
		with the NEIS solution.			
"	8	Ud	iP	18 45 10.5	
"	8	De	iP	18 45 24.1	
		Republic of South Africa			
		(h = N).			
"	8	Um	iP	19 41 59.6	
		De	iP	19 42 27.4	
"	8	Up	iP	23 30 13.3	
			i	23 30 15.3	
			ipP	23 30 22.8	
		Ud	iP	23 30 00.6	
			ipP	23 30 09.5	
		North Atlantic Ocean.			
		h = 45 km (Up,Ud).			
"	9	Up	iP	00 11 00.0	
		(cont.)			

1975 June	9	(cont.)			
		Ki	iP	00 11 09.3	
		Sk	iP	00 10 48.4	
		Ud	iP	00 10 50.0	
		De	iP	00 10 47.1	
		Windward Islands (h = 120 km).			
"	9	Up	iP	01 51 27.4	
		Ud	iP	01 51 37.9	
"	9	Ki	iP	03 24 24.7	
		Um	iP	03 24 29.9	
		Ud	iP	03 24 47.7	
		Molucca Passage (h = N).			
"	9	Up	iP	03 27 10.2	
		Ud	iP	03 27 23.1	
"	9	Um	iPKPl	03 37 26.2	
		Ud	iPKPl	03 37 38.5	
"	9	Up	iP	04 05 00.6	
			i	04 05 11.3	
		Ki	iP	04 04 08.8	
		Um	iP	04 04 33.6	
			i	04 04 42.9	
		Ud	i	04 05 11.6	
		De	iP	04 05 25.2	
		Kamchatka (h = N).			
"	9	Ud	iPKP	08 05 17.7	
		Solomon Islands (h = 90 km).			
"	9	Ki	iP	11 30 03.1	
			i	11 30 07.0	
				micr	sec
			P Z'	0.1	1.0
		Um	iP	11 30 06.1	
		De	iP	11 30 30.6	
		Celebes (h = 280 km).			
"	9	Up	iP	15 04 47.2	
		Um	i(pP)	15 04 32.6	
		Ud	iP	15 04 52.8	
		De	iP	15 05 10.7	
		Kurile Islands (h = N).			
"	9	Up	iP	18 44 12.3	
			i	18 44 13.3	
			i	18 44 25.7	
			iPP	18 45 40.7	
				micr	sec
			P Z'	0.1	1.0
			Mx E	1.0	14
			Mx N	1.4	10
			Mx Z	1.1	9
		(cont.)			

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

1975 June	9	(cont.)				
		Ki	iP		18 44 20.4	
					micr	sec
			Mx	N	2.5	10
		Sk	iP		18 44 39.0	
			iPP		18 46 16.8	
		Um	iP		18 44 09.4	
			i		18 44 10.7	
		Ud	iP		18 44 29.2	
			i		18 44 30.7	
		De	iP		18 44 26.2	
			i		18 44 28.0	
		Afghanistan-USSR (h = 20 km).				
		Double P, in average 1.4				
		sec apart.				
"	9	Up	iSgl		20 00 20.3	
		Ud	iPgl		19 58 49.9	
			iSgl		19 59 35.6	
		De	iPn		19 58 38.5	
			iPgl		19 58 46.0	
			iSgl		19 59 28.2	
		Coast of south Norway,				
		58.3°N, 8.5°E.				
		Origin time = 19 57 49.				
		m = 4.2, M_L = 2.6 (Ud,De).				
		Checked with Kongsberg				
		reading.				
"	9	Ud	iP		20 26 39.4	
		Sinkiang, China (h = 70 km).				
"	9	Up	iP		22 09 19.4	
		Ki	iP		22 09 28.7	
		Sk	iP		22 09 45.0	
		Um	iP		22 09 18.2	
		Ud	iP		22 09 36.1	
		Hindu Kush (h = 200 km).				
"	9	Up	iPKPl		22 43 16.3	
		Ud	iPKPl		22 43 18.5	
		De	iPKPl		22 43 29.1	
"	10	Up	iP		03 42 50.1	
			i		03 43 02.5	
					micr	sec
			Mx	E	1.2	20
			Mx	N	2.7	25
		Ki	iP		03 42 26.6	
			ipP		03 42 31.3	
					micr	sec
			Mx	N	1.8	18
		Sk	iP		03 42 53.1	
		Um	iP		03 42 34.9	
			i		03 42 46.7	
		(cont.)				

1975 June	10	(cont.)				
		Ud	iP		03 42 59.5	
			ipP		03 43 04.5	
			i		03 43 12.1	
		De	iP		03 43 08.7	
			i		03 43 21.7	
		Formosa.				
		h = 20 km (Ki,Ud).				
		Double P, in average 12.5				
		sec apart.				
"	10	Up	iP		03 54 04.6	
		Formosa (h = 45 km).				
"	10	Up	iP		06 11 39.8	
					micr	sec
			P	Z'	0.2	1.5
		Ki	iP		06 12 10.3	D
					micr	sec
			P	Z'	0.1	1.2
		Sk	iP		06 11 28.4	
		Um	iP		06 11 59.2	D
		De	iP		06 11 18.5	D
		Azores Islands (h = N).				
		m = 5.6 (Up,Ki).				
"	10	Up	iP		07 35 25.4	
		Ki	iP		07 35 54.6	
		Um	iP		07 35 44.2	
		Ud	iP		07 35 09.6	
		Azores Islands (h = N).				
"	10	Ud	i(P)		08 34 45.4	
"	10	Ki	eP		08 48 59	
		Ud	iP		08 48 07.0	
		De	iP		08 47 37.4	
			i		08 47 42.1	
		Turkey (h = 60 km).				
"	10	Ki	eP		08 59 37	
		Sk	i		08 59 02.4	
		Um	iP		08 59 26.6	
		Ud	iP		08 58 55.5	
		Azores Islands (h = N).				
"	10	Up	i(PKP)		09 18 24.1	
			iPKP		09 18 28.1	
			i		09 18 36.5	
		Ki	i(PKP)		09 18 15.5	
			iPKP		09 18 20.0	
					micr	sec
			PKP	Z'	0.1	0.9
		Sk	i(PKP)		09 18 23.5	
			iPKP		09 18 30.1	
			iSKPl		09 21 06.9	
		(cont.)				

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

1975 June	10	(cont.)					
		Um	i(PKP)		09	18	16.8
			iPKP		09	18	26.7
			iSKP1		09	21	01.6
		Ud	i(PKP)		09	18	25.2
			iPKP		09	18	30.3
			i		09	18	38.2
		De	iPKP1		09	18	35.3
			iSKP1		09	21	25.6
		Fiji Islands (h = 580 km).					
"	10	Up	e(P)		09	35	36
					micr		sec
			(P)	Z'	0.1		1.0
"	10	Up	iP		09	52	55.5
			i		09	53	01.6
		Ki	iP		09	52	59.5 C
		Sk	iP		09	53	17.8
		Ud	iP		09	53	11.8 C
		De	iP		09	53	09.9
		Kashmir-Tibet (h = 30 km).					
"	10	Up	iPKP2		10	31	34.4
			ipPKP2		10	31	49.2
					micr		sec
			pPKP2	Z'	0.1		0.7
		Ki	iPKP		10	30	56.7
			iPKP1		10	31	01.1
			ipPKP1		10	31	15.8
					micr		sec
			PKP1	Z'	0.1		0.9
		Sk	iPKP		10	31	04.9
			iPKP1		10	31	13.4
		Um	iPKP		10	31	01.5
			iPKP1		10	31	08.3
			iPKP2		10	31	16.4
			ipPKP1		10	31	23.6
		Ud	iPKP		10	31	07.8
			ipPKP		10	31	23.8
			iPKP2		10	31	38.8
			ipPKP2		10	31	54.7
		De	iPKP		10	31	11.7
			ipPKP2		10	32	05.9
		North Island, New Zealand.					
		h = 50 km (Up,Ki,Um,Ud).					
"	10	Up	iP		12	00	16.5 C
			i		12	00	37.1
			i		12	00	55.1
					micr		sec
			P	Z'	0.1		0.8
		Ki	iP		12	00	05.9
		Sk	iP		12	00	30.5
			i		12	00	42.6
		(cont.)					

1975 June	10	(cont.)					
		Um	iP		12	00	06.6
			i		12	00	18.1
		Ud	iP		12	00	30.0
			i		12	00	50.2
		De	iP		12	00	33.0
			i		12	00	44.8
		India-China (h = 25 km).					
"	10	Ki	iP		13	13	59.5
		Um	i		13	14	13.0
		Celebes (h = 190 km).					
"	10	Up	iP1		13	58	23.1
			ipP1		13	58	29.8
			iP2		13	58	35.6
			ipP2		13	58	41.9
			iP3		13	58	53.4
			ipP3		13	59	00.6
			iS		14	07	39
					micr		sec
			P1	Z'	0.2		1.5
			pP2	Z'	1.4		0.6
			P3	Z'	1.3		1.3
			pP3	Z'	2.4		1.7
			Mx	E	42		15
			Mx	N	106		20
			Mx	Z	131		18
		Ki	iP1		13	57	38.8
			ipP1		13	57	45.0
			iP2		13	57	51.2
			ipP2		13	57	57.6
			ipP3		13	58	15.2
			iS		14	06	21
					micr		sec
			P1	Z'	0.4		1.5
			P2	Z'	0.6		1.6
			pP2	Z'	0.8		1.5
			pP3	Z'	2.2		2.1
			Mx	E	87		17
			Mx	N	103		16
			Mx	Z	145		17
		Sk	iP1		13	58	14.2
			iP2		13	58	25.7
			ipP2		13	58	31.8
			iP3		13	58	43.5
		Um	iP1		13	57	59.1
			iP2		13	58	11.3
			ipP2		13	58	17.1
			iP3		13	58	28.2
			iS		14	06	56
		Ud	iP1		13	58	29.8
			ipP1		13	58	35.8
			iP2		13	58	42.3
			iP3		13	58	59.7
		(cont.)					

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

1975 June 10 (cont.)

De	iP1		13 58 48.1	
	iP2		13 58 59.4	
	iP3		13 59 18.9	

Kurile Islands.
h = 25 km (Up,Ki,Sk,Um,Ud).
m = 7.0, M = 7.2 (Up,Ki).
Multiple event with successively increasing amplitudes. In average, P3-P1 = 30 sec, P2-P1 = 12 sec.

" 10 Up	iP		14 06 21.0	
	ipP		14 06 32.9	
Ki	iP		14 05 35.9	
Ud	iP		14 06 27.3	
	ipP		14 06 38.8	

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

" 10 Up	iP		14 22 24.2	C
	ipP		14 22 34.4	
			micr sec	
	P	Z'	0.2 1.1	
	pP	Z'	0.3 1.3	
Ki	iP		14 21 39.3	
	ipP		14 21 49.4	
			micr sec	
	P	Z'	0.1 1.1	
	pP	Z'	0.1 1.2	
	Mx	E	41 17	
	Mx	N	66 16	
	Mx	Z	31 15	
Sk	iP		14 22 13.8	
	ipP		14 22 24.5	
Um	iP		14 21 59.5	
	ipP		14 22 10.3	
Ud	iP		14 22 30.3	C
	ipP		14 22 40.9	
De	eP		14 22 47.7	
	ipP		14 22 58.5	

Kurile Islands.
h = 40 km (Up,Ki,Sk,Um,Ud,De).
m = 6.0 (Up,Ki).

" 10 Ud	iP		14 25 24.4	

" 10 Up	iP		14 29 41.6	
	ipP		14 29 51.8	
			micr sec	
	P	Z'	0.2 0.9	
Ki	iP		14 28 56.6	
	ipP		14 29 06.7	

(cont.)

1975 June 10 (cont.)

Ki			micr sec	
	P	Z'	0.2 1.0	
	pP	Z'	0.2 1.0	
Sk	iP		14 29 31.3	
	ipP		14 29 41.6	
Um	iP		14 29 16.5	
	ipP		14 29 26.2	
Ud	iP		14 29 48.1	
	ipP		14 29 58.4	
De	iP		14 30 04.6	
	ipP		14 30 14.3	

Kurile Islands-Japan.
h = 40 km (Up,Ki,Sk,Um,Ud,De).
m = 6.2 (Up,Ki).

" 10 Up	iP		14 32 00.1	
Ki	iP		14 32 40.4	

" 10 Up	iP		14 40 25.7	
	ipP		14 40 37.0	
			micr sec	
	pP	Z'	0.2 1.6	
Ki	iP		14 39 41.4	
Sk	eP		14 40 16	
Um	iP		14 40 01.7	
	ipP		14 40 11.6	
Ud	iP		14 40 32.1	

Kurile Islands.
h = 40 km (Up,Um).

" 10 Up	iP2		14 48 54.4	D
	ipP2		14 49 06.2	
			micr sec	
	P2	Z'	0.5 1.0	
	Mx	E	12 16	
	Mx	N	12 15	
Ki	iP2		14 48 09.2	D
	ipP2		14 48 20.2	
			micr sec	
	P2	Z'	0.5 1.3	
	Mx	E	16 15	
	Mx	N	16 16	
	Mx	Z	16 15	
Sk	iP2		14 48 44.7	D
	ipP2		14 48 56.4	
Um	iP1		14 48 28.9	C
	iP2		14 48 30.1	D
	ipP2		14 48 40.7	
Ud	iP1		14 48 59.8	C
	iP2		14 49 01.0	D
	ipP2		14 49 12.4	
De	iP2		14 49 18.4	D
	ipP2		14 49 30.0	

(cont.)

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

1975
June 10 (cont.)
Kurile Islands.
h = 45 km (Up,Ki,Sk,Um,Ud,De).
m = 6.5, M = 6.4 (Up,Ki).
The phase P1 denotes a small amplitude precursor with opposite phase compared with the main onset P2.

" 10

Up	iP		14	49	32.3 D
			micr		sec
	P	Z'	0.2		0.8
Ki	iP		14	48	47.1
			micr		sec
	P	Z'	0.3		1.0
Sk	iP		14	49	23.5 D
Um	iP		14	49	08.0
Ud	iP		14	49	38.9 D
De	iP		14	49	57.3 D

Kurile Islands.
m = 6.3 (Up,Ki).
Origin time = 14 38 28.

" 10

Up	iP		14	51	43.8
			micr		sec
	P	Z'	0.1		1.1
Ki	iP		14	50	58.5
			micr		sec
	P	Z'	0.1		1.1
Sk	iP		14	51	32.9
Ud	iP		14	51	49.6 C

Kurile Islands.
m = 5.8 (Up,Ki).
Origin time = 14 40 39.

" 10

Up	iP		14	52	35.0
Um	iP		14	52	09.6
Ud	iP		14	52	40.4

Kurile Islands.
Origin time = 14 41 29.

" 10

Up	iP		14	53	06.7
Ud	iP		14	53	12.5

Kurile Islands.
Origin time = 14 42 01.

" 10

Up	iP		15	00	23.7
			micr		sec
	P	Z'	0.1		0.9
Ki	iP		14	59	38.8
Sk	iP		15	00	14.2
Um	iP		14	59	59.1
Ud	iP		15	00	29.9 C
De	iP		15	00	47.7

Kurile Islands (h = 20 km).

1975
June 10

Up	iP		15	10	02.0 C
	i		15	10	04.2 C
			micr		sec
	P	Z'	0.2		1.0
	i	Z'	0.4		0.9
	Mx	E	13		17
	Mx	N	12		15
	Mx	Z	18		16
Ki	iP		15	09	16.9 C
	i		15	09	18.9 C
			micr		sec
	P	Z'	0.1		0.9
	i	Z'	0.3		1.0
	Mx	E	18		14
	Mx	N	25		15
	Mx	Z	32		15
Sk	iP		15	09	51.5 C
	i		15	09	53.7 C
Um	iP		15	09	37.1 C
	i		15	09	39.2 C
Ud	iP		15	10	08.0 C
	i		15	10	10.1 C
De	iP		15	10	25.5 C
	i		15	10	27.6

Kurile Islands (h = 20 km).
m = 6.4, M = 6.5 (Up,Ki).
Double event, in average 2.0 sec apart.

" 10

Up	iP1		15	12	19.9 C
	iP2		15	12	21.0 D
			micr		sec
	P2	Z'	0.7		1.6
Ki	iP2		15	11	35.8 D
			micr		sec
	P2	Z'	0.1		1.3
Sk	iP2		15	12	10.8 D
Um	iP2		15	11	56.2 D
Ud	iP1		15	12	26.2 C
	iP2		15	12	27.2 D
De	iP2		15	12	44.3 D

Kurile Islands (h = 20 km).
m = 6.1 (Up,Ki).
Origin time = 15 01 14.
Double event with opposite phases, in average 1.0 sec apart.

" 10

Up	iP		15	32	22.4 C
	ipP		15	32	31.7
	i		15	32	35.4
			micr		sec
	P	Z'	1.2		1.5
	Mx	E	2.8		15
	Mx	N	5.4		17
	Mx	Z	6.0		16

(cont.)

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

1975 June 10 (cont.)

		Ki	iP	15 31 36.9	
				micr	sec
			P Z'	0.4	1.4
			Mx E	7.1	15
			Mx N	8.7	15
			Mx Z	9.3	15
		Sk	iP	15 32 12.2	C
		Um	iP	15 31 56.8	C
			i	15 31 58.1	D
			ipP	15 32 06.1	
		Ud	iP	15 32 28.8	C
			ipP	15 32 38.5	
			i	15 32 41.5	
		De	iP	15 32 45.5	C
			ipP	15 32 55.8	

Kurile Islands.
h = 35 km (Up,Um,Ud,De).
m = 6.6, M = 6.0 (Up,Ki).

"	10	Up	iP	15 36 26.2
		Ud	iP	15 36 31.8
			i	15 36 43.0

Kurile Islands.
Origin time = 15 25 20.

"	10	Ud	iP	15 37 43.2

"	10	Up	iP	15 41 15.8
		Ud	iP	15 41 21.7
			i	15 41 32.8

Kurile Islands.
Origin time = 15 30 10.

"	10	Up	iP	15 46 50.3
		Ki	iP	15 46 04.4
		Ud	iP	15 46 56.1

Kurile Islands (h = N).

"	10	Ud	iP	15 49 47.0

"	10	Ud	iP	15 52 48.4

"	10	Up	iP	15 57 21.0
		Ud	iP	15 57 24.1

Kurile Islands.
Origin time = 15 46 12.

"	10	Up	iP	16 02 13.5	
				micr	sec
			P Z'	0.4	1.3
			Mx E	3.1	15
			Mx N	2.2	14
			Mx Z	6.6	16
		Ki	iP	16 01 28.1	

(cont.)

1975 June 10 (cont.)

		Ki		micr	sec
			P Z'	0.2	1.5
			Mx E	5.0	19
			Mx N	2.8	14
			Mx Z	4.0	16
		Sk	iP	16 02 04.4	
		Um	iP	16 01 48.8	
		Ud	iP	16 02 19.3	
		De	iP	16 02 37.6	

Kurile Islands (h = 30 km).
m = 6.2, M = 5.8 (Up,Ki).

"	10	Ud	iP	16 06 44.5

"	10	Ud	iP	16 12 35.2
			i	16 12 46.2

"	10	Up	iP	16 13 31.5
		Ki	iP	16 13 09.3
		Ud	iP	16 13 41.4

Philippine Islands
(h = 30 km).

"	10	Ud	eP	16 25 14

"	10	Up	iP	16 25 49.4	
				micr	sec
			P Z'	0.2	1.5
		Ki	iP	16 25 04.4	
				micr	sec
			P Z'	0.1	1.2
		Sk	iP	16 25 40.7	
		Um	iP	16 25 24.8	
		Ud	iP	16 25 55.4	
		De	iP	16 26 14.4	

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

"	10	Ud	iP	16 30 44.5

"	10	Up	iP	16 31 39.7	
			ipP	16 31 50.5	
				micr	sec
			P Z'	0.1	1.1
		Ki	iP	16 30 54.3	C
			ipP	16 31 05.2	
		Sk	iP	16 31 28.8	
		Um	iP	16 31 14.7	
			ipP	16 31 26.0	
		Ud	iP	16 31 45.5	
			ipP	16 31 56.4	
		De	eP	16 32 02	

Kurile Islands.
h = 40 km (Up,Ki,Um,Ud).

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

1975 June	10	Up	iP		16 32 52.6	C
			ipP		16 33 03.6	
					micr sec	
			pP	Z'	0.1 1.0	
		Ki	iP		16 32 07.7	C
			ipP		16 32 19.0	
					micr sec	
			P	Z'	0.1 1.0	
		Um	iP		16 32 28.0	C
			ipP		16 32 39.3	
		Ud	iP		16 32 58.9	C
			ipP		16 33 10.1	
		Kurile Islands.				
		h = 40 km (Up,Ki,Um,Ud).				
		m = 5.9 (Up,Ki).				
"	10	Up	iP		16 34 59.9	C
			ipP		16 35 11.4	
					micr sec	
			P	Z'	0.1 1.0	
		Ki	iP		16 34 14.4	
			ipP		16 34 25.6	
					micr sec	
			P	Z'	0.1 1.0	
		Sk	iP		16 34 49.5	
		Um	iP		16 34 35.1	C
			ipP		16 34 46.8	
		Ud	iP		16 35 06.0	C
			ipP		16 35 17.1	
		De	i		16 35 28.2	
		Kurile Islands.				
		h = 45 km (Up,Ki,Um,Ud).				
		m = 5.9 (Up,Ki).				
"	10	Ki	eP		16 38 28	
		Um	iP		16 38 49.7	
		Ud	iP		16 39 20.2	
		Kurile Islands.				
		Origin time = 16 28 08.				
"	10	Ud	iP		16 41 19.6	
			i		16 41 30.2	
"	10	Ud	iP		17 01 02.3	
"	10	Ud	eP		17 01 30	
"	10	Ud	eP		17 11 36	
"	10	Ud	eP		17 22 15	
			i		17 22 25.3	
"	10	Ud	iP		17 34 00.4	
"	10	Ki	iP		17 35 24.1	
		Um	iP		17 35 43.8	
		(cont.)				

1975 June	10	(cont.)				
		Ud	iP		17 36 14.6	
			i		17 36 24.7	
		Kurile Islands.				
		Origin time = 17 25 02.				
"	10	Ud	iP		17 48 01.6	
"	10	Ud	iP		17 49 37.7	
"	10	Ud	iP		17 54 25.8	
		Kurile Islands (h = N).				
"	10	Up	ipP		18 37 44.6	
		Um	iP		18 37 07.1	
		Ud	iP		18 37 38.3	
			ipP		18 37 50.1	
		Kurile Islands.				
		h = 45 km (Ud).				
"	10	Ud	iP		18 43 22.7	
"	10	Ud	iP		18 51 23.5	
"	10	Ud	iP		18 59 00.9	
"	10	Up	iP		19 08 43.6	C
		Ki	iP		19 07 59.0	
		Sk	iP		19 08 33.8	
		Um	iP		19 08 19.1	
			ipP		19 08 29.5	
		Ud	iP		19 08 49.9	C
			ipP		19 09 00.5	
		Kurile Islands.				
		h = 40 km (Um,Ud).				
"	10	Up	iP		19 17 24.2	C
			i		19 17 31.3	
			ipP		19 17 35.4	
					micr sec	
			P	Z'	0.1 0.9	
		Ki	iP		19 16 39.0	C
					micr sec	
			P	Z'	0.1 1.1	
		Sk	iP		19 17 14.8	C
		Um	iP		19 16 59.6	C
		Ud	iP		19 17 30.4	C
			i		19 17 41.9	
		De	iP		19 17 48.2	
		Kurile Islands.				
		h = 40 km (Up,Ud).				
		m = 5.8 (Up,Ki).				
"	10	Ud	iP		19 19 11.4	
"	10	Um	iP		19 31 46.4	
		(cont.)				

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

1975
June 10 (cont.)
Ud iP 19 32 16.4
Kurile Islands.
Origin time = 19 21 06.

" 10 Up e(P) 19 40 02
i 19 40 10.2

" 10 Ud iP 19 41 36.4

" 10 Um iPKP 19 52 08.6
Santa Cruz Islands
(h = 160 km).

" 10 Ud iP 20 27 00.8
Kurile Islands (h = N).

" 10 Up iP 20 43 38.1
Um iP 20 43 13.2
Ud iP 20 43 44.0
Kurile Islands (h = N).

" 10 Ud iP 20 52 32.5
Kurile Islands (h = N).

" 10 Up iP 20 56 14.4
i 20 56 20.0
Ki iP 20 55 28.7
i 20 55 34.5
Sk eP 20 56 04
Um iP 20 55 49.2
i 20 55 55.1
Ud iP 20 56 20.2
i 20 56 26.3
De eP 20 56 38
Kurile Islands (h = N).
Double P, in average 5.9
sec apart.

" 10 Ud iP 22 23 11.1

" 10 Up iP 22 25 22.2 C

			micr	sec
	P	Z'	0.2	1.5
	Mx	E	1.1	19
	Mx	N	1.0	18
	Mx	Z	1.1	17
Ki	iP		22 24 37.1	
			micr	sec
	Mx	E	1.1	15
	Mx	N	1.1	17
	Mx	Z	1.5	16
Sk	iP		22 25 12.0	
Um	iP		22 24 57.5 C	
	i		22 25 10.4	

(cont.)

1975
June 10 (cont.)
Ud iP 22 25 28.2 C
ipP 22 25 33.9
i 22 25 40.3
Kurile Islands.
h = 20 km (Ud).
M = 5.3 (Up,Ki).

" 10 Ud iP 22 28 37.0
Afghanistan-USSR (h = N).

" 10 Up iP 23 14 10.5
Um eP 22 13 46
Ud iP 23 14 16.6
Kurile Islands (h = 15 km).

" 10 Up iP 23 21 17.4
Ud iP 23 21 23.8
Kurile Islands.
Origin time = 23 10 13.

" 10 Up iP 23 48 46.8 C

			micr	sec
	P	Z'	0.1	0.9
Ki	iP		23 48 01.6	
Sk	iP		23 48 36.5	
Um	iP		23 48 21.4	
Ud	iP		23 48 52.8 C	

Kurile Islands (h = N).

" 11 Ud iP 00 16 49.4

" 11 Um iP 00 28 22.1
Ud iP 00 28 53.3
i 00 29 05.0
Kurile Islands (h = 35 km).

" 11 Um iP 01 00 57.6
Ud iP 01 01 28.7
Kurile Islands-Japan
(h = 30 km).

" 11 Ud iP 01 23 35.3

" 11 Up iP 01 37 19.9
Ki eP 01 36 33
Um iP 01 36 52.2
Ud iP 01 37 23.6
Kurile Islands-Japan
(h = 15 km).

" 11 Up iP 02 09 20.1
Um iP 02 08 53.9
Ud iP 02 09 25.6

" 11 Ud iP 02 24 32.0

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

1975 June	11	Up	iP	02 52 15.9	
		Ud	iP	02 52 22.7	C
			i	02 52 37.0	
		Kurile Islands.			
		Origin time = 02 41 12.			
"	11	Ud	iP	03 16 13.1	
			ipP	03 16 26.8	
		Kurile Islands-Japan.			
		h = 50 km (Ud).			
"	11	Ud	iP	03 57 24.4	
"	11	Ud	iP	04 04 24.9	
"	11	Ud	eP	04 23 19	
"	11	Ud	iP	04 34 20.8	
"	11	Ud	eP	04 44 19	
"	11	Ud	iP	05 27 13.1	
"	11	Up	iP	05 32 21.3	C
				micr sec	
			P Z'	0.1 0.9	
		Ki	iP	05 31 35.9	
		Sk	eP	05 32 12	
		Um	iP	05 31 55.9	
		Ud	iP	05 32 27.6	C
		De	iP	05 32 45.2	
		Kurile Islands (h = N).			
"	11	Up	iP	05 40 15.3	
		Um	iP	05 39 50.6	
		Ud	iP	05 40 21.0	
		Kurile Islands-Japan			
		(h = N).			
"	11	Ud	eP	06 16 36	
"	11	Up	iP	06 43 02.6	
			ipP	06 43 12.8	
		Ki	iP	06 42 18.0	
		Um	iP	06 42 38.4	
			ipP	06 42 48.0	
		Ud	iP	06 43 08.8	
			ipP	06 43 18.6	
		De	eP	06 43 26	
		Kurile Islands.			
		h = 35 km (Up,Um,Ud).			
"	11	Up	i	06 58 44.1	
		Ud	iP	06 58 40.9	
"	11	Up	iP	07 31 03.6	
		(cont.)			
1975 June	11	(cont.)			
		Um	iP	07 30 37.0	
		Ud	iP	07 31 09.3	
			ipP	07 31 19.0	
		Kurile Islands.			
		h = 35 km (Ud).			
"	11	Up	iP	10 16 57.3	
		Ki	iP	10 16 10.9	
		Um	iP	10 16 31.5	
		Ud	iP	10 17 00.1	
			i	10 17 18.2	
		Kurile Islands-Japan			
		(h = N).			
"	11	Up	iP	10 56 12.3	
		Ki	iP	10 57 11.2	
		Ud	iP	10 55 59.9	
			i	10 56 10.1	
		North Atlantic Ocean			
		(h = N).			
"	11	Ud	iP	12 16 17.2	
			ipP	12 16 26.8	
		Kurile Islands.			
		h = 35 km (Ud).			
"	11	Ud	iP	13 10 04.9	
"	11	Up	iSgl	13 25 49.4	
		Sk	iSgl	13 25 48.0	
		Um	iSgl	13 27 13.6	
		Ud	iPgl	13 23 54.9	
			i(S*)	13 24 43.6	
			iSgl	13 24 48.7	
		Southwest Norway,			
		58.4°N, 6.3°E.			
		Origin time = 13 22 42.			
		m = 4.3, M_L = 2.8 (Up,Sk,Um,Ud).			
		By combination with Bergen			
		and Kongsberg readings.			
"	11	Ud	iSgl	14 24 14.7	
		Probably west coast of			
		Norway.			
		By combination with Bergen			
		and Kongsberg readings.			
"	11	Up	iP	14 31 17.5	C
		Ki	iP	14 30 31.8	C
		Sk	e	14 31 25	
		Um	iP	14 30 51.7	
		Ud	iP	14 31 23.5	C
		De	iP	14 31 40.6	
		Kurile Islands (h = 15 km).			
"	11	Ud	iP	15 03 12.8	
		Kurile Islands (h = N).			

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

1975 June	11	Ud	iPKP1	15 10 39.4	
		De	iPKP1	15 10 50.2	
"	11	Up	iP	15 43 41.7	
		Ki	iP	15 42 55.1	
		Um	iP	15 43 16.7	
		Ud	iP	15 43 47.0	
			i	15 44 00.9	
		De	iP	15 44 05.0	
		Kurile Islands (h = 30 km).			
"	11	Ud	iP	16 52 52.1	
"	11	Up	iP	16 53 56.5	
		Ud	iP	16 54 05.9	
		De	i	16 54 05.2	
"	11	Ud	iP	16 56 47.9	
"	11	Up	iP	17 04 00.3	
				micr sec	
			P Z'	0.1 0.9	
		Ki	iP	17 03 15.1	
				micr sec	
			P Z'	0.1 1.2	
		Sk	iP	17 03 50.0	
		Um	iP	17 03 35.6	
		Ud	iP	17 04 06.2 C	
		De	iP	17 04 24.2	
		Kurile Islands (h = 25 km).			
		m = 5.8 (Up,Ki).			
"	11	Up	iP	17 08 35.4	
		Ki	iP	17 07 50.6	
		Sk	eP	17 08 26	
		Um	iP	17 08 10.8	
		Ud	iP	17 08 41.9	
			i	17 08 52.3	
		De	eP	17 08 59	
		Kurile Islands (h = 25 km).			
"	11	Up	iP	17 17 04.9	
		Um	iP	17 16 41.7	
		Ud	iP	17 17 12.1	
			i	17 17 26.3	
		Kurile Islands (h = 25 km).			
"	11	Ud	iP	17 36 39.3	
"	11	Up	iP	17 54 47.1	
		Ki	iP	17 54 01.8	
		Sk	iP	17 54 38.1	
		Um	iP	17 54 17.6 C	
		Ud	iP	17 54 53.4 C	
		De	iP	17 55 10.9	
		Kurile Islands (h = 30 km).			

1975 June	11	Up	iP	18 13 26.1	
		Ki	iP	18 12 40.7	
		Ud	iP	18 13 32.0	
		Kurile Islands (h = N).			
"	11	Ud	iP	18 29 30.3	
		Kurile Islands (h = N).			
"	11	Up	iP	18 42 34.6	
		Ki	iP	18 41 49.1	
		Ud	iP	18 42 40.9	
		Kurile Islands (h = N).			
"	11	Up	iP	18 43 57.4	
			ipP	18 44 02.4	
			iS	18 53 58	
		Ki	iP	18 43 22.9	
				micr sec	
			P Z'	0.5 2.4	
		Sk	iP	18 43 52.5	
		Um	iP	18 43 37.5 C	
			iS	18 53 22	
		Ud	iP	18 44 03.5 C	
			i	18 44 27.2	
		De	eP	18 44 19	
		Japan.			
		h = 20 km (Up).			
"	11	Up	iP	18 51 36.5	
		Ud	iP	18 51 42.9	
		Kurile Islands (h = N).			
"	11	Up	iP	19 18 43.8	
			ipP	19 18 55.4	
		Ki	eP	19 18 27	
			ipP	19 18 39.0	
		Ud	ipP	19 19 04.5	
		Luzon.			
		h = 40 km (Up,Ki).			
"	11	Ud	iP	19 22 44.0	
"	11	Um	iP	20 41 07.3	
		Ud	iP	20 41 38.2	
		Kurile Islands (h = N).			
"	11	Up	iP	21 09 51.8	
		Ud	iP	21 09 57.4	
		Kurile Islands (h = N).			
"	11	Ud	iP	21 16 29.2	
		Greece (h = 20 km).			
"	11	Ud	iP	21 47 56.5	
"	11	Up	iP	23 11 04.5	

(cont.)

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

1975
June 11 (cont.)

	Ki	eP		23 10 20
	Um	iP		23 10 39.6
	Ud	iP		23 11 10.6
		ipP		23 11 22.1

Kurile Islands.
h = 45 km (Ud).

" 11	Ud	iP		23 47 05.0
" 12	Up	iP		00 25 21.2 C
		iPcP		00 25 47.7
			micr	sec
		P	Z' 0.1	0.8
	Ki	iP		00 24 33.1 C
			micr	sec
		P	Z' 0.1	0.6
	Sk	iP		00 25 08.8
	Um	iP		00 24 55.3 C
		iPcP		00 25 31.5
	Ud	iP		00 25 26.3 C
		iPcP		00 25 51.2
	De	iP		00 25 44.8 C
		iPcP		00 25 58.8

Kurile Islands (h = 60 km).
m = 6.0 (Up,Ki).

" 12	Ud	iP		00 53 08.0
" 12	Up	iP		01 18 56.5 C
			micr	sec
		Mx	E 0.8	15
		Mx	N 0.8	15
		Mx	Z 0.8	15
	Ki	iP		01 18 10.9
			micr	sec
		Mx	E 0.9	15
		Mx	N 0.9	15
		Mx	Z 1.1	15
	Sk	iP		01 18 46.4
	Um	iP		01 18 31.5
	Ud	iP		01 19 02.9 C
	De	eP		01 19 20

Kurile Islands (h = 25 km).
M = 5.2 (Up,Ki).

" 12	Ud	iP		01 58 03.0
" 12	Up	iP		02 00 20.0
		ipP		02 00 29.7
	Ki	iP		01 59 35.1
		ipP		01 59 45.2
	Sk	eP		02 00 10
	Um	iP		01 59 54.6
		ipP		02 00 03.6
	Ud	iP		02 00 25.7 C

(cont.)

1975
June 12 (cont.)

	Ud	ipP		02 00 35.7
	De	ipP		02 00 53.1

Kurile Islands.
h = 35 km (Up,Ki,Um,Ud).

" 12	Um	iP		02 01 14.2
		i		02 01 25.5
	Ud	iP		02 01 45.0
		i		02 01 56.1

Kurile Islands (h = 20 km).

" 12	Ud	iP		03 13 15.0

Kurile Islands (h = 35 km).

" 12	Ud	iP		03 43 28.7
" 12	Um	iP		03 44 31.8

Japan (h = 150 km).

" 12	Ud	iP		03 52 00.3
" 12	Ud	iP		03 57 01.8
		ipP		03 57 13.0

Kurile Islands.
h = 40 km (Ud).

" 12	Up	iP1		04 38 35.1
		iP2		04 38 38.7
	Ki	iP1		04 37 50.7
	Um	iP2		04 38 14.0
	Ud	iP1		04 38 41.5
		iP2		04 38 45.0

Kurile Islands (h = N).

" 12	Ki	eP		04 42 20
	Ud	iP		04 43 09.1

Kurile Islands-Japan
(h = N).

" 12	Up	iP		04 45 09.3
			micr	sec
		Mx	E 0.8	14
		Mx	N 0.8	15
		Mx	Z 0.9	13
	Ki	iP		04 44 23.7
			micr	sec
		Mx	E 1.0	19
		Mx	N 1.1	17
		Mx	Z 1.2	16
	Sk	eP		04 45 00
	Um	iP		04 44 44.1 C
	Ud	iP		04 45 15.1 C
		ipP		04 45 23.7
	De	iP		04 45 32.4

Kurile Islands.
h = 30 km (Ud).
M = 5.2 (Up,Ki).

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

1975							
June	12	Ud	iP	04 50 37.4			
"	12	Ud	iP	05 31 01.7			
"	12	Ud	iP	05 33 36.4			
"	12	Ud	iP	05 43 49.9			
"	12	Um	iP	05 44 13.0			
		Ud	iP	05 44 43.0			
		Kurile Islands (h = 15 km).					
"	12	Ud	iP	05 49 49.2			
"	12	Ud	iP	06 24 02.0			
"	12	Ud	iP	06 36 17.2			
"	12	Up	iP	06 46 24.5			
		Ki	iP	06 45 39.2			
		Um	iP	06 45 58.5			
		Ud	iP	06 46 30.9			
		Kurile Islands.					
		Origin time = 06 35 20.					
"	12	Ud	iP	07 09 11.1			
"	12	Ud	iP	07 29 00.5			
"	12	Up	iP	08 25 00.6			
		Ki	iP	08 24 15.3			
		Um	iP	08 24 35.5			
		Ud	iP	08 25 06.5 C			
		De	iP	08 25 24.2			
		Kurile Islands (h = 45 km).					
"	12	Ud	iP	09 01 58.5			
"	12	Ki	iP	13 12 42.0			
		South of Mariana Islands					
		(h = 50 km).					
"	12	Up	iP	13 26 25.2			
		Ki	iP	13 25 40.1 C			
		Um	iP	13 26 00.0			
			ipP	13 26 04.6			
			i	13 26 11.7			
		Ud	iP	13 26 31.3			
			ipP	13 26 35.9			
		De	iP	13 26 49.8			
		Kurile Islands.					
		h = 15 km (Um,Ud).					
"	12	Ud	iP	14 07 01.5			
		Kurile Islands-Japan					
		(h = 55 km).					

1975							
June	12	Ud	iP	14 16 06.0			
		Iran (h = 45 km).					
"	12	Up	iP	14 42 19.1 C			
			ipP	14 42 29.8			
				micr	sec		
			P	Z'	0.2	1.4	
			pP	Z'	0.1	1.0	
		Ki	iP	14 41 34.3 C			
				micr	sec		
			P	Z'	0.1	1.1	
			Mx	E	0.6	14	
			Mx	N	0.8	17	
			Mx	Z	0.8	15	
		Sk	iP	14 42 10.2			
		Um	iP	14 41 54.5 C			
			ipP	14 42 05.8			
		Ud	iP	14 42 25.4 C			
			ipP	14 42 36.6			
		De	iP	14 42 44.9			
		Kurile Islands.					
		h = 40 km (Up,Um,Ud).					
		m = 5.9 (Up,Ki).					
"	12	Up	iP	14 48 17.0			
			ipP	14 48 29.3			
		Ki	iP	14 47 34.1			
		Um	iP	14 47 53.1			
			ipP	14 48 05.2			
		Ud	iP	14 48 24.0			
			ipP	14 48 36.3			
		Kurile Islands-Japan.					
		h = 45 km (Up,Um,Ud).					
"	12	Up	iP	15 09 43.8			
		Ki	iP	15 08 58.0			
		Um	iP	15 09 18.5			
		Ud	iP	15 09 49.4 C			
		De	iP	15 10 07.1			
		Kurile Islands (h = 40 km).					
"	12	Up	iP	15 34 39.5			
			ipP	15 34 49.3			
		Ki	ipP	15 34 03.6			
		Um	iP	15 34 15.6			
			ipP	15 34 25.0			
		Ud	iP	15 34 45.9			
			ipP	15 34 55.9			
		Kurile Islands.					
		h = 35 km (Up,Um,Ud).					
"	12	Up	iP1	19 32 02.9			
		Um	iP2	19 32 50.1			
		Ud	iP1	19 32 05.0			
			iP2	19 32 14.5			
		Sicily (h = 30 km).					

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

1975 June	12	Up	iP		20 25 49.3		
		Ki	iP		20 24 52.8		
			i		20 25 03.6		
		Sk	iP		20 25 28.0		
		Um	iP		20 25 13.3		
		Ud	iP		20 25 43.9		
			i		20 25 55.4		
		Kurile Islands (h = 25 km).					
"	12	Up	eP		20 42 03		
		Um	iP		20 41 37.9		
		Ud	iP		20 42 09.0		
		Kurile Islands-Japan (h = N).					
"	12	Um	iP		20 43 43.1		
		Ud	iP		20 44 14.6		
		Kurile Islands.					
"	12	Up	iP		21 48 10.0		
		Ki	iP		21 47 23.8		
			ipP		21 47 30.7		
		Um	iP		21 47 45.0		
		Ud	iP		21 48 15.6		
		Kurile Islands. h = 20 km (Ki).					
"	12	Up	iP		23 32 10.3 C		
			ipP		23 32 20.6		
			iS		23 41 16		
					micr	sec	
			P	Z'	0.2	1.5	
			pP	Z'	0.6	1.9	
			Mx	E	0.8	15	
			Mx	N	1.1	15	
			Mx	Z	1.4	15	
		Ki	iP		23 31 24.4		
			ipP		23 31 34.9		
					micr	sec	
			pP	Z'	0.1	1.1	
			Mx	E	1.6	15	
			Mx	N	1.5	15	
			Mx	Z	1.7	14	
		Sk	iP		23 31 59.9		
			ipP		23 32 10.8		
		Um	iP		23 31 45.3 C		
			ipP		23 31 56.1		
			iS		23 40 31		
		Ud	iP		23 32 15.9 C		
			ipP		23 32 26.7		
		De	iP		23 32 34.8		
		Kurile Islands. h = 40 km (Up,Ki,Sk,Um,Ud). m = 6.1, M = 5.4 (Up,Ki).					
"	12	Ud	iP		23 45 17.7		
1975 June	13	Ud	eP		01 56 40		
"	13	Up	iP		06 21 23.3 D		
			ipP		06 21 33.4		
			iS		06 32 02		
					micr	sec	
			P	Z'	0.3	1.3	
			Mx	E	4.2	16	
			Mx	N	5.4	17	
			Mx	Z	9.5	17	
		Ki	iP		06 21 04.7 D		
			ipP		06 21 15.9		
			iS		06 31 29		
					micr	sec	
			P	Z'	0.2	1.1	
			Mx	E	2.8	14	
			Mx	N	9.0	19	
			Mx	Z	4.1	15	
		Sk	iP		06 21 27.4		
		Um	iP		06 21 10.6		
			ipP		06 21 20.9		
			iS		06 31 39		
		Ud	iP		06 21 31.8 D		
		De	iP		06 21 41.3		
		Samar. h = 40 km (Up,Ki,Um). m = 6.4, M = 6.2 (Up,Ki).					
"	13	Ki	iP		06 43 13.1		
		Um	iP		06 43 19.3		
		Ud	iP		06 43 39.9		
		Samar (h = N).					
"	13	Um	i		08 36 16.5		
		Ud	iP		08 36 31.2		
		Kurile Islands-Japan (h = N).					
"	13	Ud	iP		10 08 23.2		
		Kurile Islands-Japan (h = 30 km).					
"	13	Up	iP		10 20 32.7		
		Ki	iP		10 21 07.4		
		Sk	eP		10 21 08		
		Um	iP		10 20 44.9		
		Ud	iP		10 20 47.3		
		De	eP		10 20 31		
		Iran (h = 60 km).					
"	13	Up	iP		11 26 30.2		
		Sk	eP		11 26 25		
		Um	iP		11 26 09.9		
		Ud	iP		11 26 38.4		
		Japan (h = 340 km).					

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

1975							
June	13	Up	iP			13 08 10.0	
			ipP			13 08 20.9	
					micr	sec	
			P	Z'	0.1	0.7	
			pP	Z'	0.1	1.0	
		Ki	iP			13 07 24.7	C
			ipP			13 07 35.9	
					micr	sec	
			P	Z'	0.1	1.0	
		Sk	iP			13 07 59.9	
			ipP			13 08 10.8	
		Um	iP			13 07 45.4	
			ipP			13 07 56.2	
		Ud	iP			13 08 16.1	C
			ipP			13 08 26.8	
		De	iP			13 08 33.4	
		Kurile Islands.					
		h = 40 km (Up,Ki,Sk,Um,Ud).					
		m = 5.9 (Up,Ki).					
"	13	Ki	iP			13 21 10.9	
		Um	iP			13 21 31.4	
		Ud	iP			13 22 02.5	
			ipP			13 22 13.6	
		Kurile Islands.					
		h = 40 km (Ud).					
"	13	Ud	iP			16 50 32.3	
		Kurile Islands (h = N).					
"	13	Up	iP			18 01 04.9	
		Ki	iP			18 00 38.7	
		Um	iP			18 00 48.4	
		Ud	iP			18 01 14.0	
"	13	Up	iP			18 19 16.6	C
			i			18 19 18.2	C
			iS			18 28 21.4	
					micr	sec	
			P	Z'	2.3	1.4	
			Mx	E	41	15	
			Mx	N	53	15	
			Mx	Z	81	15	
		Ki	iP			18 18 31.2	
			i			18 18 32.2	C
			iS			18 27 08	
					micr	sec	
			P	Z'	0.9	1.2	
			Mx	E	59	14	
			Mx	N	71	15	
			Mx	Z	102	15	
		Sk	iP			18 19 06.6	
			i			18 19 08.0	C
		Um	iP			18 18 52.1	C
			i			18 18 53.5	
			iS			18 27 29	
		(cont.)					

1975							
June	13	(cont.)					
		Ud	iP			18 19 22.7	C
			i			18 19 23.8	C
		De	eP			18 19 41	
			i			18 19 42.1	C
		Kurile Islands (h = 20 km).					
		m = 6.9, M = 7.0 (Up,Ki).					
"	13	Um	iP			18 21 21.3	
		Ud	iP			18 21 52.2	C
		Kurile Islands.					
		Origin time = 18 10 41.					
"	13	Up	iP			18 22 39.5	
					micr	sec	
			P	Z'	0.2	1.1	
		Ki	iP			18 21 54.0	
					micr	sec	
			P	Z'	0.2	1.2	
		Um	iP			18 22 14.6	
		Ud	iP			18 22 45.3	
		De	iP			18 23 02.6	
		Kurile Islands.					
		m = 6.1 (Up,Ki).					
		Origin time = 18 11 34.					
"	13	Up	iP			18 26 52.8	
		Ki	iP			18 26 06.5	
		Um	iP			18 26 27.3	
		Ud	iP			18 26 57.8	
		De	iP			18 27 15.7	
		Kurile Islands.					
		Origin time = 18 15 47.					
"	13	Up	iP			18 29 52.0	C
		Ki	iP			18 29 06.6	
		Um	iP			18 29 27.8	
		Ud	iP			18 29 57.9	
		Kurile Islands (h = N).					
"	13	Ud	iP			18 33 27.0	
"	13	Up	iP			18 36 21.6	
		Ki	iP			18 35 36.3	
		Um	iP			18 35 56.8	
		Ud	iP			18 36 27.7	C
		Kurile Islands (h = 15 km).					
"	13	Ud	iP			18 37 59.0	
"	13	Ki	iP			18 53 15.4	
		Ud	iP			18 54 06.8	
		Kurile Islands.					
		Origin time = 18 42 56.					
"	13	Ki	iP			19 24 31.3	
		Ud	iP			19 25 22.9	
		Kurile Islands (h = 10 km).					

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

1975
June 13 Ki eP 19 25 47
Um iP 19 26 05.5
Ud iP 19 26 36.8
Kurile Islands.
Origin time = 19 15 26.

" 13 Ud iP 19 29 48.5

" 13 Ki iP 19 29 48.4
Ud iP 19 30 38.7
Kurile Islands.
Origin time = 19 19 28.

" 13 Up i(P) 19 31 25.3

" 13 Up iP 19 51 31.7
i 19 51 43.8

		micr	sec
P	Z'	0.1	0.8
Mx	E	1.0	14
Mx	N	1.3	15
Mx	Z	2.3	17

Ki iP 19 50 45.3

		micr	sec
P	Z'	0.1	1.0
Mx	E	2.2	16
Mx	N	1.8	14
Mx	Z	2.8	16

Sk iP 19 51 21.7
Um iP 19 51 06.6 C
i 19 51 08.8
Ud iP 19 51 36.8 C
ipP 19 51 44.2
i 19 51 48.9
De iP 19 51 55.1
Kurile Islands.
h = 25 km (Ud).
m = 5.9, M = 5.4 (Up,Ki).

" 13 Ki iP 19 56 30.8
Um iP 19 56 52.0
Ud iP 19 57 21.6
Kurile Islands (h = N).

" 13 Up iP 20 03 40.9

		micr	sec
P	Z'	0.1	0.8
Mx	E	0.8	14
Mx	N	0.7	13
Mx	Z	1.2	15

Ki iP 20 02 54.6

		micr	sec
P	Z'	0.1	0.9
Mx	E	0.7	13
Mx	N	0.9	15
Mx	Z	1.3	13

(cont.)

1975
June 13 (cont.)
Sk iP 20 03 30.3
Um iP 20 03 15.1
Ud iP 20 03 46.5 C
ipP 20 03 56.4
De iP 20 04 04.3
Kurile Islands.
h = 35 km (Ud).
m = 5.9, M = 5.2 (Up,Ki).

" 13 Up iP 20 09 15.4
Ki iP 20 08 30.3
Ud iP 20 09 21.7
Kurile Islands (h = N).

" 13 Up iP 20 12 01.7
Ki iP 20 11 16.1
Um iP 20 11 36.8
Ud iP 20 12 07.6
De iP 20 12 26.5
Kurile Islands (h = N).

" 13 Up iP 20 29 29.8
Ki iP 20 28 42.8
Um iP 20 29 05.1
Ud iP 20 29 34.9
Kurile Islands (h = 20 km).

" 13 Up iP 20 32 00.9 C

		micr	sec
P	Z'	0.1	1.0
Mx	E	0.9	16
Mx	N	0.7	14

Ki iP 20 31 14.4

		micr	sec
P	Z'	0.1	1.0
Mx	E	0.9	13
Mx	N	1.0	16
Mx	Z	1.4	17

Sk iP 20 31 50.5
Um iP 20 31 35.9 C
Ud iP 20 32 07.0
De iP 20 32 25.8
Kurile Islands (h = 40 km).
m = 5.9, M = 5.2 (Up,Ki).

" 13 Ud iP 21 20 37.3

" 13 Ud iP 22 41 03.5

" 13 Ud iP 22 46 55.1

" 13 Ud iP 23 03 54.9

" 13 Ki iP 23 23 08.7
Ud iP 23 24 00.2
Kurile Islands (h = N).

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

1975
June 14 Up iP 00 08 47.1
Ki iP 00 08 01.8
Um iP 00 08 22.3
Ud iP 00 08 53.0
Kurile Islands (h = N).

" 14 Up iP 00 10 03.8
Ki iP 00 09 17.7
Um iP 00 09 38.9
Ud iP 00 10 10.1
Kurile Islands.
Origin time = 23 58 59.

" 14 Up iP 00 11 10.3 C
micr sec
P Z' 0.1 0.8
Ki iP 00 10 24.5
micr sec
P Z' 0.1 1.0
Sk iP 00 11 00.7
Um iP 00 10 45.3 C
Ud iP 00 11 16.2 C
De iP 00 11 34.3
Kurile Islands (h = 20 km).
m = 5.9 (Up,Ki).

" 14 Up iP 00 15 20.6
Ki iP 00 14 35.5
Ud iP 00 15 25.8
Kurile Islands (h = N).

" 14 Up i(P) 01 33 35.4

" 14 Ud iP 01 52 53.1
Kurile Islands (h = N).

" 14 Up iP2 01 59 04.2
micr sec
P2 Z' 0.1 1.2
Ki iP1 01 58 10.1
micr sec
Mx E 0.6 13
Mx N 0.7 15
Um iP1 01 58 31.2
Ud iP1 01 59 02.5 C
iP2 01 59 10.1
De iP2 01 59 30.0
Kurile Islands (h = 20 km).

" 14 Up iP 02 07 37.2
Ki iP 02 06 51.3
Um iP 02 07 12.2 C
Ud iP 02 07 42.9 C
Kurile Islands (h = 15 km).

" 14 Up iP 02 25 39.7
(cont.)

1975
June 14 (cont.)
Ki iP 02 24 54.6
Um iP 02 25 17.0
Ud iP 02 25 44.9 C
Kurile Islands-Japan
(h = 10 km).

" 14 Ki eP 02 38 17
micr sec
Mx E 0.9 13
Mx N 0.7 15
Mx Z 0.8 15
Ud iP 02 38 28.7
Gulf of California (h = N).

" 14 Up iP 03 10 24.7
i 03 10 36.4
micr sec
P Z' 0.1 1.0
Mx E 2.2 19
Mx N 2.9 20
Mx Z 3.0 20
Ki iP 03 09 38.6
micr sec
P Z' 0.1 0.9
Mx E 2.5 15
Mx N 2.2 16
Mx Z 3.7 21
Sk iP 03 10 14.4
Um iP 03 09 59.7
Ud iP 03 10 30.7
De iP 03 10 48.3
Kurile Islands (h = 35 km).
m = 5.9, M = 5.6 (Up,Ki).

" 14 Up iP 03 12 27.5 C
micr sec
P Z' 0.1 1.0
Ki iP 03 11 41.3
micr sec
P Z' 0.1 1.0
Um iP 03 12 01.8
Ud iP 03 12 33.7
De eP 03 12 55
Kurile Islands (h = N).
m = 5.9 (Up,Ki).

" 14 Ud iP 03 17 10.8

" 14 Ud iP 03 52 08.1
Kurile Islands (h = N).

" 14 Ud iP 04 01 01.0

" 14 Up iP 04 03 28.8
Ki iP 04 02 44.7
(cont.)

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

1975
June 14 (cont.)

	Um	iP	04 03 02.9	
	Ud	iP	04 03 34.3	

Kurile Islands-Japan
(h = N).

" 14	Ud	iP	04 12 49.7	
" 14	Up	iP	04 18 15.6	
	Ki	iP	04 17 30.0	
	Um	iP	04 17 50.7	C
	Ud	iP	04 18 21.4	C
	De	iP	04 18 39.0	

Kurile Islands (h = 25 km).

" 14	Up	iPKP1	04 32 09.8		
		iPKP2	04 32 13.4		
			micr	sec	
		PKP1	Z' 0.2	1.0	
	Ki	iPKP1	04 31 49.5		
			micr	sec	
		PKP1	Z' 0.1	1.1	
	Sk	iPKP1	04 32 03.4	C	
		i	04 32 12.7		
	Um	iPKP1	04 31 57.8		
	Ud	iPKP1	04 32 11.1	C	
		iPKP2	04 32 16.8		
	De	iPKP1	04 32 20.1	C	
		i	04 32 25.1		

Kermadec Islands (h = 45 km).

" 14	Up	iP	04 46 47.3	C	
		ipP	04 46 51.8		
		i	04 46 58.9		
			micr	sec	
		P	Z' 0.2	0.9	
		Mx	E 1.0	17	
	Ki	iP	04 46 01.6		
		ipP	04 46 07.2		
			micr	sec	
		P	Z' 0.1	1.0	
	Sk	iP	04 46 37.6		
	Um	iP	04 46 22.6	C	
	Ud	iP	04 46 53.3	C	
	De	iP	04 47 10.3		

Kurile Islands.
h = 20 km (Up,Ki).
m = 6.0 (Up,Ki).

" 14	Sk	eP	04 52 32	
	Ud	iP	04 52 47.6	

Kurile Islands (h = N).

" 14	Up	iP	04 54 05.5	
		i	04 54 15.8	
	Ki	iP	04 53 19.4	

(cont.)

1975
June 14 (cont.)

	Um	iP	04 53 40.5	
	Ud	iP	04 54 11.8	
	De	iP	04 54 29.3	

Kurile Islands (h = N).

" 14	Ud	iP	04 57 26.1	
" 14	Ud	iP	05 04 58.0	

Kurile Islands (h = N).

" 14	Up	iP	05 14 06.6		
		i	05 14 14.1		
			micr	sec	
		P	Z' 0.1	1.3	
	Ki	iP	05 13 20.4		
			micr	sec	
		P	Z' 0.1	1.3	
	Sk	iP	05 13 55.1		
	Um	iP	05 13 41.0		
	Ud	iP	05 14 12.0		
	De	iP	05 14 30.1		

Kurile Islands (h = 10 km).
m = 5.7 (Up,Ki).

" 14	Ud	iP	05 25 07.8
" 14	Ud	eP	05 32 25
" 14	Um	iP	05 44 35.4
	Ud	iP	05 45 06.5

Kurile Islands (h = N).

" 14	Up	iP	06 27 49.2
	Ki	iP	06 27 03.2
	Um	iP	06 27 23.9
	Ud	iP	06 27 54.5

Kurile Islands (h = 35 km).

" 14	Ud	iP	06 48 22.6

Kurile Islands (h = N).

" 14	Up	iP	08 02 29.2
	Ki	iP	08 01 44.2
	Um	iP	08 02 04.8
	Ud	iP	08 02 35.2
		i	08 02 45.4

Kurile Islands (h = N).

" 14	Up	iP	08 54 18.6	C	
			micr	sec	
		P	Z' 0.3	1.4	
		Mx	E 1.0	14	
		Mx	N 1.2	14	
		Mx	Z 2.0	15	
	Ki	iP	08 53 33.3	C	
		i	08 53 44.6		

(cont.)

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

1975							
June	14	(cont.)					
		Ki			micr	sec	
			P	Z'	0.1	1.0	
			Mx	E	1.8	15	
			Mx	N	1.8	14	
			Mx	Z	2.5	14	
		Sk	iP		08 54 10.0		
		Um	iP		08 53 54.9		
		Ud	iP		08 54 24.8	C	
			i		08 54 30.4		
		De	iP		08 54 42.9		
		Kurile Islands (h = 10 km).					
		m = 6.1, M = 5.5 (Up,Ki).					
"	14	Up	iP		09 13 21.1	C	
			i		09 13 29.9		
					micr	sec	
			P	Z'	0.1	1.0	
		Ki	iP		09 12 35.2		
					micr	sec	
			P	Z'	0.1	1.0	
		Sk	iP		09 13 10.3		
		Um	iP		09 12 55.7	C	
		Ud	iP		09 13 27.1	C	
		De	iP		09 13 44.1		
		Kurile Islands (h = 15 km).					
		m = 6.0 (Up,Ki).					
"	14	Ud	iP		10 08 41.0		
		Kurile Islands (h = N).					
"	14	Ki	iP		10 52 49.2		
		Um	iP		10 53 09.3		
		Ud	iP		10 53 40.2	C	
		Kurile Islands.					
		Origin time = 10 42 29.					
"	14	Up	iP		10 56 05.9		
					micr	sec	
			P	Z'	0.1	1.0	
		Ki	iP		10 55 20.4		
		Sk	iP		10 55 57.6		
		Um	iP		10 55 40.4		
		Ud	iP		10 56 12.1	C	
		De	iP		10 56 29.6		
		Kurile Islands (h = 30 km).					
"	14	Ud	iP		10 58 04.5		
"	14	Um	iPKP		10 58 57.8		
		Ud	iPKP		10 58 49.7		
			iPKKP		11 09 34.3		
		Chile-Argentina (h = 90 km).					
"	14	Ud	iP		11 01 30.3		
"	14	Ud	iP		13 36 32.8		

1975							
June	14	Ud	iP		14 37 51.1		
"	14	Ud	iP		14 39 31.3		
		Kurile Islands (h = N).					
"	14	Ud	iP		15 43 21.7		
		Aegean Sea (h = N).					
"	14	Up	iP		17 22 19.5	C	
			ipP		17 22 31.8		
					micr	sec	
			P	Z'	0.2	0.9	
			Mx	E	0.9	16	
			Mx	N	0.8	15	
			Mx	Z	1.2	15	
		Ki	iP		17 21 34.2	C	
			ipP		17 21 45.8		
					micr	sec	
			P	Z'	0.2	1.0	
			Mx	E	1.5	16	
			Mx	N	1.2	16	
			Mx	Z	1.9	15	
		Sk	iP		17 22 10.2		
		Um	iP		17 21 55.1		
			ipP		17 21 06.8		
		Ud	iP		17 22 25.6	C	
			ipP		17 22 38.2		
		De	iP		17 22 44.0		
			ipP		17 22 54.9		
		Kurile Islands.					
		h = 45 km (Up,Ki,Um,Ud,De).					
		m = 6.2, M = 5.3 (Up,Ki).					
"	14	Um	iP		17 44 21.9		
		Ud	iP		17 44 52.7		
		Kurile Islands.					
		Origin time = 17 33 42.					
"	14	Up	iP		17 48 17.7		
			i		17 48 27.9		
			iS		17 57 24		
					micr	sec	
			P	Z'	0.1	1.0	
			i	Z'	0.3	1.4	
			Mx	E	1.5	20	
			Mx	N	1.8	15	
			Mx	Z	2.0	15	
		Ki	iP		17 47 31.6		
			i		17 47 46.6		
					micr	sec	
			P	Z'	0.1	1.0	
			i	Z'	0.1	1.1	
			Mx	E	2.9	15	
			Mx	N	2.2	15	
			Mx	Z	2.7	15	
		Sk	iP		17 48 09.1		
		(cont.)					

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

1975
June 14 (cont.)

	Um	iP		17 47 52.7
		ipP		17 48 03.7
	Ud	iP		17 48 22.7
		ipP		17 48 34.1
	De	iP		17 48 42.5

Kurile Islands.
h = 40 km (Um,Ud).
m = 5.9, M = 5.5 (Up,Ki).

" 14

	Um	iP		17 52 20.4
	Ud	iP		17 52 51.3

Kurile Islands (h = N).

" 14

	Um	iP		17 59 04.8

" 14

	Ki	iP		18 40 37.7
			micr	sec
		P	Z' 0.1	1.0
	Ud	iP		18 41 03.2

Mindanao (h = 50 km).

" 14

	Up	iP		18 49 04.6 C
		i		18 49 19.4
		iS		18 58 07
			micr	sec
		P	Z' 0.4	1.0
		Mx	E 9.8	15
		Mx	N 11	16
		Mx	Z 16	15
	Ki	iP		18 48 19.0
			micr	sec
		P	Z' 0.5	1.0
		Mx	E 21	16
		Mx	N 17	15
		Mx	Z 25	15
	Sk	iP		18 48 54.9
		ipP		18 49 05.3
	Um	iP		18 48 39.8
		ipP		18 48 50.6
		iS		18 57 19
	Ud	iP		18 49 10.9 C
		ipP		18 49 20.6
		i		18 49 25.9
	De	iP		18 49 28.6 C

Kurile Islands.
h = 35 km (Sk,Um,Ud).
m = 6.5, M = 6.4 (Up,Ki).

" 14

	Ud	iP		18 55 19.6

" 14

	Up	iP		18 59 35.9
	Um	iP		18 59 24.5
	Ud	iP		18 59 53.5

" 14

	Ud	iP		19 00 38.1

1975
June 14

	Up	iP		19 00 43.9
			micr	sec
		P	Z' 0.1	0.8
		Mx	E 8.4	15
		Mx	N 9.6	14
		Mx	Z 13	14
	Ki	iP		18 59 57.9
			micr	sec
		P	Z' 0.2	0.9
		Mx	E 6.3	13
		Mx	N 5.3	14
		Mx	Z 3.9	12
	Sk	eP		19 00 35
	Um	iP		19 00 18.2
		i		19 00 30.1
	Ud	iP		19 00 49.5 C
		i		19 00 59.1
	De	iP		19 01 07.1

Kurile Islands (h = 40 km).
m = 6.1, M = 6.2 (Up,Ki).

" 14

	Up	iP		19 03 10.2
		i		19 03 23.9
			micr	sec
		P	Z' 0.1	0.8
	Ki	iP		19 02 24.5
			micr	sec
		P	Z' 0.1	1.0
	Um	iP		19 02 46.0
	Ud	iP		19 03 16.0

Kurile Islands.
m = 5.9 (Up,Ki).
Origin time = 18 52 07.

" 14

Up	iP		19 05 43.4
Ki	iP		19 05 01.6 C
Sk	iP		19 05 35.9
Um	iP		19 05 19.8 C
Ud	iP		19 05 50.2 C

Japan (h = 50 km).

" 14

Up	iP		19 12 12.0
Um	iP		19 11 47.1
Ud	iP		19 12 18.1

Kurile Islands (h = N).

" 14

Up	iP		19 17 37.7
Ud	iP		19 17 43.9

Kurile Islands.
Origin time = 19 06 35.

" 14

Up	iP			19 25 07.2 C
			micr	sec
	P	Z'	0.2	1.2
	Mx	E	1.6	17
	Mx	N	1.7	16
	Mx	Z	1.5	16

(cont.)

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

1975
June 14 (cont.)

	Ki	iP		19 24 21.1	C
				micr	sec
		P	Z'	0.2	1.0
		Mx	E	2.4	17
		Mx	N	2.2	14
		Mx	Z	3.0	15
	Sk	iP		19 24 57.7	
	Um	iP		19 24 42.6	
	Ud	iP		19 25 13.3	C
	De	iP		19 25 31.1	

Kurile Islands (h = 25 km).
m = 6.1, M = 6.1 (Up,Ki).

" 14

Up	iP	19 49 48.3	
Um	iP	19 49 23.7	
Ud	iP	19 49 54.1	

Kurile Islands.
Origin time = 19 38 45.

" 14

Ud	iP	20 14 03.5	

" 14

Up	iP	20 31 35.1	
Ki	iP	20 30 49.3	
Um	iP	20 31 10.2	
Ud	iP	20 31 41.3	

Kurile Islands.
Origin time = 20 20 32.

" 14

Up	iP	20 35 04.0	
Ud	iP	20 35 10.1	

Kurile Islands.
Origin time = 20 24 01.

" 14

Up	iP	20 39 35.6	
Ud	iP	20 39 41.8	

Kurile Islands (h = N).

" 14

Up	iP		20 42 39.0		
Ki	iP		20 41 53.0		
			micr	sec	
	P	Z'	0.1	1.0	
Um	iP		20 42 14.4		
Ud	iP		20 42 44.9		
	i		20 43 05.2		

Kurile Islands (h = 25 km).

" 14

Up	iP		20 46 27.6		
	i		20 46 39.4		
			micr	sec	
	P	Z'	0.1	1.0	
Ki	iP		20 45 41.1		
			micr	sec	
	P	Z'	0.2	1.1	
Um	iP		20 46 02.7		C

(cont.)

1975
June 14 (cont.)

Ud	iP		20 46 33.5		C
De	iP		20 46 51.2		

Kurile Islands (h = 15 km).
m = 6.0 (Up,Ki).

" 14

Up	iP		20 58 53.8		
	ipP		20 59 05.7		
	i		20 59 17.8		
			micr	sec	
	pP	Z'	0.1	0.9	
	i	Z'	0.2	1.4	
Ki	iP		20 57 52.6		
Sk	iP		20 58 21.0		
Um	iP		20 58 24.9		
	ipP		20 58 36.7		
Ud	iP		20 58 48.0		
	ipP		20 59 00.5		
De	iP		20 59 17.7		

Beaufort Sea.
h = 45 km (Up,Um,Ud).

" 14

Um	iP	21 11 00.0	
Ud	iP	21 11 30.8	

Kurile Islands (h = N).

" 14

Ki	ePKP	22 05 10	
Ud	ePKP	22 04 50	

South Sandwich Islands
(h = N).

" 14

Up	iP	22 25 06.2	
Ki	iP	22 24 20.7	
Um	iP	22 24 40.8	
Ud	iP	22 25 12.1	C

Kurile Islands (h = 25 km).

" 14

Ud	iP	22 33 09.6	

Kurile Islands (h = N).

" 14

Um	iP	22 44 18.5	
Ud	iP	22 44 49.4	

Kurile Islands (h = N).

" 14

Up	iP		23 48 04.7		
	iS		23 57 37		
			micr	sec	
	P	Z'	2.3	1.4	
	Mx	E	3.9	14	
	Mx	N	4.2	15	
	Mx	Z	5.8	15	
Ki	iP		23 47 25.5		
			micr	sec	
	P	Z'	1.1	1.7	
	Mx	E	7.1	14	
	Mx	N	10	15	
	Mx	Z	25	16	

(cont.)

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

1975 June 14 (cont.)

	Sk	iP	23 47 58.3	D
	Um	iP	23 48 43.0	D
		iS	23 56 56	
	Ud	iP	23 48 11.7	D
	De	iP	23 48 26.8	

Japan (h = 20 km).
m = 6.9, M = 6.1 (Up,Ki).

" 15

Up	iP1		00 30 36.0	
	iP2		00 30 37.8	
	i		00 31 14.4	
	iS		00 39 39.2	
			micr	sec
	P1	Z'	0.1	1.0
	P2	Z'	4.6	2.0
	Mx	E	21	16
	Mx	N	25	16
	Mx	Z	40	18
Ki	iP1		00 29 49.2	
			micr	sec
	P1	Z'	1.1	1.3
	Mx	E	45	18
	Mx	N	36	16
	Mx	Z	47	15
Sk	iP2		00 30 27.3	
Um	iP1		00 30 09.9	C
	iP2		00 30 11.8	
	iS		00 38 46	
Ud	iP1		00 30 41.9	C
	iP2		00 30 44.0	
	iS		00 39 52.6	
De	iP1		00 30 59.5	C
	iP2		00 31 01.6	

Kurile Islands (h = 40 km).
m = 6.3, M = 6.7 (Up,Ki).
Double P, in average
P2 - P1 = 2.0 sec.

" 15

Up	iP		00 33 40.6	
			micr	sec
	P	Z'	0.2	1.0
Ki	iP		00 32 55.2	
			micr	sec
	P	Z'	0.3	1.0
Um	iP		00 33 15.3	
Ud	iP		00 33 46.7	
De	iP		00 34 04.5	

Kurile Islands (h = N).
m = 6.2 (Up,Ki).

" 15

Um	iP		00 34 31.3
Ud	iP		00 35 03.4

Kurile Islands.
Origin time = 00 23 55.

1975 June 15

Up	iP		00 39 34.0
Ki	iP		00 38 48.9
Ud	iP		00 39 40.1

Kurile Islands.
Origin time = 00 28 32.

" 15

Up	iP		00 40 41.3
Ki	iP		00 39 56.0
Um	iP		00 40 16.7
Ud	iP		00 40 47.9

Kurile Islands.
Origin time = 00 29 40.

" 15

Um	iP		00 42 33.9
Ud	iP		00 43 05.9

Kurile Islands.
Origin time = 00 31 58.

" 15

Ki	iP		01 13 50.4
Um	iP		01 14 11.7
Ud	iP		01 14 42.8

Kurile Islands (h = N).

" 15

Ud	iP		01 26 54.0

Kurile Islands (h = N).

" 15

Ki	iPKP		02 10 24.5

South Sandwich Islands
(h = N).

" 15

Up	iP		02 20 21.6	
			micr	sec
	P	Z'	0.8	1.8
	Mx	E	1.4	18
	Mx	N	1.0	19
	Mx	Z	2.0	24
Ki	iP		02 19 35.9	D
			micr	sec
	P	Z'	0.4	1.5
	Mx	E	1.5	18
	Mx	N	2.0	15
	Mx	Z	3.1	17
Sk	iP		02 20 12.0	
Um	iP		02 19 56.3	D
Ud	iP		02 20 27.2	D
De	iP		02 20 43.4	

Japan (h = 10 km).
m = 6.5, M = 5.5 (Up,Ki).

" 15

Up	iP		02 27 10.4
	ipP		02 27 22.6
Ki	iP		02 26 23.9
	ipP		02 26 36.1
Um	iP		02 26 45.7
Ud	iP		02 27 16.7
	ipP		02 27 28.4

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

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

1975
June 15 Up iP 02 52 22.2
Um iP 02 51 58.2
Ud iP 02 52 28.5
Kurile Islands (h = N).

" 15 Um iP 03 40 36.3
Ud iP 03 41 07.1
Kurile Islands.
Origin time = 03 29 59.

" 15 Up micr sec
Mx E 2.5 19
Mx N 3.2 22
Mx Z 4.1 20
Ki iP 04 55 44.1
micr sec
P Z' 0.1 1.0
Mx E 3.3 20
Mx N 3.5 18
Mx Z 3.1 21
Um iP 04 55 52.9
iS 05 06 47
Ud iP 04 56 14.6
West Caroline Islands
(h = 60 km).
M = 5.7 (Up,Ki).

" 15 Up iP 06 13 32.3
Ki iP 06 12 46.5
Um iP 06 13 07.2
Ud iP 06 13 38.8
Kurile Islands (h = 30 km).

" 15 Um iP 06 27 14.2
Ud iP 06 27 44.7
Kurile Islands (h = N).

" 15 Up iPKPl 07 26 05.7 C
Ud iPKPl 07 26 07.0 C
De iPKPl 07 26 18.3

" 15 Up iP 07 26 44.6
i 07 26 51.0
Ki iP 07 25 59.1
micr sec
P Z' 0.1 1.0
Um iP 07 26 20.4
Ud iP 07 26 51.0
De iP 07 27 08.5
Kurile Islands (h = 10 km).

" 15 Up iP 07 53 17.0
Ki iP 07 52 32.3
Um iP 07 52 52.4
Ud iP 07 53 22.7
Kurile Islands (h = 35 km).

1975
June 15 Up iP 08 04 47.5 C
ipP 08 05 09.3
micr sec
P Z' 0.6 0.8
Ki iP 08 03 54.7
ipP 08 04 15.9
Sk iP 08 04 27.0
Um iP 08 04 20.4 C
ipP 08 04 41.0
Ud iP 08 04 48.2 C
De iP 08 04 10.3
Aleutian Islands.
h = 80 km (Up,Ki,Um).

" 15 Up iP 08 58 17.0 C
micr sec
P Z' 0.1 0.8
Ki iP 08 57 31.6 C
micr sec
P Z' 0.1 1.0
Mx E 0.8 17
Mx N 0.7 16
Sk iP 08 58 07.7
Um iP 08 57 52.0
Ud iP 08 58 23.2 C
De iP 08 58 40.9
Kurile Islands (h = 25 km).
m = 5.9 (Up,Ki).

" 15 Ud iP 09 06 49.5

" 15 Ud iP 09 41 25.7
Kurile Islands (h = N).

" 15 Up iP 10 08 14.9
Ki iP 10 07 29.1
Um iP 10 07 49.2
Ud iP 10 08 19.7
De iP 10 08 35.4
Kurile Islands (h = N).

" 15 Up iP 10 57 43.6 C
ipP 10 57 50.3
micr sec
P Z' 0.1 0.9
Ki iP 10 56 58.1 C
ipP 10 57 04.7
Um iP 10 57 18.8
Ud iP 10 57 49.8
ipP 10 57 56.4
De iP 10 58 07.2
Kurile Islands.
h = 25 km (Up,Ki,Ud).

" 15 Ud iP 11 09 13.3
Kurile Islands (h = N).

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

1975 June	15	Ud	iP	12 31 05.5		
"	15	Ud	iP	14 06 10.4		
"	15	Ud	iP	14 07 14.2		
		Hindu Kush (h = 200 km).				
"	15	Ud	iP	15 28 23.4		
"	15	Ud	iP	17 56 42.6		
"	15	Ud	iP	18 12 25.9		
		Peru-Brazil (h = 180 km).				
"	15	Up	iP	18 13 05.9		
		Ki	iP	18 12 23.2	C	
		Sk	e	18 13 04		
		Um	iP	18 12 41.6	C	
		Ud	iP	18 13 12.2		
		De	iP	18 13 27.8		
		Japan (h = 55 km).				
"	15	Ud	iP	19 21 18.1		
"	15	Up	iP	20 35 24.1		
		Ki	iP	20 34 39.0		
			ipP	20 34 52.1		
		Um	iP	20 34 59.7		
			i	20 35 06.5		
			ipP	20 35 11.3		
		Ud	iP	20 35 29.8		
			ipP	20 35 42.5		
		De	epP	20 36 01		
		Japan.				
		h = 45 km (Ki,Um,Ud).				
"	15	Up	iP	20 45 42.5		
		Ki	iP	20 44 58.0		
		Um	iP	20 45 18.1		
		Ud	iP	20 45 49.0		
		Japan (h = 35 km).				
"	15	Ud	iP	21 22 55.7		
"	15	Um	iP	22 49 41.2		
		Ud	iP	22 50 14.8		
		Kurile Islands.				
		Origin time = 22 39 06.				
"	15	Up	iP	23 19 51.5		
			i	23 19 58.0		
			ipP	23 20 03.1		
				micr	sec	
			P	Z' 0.1	0.7	
		Ki	iP	23 19 05.4		
		(cont.)				

1975 June	15	(cont.)				
		Ki		micr	sec	
			P	Z' 0.1	1.0	
		Sk	iP	23 19 41.9		
		Um	iP	23 19 26.8		
		Ud	iP	23 19 57.4		
			i	23 20 03.0		
			ipP	23 20 09.6		
		De	iP	23 20 15.3		
		Kurile Islands.				
		h = 45 km (Up,Ud).				
		m = 5.9 (Up,Ki).				
"	15	Ud	iP	23 32 01.5		
"	15	Up	iP	23 41 51.1	C	
			ipP	23 41 58.0		
			i	23 42 03.1		
				micr	sec	
			P	Z' 0.1	0.8	
		Ki	iP	23 41 04.7		
			ipP	23 41 11.4		
				micr	sec	
			P	Z' 0.1	1.0	
			Mx	N 0.8	17	
			Mx	Z 0.8	15	
		Sk	iP	23 41 40.8		
		Um	iP	23 41 25.7		
			ipP	23 41 32.3		
			i	23 41 38.3		
		Ud	iP	23 41 56.7	C	
			ipP	23 42 03.0		
			i	23 42 09.0		
		De	iP	23 42 14.7		
			i	23 42 27.0		
		Kurile Islands.				
		h = 25 km (Up,Ki,Um,Ud).				
		m = 5.9 (Up,Ki).				
"	15	Ud	iP	23 52 59.1		
"	16	Um	iPKP	00 49 03.5		
		Ud	iPKP	00 49 13.6		
		De	iPKP	00 49 11.4		
		Tonga Islands (h = 160 km).				
"	16	Ud	iP	01 28 42.5		
"	16	Ud	iP	04 24 45.0		
		Kansu, China (h = N).				
"	16	Ki	iP	04 27 22.1		
		Sk	eP	04 27 37		
		Um	iP	04 27 20.7		
		Ud	iP	04 27 34.9		
		Java (h = 90 km).				

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

1975 June	16	Up	i(Pg1)	15 10 48.5	
			iSg1	15 11 11.4	
			iRg	15 11 17.4	
		Ud	iSg1	15 11 21.7	
			i	15 11 23.5	
		De	iSg1	15 11 35.1	
			iRg1	15 11 49.0	
		Östergötland, Sweden.			
		Near-surface event.			
"	16	Up	iP	15 13 18.4	
		Ki	iP	15 14 25.6	
		Sk	iP	15 13 57.1	
		Ud	iP	15 13 26.4	
"	16	Ud	iP	17 18 38.8	
"	16	Ud	iP	17 33 55.4	
"	16	Up	i(P)	21 16 55.9	
		Ud	i(P)	21 16 43.6	
"	16	Up	iP	21 20 05.4	
		Ki	iP	21 19 19.8	
		Um	iP	21 19 38.1	
		Ud	iP	21 20 11.3	
		Kurile Islands (h = 25 km).			
"	16	Ki	iP	22 30 08.5	
		Ud	iP	22 30 59.9	
		Kurile Islands.			
		Origin time = 22 19 49.			
"	16	Um	iP	22 37 41.6	
"	16	Up	iP	22 50 26.2	
			ipP	22 50 33.8	
		Ki	iP	22 49 40.7 C	
		Sk	iP	22 50 15.7	
		Um	iP	22 50 01.3 C	
		Ud	iP	22 50 32.2 C	
			ipP	22 50 39.9	
		De	iP	22 50 49.5	
		Kurile Islands.			
		h = 30 km (Up,Ud).			
"	16	Up	ipPKP	22 54 10.3	
				micr	sec
			Mx E	7.2	26
			Mx N	7.5	23
			Mx Z	17	30
		Ki		micr	sec
			Mx E	7.4	20
			Mx N	7.5	20
			Mx Z	14	28
		Um	iPKP	22 53 57.2	
		(cont.)			

1975 June	16	(cont.)			
		Um	iSKS	23 00 22	
		De	iPKP	22 54 06.2	
		Bismarck Sea (h = N).			
		M = 6.4 (Up,Ki).			
"	16	Ki	iP	23 07 04.2	
		Um	iP	23 07 24.3	
		Ud	iP	23 07 54.9	
		Kurile Islands (h = N).			
"	16	Um	iP	23 57 58.9	
		Ud	iP	23 58 29.6	
		Kurile Islands.			
		Origin time = 23 47 19.			
"	17	Ud	iP	00 19 01.3	
"	17	Um	iP	00 41 18.8	
"	17	Ud	iP	01 11 28.9	
"	17	Ud	iP	01 57 29.2	
"	17	Ud	i(P)	02 45 22.1	
"	17	Up	iP	03 36 01.0	
		Ki	eP	03 35 43	
		Um	iP	03 35 48.9	
		Ud	iP	03 36 09.0	
		Samar (h = N).			
"	17	Ki	iP	05 12 25.0	
		Sk	iP	05 12 05.3	
		Um	iP	05 12 26.5	
			i	05 12 35.4	
		Ud	iP	05 12 09.1	
		Puerto Rico (h = 110 km).			
"	17	Up	iPKP1	09 00 17.5	
		Ud	iPKP1	09 00 19.3	
		De	iPKP1	09 00 30.0	
"	17	Ki	iPKP	09 45 11.8	
			i	09 45 18.4	
		South Sandwich Islands (h = N).			
"	17	Ud	iP	10 38 22.7	
"	17	Ud	i(P)	12 01 33.6	
"	17	Up	i(P)	12 27 19.7	
		Ud	i(P)	12 27 37.8	
"	17	Ud	iP	13 08 30.2	

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

1975 June	17	Ud	iP	13 34 36.3	
			i	13 34 42.2	
"	17	Up	iRg	14 39 55.9	
		Ud	iRg	14 40 38.0	
		South-central Sweden.			
		Near-surface event.			
"	17	Ud	i(P)	14 55 30.2	
"	17	Ud	iP	15 30 06.0	
		Japan (h = 80 km).			
"	17	Ki	eSgl	15 30 30	
		Sk	iSgl	15 30 45.7	
		Um	iSgl	15 28 59.9	
		Possibly Västerbotten, Sweden.			
"	17	Up	iP	16 06 07.2	
		Ki	iP	16 05 26.8 C	
		Sk	iP	16 06 00.4	
		Um	iP	16 05 44.9 C	
			ipP	16 05 56.9	
		Ud	iP	16 06 14.1 C	
			ipP	16 06 26.6	
		De	iP	16 06 29.7	
		Japan.			
		h = 45 km (Um,Ud).			
"	17	Ud	iP	17 24 22.2	
"	17	Ki	iSgl	19 45 23.5	
		Um	iSgl	19 46 59.1	
		Coast of north Norway, 68.6°N, 15.1°E.			
		Origin time = 19 44 19.			
		m = 4.2, M_L = 2.5 (Ki).			
		By combination with Tromsoe reading.			
"	17	Ud	iP	19 58 52.7	
"	17	Ud	iP	20 05 38.6	
"	17	Up	iP	21 40 45.8	
		Ki	iP	21 40 04.1 C	
		Sk	iP	21 40 38.4	
		Um	iP	21 40 12.6 C	
			ipP	21 40 35.6	
		Ud	iP	21 40 52.6	
		De	i	21 41 13.5	
		Japan (h = 55 km).			
"	17	De	iP	22 24 08.6	

1975 June	17	Um	iP	23 40 33.5	
		Ud	iP	23 41 13.3	
		Japan (h = 40 km).			
"	18	Ud	iP	00 29 11.2	
"	18	Sk	eP	02 42 02	
		Um	iP	02 41 36.0	
		Ud	iP	02 41 45.9	
		Iran (h = 15 km).			
"	18	Up	iP	04 23 20.1 C	
			ipP	04 23 50.9	
			iS	04 33 30	
				micr sec	
			P Z'	0.3 0.8	
		Ki	iP	04 23 02.6 C	
				micr sec	
			P Z'	0.1 0.7	
		Sk	iP	04 23 25.2 C	
		Um	iP	04 23 08.5 C	
			ipP	04 23 39.9	
			iS	04 33 08	
		Ud	iP	04 23 29.2 C	
			ipP	04 24 02.1	
		De	iP	04 23 34.7	
		Mindoro.			
		h = 130 km (Up,Um,Ud).			
		m = 5.9 (Up,Ki).			
"	18	Up	iP	05 55 13.2 C	
			iPP	05 57 47.0	
			iS	06 04 20	
				micr sec	
			P Z'	0.1 1.2	
		Ki	iP	05 54 30.6 C	
				micr sec	
			Mx E	2.7 18	
			Mx N	3.2 17	
			Mx Z	2.4 16	
		Sk	iP	05 55 05.4	
		Um	iP	05 54 48.5 C	
			iS	06 03 34	
		Ud	iP	05 55 20.1 C	
		De	iP	05 55 36.1	
		Japan (h = 50 km).			
"	18	Up	iP	08 41 09.8 C	
		Ki	iP	08 40 15.4 C	
		Sk	iP	08 40 42.2 C	
		Um	iP	08 40 43.8 C	
		Ud	iP	08 41 06.1	
		De	iP	08 41 30.0 C	
		Kodiak Island (h = 15 km).			
"	18	Up	iP	09 28 47.6 C	
		(cont.)			

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

1975 June 18 (cont.)

Up			micr	sec
	P	Z'	0.2	0.8
Ki	iP		09 28 12.2	C
			micr	sec
	P	Z'	0.1	0.9
Sk	iP		09 28 43.1	C
Um	iP		09 28 27.4	C
	ipP		09 28 42.4	
Ud	iP		09 28 54.8	C
	ipP		09 29 09.7	
De	iP		09 29 07.5	

Japan.
h = 55 km (Um,Ud).
m = 5.9 (Up,Ki).

" 18	Ud	iP	10 12 13.7	
" 18	Ki	iPKP	12 31 07.1	
	Um	iPKP	12 31 13.3	
	Ud	i(PKP)	12 31 12.3	
		iPKP	12 31 20.1	
	De	iPKPl	12 31 21.7	

Fiji Islands (h = 560 km).

" 18	Up	iP	13 46 09.6	
		ipP	13 46 24.7	
		i	13 46 34.9	
			micr	sec
		i Z'	0.1	1.2
	Ki	iP	13 46 24.6	
		ipP	13 46 37.9	
		i	13 46 50.1	
			micr	sec
		pP Z'	0.1	1.0
		i Z'	0.1	1.0
	Sk	eP	13 46 00	
		i	13 46 24.5	
	Um	iP	13 45 44.6	
		ipP	13 45 57.4	
		i	13 46 10.2	
	Ud	iP	13 46 15.7	
		ipP	13 46 28.0	
		i	13 46 41.3	
	De	epP	13 46 44	

Japan.
h = 50 km (Up,Ki,Um,Ud).
m = 5.7 (Up,Ki).

" 18	Up	iSgl	11 39 10.4	
	Ud	iSgl	11 38 40.4	
		i	11 38 44.3	
		iRg	11 38 51.4	
	De	iSgl	11 38 59.9	

(cont.)

1975 June 18 (cont.)

Västergötland, Sweden,
58.5°N, 13.5°E.
Origin time = 11 37 56.
m = 4.0, M_L = 2.1 (Up,Ud).
Probably explosion.

" 18	Up	iSgl	13 57 58.8	
	Sk	iSgl	13 57 52.1	
	Ud	iPgl	13 56 32.9	
		iSgl	13 56 56.6	
	De	iSn	13 57 53.5	

Southeast Norway,
60.1°N, 10.0°E.
Origin time = 13 56 01.
m = 4.0, M_L = 2.2(Up,Ud).
Checked with Kongsberg reading.

" 18	Up	iP	14 13 37.5	
	Ki	iP	14 14 23.1	
	Um	iP	14 14 03.4	
	Ud	iP	14 13 23.7	
	De	eP	14 13 04	

North Atlantic Ocean
(h = 40 km).

" 18	Ud	i(P)	14 22 43.7
" 18	Sk	eSgl	16 13 05
	Ud	i	16 12 44.1
		iSgl	16 12 57.1
		i	16 13 29.0

Possibly west coast of Norway.
Cf with Kongsberg reading.

" 18	Up	iPKP	16 51 12.7	
		iSKPl	16 54 16.3	
			micr	sec
		PKP Z'	0.4	1.5
	Ki	iPKP	16 50 58.7	
		iPKKP	17 00 58.7	
			micr	sec
		PKP Z'	0.2	1.0
	Sk	iPKP	16 51 10.5	
	Um	iPKP	16 51 05.7	
		iSKPl	16 53 00.6	
	Ud	iPKP	16 51 14.5	
		iSKPl	16 54 20.3	
	De	i(PKP)	16 51 08.0	
		iPKP	16 51 20.8	
		iSKPl	16 54 31.4	

New Hebrides Islands
(h = 200 km).

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

1975 June	18	Up	iP	17 44 35.2			
		Ud	iP	17 44 44.4			
		Luzon (h = 80 km).					
"	18	Um	ipP	18 46 43.6			
		De	iP	18 45 54.7			
			ipP	18 46 37.8			
		Nicaragua.					
		h = 180 km (De).					
"	18	Ud	iP	19 05 27.4			
"	18	Ki	iP	19 25 13.3			
		Sk	iP	19 25 40.3			
		De	iP	19 26 28.9			
		Kodiak Island (h = 30 km).					
"	18	De	iP	23 26 51.3			
"	18	Ki	eSgl	23 47 26			
		Sk	eSgl	23 47 47			
		Um	iPgl	23 46 10.0			
			iSgl	23 46 23.8			
			iRg	23 46 28.6			
		Västerbotten, Sweden,					
		64.8°N, 20.3°E.					
		Origin time = 23 45 51.					
		Near-surface event.					
"	19	Ud	iP	01 46 38.6			
"	19	Ud	iP	02 24 43.5			
"	19	Ud	iP	03 00 05.6			
"	19	Up	iP	03 52 34.9			
		Ki	eP	03 51 49			
		Um	iP	03 52 10.4			
		Ud	iP	03 52 41.4 D			
		Kurile Islands (h = 40 km).					
"	19	Up	iP	05 19 52.8			
		Ki	iP	05 19 07.7			
		Um	iP	05 19 29.1			
		Ud	iP	05 19 58.9			
		Kurile Islands (h = 45 km).					
"	19	Up	iP	08 38 12.7			
		Ki	iP	08 37 27.5			
		Sk	eP	08 38 05			
		Ud	iP	08 38 18.2			
		Kurile Islands (h = 35 km).					
"	19	Up	iP	09 03 18.6 C			
			i	09 03 42.5			
		(cont.)					

1975 June	19	(cont.)					
		Ki	iP	09 02 32.9			
		Sk	iP	09 03 09.4			
		Um	iP	09 02 54.6			
		Ud	iP	09 03 24.8 C			
		Kurile Islands (h = 35 km).					
"	19	De	iPKPl	09 10 10.7			
		Tonga Islands (h = N).					
"	19	Up	iP	10 15 26.0			
			ipP	10 15 28.8			
					micr	sec	
			pP	Z'	0.2	0.8	
			Mx	N	1.4	10	
			Mx	Z	2.0	11	
		Ki	iP	10 16 49.0			
			ipP	10 16 52.8			
					micr	sec	
			pP	Z'	0.1	1.1	
			Mx	E	1.0	9	
			Mx	N	1.6	9	
			Mx	Z	1.4	9	
		Sk	iP	10 16 08.2			
			ipP	10 16 12.2			
		Um	iP	10 16 11.5			
			ipP	10 16 15.6			
			iS	10 20 13			
		Ud	iP	10 15 29.5			
			ipP	10 15 32.6			
		De	iP	10 14 44.4			
		Italy.					
		h = 15 km (Up,Ki,Sk,Um,Ud).					
		m = 5.4 (Up,Ki).					
"	19	Um	iP	10 34 07.5			
		Ud	eP	10 33 42			
"	19	Ud	iP	12 48 47.5			
"	19	Up	iP	13 11 47.7 C			
			i	13 12 05.6			
			i	13 12 11.2			
					micr	sec	
			P	Z'	0.2	0.8	
		Ki	iP	13 11 13.3			
			i	13 11 30.1			
					micr	sec	
			P	Z'	0.2	0.9	
			Mx	E	0.7	16	
			Mx	N	0.7	16	
			Mx	Z	1.1	15	
		Sk	iP	13 11 21.4 C			
		Um	iP	13 11 33.1 C			
			i	13 11 50.9			
		(cont.)					

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

1975 June	19	(cont.)				
		Ud	iP	13 11 40.1	C	
			i	13 12 03.1		
		De	iP	13 11 56.4	C	
		Nevada.				
		m = 6.3 (Up,Ki).				
		Underground explosion.				
"	19	Ki	eP	15 23 38		
		Volcano Islands (h = N).				
"	19	Sk	iPKPl	15 51 51.8		
		Um	iPKPl	15 51 46.8		
		Ud	iPKPl	15 52 00.4		
		De	iPKPl	15 52 07.9		
"	19	Up	iP	16 25 16.5		
			ipP	16 25 35.1		
		Ki	iP	16 25 08.4		
			ipP	16 25 26.6		
		Sk	iP	16 24 59.6		
			ipP	16 25 17.8		
		Um	iP	16 25 16.1		
			ipP	16 25 33.9		
		Ud	iP	16 25 06.6		
		De	iP	16 25 13.2		
			ipP	16 25 31.6		
		El Salvador.				
		h = 70 km (Up,Ki,Sk,Um,De).				
"	19	Up	iP	17 48 36.5		
		Ud	iP	17 48 42.8		
"	19	Up	iP	22 45 36.6		
		Ud	iP	22 45 42.5		
"	19	Ud	iP	20 46 22.3		
		Crete (h = 50 km).				
"	20	Ud	iPKPl	00 38 28.8		
		De	iPKPl	00 38 39.8		
		Fiji Islands (h = 310 km).				
"	20	Ud	iP	03 48 42.1		
"	20	Ki	iP	07 47 05.0		
		Ud	iP	07 47 39.0		
		South of Mariana Islands				
		(h = 35 km).				
"	20	Up	iPKPl	08 01 28.0		
		Ud	iPKPl	08 01 30.0		
		De	iPKPl	08 01 40.8		
		Tonga-Kermadec Islands				
		(h = 500 km).				

1975 June	20	Up	iP	08 54 48.2		
			iS	08 58 18.4		
			iLg2	09 00 31.7		
		Ki	iP	08 53 01.3		
			iS	08 54 48.1		
			iLg1	08 55 28.7		
				micr		sec
			Lg1	Z'	0.3	1.0
			Mx	E	1.6	8
			Mx	N	0.7	10
			Mx	Z	0.7	9
		Sk	iP	08 54 03.7		
			iLg2	08 58 47.1		
		Um	iP	08 53 56.1		
			iS	08 56 39.2		
		Ud	iP	08 54 45.1		
		De	iP	08 55 25.1		
			i	08 55 27.7		
			iLg2	09 02 06.3		
		Svalbard (h = 5 km).				
"	20	Up	iP1	09 24 31.5		
			iP2	09 24 34.3		
		Ki	iP1	09 25 07.1		
			iP2	09 25 09.7		
		Sk	iP2	09 24 09.0		
		Um	iP2	09 24 46.5		
		Ud	iP1	09 24 46.7		
			iP2	09 24 49.1		
		De	iP1	09 24 30.7		
		Iran (h = 70 km).				
		In average, P2 - P1 = 2.6 sec.				
"	20	Up	iSg1	10 29 05.7		
		Sk	eSg1	10 28 15		
		Ud	iSg1	10 28 02.5		
		De	eSg1	10 29 09		
		West coast of Norway,				
		near Bergen.				
		By combination with Bergen				
		and Kongsberg readings.				
"	20	Up	iP	13 16 27.2		
			i	13 16 42.1		
		Ki	iP	13 15 42.4		
		Um	iP	13 16 03.0		
		Ud	iP	13 16 33.5		
			i	13 16 46.9		
		Japan (h = N).				
"	20	Up	iP	13 58 48.8		
			iLg2	14 07 08.1		
				micr		sec
			Lg2	Z'	0.2	1.5
		Ki	iP	13 59 24.5		
		(cont.)				

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

1975 June	20	(cont.)				
		Ki	iSn		14 05 29.4	
					micr	sec
			Mx	E	0.5	9
			Mx	N	0.4	9
			Mx	Z	0.6	10
		Sk	eP		13 59 26	
		Um	iP		13 58 58.8	
			iSn		14 04 24.5	
			iLg2		14 07 38.7	
		Ud	iP		13 59 06.3	
		De	iP		13 58 53.2	
		Caspian Sea (h = 35 km).				
"	20	Up	iP		14 18 37.4	
			ipP		14 18 55.3	
		Ki	iP		14 19 06.1	
		Sk	ipP		14 19 29.5	
		Ud	iP		14 18 52.1	
			ipP		14 19 10.5	
		De	iP		14 18 39.8	
			ipP		14 18 56.7	
		Iran.				
		h = 70 km (Up,Ud,De).				
"	20	Up	iSg1		15 57 50.7	
"	20	Um	iP		15 59 20.4	
		Ud	iP		15 59 03.6	
"	20	Up	iPKP1		16 44 58.4	
					micr	sec
			PKP1	Z'	0.1	0.8
		Um	iPKP1		16 44 47.1	
		Ud	iPKP1		16 45 00.6	D
		De	iPKP1		16 45 10.7	D
		Tonga-Kermadec Islands				
		(h = 600 km).				
"	20	Ud	iP		20 35 21.8	
			i		20 35 38.3	
"	20	Up	iP		21 29 01.5	
		Ud	iP		21 28 49.6	
		North Atlantic Ocean				
		(h = N).				
"	21	Ud	iP		00 56 57.0	
		Sumatra (h = N).				
"	21	Ud	iP		04 18 49.3	
		Turkey (h = 90 km).				
"	21	Up	iP		10 00 45.6	
		Ud	iP		10 00 50.6	
1975 June	21	Ud	iP		11 10 44.1	
"	21	Ud	iP		12 30 17.0	
		Kirgiz SSR (h = 55 km).				
"	21	Up	iPKP		14 20 07.4	
		Ud	ePKP		14 20 10	
		De	iPKP		14 20 15.9	
		Solomon Islands (h = 400 km).				
"	21	Up	iP		16 07 08.0	
		Ud	iP		16 07 07.4	
			i		16 07 13.7	
"	21	Up	iP		16 25 05.7	
		Ki	eP		16 26 19	
		Ud	iP		16 25 05.6	
		Turkey (h = N).				
"	21	Ud	iPKP1		17 56 18.3	
		De	iPKP1		17 56 28.6	
		Fiji Islands (h = 490 km).				
"	21	Um	iP		21 05 13.3	
		Ud	iP		21 05 44.2	
		Kurile Islands.				
		Origin time = 20 54 34.				
"	21	Up	iP		21 10 14.8	
		Ud	iP		21 10 20.0	
		Kurile Islands.				
		Origin time = 20 59 10.				
"	21	Ki	iP		23 14 00.5	
		Um	iP		23 14 08.0	
		Ud	eP		23 14 36	
			i		23 15 21.8	
"	22	Ud	iP		00 17 54.5	
"	22	Ud	iPKP		00 37 02.2	
		Chile (h = N).				
"	22	Up	iP		02 01 44.6	
		Ki	iP		02 00 58.8	
		Um	iP		02 01 19.2	
		Ud	iP		02 01 50.2	C
		Kurile Islands (h = 40 km).				
"	22	Um	iP		02 02 53.4	
		Ud	iP		02 03 24.8	
		Kurile Islands.				
		Origin time = 01 52 15.				
"	22	Up	iP		02 36 02.5	
		(cont.)				

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

1975								
June	22	(cont.)						
		Up	i		02 36 03.5			
			i		02 36 20.5			
			iPP		02 39 04.6			
			iS		02 46 00			
					micr	sec		
			P	Z'	0.4	1.0		
			Mx	E	4.5	15		
			Mx	N	8.7	17		
			Mx	Z	5.9	17		
		Ki	iP		02 35 27.2			
			i		02 35 28.4			
			iPP		02 38 09.5			
					micr	sec		
			P	Z'	0.3	1.0		
			Mx	E	12	16		
			Mx	N	14	16		
			Mx	Z	5.8	16		
		Sk	iP		02 35 58.1			
			i		02 35 59.0			
			i		02 38 41.3			
			iPP		02 38 57.3			
		Um	iP		02 35 43.3			
			i		02 35 43.8			
			iPP		02 38 32.2			
			iS		02 45 26			
		Ud	iP		02 36 09.2			
			i		02 36 10.2			
			iPP		02 39 13.7			
		De	iP		02 36 22.5			
			i		02 36 23.4			
			iPP		02 39 38.9			
		Japan (h = N).						
		m = 6.3, M = 6.4 (Up,Ki).						
"	22	Ud	iP		04 31 42.1			
"	22	Ud	iP		04 32 01.8			
"	22	Up	iP		04 35 34.6	C		
			i		04 35 40.9			
					micr	sec		
			P	Z'	0.1	0.5		
		Ki	iP		04 34 42.3	C		
					micr	sec		
			P	Z'	0.2	1.3		
		Sk	iP		04 35 18.7	C		
		Um	iP		04 35 06.8	C		
			ipP		04 35 42.6			
		Ud	iP		04 35 38.9	C		
		De	iP		04 35 59.2	C		
			iPP		04 38 29.6			
		Kamchatka.						
		h = 150 km (Um).						
		m = 5.8 (Up,Ki).						
"	22	Ud	iP		04 44 27.3			
1975								
June	22	Ki	ipP		04 47 07.6			
		Sk	iP		04 47 26.6			
		Um	iP		04 47 11.7			
		Ud	iP		04 47 38.1			
		Japan (h = N).						
"	22	Up	iPl		04 53 20.0			
		Ki	iPl		04 52 46.2			
		Sk	ePl		04 53 17			
		Um	iP2		04 53 04.5			
		Ud	iPl		04 53 28.3			
			iP2		04 53 31.4			
		Japan (h = N).						
"	22	Um	iP		05 02 40.8			
		Ud	iP		05 03 03.1			
"	22	Up	iP		05 50 32.9			
		Sk	ipP		05 50 40.3			
		Um	iP		05 50 16.0			
		Ud	iP		05 50 42.8			
			ipP		05 50 51.6			
		Japan.						
		h = 30 km (Ud).						
"	22	Up	iP		06 23 14.7			
"	22	Ud	iP		07 02 56.4			
"	22	Ki	iP		07 34 14.1			
		Sk	iP		07 34 45.1			
		Um	iP		07 34 28.9			
		Ud	iP		07 34 56.0			
		Japan (h = 25 km).						
"	22	Ud	iP		09 17 26.8			
"	22	Ki	iPKP		12 01 17.5			
		Ud	iPKP		12 01 37.6			
		Fiji Islands (h = 420 km).						
"	22	Ud	iP		16 40 51.7			
"	22	Up	iP		22 55 15.3			
			i		22 55 16.4			
			iS		23 04 20			
					micr	sec		
			P	Z'	0.8	1.2		
			Mx	E	7.2	16		
			Mx	N	15	17		
			Mx	Z	20	16		
		Ki	iP		22 54 31.3			
			i		22 54 32.7			
			iS		23 03 00			
					micr	sec		
			P	Z'	0.5	1.3		

(cont.)

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

1975						
June	22	(cont.)				
		Ki			micr	sec
			Mx	E	23	16
			Mx	N	27	16
			Mx	Z	35	16
		Sk	iP		22 55	06.5
			i		22 55	07.9
		Um	iP		22 54	50.1
			i		22 54	51.6
			iS		23 03	40
		Ud	iP		22 55	21.2
			i		22 55	22.4
		De	iP		22 55	39.2
			i		22 55	40.3
		Kurile Islands (h = 20 km).				
		m = 6.6, M = 6.5 (Up,Ki).				
		Double P, in average 1.2				
		sec apart.				
"	22	Ud	iP		23 08	03.1
"	22	Up	iP		23 11	58.4
			ipP		23 12	08.9
					micr	sec
			P	Z'	0.3	1.3
			Mx	E	3.7	14
			Mx	N	7.2	18
			Mx	Z	6.5	14
		Ki	iP		23 11	13.1
			ipP		23 11	23.3
					micr	sec
			P	Z'	0.2	1.0
			Mx	E	7.6	15
			Mx	N	6.5	15
			Mx	Z	9.0	15
		Sk	iP		23 11	50.0
		Um	iP		23 11	33.6
			ipP		23 11	43.1
		Ud	iP		23 12	04.1
			ipP		23 12	14.8
		De	iP		23 12	22.6
			ipP		23 12	33.6
		Kurile Islands.				
		h = 40 km (Up,Ki,Um,Ud,De).				
		m = 6.2, M = 6.1 (Up,Ki).				
"	22	Um	iP		23 17	04.9
		Ud	iP		23 17	36.4
			iP		23 18	13.7
		Kurile Islands.				
		Origin time = 23 06 25.				
"	22	Ud	iP		23 26	55.5
"	22	Ud	eP		23 28	42
			i		23 28	59.0

1975						
June	22	Up	iP		23 47	00.0
		Ud	iP		23 47	07.3
		Kurile Islands.				
		Origin time = 23 35 56.				
"	22	Up	iP		23 48	19.9
			ipP		23 48	29.4
					micr	sec
			pP	Z'	0.1	1.0
		Ki	iP		23 47	33.9
			ipP		23 47	44.2
					micr	sec
			pP	Z'	0.1	1.0
		Sk	iP		23 48	10.0
			ipP		23 48	19.3
		Um	iP		23 47	54.1
			ipP		23 48	04.7
		Ud	iP		23 48	25.2
			ipP		23 48	35.4
		De	ipP		23 48	43.5
		Kurile Islands.				
		h = 35 km (Up,Ki,Sk,Um,Ud).				
		m = 5.9 (Up,Ki).				
"	22	Ki	iP		23 54	07.7
		Um	iP		23 54	28.1
		Ud	iP		23 54	57.6
			i		23 55	09.9
		De	eP		23 55	16
		Japan (h = 60 km).				
"	23	Ud	iPKPl		00 21	04.4
		De	iPKPl		00 21	15.3
		Tonga-Kermadec Islands				
		(h = 370 km).				
"	23	Up	iP		00 29	33.7
			i		00 29	42.8
		Ud	iP		00 29	42.7
			i		00 29	50.8
		Mid-Indian Rise (h = N).				
"	23	Up	iP		01 33	49.1
		Ki	iP		01 33	03.3
		Sk	iP		01 33	39.3
		Um	iP		01 33	24.5
		Ud	iP		01 33	55.2
			ipP		01 34	06.7
		De	iP		01 34	12.9
		Japan.				
		h = 45 km (Ud).				
"	23	Up	iP		01 39	03.3
			ipP		01 39	14.3
		Ki	iP		01 38	18.8
		(cont.)				

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

1975 June	23	(cont.)				
		Ki	ipP		01 38 29.3	
		Sk	ipP		01 39 04.8	
		Um	iP		01 38 39.8	
			ipP		01 38 49.7	
		Ud	iP		01 39 09.6	
			ipP		01 39 20.3	
		De	iP		01 39 28.0	
			ipP		01 39 38.7	
		Japan.				
		h = 40 km (Up,Ki,Um,Ud,De).				
"	23	Ki	iP		01 53 42.9	
		Um	iP		01 54 08.0	
		Ud	iP		01 54 39.9	
		Kamchatka (h = 40 km).				
"	23	Um	iP		02 38 12.1	
		Ud	iP		02 38 56.2	
		Kurile Islands.				
		Origin time = 02 27 45.				
"	23	Ud	iP		05 46 30.0	
"	23	Ud	iP		05 53 24.3	
			i		05 53 35.5	
"	23	Ki	iP		07 19 32.4	
		Ud	iP		07 20 23.4	
		Kurile Islands.				
		Origin time = 07 09 12.				
"	23	Ud	iP		08 55 34.4	
"	23	Up	iP		09 24 47.0	C
			ipP		09 24 57.6	
			iS		09 33 50	
					micr	sec
			P	Z'	1.1	2.0
			Mx	E	1.5	13
			Mx	N	2.6	15
			Mx	Z	5.4	15
		Ki	iP		09 24 02.0	C
			ipP		09 24 13.9	
					micr	sec
			P	Z'	0.1	1.0
			Mx	E	4.7	16
			Mx	N	5.8	16
			Mx	Z	7.3	16
		Sk	iP		09 24 37.6	C
		Um	iP		09 24 22.1	C
			ipP		09 24 33.0	
			iS		09 33 08	
		Ud	iP		09 24 53.2	C
			i		09 25 03.8	
		De	iP		09 25 11.6	
		(cont.)				

1975 June	23	(cont.)				
		Kurile Islands.				
		h = 40 km (Up,Ki,Um,Ud).				
		m = 6.2, M = 5.8 (Up,Ki).				
"	23	Up	iP		09 28 52.0	
		Ud	iP		09 28 57.0	
		Kurile Islands.				
		Origin time = 09 17 46.				
"	23	Up	iPKP		09 44 19.6	
		Ki	iPKP		09 44 03.4	
		Um	iPKP		09 44 10.7	
		Ud	i(PKP)		09 44 10.2	
			iPKP		09 44 21.3	
		De	i(PKP)		09 44 18.3	
		Fiji Islands (h = 560 km).				
"	23	Ud	i		09 56 11.1	
		Mindoro (h = 55 km).				
"	23	Up	iP		10 39 30.3	
		Ki	iP		10 39 22.8	
		Sk	iP		10 39 46.2	
		Um	iP		10 39 22.2	
		Ud	iP		10 39 43.8	
"	23	Up	iP		10 45 58.9	
		Sk	iP		10 46 39.5	
		Ud	iP		10 46 02.6	
		Greece (h = N).				
"	23	Ud	iP		11 57 00.6	
"	23	Up	iP		12 07 31.9	
			ipP		12 07 42.8	
					micr	sec
			P	Z'	0.1	1.2
			pP	Z'	0.1	1.3
		Ki	iP		12 06 46.8	
					micr	sec
			Mx	N	0.7	16
			Mx	Z	1.0	17
		Sk	iP		12 07 21.7	
		Um	iP		12 07 07.5	
			ipP		12 07 18.6	
		Ud	iP		12 07 37.9	
			ipP		12 07 48.9	
		De	iP		12 07 55.7	
		Kurile Islands.				
		h = 40 km (Up,Um,Ud).				
"	23	Ud	iP		12 22 11.3	
		Kurile Islands (h = 50 km).				
"	23	Ud	iP		12 32 50.6	
		Kurile Islands (h = 70 km).				

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

1975						
June	23	Ud	iP	12 36 02.8		
"	23	Ud	iP	12 49 58.0		
"	23	Up	iP	12 56 29.4		
			ipP	12 56 40.9		
		Ki	iP	12 55 44.5		
			ipP	12 55 56.3		
		Sk	iP	12 56 20.8		
		Um	iP	12 56 04.9		
			ipP	12 56 16.5		
		Ud	iP	12 56 35.8	C	
			ipP	12 56 47.1		
		De	iP	12 56 53.0		
		Kurile Islands.				
		h = 45 km (Up,Ki,Um,Ud).				
"	23	Up	iPn	13 20 00.6		
			iP	13 20 07.0		
			i	13 21 39.9		
			iS	13 22 03.8		
			iLg2	13 22 59.0		
		Ki	iP	13 21 40.5		
			i	13 21 43.8		
			i	13 21 55.4		
			i	13 25 12.8		
			i	13 26 22.6		
			iLg2	13 27 04.6		
				micr	sec	
			P	Z'	0.5	1.5
			Lg2	Z'	1.1	2.0
			Mx	E	1.2	8
			Mx	N	1.8	8
			Mx	Z	1.7	7
		Sk	iPn	13 20 36.4		
			iSn	13 22 54.9		
		Um	iPn	13 20 44.2		
			iP	13 20 55.4		
			i	13 23 00.4		
			iSn	13 23 21.2		
			iS	13 23 40.2		
			i	13 24 27.4		
			iLg2	13 25 14.2		
		Ud	iPn	13 19 52.1		
			iP	13 19 58.1		
			i	13 21 26.0		
			iSn	13 21 38.4		
			i	13 22 00.1		
			iLg2	13 23 41.1		
		De	iPn	13 19 04.3		
			iP	13 19 12.5		
			iSn	13 20 19.4		
			iSg2	13 20 57.8		
		Germany (h = N).				
"	23	Ud	iP	13 37 48.2		

1975				
June	23	Ud	iP	14 43 41.6
		Japan (h = 80 km).		
"	23	Ud	iP	15 14 34.9
"	23	Ud	iP	16 00 51.1
		Mindanao (h = 70 km).		
"	23	Ud	iP	21 58 29.5
		De	i	21 58 33.0
		Afghanistan-USSR (h = 160 km)		
"	23	Up	iP	22 29 07.6
		Ki	iP	22 28 23.0
		Ud	iP	22 29 13.7
			ipP	22 29 25.5
		De	iP	22 29 31.5
		Kurile Islands.		
		h = 45 km (Ud).		
"	24	Ud	iP	02 28 25.5
"	24	Up	iP	03 49 42.0
		Ud	iP	03 49 53.6
		Greece (h = 90 km).		
"	24	Ud	iP	08 53 07.1
"	24	Ud	iP	11 50 49.1
"	24	Up	iP	11 51 37.0
		Ud	iP	11 51 43.2
		Japan (h = N).		
"	24	Ud	iP	12 32 42.5
"	24	Up	iPKP1	12 35 11.8
			iPKP2	12 35 15.7
		Sk	iPKP1	12 35 05.3
		Um	iPKP1	12 34 59.6
		Ud	iPKP1	12 35 13.3
			iPKP2	12 35 18.8
		De	iPKP2	12 35 26.8
		Kermadec Islands (h = 10 km).		
"	24	Up	iP	15 48 06.8
			ipP	15 48 14.8
		Ki	iP	15 48 04.1
		Sk	iP	15 48 25.1
		Um	iP	15 48 00.5
			ipP	15 48 08.6
		Ud	iP	15 48 21.3
			ipP	15 48 30.0
		De	iP	15 48 21.5
		Nepal.		
		h = 30 km (Up,Um,Ud).		

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

1975
June 24 Ud iP 18 29 22.4
Kurile Islands (h = 45 km).

" 24 Up iP 19 03 34.3
Ki iP 19 02 49.5
Um iP 19 03 08.5
Ud iP 19 03 40.1
Kurile Islands (h = 30 km).

" 24 Ud iP 19 15 26.4

" 24 Up iPKP 21 19 51.6
Um iPKP 21 19 44.4
Ud iPKP 21 19 54.0
New Hebrides Islands
(h = 190 km).

" 24 Um iPKP 21 34 32.0
Ud iPKP1 21 34 37.4
De iPKP1 21 34 50.0
Tonga Islands (h = 25 km).

" 24 Ud iP 23 20 56.4
Kamchatka (h = N).

" 24 Up iP 23 40 36.9
i 23 40 51.6

		micr	sec
P	Z'	0.1	1.0
Mx	E	1.1	19
Mx	N	2.5	20

Ki iP 23 40 12.8

		micr	sec
P	Z'	0.2	0.9

Sk iP 23 40 40.3
Um iP 23 40 21.8
ipP 23 40 27.2
i 23 40 36.2
Ud iP 23 40 45.8
i 23 41 01.1
De iP 23 40 55.7
i 23 41 11.2
Formosa.
h = 15 km (Um).
m = 6.0 (Up,Ki).

" 25 Ud iP 01 15 21.6
North Atlantic Ocean (h = N).

" 25 Up iP 05 09 14.5
Ud iP 05 09 20.6
Japan (h = 50 km).

" 25 Ud iPKP1 06 03 17.3
De iPKP1 06 03 29.4

1975
June 25 Up iP 10 20 07.4
i(pP) 10 20 15.5
Ki iP 10 18 29.0
iS 10 21 11.7

		micr	sec
P	Z'	0.1	0.5

Sk i(pP) 10 19 36.2
Um iP 10 19 18.0
iS 10 22 44.8
Ud iP 10 20 06.4
De iP 10 20 34.2
i(pP) 10 20 43.3
Franz Josef Land (h = N).

" 25 Ki iP 10 29 14.0
Ud iP 10 29 37.1

" 25 Ud i(P) 13 36 05.4

" 25 Up iSgl 15 08 10.3
Ud i 15 07 05.8
iSgl 15 07 10.9

" 25 Up iP 16 25 27.6
ipP 16 25 34.6
Ki iP 16 24 41.6
Um iP 16 25 02.4
Ud iP 16 25 34.1
ipP 16 25 41.2
De iP 16 25 50.8
Kurile Islands.
h = 25 km (Up,Ud).

" 25 Up iS 19 44 33

		micr	sec
Mx	E	2.5	19
Mx	N	2.7	17
Mx	Z	4.1	18

Ki eP 19 33 20
i 19 33 39.8

		micr	sec
Mx	E	3.0	16
Mx	N	3.6	16
Mx	Z	4.3	16

Um iS 19 44 17
Mexico (h = N).
M = 5.9 (Up,Ki).

" 26 Ud iP 04 39 36.1

" 26 Um iP 06 57 52.8
Guatemala (h = 80 km).

" 26 Up iP 07 42 55.8
ipP 07 43 08.1
Ki iP 07 42 11.1
(cont.)

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

1975 June 26 (cont.)

	Um	iP	07 42 31.8	
	Ud	iP	07 43 01.8	
		ipP	07 43 14.4	

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

" 26	Up	iP	08 10 23.1	
	Ki	iP	08 09 29.6	
			micr sec	
		P Z'	0.1 1.0	
	Sk	eP	08 10 00	
	Um	iP	08 09 56.7	
	Ud	iP	08 10 22.0	
	De	iP	08 10 44.8	
		i	08 11 00.3	

Aleutian Islands
(h = 35 km).

" 26	Um	i(P)	08 17 59.4	
" 26	Up	iP	08 19 10.0	
	Ki	iP	08 18 16.9	
	Sk	iP	08 18 53.5	
	Um	iP	08 18 42.3	
	Ud	iP	08 19 12.8	
	De	iP	08 19 35.4	

Kamchatka (h = N).

" 26	Ud	iP	09 28 47.6	
		ipP	09 29 00.2	

Kurile Islands.
h = 45 km (Ud).

" 26	Ud	iP	09 33 52.5	
" 26	Um	iP	09 40 23.6	
	Ud	iP	09 40 55.7	
		ipP	09 41 08.4	

Kurile Islands.
h = 45 km (Ud).

" 26	Ud	iP	09 58 21.2	
" 26	Up	iP	10 03 27.4	D
		iS	10 12 36	
			micr sec	
		P Z'	0.1 0.9	
	Ki	iP	10 02 53.4	D
		iS	10 11 34	
			micr sec	
		P Z'	0.1 1.0	
	Sk	iP	10 03 24.1	
	Um	iP	10 03 07.9	D
		iS	10 12 00	
	Ud	iP	10 03 34.7	D
		iS	10 12 49.7	

(cont.)

1975 June 26 (cont.)

	De	iP	10 03 48.3	D

Japan (h = 390 km).
m = 5.5 (Up,Ki).

" 26	Up	iP	10 42 15.6	C
		i	10 42 28.3	
		iS	10 51 27	
			micr sec	
		P Z'	0.1 1.0	
		Mx E	1.4 18	
		Mx N	1.4 16	
		Mx Z	2.2 15	
	Ki	iP	10 41 30.4	
		i	10 41 44.1	
			micr sec	
		P Z'	0.1 1.0	
		Mx E	2.1 18	
		Mx N	1.5 15	
		Mx Z	3.0 19	
	Um	iP	10 41 50.9	C
		iS	10 50 36	
	Ud	iP	10 42 21.7	C
		i	10 42 34.7	
	De	iP	10 42 39.1	

Kurile Islands (h = 10 km).
m = 5.9, M = 5.4 (Up,Ki).

" 26	Up	iP	11 28 44.4	
	Um	iP	11 28 19.4	
	Ud	iP	11 28 50.6	

Kurile Islands.
Origin time = 11 17 39.

" 26	Up	iP	12 05 17.9	
	Ki	iP	12 04 23.8	
	Ud	iP	12 05 15.4	

South of Alaska (h = 1 km).

" 26	Up	iP	12 41 48.1	C
			micr sec	
		P Z'	0.3 0.9	
	Ki	iP	12 41 13.8	C
		iPP	12 43 43.7	
			micr sec	
		P Z'	0.3 1.0	
		Mx E	1.0 14	
		Mx N	1.0 14	
		Mx Z	1.2 14	
	Sk	iP	12 41 22.0	C
	Um	iP	12 41 33.5	C
		iPP	12 44 16.5	
	Ud	iP	12 41 40.2	C
	De	iP	12 41 56.7	C

Nevada.
m = 6.4 (Up,Ki).
Underground explosion.

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

1975
June 26 Ki iSgl 13 02 50.9
Um iSgl 13 01 16.9

" 26 Up iPl 13 18 09.0 C
ipP 13 18 23.0
micr sec
Pl Z' 0.1 1.1
Mx E 1.0 17
Mx N 0.9 17
Ki iPl 13 17 23.0
iP2 13 17 26.7
ipP 13 17 38.4
micr sec
Pl Z' 0.1 1.0
P2 Z' 0.3 1.5
Mx E 0.9 15
Mx N 1.2 16
Mx Z 1.5 16
Sk iP2 13 18 03.5
Um iPl 13 17 43.8
iP2 13 17 47.9
ipP 13 17 59.0
Ud iPl 13 18 14.2
ipP 13 18 29.4
De iP2 13 18 35.6
ipP 13 18 49.4
Japan.
h = 55 km (Up,Ki,Um,Ud,De).
m = 5.8, M = 5.3 (Up,Ki).
In average, P2 - Pl = 3.8 sec.

" 26 Up iP 15 37 16.3
ipP 15 37 34.4
i 15 37 46.0
micr sec
pP Z' 0.2 1.1
Ki iP 15 36 51.6
ipP 15 37 10.3
micr sec
pP Z' 0.6 2.3
Sk eP 15 37 21
Um iP 15 37 00.6
ipP 15 37 18.0
i 15 37 30.5
Ud iP 15 37 26.0
ipP 15 37 44.1
Formosa.
h = 70 km (Up,Ki,Um,Ud).
m = 6.0 (Up,Ki).

" 26 Ud iP 15 38 17.0
Kurile Islands (h = 50 km).

" 26 Ud iP 17 02 04.8
Afghanistan-USSR (h = 15 km).

1975
June 26 Up iP 23 54 05.6 D
Ki iP 23 53 20.8
Um iP 23 53 40.6
Ud iP 23 54 11.9 D
Kurile Islands (h = 30 km).

" 27 Ki iP 09 06 56.5
Ud iP 09 07 48.2
Kurile Islands (h = 25 km).

" 27 Up i(P) 11 07 40.4

" 27 Ud i 11 35 38.6
iRg 11 35 42.0
Regional near-surface event.

" 27 Ki iP 13 10 44.4

" 27 Ud iP 16 29 50.9

" 27 Up iP 19 09 54.2
Ki iP 19 10 02.1
micr sec
P Z' 0.1 1.0
Sk iP 19 10 19.2
Um iP 19 09 52.2
Ud iP 19 10 10.5
ipP 19 10 59.7
De iP 19 10 05.8
Afghanistan-USSR.
h = 220 km (Ud).

" 28 Ud iPKPl 01 36 10.5
il 01 36 16.7
De il 01 36 27.8
Tonga-Kermadec Islands (h = N).

" 28 Ud iP 02 19 49.1

" 28 Ki iP 03 01 10.7
Ud iP 03 02 01.4
Kurile Islands (h = 45 km).

" 28 Up iP 04 33 52.8 C
micr sec
P Z' 0.1 0.6
Ki iP 04 34 02.6 C
micr sec
P Z' 0.2 1.0
Sk iP 04 34 18.7 C
Um iP 04 33 52.0 C
Ud iP 04 34 09.4 C
De iP 04 34 05.6 C
Hindu Kush (h = 220 km).
m = 5.5 (Up,Ki).

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

1975 June	28	Up	iPKPl	04 37 00.4		
				micr	sec	
			PKPl Z'	0.3	1.0	
		Ud	iPKPl	04 37 01.7		
		De	iPKPl	04 37 11.7		
			i	04 37 16.1		
		Tonga-Kermadec Islands (h = 210 km).				
"	28	Ud	iP	04 56 24.3		
"	28	Up	iP	06 17 50.8		
		Ki	iP	06 17 40.0	C	
		Sk	iP	06 18 05.3	C	
		Um	iP	06 17 41.0		
		Ud	iP	06 18 04.5		
		De	iP	06 18 08.8		
		India-China (h = N).				
"	28	Ud	iP	08 00 45.6		
"	28	Up	i	10 45 49.9		
			iSgl	10 45 53.2		
		Ki	iSgl	10 48 12.0		
		Sk	iPgl	10 44 21.5		
			iSgl	10 45 21.0		
		Um	i	10 46 51.6		
			iSgl	10 46 55.8		
		Ud	iPgl	10 44 01.4		
			iSgl	10 44 48.7		
		De	iSn	10 45 13.9		
			i	10 45 26.9		
			iSgl	10 45 36.3		
		Southwest Norway, 59.8°N, 6.5°E. Origin time = 10 43 00. m = 4.4, M_L = 3.1 (Up,Sk, Um,Ud). Felt. By combination with Bergen and Kongsberg readings.				
"	28	Ud	iP	14 00 33.3		
"	28	Ki	iP	16 38 36.8		
		Sk	iP	16 38 33.7		
		Um	iP	16 38 11.9		
		Ud	iP	16 38 12.4		
		De	iP	16 37 55.0		
		Iran (h = 60 km).				
"	28	Ud	iP	16 59 02.6		
"	28	Ki	iP	18 05 24.7		
		Um	iP	18 05 39.0		
		Ud	iP	18 06 06.5		
		Japan (h = 10 km).				
1975 June	28	Ki	iP	18 21 26.9		
"	28	Up	iP	21 42 25.4		
			ipP	21 42 54.8		
		Ki	iP	21 42 19.7	C	
		Sk	iP	21 42 40.7		
			ipP	21 43 10.5		
		Um	iP	21 42 17.9	C	
			ipP	21 42 46.3		
		Ud	iP	21 42 38.3	C	
			ipP	21 43 07.3		
		De	iP	21 42 40.0		
		Burma. h = 120 km (Up,Sk,Um,Ud).				
"	28	Ki	iSgl	23 43 30.8		
		Sk	iSgl	23 43 30.3		
		Um	iSgl	23 44 02.3		
		Coast of Nordland, Norway, 66.6°N, 13.1°E. Origin time = 23 41 57. m = 4.2, M_L = 2.5 (Um).				
"	29	Ki	iP	00 32 04.2		
				micr	sec	
			P Z'	0.1	1.2	
		Sk	iP	00 31 40.2		
		Ud	eP	00 31 23		
"	29	Ud	iP	00 38 19.6		
"	29	Up	iPKP	00 49 00.0		
		Ki	iPKP	00 48 45.2		
				micr	sec	
			PKP Z'	0.1	1.0	
		Sk	iPKP	00 48 56.8		
		Um	iPKP	00 48 52.3		
		Ud	iPKP	00 49 01.6		
			iSKPl	00 52 07.1		
		De	iPKP	00 49 07.1		
			iSKPl	00 52 17.9		
		New Hebrides Islands (h = 190 km).				
"	29	Up	iP	02 17 02.4		
		Um	iP	02 16 45.7		
		Ud	iP	02 17 14.9		
"	29	Um	iP	03 33 52.1		
		Ud	iP	03 34 13.6		
"	29	Ud	iP	06 31 39.4		
"	29	Up	iP	10 15 38.8		
			i	10 15 47.2		
		Ud	iP	10 15 47.5		

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

1975 June	29	Up	iP		10 47 39.9	D	
			ipP		10 49 34.3		
			iS		10 55 49.6		
			iP'P'		11 15 48.1		
			ipP'P'		11 18 09.1		
					micr	sec	
			P	Z'	3.5	0.9	
			Mx	E	75	28	
			Mx	N	16	17	
			Mx	Z	21	18	
		Ki	iP		10 47 03.8	D	
			ipP		10 48 55.9		
			iPP		10 49 28.3		
			ipPP		10 50 45.7		
			iS		10 54 42.6		
			i(P'P')		11 15 39.0		
			iP'P'		11 16 08.2		
					micr	sec	
			P	Z'	9.5	1.1	
			Mx	E	56	17	
			Mx	N	44	18	
			Mx	Z	26	18	
		Um	iP		10 47 18.8	D	
			ipP		10 49 12.7		
			iS		10 55 09.4		
			iP'P'		11 15 58.0		
		Ud	iP		10 47 48.2	D	
			ipP		10 49 44.0		
			iS		10 56 04.9		
			iP'P'		11 15 45.6		
		De	iP		10 48 01.9	D	
			ipP		10 49 58.3		
			iS		10 56 32.0		
			iP'P'		11 15 44.7		
		Sea of Japan.					
		h = 580 km (Up,Ki,Um,Ud,De).					
		m = 7.0, M = 6.9 (Up,Ki).					
		M uncorrected for focal depth.					
"	29	Ki	iP		12 33 30.2		
		Um	iP		12 33 51.1		
		Ud	iP		12 34 26.4		
		Eastern USSR (h = N).					
"	29	Ki	iP		13 25 24.6		
"	29	Ud	iP		14 56 27.8		
"	29	Ki	iP		15 10 10.8		
		Ud	iP		15 09 29.7		
		Red Sea (h = N).					
"	29	Ki	iP		15 10 43.7		
		Ud	iP		15 10 02.0		
"	29	Up	iPl		17 41 41.5		
		(cont.)					

1975 June	29	(cont.)					
		Up	iP2		17 41 44.6		
		Um	iP2		17 42 23.4		
		Ud	iPl		17 41 49.4		
		Greece (h = 40 km).					
"	29	Ud	iP		20 37 15.5		
"	29	Ki	iP		21 54 52.4		
		Ud	iP		21 54 16.2		
		Red Sea (h = N).					
"	29	Ud	iP		22 01 58.3		
"	30	Ud	iP		00 07 48.3		
"	30	Up	iP		03 33 55.3	C	
		Ki	iP		03 33 38.6		
		Um	iP		03 33 40.0		
		Ud	iP		03 34 11.6	C	
		De	iP		03 34 18.8	C	
		Eastern Kazakh SSR.					
		Underground explosion.					
"	30	Up	iP		09 02 01.9	D	
			ipP		09 02 16.3		
					micr	sec	
			P	Z'	0.1	0.9	
		Ki	iP		09 02 01.9	D	
		Sk	iP		09 02 18.2		
			ipP		09 02 32.8		
		Um	iP		09 01 57.6	D	
			ipP		09 02 11.6		
		Ud	iP		09 02 14.1	D	
			ipP		09 02 28.3		
		De	iP		09 02 12.4		
		Andaman Islands (h = 55 km).					
"	30	Up	iPKPl		10 52 23.5		
		Sk	iPKPl		10 52 16.1		
		Um	iPKPl		10 52 12.6		
		Ud	iPKPl		10 52 25.4		
		De	iPKPl		10 52 35.8		
		Tonga-Kermadec Islands (h = 220 km).					
"	30	Ud	iP		11 18 23.6		
"	30	Ud	iP		11 55 13.6		
"	30	Um	iP		12 38 10.2		
		Ud	iP		12 38 40.8		
"	30	Up	iP		13 31 43.9		
			iS		13 35 43.5		
					micr	sec	
			P	Z'	0.1	0.8	
		(cont.)					

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

1975 June	30	(cont.)				
		Up			micr	sec
			Mx	E	7.4	10
			Mx	N	6.1	9
			Mx	Z	8.4	10
		Ki	iP		13 33 00.4	
			i		13 33 02.6	
			iS		13 37 57	
					micr	sec
			P	Z'	0.2	1.8
			i	Z'	0.2	1.1
			Mx	E	7.2	12
			Mx	N	5.6	11
			Mx	Z	6.7	12
		Sk	iP		13 32 25.8	
			i		13 32 27.8	
		Um	iP		13 32 22.8	
			i		13 32 26.8	
			iS		13 36 52	
		Ud	iP		13 31 50.7	
			i		13 31 53.0	
			iS		13 35 56.4	
		De	iP		13 31 14.5	
			i		13 31 16.5	
		Greece (h = 10 km).				
		m = 5.6, M = 5.6 (Up,Ki).				
"	30	Sk	iP		13 47 49.7	
		Ud	iP		13 47 13.6	
		Greece.				
"	30	Up	eP		15 32 11	
			i		15 32 18.4	
		Sk	iP		15 32 53.7	
		Um	iP		15 32 52.8	
		Ud	iP		15 32 19.6	
		Greece (h = 35 km).				
"	30	Ud	eP		15 38 31	
"	30	Ud	iP		17 06 05.6	
"	30	Sk	iP		17 07 00.9	
"	30	Up	iP		17 37 37.4	
		Ud	iP		17 37 43.3	
		Greece (h = N).				
"	30	Up	iP		18 45 17.1	
			i		18 45 37.9	
		Sk	iP		18 45 57.9	
		Um	iP		18 45 55.8	
		Ud	iP		18 45 25.7	
		Greece (h = 25 km).				
"	30	Sk	iP		18 55 14.6	
		(cont.)				

1975 June	30	(cont.)				
		Um	iP		18 55 23.7	
		Ud	iP		18 55 34.2	
		Probably Wyoming, a foreshock to the following main event.				
"	30	Up	iP		19 05 11.7	
			iS		19 14 02	
					micr	sec
			P	Z'	0.2	1.2
			Mx	E	2.4	18
			Mx	N	2.2	14
			Mx	Z	5.0	17
		Ki	iP		19 04 34.6	
					micr	sec
			P	Z'	0.3	1.7
			Mx	E	4.5	15
			Mx	N	5.8	16
			Mx	Z	6.1	16
		Sk	iP		19 04 42.6	
		Um	iP		19 04 53.7	
			iS		19 13 38	
		Ud	iP		19 05 02.5	
		De	iP		19 05 20.5	
		Wyoming (h = 5 km).				
		m = 6.2, M = 5.8 (Up,Ki).				
"	30	Up	iP		19 11 27.0	
		Ki	iP		19 10 48.5	
		Sk	eP		19 10 58	
		Um	iP		19 11 09.4	
		Ud	iP		19 11 16.1	
		Wyoming (h = 5 km).				
"	30	Up	i(P)		19 14 37.2	
"	30	Up	iPgl		19 34 39.9	
			iSgl		19 34 58.3	
			iRg		19 35 05.5	
		Ud	iPgl		19 34 49.4	
			iSgl		19 35 14.7	
			i		19 35 16.8	
			iRg		19 35 25.5	
		Origin time = 19 34 15.				
		Near-surface event.				
"	30	Um	iP		20 04 42.7	
"	30	Up	i(P)		21 14 24.3	
		Ud	i(P)		21 14 10.1	
"	30	Sk	iP		23 07 48.2	
		Um	iP		23 07 44.3	
		Ud	iP		23 07 15.6	
		Greece (h = 50 km).				
"	30	Up	iP		23 11 15.0	
		(cont.)				

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

1975

June	30	(cont.)				
		Up	iS		23 21 44	
					micr	sec
			Mx	E	1.4	18
			Mx	N	1.3	18
			Mx	Z	1.9	16
		Ki	iP		23 10 57.8	
					micr	sec
			Mx	E	1.7	13
			Mx	N	1.0	14
			Mx	Z	1.9	15
		Sk	iP		23 10 55.0	
		Um	iP		23 11 07.9	
			iS		23 21 37	
		Ud	iP		23 11 05.6	
		De	iP		23 11 16.7	
		Mexico (h = 25 km).				
		M = 5.6 (Up,Ki).				
"	30	Sk	iP		23 58 32.1	
		Um	iP		23 58 29.8	
		Ud	iP		23 57 58.0	
		Greece (h = 55 km).				

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