



SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ,
UDDEHOLM, and DELARY

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

JULY 1 - 31, 1975

1975	July	1	Ki	eP	00 03 22	1975	July	1	(cont.)		
			Sk	iP	00 03 25.2				Ki	iP	10 25 06.7
			Um	iP	00 03 38.1				Sk	iP	10 25 06.9
"		1	Um	iP	02 31 20.7				Um	iP	10 25 19.2
"		1	Up	iP	03 32 22.0				Ud	iP	10 25 16.8
				i	03 32 26.1		"	1	Ki	iP	12 24 07.0
			Ki	iP	03 30 49.8				Ud	iP	12 25 03.6
				i	03 30 54.9		"	1	Ud	iP	18 25 52.2
			Sk	iP	03 31 36.0				Nevada (h = 5 km).		
			Um	iP	03 31 37.0		"	1	Up	iP	21 55 00.0
			Ud	iP	03 32 12.7 C				i		21 55 24.5
				ipP	03 32 20.3				Um	i	21 55 25.3
			North of Svalbard (h = N).						Ud	iP	21 55 12.3
			Late arrivals compared to the NEIS solution.						Carlsberg Ridge (h = N).		
"		1	Ud	iP	05 10 06.2		"	2	Up	iP	01 08 31.7
"		1	Ud	i(P)	05 33 08.2				Sk	iP	01 09 12.0
			South Atlantic Ocean (h = N).						Um	iP	01 09 11.1
"		1	Up	iP	09 35 43.3				Ud	iP	01 08 38.0
				ipP	09 36 08.1				i		01 08 41.5
			Ki	iP	09 35 16.2		"	2	Greece (h = 15 km).		
			Sk	iP	09 35 44.5				Ud	iP	01 11 06.7
				ipP	09 36 10.6		"	2	Up	iP	01 35 14.9
			Um	iP	09 35 25.0				Sk	iP	01 35 56.2
				ipP	09 35 53.5				Um	iP	01 35 54.7
			Ud	iP	09 35 52.1				Ud	iP	01 35 24.6
				ipP	09 36 17.4				Greece (h = 35 km).		
			De	iP	09 35 59.8		"	2	Ud	iP	01 54 48.3
			Formosa. h = 100 km (Up,Sk,Um,Ud).				"	2	Sk	iP	02 25 15.1
"		1	Up	iP	10 25 25.5				Ud	iP	02 24 39.9
			(cont.)						Greece (h = 60 km).		

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

1975					1975				
July	2	Ud	iP	03 35 00.6	July	2	(cont.)		
"	2	Ud	iP	03 48 23.8			Ud	ipP	14 51 38.5
"	2	Up	iP	04 53 20.5			De	iP	14 51 29.3
			i	04 53 23.6			Tadzhik SSR (h = 20 km).		
		Sk	iP	04 54 03.2	"	2	Up	iP	19 53 17.5
		Um	iP	04 53 59.8			Ki	iP	19 52 29.0
		Ud	iP	04 53 29.8			Um	iP	19 52 51.7
		Greece (h = 25 km).					Ud	iP	19 53 22.1
"	2	Up	iP	05 14 21.4			De	iP	19 53 41.4
		Ud	iP	05 14 29.3			Kurile Islands (h = 60 km).		
		Greece (h = 25 km).			"	2	Ud	iP	23 36 59.2
"	2	Um	iP	06 26 34.8	"	3	Up	iPKP1	01 13 50.4
		Ud	iP	06 26 00.0				i	01 14 16.4
		Aleutian Islands (h = 70 km).					Ud	iPKP1	01 13 51.6
"	2	Ud	eP	07 44 42				i	01 14 17.7
		Kamchatka (h = 25 km).					De	iPKP1	01 14 05.1
"	2	Um	iP	10 56 11.6				i	01 14 25.7
		Ud	iP	10 55 59.8	"	3	Up	iP	03 58 31.7
		Panama-Costa Rica (h = 40 km).					Ki	iP	03 57 46.1
"	2	Up	iP	11 15 06.5			Um	iP	03 58 06.8
			ipP	11 15 13.3			Ud	iP	03 58 38.0
		Ki	iP	11 15 09.7			De	iP	03 58 55.0
		Sk	iP	11 15 28.8			Kurile Islands (h = 30 km).		
		Um	iP	11 15 01.9	"	3	Ki	iP	06 33 16.6
		Ud	iP	11 15 22.1			Ud	iP	06 34 05.8
			ipP	11 15 28.5			De	iP	06 34 25.0
		De	iP	11 15 20.5			Japan (h = N).		
		Kashmir-Tibet. h = 25 km (Up,Ud).			"	3	Ud	iP	06 44 32.4
"	2	Up	iP	11 17 35.8	"	3	Ud	iP	09 47 05.5
		Ryukyu Islands (h = 60 km).					De	iP	09 47 02.2
"	2	Up	iRg	12 34 36.4			Hindu Kush (h = 110 km).		
		Ud	iRg	12 34 34.2	"	3	Ud	iP	09 52 11.5
		Central Sweden. Near-surface event.			"	3	Up	iP	10 38 18.2
"	2	Up	iPKP	14 05 40.9			Ud	iP	10 38 27.8
		Um	iPKP	14 05 25.3			Greece (h = 55 km).		
			i	14 05 39.0	"	3	Ud	iP	11 30 10.7
		Ud	iPKP	14 05 38.0	"	3	Up	iP	18 56 03.0
			i	14 05 50.2			Ki	iP	18 55 32.9
"	2	Ud	iP	14 10 23.9			Ud	iP	18 56 10.8
							Ryukyu Islands (h = 120 km).		
"	2	Ki	iP	14 51 20.3	"	3	Up	iP	21 17 16.8
		Um	ipP	14 51 17.1			Sk	iP	21 17 57.7
		Ud	iP	14 51 32.0			Ud	iP	21 17 25.1
		(cont.)					Greece (h = 15 km).		

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1975				1975					
July	4	Up	iP	00 29 35.5	July	5	Up	iPKP1	09 49 33.8
		Sk	iP	00 30 17.1					micr sec
		Ud	iP	00 29 43.5				PKP1	Z' 0.1 1.2
		Greece (h = N).					Sk	iPKP1	09 49 22.5
"	4	Up	iP	03 40 30.2			Um	iPKP1	09 49 17.0
"	4	Up					Ud	iPKP1	09 49 29.3
								iPKP2	09 49 37.0
							De	iPKP1	09 49 38.4
								iPKP2	09 49 50.6
		Tonga Islands (h = 15 km).					Kermadec Islands (h = 410 km).		
"	4	Ud	iP	16 31 42.0	"	5	Ud	iP	10 25 36.4
"	4	Ud	iP	17 19 00.1	"	5	Up	iP	10 37 02.9
"	4	Up	iP	20 54 02.4			Ud	iP	10 37 10.3
			iPP	20 58 26.1			De	iP	10 36 39.8
							Mediterranean Sea (h = 70 km).		
					"	5	Ud	iP	12 54 19.5
					"	5	Ud	iP	13 47 25.9
					"	5	Ki	eSgl	17 39 40
							Sk	eSgl	17 39 56
							Um	iPgl	17 38 08.7
								iSgl	17 38 17.3
							Ud	iSgl	17 40 49.1
							Västerbotten, Sweden, 64.5°N, 20.7°E.		
							Origin time = 17 37 57.		
							m = 4.1, M _L = 2.4 (Ki,Um,Ud).		
"	5	Up	iP	01 25 51.3	"	5	Up	iPKP	18 00 26.2
		Ki	iP	01 25 19.0			Ud	iPKP	18 00 25.6
		Um	iP	01 25 33.1			South Sandwich Islands (h = N).		
		Ud	iP	01 25 59.1 C	"	5	Ud	iP	20 26 20.8
		Japan (h = 510 km).			"	5	Up	iPKP1	21 05 50.6
"	5	Sk	iP	01 31 10.3			De	iPKP1	21 06 02.2
		Um	iP	01 30 54.7			Fiji Islands (h = 550 km).		
		Ud	iP	01 30 56.0	"	6	Up	iP	02 49 12.1
		Chagos Archipelago (h = N).					Ki	iP	02 48 26.2
"	5	Up	iP	02 30 03.3			Um	iP	02 48 46.8
		Ki	iP	02 29 25.0			Ud	iP	02 49 17.7 C
		Sk	iP	02 29 57.7			Kurile Islands (h = N).		
		Um	iP	02 29 41.9 C	"	6	Up	iP	02 52 07.6
							Um	iP	02 51 42.7
							Ud	iP	02 52 13.1
							Kurile Islands (h = N).		
"	5	Ud	iP	07 35 46.0	"	6	Um	iP	03 36 53.4
"	5	Ud	iP	09 26 38.8	"	6	Ud	iP	08 19 34.1

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

1975					1975				
July	6	Ud	iP	10 03 18.1	July	7	(cont.)		
				Japan (h = 500 km).			Ud	i	12 28 40.8
"	6	Up	iP	10 48 12.2			De	iP	12 28 46.1
		Ki	iP	10 48 49.9			Volcano Islands (h = N).		
		Um	iP	10 48 27.6	"	7	Up	iP	14 01 26.4
		Ud	iP	10 48 23.8 C					
		Gulf of Aden (h = N).			"	7	Up	iPKP1	16 00 16.9
"	6	Ud	iP	12 00 25.2			Ud	iPKP1	16 00 18.0
							De	iPKP1	16 00 27.0
"	6	Ud	iPKP1	14 36 10.1	"	7	Up	iP	18 01 47.9
		De	iPKP1	14 36 21.3			Ki	iP	18 01 26.2
"	6	Up	i	21 19 02.9			Um	iP	18 01 33.7
			i(PP)	21 22 27.1				i	18 01 38.4
		Ki	iP	21 18 26.7			Ud	iP	18 01 58.4
		Um	iP	21 18 32.7			Formosa (h = 25 km).		
		Ud	iP	21 18 51.2	"	7	Up	iP	19 40 52.3 C
			i(PP)	21 22 42.8				i	19 41 01.8
		De	i	21 19 17.6				ipP	19 41 24.5
		Celebes (h = 90 km).						iS	19 50 56.3
		Parentheses denote early arrivals.							micr sec
"	7	Ud	iP	00 30 14.8			P	Z'	0.1 0.7
			i	00 30 26.0			Mx	E	1.0 17
		Komandorsky Islands (h = N).					Mx	N	1.5 21
"	7	Up	iP	05 12 49.0			Mx	Z	1.1 17
		Ki	iP	05 12 09.6			Ki	iP	19 40 21.5
		Sk	iP	05 12 42.3				iS	19 49 57.4
		Um	iP	05 12 26.7 C					micr sec
		Ud	iP	05 12 56.6 C			P	Z'	0.1 0.7
		De	iP	05 13 11.8			Mx	E	1.2 21
		Japan (h = 40 km).					Mx	N	1.4 20
"	7	Up	iPKP1	11 59 28.6			Mx	Z	1.4 20
		Ud	iPKP1	11 59 30.2			Sk	iP	19 40 49.3 C
		De	iPKP1	11 59 39.8			Um	iP	19 40 34.4 C
"	7	Sk	iP	12 19 12.9				ipP	19 41 06.1
		Ud	iP	12 19 12.0				iS	19 50 23.2
		De	iP	12 19 15.8			Ud	iP	19 40 59.1 C
"	7	Sk	iP	12 19 12.9				iS	19 51 10.8
		Ud	iP	12 19 12.0			De	iP	19 41 11.1 C
		De	iP	12 19 15.8				iS	19 51 33.6
"	7	Up	iP	12 28 27.6			Volcano Islands. h = 120 km (Up,Um). m = 5.7, M = 5.9 (Up,Ki).		
			i	12 29 02.9	"	7	Up	iP	20 36 22.6
			iS	12 38 48			Sk	iP	20 36 16.0
				micr sec			Um	iP	20 36 00.0
		Mx	Z	1.2 22			Ud	iP	20 36 29.8 C
		Ki	iP	12 27 57.6			De	iP	20 36 44.1
				micr sec			Japan (h = 35 km).		
		P	Z'	0.2 1.0	"	8	Ud	iP	07 39 13.4
		Mx	N	1.2 21	"	8	Ud	iP	08 55 03.6
		Sk	iP	12 28 25.0					
		Um	iP	12 28 10.7					
		Ud	iP	12 28 33.7					
		(cont.)							

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

1975				1975			
July 8				July 8 (cont.)			
	Up	iP	09 49 49.2		Sk	i	12 18 54.1
		iPP	09 52 50.1			iS	12 24 13.1
		iS	10 00 06			iP'P'	12 43 40.5
			micr sec		Um	iP	12 15 00.0
		P	Z' 1.1 1.9			i	12 19 28.8
		Mx	E 24 20			iS	12 23 20.3
		Mx	N 28 17			iP'P'	12 43 43.0
		Mx	Z 60 23		Ud	iP	12 15 19.5 C
	Ki	iP	09 49 20.4			iS	12 24 05.9
		i	09 49 24.3			iP'P'	12 43 38.0
		iS	09 59 16		De	iP	12 15 20.3
			micr sec			iS	12 24 07.0
		i	Z' 1.1 2.4			iP'P'	12 43 37.6
		Mx	E 59 23			Burma (h = 160 km).	
		Mx	N 56 18			m = 7.0 (Up,Ki).	
		Mx	Z 41 16				
	Sk	iP	09 49 25.3		"	8	De iP 13 03 16.4
		i	09 49 29.0				
	Um	iP	09 49 34.5		"	8	Up iP 15 00 26.8
		iPP	09 52 40.9				Sk iP 15 00 42.7
		iS	09 59 44				Um iP 15 00 16.8
	Ud	iP	09 49 41.4				Ud iP 15 00 40.5
		i	09 49 45.0				Tibet (h = N).
		iPP	09 50 46.0				
	De	iP	09 49 54.8		"	8	Up i(P) 15 48 55.2
		i	09 49 57.6				Ud i(P) 15 49 05.4
		Gulf of California (h = N).					
		m = 6.5, M = 6.9 (Up,Ki).			"	8	Up iP 18 20 06.7
		Double P, in average 3.5					i 18 20 17.2
		sec apart. The second onset					iPP 18 20 20.3
		when interpreted as pP gives					micr sec
		focal depth of 10 km.					pP Z' 0.1 1.3
"	8	Ud iPKP	11 04 56.4				Ki iP 18 19 50.2
		De iPKPl	11 05 02.5				Sk eP 18 20 13
		Tonga Islands (h = 10 km).					iPP 18 20 25.5
"	8	Up iP	12 15 07.0 C				Um iP 18 19 56.5
		i	12 15 31.6				iPP 18 20 08.8
		iPP	12 17 32.7				Ud iP 18 20 15.8
		iS	12 23 40.6				iPP 18 20 29.8
		i	12 43 31.1				Mindoro.
		iP'P'	12 43 44.0				h = 45 km (Up,Sk,Um,Ud).
			micr sec		"	8	Up eP 19 39 23
		P	Z' 1.2 0.7				
		Mx	E 41 28		"	8	Up iP 19 47 16.6
	Ki	iP	12 15 01.7 C				Ki iP 19 47 11.0
		iPP	12 17 27.7				Sk iP 19 47 31.8
		iS	12 23 27.9				Um iP 19 47 09.6 C
		iP'P'	12 43 48.6				Ud iP 19 47 29.1
			micr sec				Burma (h = 90 km).
		P	Z' 8.0 2.0		"	8	Up iP 21 08 17.9
		Mx	E 45 15				i 21 08 53.4
		Mx	N 110 21				Ki iP 21 07 24.0
		Mx	Z 52 16				Sk iP 21 07 56.7
	Sk	iP	12 15 22.4				i 21 08 29.2
		iPP	12 17 53.7				(cont.)
		(cont.)					(cont.)

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

1975

July 8 (cont.)
Um iP 21 07 53.2
Ud iP 21 08 18.0
Aleutian Islands (h = 55 km).

" 8 ✓ Up iP 22 58 08.0 D
i 22 58 14.9
ipP 22 58 24.4
iPP 23 01 04.5
iS 23 07 53.0
micr sec
P Z' 0.4 0.9
i Z' 1.8 1.6
Mx E 3.6 21
Mx N 4.7 19
Mx Z 5.4 23
Ki iP 22 57 31.7 D
i 22 57 37.5
ipP 23 00 05.3
iS 23 06 43
iP'P' 23 25 25.4
micr sec
P Z' 0.3 0.9
i Z' 0.5 1.4
Mx E 6.6 18
Mx N 5.3 16
Mx Z 5.1 19
Sk iP 22 58 03.1
i 22 58 09.4
ipP 23 00 54.3
i 23 03 04.7
Um iP 22 57 47.8 D
i 22 57 54.3
ipP 23 01 39.8
iS 23 07 14
Ud iP 22 58 15.3 D
i 22 58 21.9
ipP 22 58 30.5
De iP 22 58 29.0 D
i 22 58 35.3
i(PP) 23 01 16.6
i 23 01 49.5

Japan.

h = 55 km (Up,Ud).

m = 6.5, M = 6.0 (Up,Ki).

Double P, in average

6.3 sec apart.

" 9 Sk iP 01 18 12.8
Um iP 01 18 31.6
Ud iP 01 18 32.9

" 9 Up iP 03 04 00.1
Sk iP 03 03 41.1
Um iP 03 03 46.0
Ud iP 03 04 10.4

1975

July 9 Up iP 04 26 27.0
Um iP 04 26 08.6
Ud iP 04 26 35.7
Ryukyu Islands (h = 55 km).
Late arrivals wrt the
NEIS solution.

" 9 De iP 05 00 27.3

" 9 Ud iP 07 28 03.6

" 9 Ud iP 09 52 50.7

" 9 Up iP 11 41 02.4

Ki iP 11 40 57.2

Sk iP 11 41 18.1 C

Um iP 11 40 55.7 C

Ud iP 11 41 15.6 C

De iP 11 41 17.3

Burma (h = 180 km).

" 9 Up iP 11 45 48.4 C
micr sec

P Z' 0.1 1.0

Mx E 1.4 18

Mx N 1.3 18

Mx Z 1.4 15

Ki iP 11 45 02.1

micr sec

Mx E 1.7 16

Mx N 1.7 16

Mx Z 2.8 16

Sk iP 11 45 38.4 C

Um iP 11 45 23.6 C

iS 11 54 08.0

Ud iP 11 45 54.6 C

De iP 11 46 12.6

Kurile Islands (h = 35 km).

M = 5.4 (Up,Ki).

" 9 Up iP 13 07 09.5 C
ipP 13 07 16.9

micr sec

P Z' 0.2 1.0

Mx E 1.2 13

Mx N 0.9 13

Mx Z 2.1 13

Ki iP 13 06 37.7

micr sec

Mx E 0.7 12

Mx N 1.1 13

Mx Z 0.9 11

Sk iP 13 07 09.1 C

ipP 13 07 18.0

Um iP 13 06 51.5

ipP 13 06 59.0

(cont.)

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

1975				1975				
July	9	(cont.)		July	10	Ki	iP	11 26 52.0
		Ud	iP			Ud	iP	11 27 18.1
			ipP					Mindanao (h = 80 km).
		De	iP					
			ipP		"	Ud	iP	11 51 18.4
					"	Sk	iSgl	12 43 37.3
						Ud	iSgl	12 43 55.8
								West coast of Norway,
								61.3°N, 4.5°E.
								Origin time = 12 41 30.
								m = 4.3, M _L = 2.7 (Sk,Ud).
								By combination with Bergen
								readings.
"	9	Up	iP		"	Up	iPn	15 36 50.8
							ipG1	15 36 58.1
							iSn	15 37 38.3
							iS*	15 37 50.9
						Sk	iPn	15 37 50.6
							iSg2	15 40 19.8
						Um	i	15 37 50.8
							iSgl	15 39 41.8
						Ud	iPn	15 37 09.3
							ipG1	15 37 25.5
							i	15 38 21.5
							iSgl	15 38 36.5
						De	iPn	15 36 46.1
							ipG1	15 36 55.0
							iSgl	15 37 48.9
								Coast of Latvia,
								56.2°N, 20.9°E.
								Origin time = 15 35 48.
								m = 4.4, M _L = 3.1 (Um,Ud,De).
								Explosion?L
"	9	Ud	iP		"	Up	iPKP1	15 50 13.5
							i	15 50 21.2
						Sk	ePKP1	15 50 10
						Um	iPKP1	15 50 03.0
							i	15 50 14.1
						Ud	iPKP1	15 50 15.5
"	10	Up	iP		"	Up	iSgl	16 43 14.1
						Sk	iSgl	16 43 02.3
						Ud	i	16 41 59.7
							iSgl	16 42 14.9
								South Norway, 59.3°N, 6.9°E.
								Origin time = 16 40 25.
								m = 4.2, M _L = 2.6 (Sk,Ud).
								By combination with Bergen
								and Kongsberg readings.
"	10	Up	iP		"	Sk	iP	17 12 12.0
		Ki	iP					Central Mid-Atlantic Ocean
		Sk	iP					(h = N).
		Um	iP					
		Ud	iP					
								Ascension Island (h = N).

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1975				1975					
July	10	Up	iP	18 42 22.9	July	11	Up	iPKP	04 58 09.6
			i	18 42 26.5			Sk	iPKP	04 58 02.6
			iPP	18 46 14.0			Ud	iPKP	04 58 11.3
			iS	18 53 17			De	iPKP	04 58 20.5
				micr sec					
			i	Z' 0.5 0.9	"	11	Up	iP	05 22 05.6
			Mx	E 59 30			Ki	iP	05 21 40.4
			Mx	N 70 23			Sk	iP	05 22 09.1
		Ki	iP	18 42 05.0			Um	iP	05 21 51.6
			i	18 42 09.2			Ud	iP	05 22 14.9
			ePP	18 45 46			De	iP	05 22 23.7
			iS	18 52 52					Formosa (h = 50 km).
				micr sec					
			P	Z' 0.1 0.7	"	11	Up	iP	05 33 36.2
			i	Z' 1.1 1.0				ipP	05 34 09.4
			Mx	E 51 22					micr sec
			Mx	N 53 21				P	Z' 0.1 1.1
			Mx	Z 41 20			Ki	iP	05 33 43.7
		Sk	iP	18 42 27.1			Sk	iP	05 33 19.1
			i	18 42 29.6			Um	iP	05 33 08.1 C
		Um	iP	18 42 12.2			Ud	iP	05 33 39.8
			i	18 42 15.9				ipP	05 34 13.5
			iS	18 52 52			De	iP	05 34 01.3
		Ud	iP	18 42 31.5					Kamchatka.
			i	18 42 32.6					h = 140 km (Up,Ud).
			iS	18 53 34.2					
		De	iP	18 42 38.4	"	11	Ud	iP	06 04 55.4
			i	18 42 39.8	"	11	Up	iP	07 24 11.1
			i	18 42 44.5			Sk	iP	07 24 33.4
			iPP	18 46 42.5			Ud	iP	07 24 01.9
							De	iP	07 23 31.6
				Mindanao (h = 90 km).					Algeria (h = N).
				m = 7.0, M = 7.1 (Up,Ki).					Late arrivals wrt the NEIS solution.
				Double P, smaller and					
				larger, average separation					
				= 2.7 sec.					
"	10	Ki	iP	18 59 36.9	"	11	Up	iPKP	07 27 14.2
		Sk	iP	18 59 34.3				iPP	07 27 45.5
		Ud	iP	18 59 20.6					micr sec
"	10	Ki	iP	19 01 49.4				Mx	E 1.9 20
				micr sec				Mx	N 1.6 18
			P	Z' 0.1 1.4				Mx	Z 3.3 22
		Ud	iP	19 03 01.3			Ki	iPP	07 27 23.1
									micr sec
"	10	Up	iP	19 23 29.6				Mx	E 2.0 21
"	10	Ud	iP	19 47 36.6				Mx	N 2.7 21
								Mx	Z 5.1 23
"	11	Up	iP	02 11 06.3			Sk	ePP	07 27 23
		Ki	iP	02 10 21.0					Easter Island (h = N).
		Ud	iP	02 11 11.2					M = 5.8 (Up,Ki).
			i	02 11 24.0	"	11	Ud	iP	09 08 47.8
				Kurile Islands (h = N).	"	11	Sk	iP	10 52 23.7
"	11	Ud	iP	03 31 15.7	"	11	Ud	iP	13 44 43.5

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

1975

July 11	Up	iPKP	19 13 15.3
		ipPKP	19 13 40.8
		iPP	19 14 51.2
		iSKS	19 20 10
			micr sec
		Mx E	2.8 28
		Mx N	3.0 27
		Mx Z	4.0 28
	Ki	iPKP	19 13 02.6
		ipPKP	19 13 28.7
			micr sec
		Mx E	2.4 21
		Mx N	3.1 21
		Mx Z	4.7 21
	Um	iPKP	19 13 09.9
		ipPKP	19 13 34.7
		i(PP)	19 14 51.2
		iSKS	19 19 58
	Ud	iPKP	19 13 17.7
		ipPKP	19 13 44.5
		i(PP)	19 15 26.7
	De	iPKP	19 13 23.3
		ipPKP	19 13 50.7
		i	19 14 15.7
		i(PP)	19 15 47.6

Solomon Islands.
h = 100 km (Up,Ki,Um,Ud,De).
M = 6.0 (Up,Ki).
Parentheses denote late arrivals.

"	11	Ud	iP	21 55 41.7
"	12	Up	iP	03 02 52.3
		Ki	iP	03 02 19.0
		Um	iP	03 02 25.9
		Ud	iP	03 02 58.4
		De	iP	03 03 08.6
"	12	Up	iP	07 01 19.5
			iSKS	07 11 44
		Um	iSKS	07 11 53
		Ud	iP	07 01 11.3
			iPP	07 05 19.6
		De	iP	07 01 08.0
				Peru-Bolivia (h = 160 km).
"	12	Up	iP	07 17 34.3
		Ki	iP	07 17 22.8
		Um	iP	07 17 24.9
		Ud	iP	07 17 43.3
		De	iP	07 17 47.5
"	12	Up	iPKP1	09 47 41.5
		Ud	iPKP1	09 47 42.4
		De	iPKP1	09 47 52.6
				Kermadec Islands (h = 500 km).

1975

July 12	Up	iP	09 49 34.8	
	Ud	iP	09 49 38.2	
"	12	Ud	iP	11 15 47.4
"	12	Ud	iP	11 25 09.9
		De	iP	11 25 03.9
"	12	Up	iP	11 30 34.7
			i	11 31 12.1
		Ud	i	11 32 08.1
"	12	Ud	iP	12 34 03.9
"	12	Up	iP	16 37 55.9
		Ki	iP	16 37 06.6
		Um	iP	16 37 29.5
		Ud	iP	16 38 01.4
		De	iP	16 38 20.7
				Okhotsk Sea (h = 480 km).
"	12	Up	i(PKP)	17 27 17.0
			iPKP	17 27 18.4
			iSKP1	17 30 28.0
			iSKP2	17 30 30.6
			ipSKP2	17 31 29.3
		Ki	iPKP	17 27 03.6
				micr sec
			PKP Z'	0.1 0.9
		Um	iPKP	17 27 10.2
		Ud	iPKP	17 27 20.1
			iSKP1	17 30 33.2
			iSKP2	17 30 35.4
			i	17 31 31.1
			ipSKP2	17 31 34.6
		De	iPKP	17 27 25.6
			iSKP1	17 30 43.9
			iSKP2	17 30 47.7
			i	17 31 43.0
			ipSKP2	17 31 45.9
				New Hebrides Islands. h = 130 km (Up,Ud,De).
"	12	Up	ePKP	19 24 19
			iPKP1	19 24 21.7
			ipPKP1	19 24 37.5
				micr sec
			PKP1 Z'	0.2 0.8
			Mx E	1.2 21
			Mx N	1.5 21
			Mx Z	1.3 23
		Ki	iPKP	19 24 00.8
			i	19 24 03.5
				micr sec
			Mx E	1.4 22
			Mx N	1.4 20
			Mx Z	2.3 22

(cont.)

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

1975				1975				
July	12	(cont.)		July	14	Um	iP	12 09 24.2
		Um	iPKP			Ud	iP	12 09 43.8
		Ud	iPKP			Mariana Islands (h = 140 km).		
			iPKP1		"	14	Up	iSn
			ipPKP1					14 37 01.4
		De	iPKP					14 37 26.2
			iPKP1			Um	iSgl	14 38 06.9
			ipPKP1			Ud	iSn	14 37 49.0
		Kermadec Islands.						14 38 24.7
		h = 50 km (Up,Ud,De).				De	i	14 37 46.7
		M = 5.8 (Up,Ki).						14 38 36.0
"	12	De	iP			Estonia, 58.2°N, 27.1°E.		
						Origin time = 14 34 47.		
"	12	Ud	iP			m = 4.4, M _L = 3.1 (Up,Um,Ud,De).		
		Turkey (h = 70 km).			"	14	Up	iP
								14 55 49.6
"	13	Ud	iP				iPP	15 00 12.1
								micr sec
"	13	Ud	iP				PP	Z' 0.1 1.0
		North Atlantic Ocean					Mx	E 1.2 20
		(h = N).					Mx	N 1.7 19
							Mx	Z 0.9 21
"	13	Up	iP			Ki	iP	14 55 30.3
			i				ipP	14 55 36.1
		Um	iP				iPP	14 59 39.4
		Ud	iP					micr sec
		De	iP				PP	Z' 0.1 1.5
		China Sea (h = 170 km).					Mx	E 1.5 20
"	13	Um	iP				Mx	N 1.1 20
		Ud	iP				Mx	Z 1.9 18
"	13	Ki	iP			Um	iP	14 55 36.4
		Ud	iP				ipP	14 55 43.8
		Mindanao (h = 40 km).				Ud	iP	14 55 57.5
						De	iPP	15 00 37.9
"	13	Ki	iP			New Guinea.		
			ipP			h = 20 km (Ki,Um).		
		Ud	iP			m = 6.1, M = 5.6 (Up,Ki).		
			ipP		"	14	Ud	iPKP1
		Mindanao.						19 53 24.4
		h = 70 km (Ki,Ud).				De	iPKP1	19 53 35.4
"	13	Ki	iP		"	14	De	i
		Ud	iP					20 22 32.8
		North Atlantic Ocean				New Ireland (h = 80 km).		
		(h = N).			"	15	Up	
"	14	Ud	iP					micr sec
		Greece (h = 35 km).					Mx	E 4.0 23
							Mx	N 4.0 22
"	14	Ud	iP				Mx	Z 7.3 24
						Ki		micr sec
"	14	Ud	iP				Mx	E 2.5 16
							Mx	N 4.1 18
"	14	Ud	iP				Mx	Z 2.7 17
						Mid-Indian Rise (h = N).		
"	14	Ud	iP			M = 6.1 (Up,Ki).		
		De	iP		"	15	Ud	iP
		Turkey (h = 35 km).						01 55 16.1
						New Guinea (h = 20 km).		

				Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary			
1975				1975			
July	15	Ud	iP	04	33	34.0	
"	15	Up	iP	07	24	12.1	
		Um	iP	07	23	48.0	
		Ud	iP	07	24	14.9	
		Japan (h = 40 km).					
"	15	Up	iP	16	06	44.7	
		Ki	iP	16	06	42.6	
		micr sec					
		P	Z'	0.1	1.5		
		Mx	E	0.7	16		
		Mx	N	0.9	18		
		Mx	Z	1.3	19		
		Um	iP	16	06	45.9	
		Ud	iP	16	06	36.0	
		Panama (h = N).					
"	15	Ki	iP	18	19	16.7	
		Ud	iP	18	20	06.6	
		Japan (h = N).					
"	15	Up	iPKP1	20	22	46.2	
			i	20	22	58.3	
		Um	iPKP	20	22	32.7	
			iPKP1	20	22	33.8	
		Ud	iPKP1	20	22	47.4	
			i	20	22	59.5	
		De	i	20	23	07.5	
		Kermadec Islands (h = 55 km).					
"	15	Up	iP	22	04	21.9	
			i	22	04	25.1	
			i	22	04	30.0	
			iS	22	08	21.4	
		micr sec					
			i	Z'	0.1	1.0	
			i	Z'	0.3	1.3	
			Mx	N	0.8	15	
			Mx	Z	1.0	18	
		Ki	iP	22	05	20.2	
		micr sec					
			Mx	E	0.8	14	
			Mx	N	1.3	19	
		Um	iP	22	04	47.9	
			iS	22	09	13.6	
		De	iP	22	04	10.9	
			i	22	04	22.0	
			i	22	04	31.9	
			iS	22	07	58.6	
		Turkey (h = 10 km).					
		M = 4.5 (Up,Ki).					
"	16	Um	iP	01	54	12.9	
		Ud	iP	01	54	41.2	
		Japan (h = 5 km).					
July	16	Up	iP	03	35	40.3	
		Ki	iP	03	34	56.0	
		Um	iP	03	35	16.6	C
		Ud	iP	03	35	47.8	C
		De	iP	03	36	04.3	
		Kurile Islands (h = 70 km).					
"	16	Ki	iP	09	13	39.7	
"	16	Um	iP	09	53	22.3	
		Ud	iP	09	53	40.9	
		New Guinea (h = N).					
"	16	Um	iP	09	53	22.3	
		Ud	iP	09	53	51.8	
		Japan (h = 45 km).					
"	16	Up	iP	10	02	58.6	
		Ki	iP	10	02	18.3	
		Um	iP	10	02	35.7	
		Ud	iP	10	03	04.9	
		De	iP	10	03	19.7	
		Japan (h = 50 km).					
"	16	Um	iPKP1	15	53	59.0	
		Ud	iPKP1	15	54	10.9	
		Kermadec Islands (h = N).					
"	16	Up	iPKP1	18	37	26.6	
			iPKP2	18	37	31.7	
			i	18	37	42.4	
		micr sec					
			PKP1	Z'	0.3	1.5	
			Mx	E	1.3	17	
			Mx	N	2.4	22	
			Mx	Z	2.6	21	
		Ki	iPKP1	18	37	06.0	
		micr sec					
			Mx	E	1.2	18	
			Mx	N	4.7	21	
			Mx	Z	3.4	19	
		Um	i(PKP)	18	37	13.7	
			iPKP1	18	37	15.2	
		Ud	iPKP1	18	37	27.8	
		De	iPKP1	18	37	36.6	
			iPKP2	18	37	48.5	
		Kermadec Islands (h = 45 km).					
		M = 6.2 (Up,Ki).					
"	16	Up	iPKP1	19	58	09.1	
			iPKP2	19	58	14.3	
			i	19	58	23.4	
		micr sec					
			PKP2	Z'	0.1	0.9	
			i	Z'	0.1	0.8	

(cont.)

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

1975				1975			
July	16	(cont.)		July	17		
		Up	micr sec			Um	iP 15 52 20.7
		Mx	N 1.1 21			Ud	eP 15 52 51
		Mx	Z 1.2 22	"	17	Up	iPgl 16 47 59.3
		Ki	iPKPl 19 57 49.1				iSgl 16 48 17.6
			micr sec				iRg 16 48 25.3
		Mx	E 1.1 20			Ud	iPgl 16 48 09.0
		Mx	N 1.8 20				i 16 48 35.1
		Mx	Z 1.4 20				iSgl 16 48 36.3
		Um	i(PKP) 19 57 55.0				iRg 16 48 47.3
			iPKPl 19 57 56.4			Östergötland, Sweden,	
		Ud	iPKP 19 58 06.9			58.5°N, 16.4°E.	
			iPKPl 19 58 11.5			Origin time = 16 47 34.	
		De	iPKPl 19 58 21.1			m = 4.0, M _L = 2.1 (Ud).	
		Kermadec Islands (h = 35 km).				Near-surface event.	
		M = 5.7 (Up,Ki).		"	18	Um	iP 00 39 09.2
"	16	Up	iPKPl 20 08 24.5			Ud	iP 00 39 45.6
			i 20 08 44.7				i 00 39 53.5
		Um	iPKPl 20 08 16.4 C	"	18	Up	iP 02 10 32.4
		Ud	iPKPl 20 08 24.9			Ud	iP 02 10 35.8
			i 20 08 43.8	"	18	Up	iPKPl 03 02 05.5
		Kermadec Islands (h = 45 km).					iPKP2 03 02 12.1
"	16	Um	iP 20 39 35.1			Um	iPKPl 03 01 55.0 D
		Bonin Islands (h = 500 km).				Ud	iPKPl 03 02 06.8
"	16	Ud	iP 23 22 31.5				iPKP2 03 02 15.2
"	17	Up	iP 02 48 17.5	"	18	Ud	iP 04 06 13.3
			i 02 48 32.3	"	18	Ud	iP 04 37 31.5
		Ki	iP 02 48 17.0	"	18	Um	iP 05 29 34.7 C
			i 02 48 29.8			Ud	iP 05 29 14.2
			micr sec			Venezuela (h = 35 km).	
		P	Z' 0.1 0.8	"	18	Up	iPKP 07 43 45.6
		Um	iP 02 48 14.3			Ud	iPKP 07 43 48.0
		Ud	iP 02 48 27.0	"	18	Up	iP 09 38 12.6
			i 02 48 41.3				i 09 38 15.2
		Sumatra (h = 100 km).					iPP 09 39 57.5
		The second phase, at Up and					micr sec
		Ud, when interpreted as pP,					i Z' 0.1 1.3
		gives a focal depth of 50 km.					Mx N 0.6 11
"	17	Um	iP 07 08 01.6			Ki	iP 09 38 31.4
"	17	Ud	iP 11 48 25.7				micr sec
		North Atlantic Ocean					Mx N 1.0 19
		(h = N).				Um	iP 09 38 15.8 C
"	17	Ud	iP 12 27 07.2				i 09 38 18.4
"	17	Ud	iP 13 17 36.6			Ud	iP 09 38 28.6 C
"	17	Up	iP 13 43 57.3				i 09 38 31.0
		Ud	iP 13 44 11.8				iPP 09 40 18.4
		Kashmir-Tibet (h = 10 km).				Afghanistan (h = 35 km).	
						Double P small and large	
						(Up,Um,Ud), in average 2.5	
						sec apart.	

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

1975				1975			
July	18	Ud iSgl	11 30 34.6	July	19	(cont.)	
		Off coast of southwest Norway,				Ki iP	06 19 38.9
		57.5°N, 5.8°E.					micr sec
		Origin time = 11 28 06.				P	Z' 0.1 1.0
		m = 4.2, M _L = 2.6 (Ud).				Mx	E 1.6 15
		By combination with Bergen				Mx	N 4.3 14
		and Kongsberg readings.				Mx	Z 2.1 17
"	18	Ud iP	14 11 16.5			Um iP	06 19 31.5
		Celebes (h = 80 km).				iS	06 26 30
"	18	Up iPKP	19 01 28.9			Ud iP	06 19 50.3
		Ud iPKP	19 01 30.2			Tibet-India (h = 40 km).	
		Fiji Islands (h = 460 km).		"	19	Ud iP	06 53 37.3
"	18	Ud iP	22 00 41.2	"	19	Ud iP	07 35 24.6
"	18	Up iP	23 50 42.1			Kashmir-Tibet (h = N).	
		Ud iP	23 50 57.4	"	19	Ud iP	09 58 03.1
		Iran-USSR (h = 20 km).		"	19	Ud iP	10 13 40.7
"	19	Up iP	01 41 05.4	"	19	Ud iP	12 09 58.9
		Ki iP	01 40 46.7	"	19	Up iP	17 25 16.2
		Ud iP	01 41 11.3			Ki iP	17 25 13.2
		iPP	01 42 42.4			Um iP	17 25 18.3 D
		Mindanao (h = 400 km).				Ud iP	17 25 07.1
"	19	Up iP	04 14 20.8 C			Panama-Costa Rica	
		iPP	04 17 24.7			(h = 55 km).	
		iS	04 24 23	"	19	Um iP	17 37 12.6
			micr sec			i	17 37 22.0
		P	Z' 0.4 1.4			Ud iP	17 37 01.7
		Mx	E 1.4 18			Panama-Costa Rica	
		Mx	N 1.5 17			(h = 45 km).	
		Mx	Z 1.6 20	"	19	Ki eP	19 34 12
		Ki iP	04 13 47.7 C			Um iP	19 34 32.9
		iPP	04 16 30.5			Ud iP	19 34 50.0
			micr sec			i	19 35 03.0
		P	Z' 0.2 1.0	"	19	Um iP	22 28 28.5
		Mx	E 1.2 16			Ud iP	22 28 24.7
		Mx	N 2.5 20	"	19	Up iP	22 50 42.4
		Mx	Z 2.4 20	"	19	Ud iP	23 47 59.7
		Um iP	04 14 02.3 C	"	20	Up iP	00 01 31.8
		iS	04 23 41			i	00 01 35.5
		Ud iP	04 14 28.2 C			Ki iP	00 01 27.3
		i	04 14 33.3				micr sec
		iPP	04 17 32.3			P	Z' 0.3 2.0
		Japan (h = 10 km).				Um iP	00 01 33.2
		m = 6.1, M = 5.6 (Up,Ki).				Ud iP	00 01 21.8
"	19	Up iP	06 19 34.7			De i	00 01 29.8
			micr sec			Panama-Costa Rica	
		P	Z' 0.2 1.0			(h = 50 km).	
		Mx	E 1.7 18				
		Mx	N 5.0 20				
		Mx	Z 2.9 21				
		(cont.)					

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

1975

July	20	Um	iP	00 08 28.3	
		Ud	iP	00 09 09.4	
			i	00 09 17.0	
"	20	Up	iP	01 14 28.4	
			i	01 14 32.6	
				micr sec	
		P	Z'	0.1 1.0	
		Ki	iP	01 13 52.2	
			i	01 13 56.5	
		Um	iP	01 14 07.9	
			i	01 14 11.5	
			i	01 14 26.7	
		Ud	iP	01 14 35.8	
			i	01 14 39.8	
		De	iP	01 14 49.8	
			i	01 14 53.3	
		Japan (h = 80 km).			
		Double P, in average 3.9 sec apart.			
"	20	Ud	iP	05 23 27.9	
		De	iP	05 23 14.6	
"	20	Up	iPKP1	06 17 35.7	
			i	06 17 38.2	
			i	06 17 43.3	
				micr sec	
		i	Z'	0.2 1.1	
		Ki	i(PKP)	06 17 15.4	
		Um	iPKP1	06 17 24.5	
			i	06 17 26.3	
		Ud	iPKP	06 17 33.6	
			iPKP1	06 17 37.9	
			i	06 17 40.1	
		De	iPKP1	06 17 45.5	
			i	06 17 48.4	
		Kermadec Islands (h = 100 km).			
		Double PKP1, small and large, in average 2.4 sec apart.			
"	20	Up	iP	08 13 33.4 C	
			ipP	08 13 53.1	
			iS	08 22 22	
				micr sec	
		P	Z'	0.1 0.7	
		Mx	E	0.8 14	
		Mx	N	1.0 19	
		Mx	Z	1.6 17	
		Ki	iP	08 12 47.2	
				micr sec	
		P	Z'	0.2 1.0	
		Mx	E	0.9 15	
		Mx	N	1.2 14	
		Mx	Z	1.1 15	
		(cont.)			

1975

July	20	(cont.)		
		Um	iP	08 13 08.2 C
			iS	08 21 40
		Ud	iP	08 13 39.4 C
			i	08 13 40.9
			ipP	08 14 00.0
		De	iP	08 13 57.4 C
		Kurile Islands.		
		h = 80 km (Up,Ud).		
		m = 6.1, M = 5.3 (Up,Ki).		
"	20	Ud	iP	08 41 41.9
"	20	Ki	iPKP1	09 07 55.7
		Um	iPKP1	09 07 55.1
		Ud	iPKP1	09 07 59.4
		Macquarie Island (h = N).		
"	20	Up	ePKP1	09 19 11
		Ki	ePKP1	09 19 09
		Um	ePKP1	09 19 06
		Ud	iPKP1	09 19 08.9
			e	09 19 30
		Macquarie Island (h = N).		
"	20	Ud	iP	11 49 21.7
			i	11 49 38.0
"	20	Up	ePdiff	14 52 51
			i	14 52 58.8
			ePKP	14 56 21
			i	14 56 25.1
			i	14 56 45.1
			ipP	14 57 52.4
			iSKS	15 03 11
			iPKKP	15 06 43.8
			iX	15 06 46.8
			i	15 07 04.6
			iSKKP	15 10 46.2
				micr sec
		i	Z'	0.1 0.6
		PP	Z'	0.2 1.0
		i	Z'	1.3 1.6
		Mx	E	65 22
		Mx	N	74 21
		Mx	Z	122 20
		Ki	ePdiff	14 52 17
			iPKP	14 56 06.6
			i	14 56 11.5
			i	14 56 33.8
			iSKS	15 02 48
			iPKKP	15 07 07.5
			iX	15 07 10.1
			iSKKP	15 11 12.8
			i	15 14 8.9
				micr sec
		i	Z'	0.3 1.0
		(cont.)		

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

1975

July 20 (cont.)

Ki			micr	sec
	Mx	E	85	19
	Mx	N	116	20
	Mx	Z	116	18
Um	ePdiff		14 52	32
	i		14 52	51.4
	iPKP		14 56	14.0
	i		14 56	17.3
	i		14 56	38.3
	iPKKP		15 06	55.0
	iX		15 06	58.9
	iSKKP		15 10	04.0
Ud	ePdiff		14 52	51
	iPKP		14 56	23.7
	i		14 56	27.6
	iPP		14 57	52.2
	iPKKP		15 06	38.8
	iX		15 06	41.2
	iSKKP		15 10	38.0
	e		15 14	04
De	iPKP		14 56	28.4
	i		14 56	31.9
	iX		15 06	30.1
	i		15 10	00.8
	i		15 13	58.6

Solomon Islands (h = 50 km).
M = 7.5 (Up,Ki).
Double PKP and PKKP small and large 3.9 sec and 3.0 sec apart, respectively. X denotes the secondary PKKP.

" 20 De iPKP 15 31 06.7
Solomon Islands (h = N).

" 20 De iPKP 15 43 05.0
i 15 43 19.2
Solomon Islands (h = N).

" 20 Up iP 15 50 09.1
i 15 50 28.5
micr sec
i Z' 0.1 1.3
Ki iP 15 49 45.2
Um iP 15 49 54.4
Ud iP 15 50 18.7
De iP 15 50 28.0
Formosa (h = 30 km).

" 20 De iPKP 15 51 18.6
i 15 51 26.6
Solomon Islands (h = N).

" 20 Up iPKP 15 54 27.5
i 15 54 30.5
Um iPKP 15 54 21.3
(cont.)

1975

July 20 (cont.)

Ud	iPKP	15 54 31.9
De	iPKP	15 54 35.2
Solomon Islands (h = 55 km).		
"	20 Ud	iPKP 15 58 24.4
	De	iPKP 15 58 29.9
Solomon Islands.		
Origin time = 15 39 41.		
Approximate origin times, based upon the same focal coordinates as for the earthquake at 14 37 40, July 20, are given for those Solomon Islands aftershocks, which have not been reported by NEIS.		
"	20 Ud	iPKP 16 27 19.1
Solomon Islands (h = N).		
"	20 Up	iPKP 16 32 45.3
	Um	iPKP 16 32 38.0
	De	iPKP 16 32 53.7
Solomon Islands (h = 30 km).		
"	20 Up	iPKP 17 29 37.6
	i	17 29 47.5
	Ki	ePKP 17 29 27
	Um	iPKP 17 29 31.1
	Ud	iPKP 17 29 39.4
	i	17 29 49.9
	De	iPKP 17 29 44.0
Solomon Islands (h = 25 km).		
"	20 Um	iPKP 17 35 01.3
	Ud	iPKP 17 35 09.8
	De	iPKP 17 35 15.9
Solomon Islands (h = 50 km).		
"	20 Um	iPKP 17 36 34.3
	Ud	ePKP 17 36 43
	De	iPKP 17 36 49.5
Solomon Islands.		
Origin time = 17 18 01.		
"	20 Ud	iPKP 17 45 02.5
	De	iPKP 17 45 08.6
Solomon Islands (h = N).		
"	20 De	iPKP 17 48 22.6
Solomon Islands (h = N).		
"	20 De	iPKP 18 19 32.5
Solomon Islands (h = 35 km).		
"	20	✓ Up iPdiff 20 09 42.1 (cont.)

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

1975

July 20

(cont.)

Up ePKP 20 13 11
 i 20 13 17.9
 iSKS 20 20 09
 iPKKP 20 23 35.7
 micr sec
 i Z' 0.1 1.0
 Mx E 27 19
 Mx N 70 22
 Mx Z 85 22
 Ki ePdiff 20 09 07
 i 20 09 14.7
 iPKP 20 12 56.3
 i 20 13 04.2
 iPKKP 20 23 56.0
 micr sec
 i Z' 0.2 1.5
 Mx E 63 20
 Mx N 113 21
 Mx Z 94 20
 Um iPdiff 20 09 24.4
 iPKP 20 13 03.7
 i 20 13 11.1
 iPKKP 20 23 48.1
 Ud iPdiff 20 09 43.4
 iPKP 20 13 12.6
 i 20 13 20.5
 iPP 20 14 39.3
 iPKKP 20 23 30.2
 De iPKP 20 13 18.8
 i 20 13 26.2
 iPKKP 20 23 21.3

Solomon Islands (h = 45 km).

M = 7.4 (Up,Ki).

Double PKP, small and large
 in average 7.3 sec apart.

" 20 Um iPKP 20 28 07.7
 Ud iPKP 20 28 17.1
 De iPKP 20 28 22.7
 Solomon Islands (h = N).
 " 20 Um iPKP 20 30 14.0
 Ud i(PKP) 20 30 31.4
 iPKP 20 30 34.2
 De iPKP 20 30 28.7
 Solomon Islands (h = N).
 " 20 Ud iP 20 38 28.1
 " 20 Um iPKP 20 57 27.9
 Ud iPKP 20 57 37.0
 De iPKP 20 57 42.8
 Solomon Islands.
 Origin time = 20 38 54.
 " 20 Um iP 20 58 55.6
 (cont.)

1975

July 20

(cont.)

Ud iP 20 59 14.0
 De iP 20 59 11.4
 Afghanistan-USSR
 (h = 110 km).
 " 20 Ud i 22 08 14.1
 De iPKP 22 08 04.7
 Solomon Islands (h = 40 km).
 " 20 Ud iP 22 09 06.0
 i 22 09 12.6
 South Atlantic Ocean
 (h = N).
 " 20 De iP 22 46 49.4
 " 20 Up iPKP 23 24 00.3 C
 e(PP) 23 25 16
 i 23 26 29.9
 iPKKP 23 34 21.9
 i 23 34 26.0
 i 23 37 13.4
 micr sec
 PKP Z' 0.1 0.5
 Mx E 3.5 20
 Mx N 3.4 19
 Mx Z 12 20
 Ki iPKP 23 23 48.4
 iPKKP 23 34 42.6
 micr sec
 Mx E 6.0 23
 Mx N 7.7 22
 Mx Z 5.8 22
 Um i(PKP) 23 23 49.0
 iPKP 23 23 53.7
 iPKKP 23 34 34.6
 Ud iPKP 23 24 02.5
 iPP 23 25 21.8
 i 23 29 44.8
 iPKKP 23 34 16.4
 De iPKP 23 24 07.7 C
 iPKKP 23 34 08.7
 Solomon Islands (h = 50 km).
 M = 6.2 (Up,Ki).
 " 20 Um iPKP 23 27 27.2
 De iPKP 23 27 41.7
 Solomon Islands.
 Origin time = 23 08 53.
 " 20 Up iPKP 23 46 37.4
 Um iPKP 23 46 30.7 C
 Ud iPKP 23 46 40.0
 De iPKP 23 46 45.6 C
 Solomon Islands (h = 5 km).

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

1975				1975			
July	21	(cont.)		July	21	De	iPKP 11 10 49.2
		De	iPKP 03 07 43.4				Solomon Islands (h = 40 km).
			Solomon Islands (h = 100 km).				
			M = 6.8 (Up,Ki).	"	21	Up	iP 13 36 54.6
"	21	De	iPKP 03 36 17.7				iS 13 44 16
		i	03 36 27.5				micr sec
			Solomon Islands (h = 60 km).			Mx	E 1.1 19
"	21	Um	iP 04 22 08.0			Mx	N 1.6 22
"	21	Up	iPKP 04 28 38.7			Mx	Z 1.3 19
		i	04 28 50.0			Ki	eP 13 37 32
		Um	iPKP 04 28 33.5				micr sec
		i	04 28 46.1			Mx	E 0.9 15
		Ud	iPKP 04 28 41.5			Mx	N 1.4 14
		i	04 28 53.3			Mx	Z 1.2 16
		De	iPKP 04 28 46.2			Sk	iP 13 37 26.4
		i	04 28 58.2			Um	iP 13 37 10.3
			Solomon Islands (h = N).				i 13 37 15.0
			Double PKP, in average 11.8				ipP 13 37 20.5
			sec apart. The second onset,				iS 13 44 49
			when interpreted as pPKP,				Ud iP 13 37 06.1
			gives a focal depth of 35 km.				ipP 13 37 15.4
"	21	Up	iPKP 04 39 51.0			De	iP 13 36 47.6
		i	04 39 59.2				Gulf of Aden.
		Um	iPKP 04 39 44.8	"	21	De	iPKP 13 53 18.8
		Ud	iPKP 04 39 53.0				Solomon Islands (h = 50 km).
		i	04 40 03.1	"	21	De	iPKP 20 41 41.1
		De	iPKP 04 39 57.5				New Guinea (h = 60 km).
		i	04 40 07.6	"	21	Up	iPKP 20 59 19.0
			Solomon Islands (h = 30 km).				iPKP1 20 59 24.4
"	21	Ud	iPKP 04 42 37.4			Sk	iPKP1 20 59 12.8
		De	iPKP 04 42 41.5			Um	iPKP 20 59 08.2 C
			Solomon Islands.				iPKP1 20 59 11.5
			Origin time = 04 23 58.			Ud	iPKP 20 59 20.4
"	21	Ud	iP 05 19 41.6				iPKP1 20 59 26.9
"	21	Um	iPKP 06 53 50.7			De	iPKP 20 59 27.0
		Ud	iPKP 06 53 58.9				iPKP1 20 59 37.5
		De	iPKP 06 54 04.7				South of Kermadec Islands.
			Solomon Islands (h = 45 km).				(h = 440 km).
"	21	De	iPKP 07 15 03.4	"	21	Ud	iP 21 19 05.2
			Solomon Islands (h = 55 km).	"	21	Ud	iP 23 55 41.3
"	21	Up	iP 07 35 17.4			De	iP 23 55 15.2
		Ki	eP 07 35 21	"	22	De	iPKP 00 02 11.4
		Um	iP 07 35 13.7				Solomon Islands (h = 35 km).
		Ud	iP 07 35 32.1	"	22	Up	iPKP 03 31 38.8
			Kashmir-Tibet (h = N).			Ud	iPKP 03 31 40.7
"	21	Ud	iP 10 53 37.9			De	iPKP 03 31 44.8
							Solomon Islands (h = 45 km).

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

1975				1975					
July 22				July 22 (cont.)					
	Up	iPKP	05 08 56.7	Ki	iPKP	19 38 44.7			
	Ki	iPKP	05 08 45.6			micr sec			
	Sk	iPKP	05 08 55.9		Mx	E	2.1 18		
	Um	iPKP	05 08 50.6		Mx	N	6.7 20		
	Ud	iPKP	05 08 59.1		Mx	Z	6.6 20		
	De	iPKP	05 09 04.7	Sk	iPKP	19 38 57.4			
			Solomon Islands (h = 70 km).		iPP	19 40 13.6			
"	22	Up	iP	05 19 19.1	Um	iPKP	19 38 51.2 C		
		Ki	iP	05 19 40.1	Ud	iPKP	19 39 00.5 C		
		Sk	iP	05 19 27.0		iPP	19 40 26.8		
		Ud	iP	05 19 14.5	De	iPKP	19 39 06.0 C		
		De	iP	05 19 07.4			Solomon Islands (h = 35 km).		
							M = 6.1 (Up,Ki).		
"	22	Up	iP	05 35 21.5	"	22	Um	iPKP	22 45 18.5
		Ki	eP	05 35 06					Solomon Islands (h = 70 km).
			i	05 35 24.5	"	23	Up	iPKP1	01 05 08.0
		Sk	iP	05 35 04.3			Sk	ePKP1	01 05 09
		Ud	iP	05 35 15.9			Um	iPKP1	01 05 00.5
		De	iP	05 35 22.8				i	01 05 08.5
				Mexico (h = 100 km).			Ud	iPKP1	01 05 12.3
"	22	Ud	iP	09 36 52.6					South of Kermadec (h = 110 km).
"	22	Ud	iP	09 39 38.8	"	23	Ud	iP	02 44 19.1
"	22	Ud	iP	09 50 46.1					North Atlantic Ocean (h = N).
"	22	Ud	iP	09 53 23.1 C	"	23	Up	iP	03 13 28.8 C
			i	09 53 25.9				i	03 14 41.3
		De	iP	09 53 14.7					micr sec
				North Atlantic Ocean			P	Z'	0.1 0.9
				(h = N).			Mx	E	1.0 18
"	22	Ud	iP	10 49 21.6			Mx	N	3.6 22
"	22	Ud	iPKP1	12 32 09.3			Mx	Z	1.0 19
		De	iPKP1	12 32 21.1	Ki	iP	03 13 19.6 C		
				Fiji Islands (h = 570 km).					micr sec
"	22	Ud	iP	13 16 52.4			P	Z'	0.1 1.0
"	22	Up	iPKP	13 50 20.2			Mx	E	1.0 19
		Ki	iPKP	13 50 08.8			Mx	N	1.8 17
		Sk	iPKP	13 50 19.9			Mx	Z	1.3 19
		Um	iPKP	13 50 14.6	Sk	iP	03 13 43.3 C		
		Ud	iPKP	13 50 23.8	Um	iP	03 13 19.8 C		
		De	iPKP	13 50 29.1	Ud	iP	03 13 42.0 C		
				Solomon Islands (h = 70 km).	De	iP	03 13 45.2		
									Burma (h = N).
									m = 5.9, M = 5.4 (Up,Ki).
"	22	Up	iPKP	19 38 58.3	"	23	Up	iPKP2	10 45 05.4
			iPP	19 39 05.4				i	10 45 18.5
				micr sec	Sk	iPKP1	10 44 52.4		
		Mx	E	3.0 22	Um	iPKP1	10 44 47.8		
		Mx	N	2.2 18	Ud	iPKP1	10 44 59.9		
		Mx	Z	4.4 23					South of Kermadec Islands
				(cont.)					(h = N).
"	22	Ud	iP	18 21 20.5	"	23	Ud	iP	18 21 20.5
				Hindu Kush (h = 230 km).					

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

1975					1975				
July	23	Um	iP	20 33 41.5	July	25	Ki	iP	06 12 02.1
"	23	Up	iP	23 57 04.5					Ryukyu Islands (h = 40 km).
		Um	iP	23 56 54.1	"	25	Up	iP	10 51 07.6 C
		Ud	iP	23 57 05.9				iX	10 51 22.3
"	24	De	iPKP	00 21 21.9				iS	10 59 42
				Solomon Islands (h = 55 km).				iP'P'	11 19 47.0
"	24	Up							micr sec
							P	Z'	0.6 1.4
		Mx	E	1.1 19			Mx	E	1.5 25
		Mx	N	0.9 17			Mx	N	2.4 26
		Mx	Z	2.6 19			Mx	Z	2.4 25
		Ki					Ki	iP	10 50 12.7
								i	10 50 24.2
		Mx	E	1.3 19				iX	10 50 28.6
		Mx	N	1.1 17				iP'P'	11 20 07.4
		Mx	Z	1.5 18					micr sec
				Solomon Islands (h = 40 km).			P	Z'	0.4 1.1
				M = 5.7 (Up,Ki).			X	Z'	0.7 1.5
"	24	Ud	iP	05 58 10.3			Mx	E	1.4 22
				Aleutian Islands (h = N).			Mx	N	2.2 22
"	24	Up	i	09 24 35.1			Mx	Z	2.6 23
		Ud	iPKP	09 24 28.1			Sk	iP	10 50 41.7
			i	09 24 39.6				i	10 50 51.3
		De	i	09 24 44.4				iX	10 50 57.0
"	24	Up	iPKP1	19 20 04.3			Um	iP	10 50 40.4 C
			iSKP1	19 22 53.3				iX	10 50 56.4
				micr sec				iS	10 58 58
		SKP1	Z'	0.1 0.9				iP'P'	11 19 56.4
		Ki	ePKP	19 19 47			Ud	iP	10 51 04.5 C
			iSKP1	19 22 31.2				iX	10 51 20.7
				micr sec			De	iP	10 51 28.3
		SKP1	Z'	0.1 1.0				iX	10 51 44.0
		Sk	iPKP1	19 19 58.4					Alaska (h = 15 km).
			iSKP1	19 22 46.2					m = 6.5, M = 5.3 (Up,Ki).
		Um	iPKP1	19 19 51.8					Double P, in average 15.8
			i	19 22 42.1					sec apart. The second phase,
		Ud	iPKP1	19 20 06.0					X, when interpreted as pP,
			i	19 20 14.0					gives a focal depth of 60 km.
			iSKP1	19 22 54.6	"	25	Up	iP	15 53 39.0
		De	iPKP1	19 20 17.0			Ki	iP	15 53 08.0
			iPKP2	19 20 18.6			Sk	iP	15 53 35.9
			iSKP1	19 23 03.3			Um	iP	15 53 20.8
				Tonga-Kermadec Islands					Volcano Islands (h = 390 km).
				(h = 580 km).	"	25	Up	iPKP1	19 06 25.0
"	24	Ki	iP	22 17 39.8				i	19 06 29.6
		Ud	iP	22 18 31.7			Sk	iPKP1	19 06 16.3
			i	22 18 41.1			Um	i(PKP)	19 06 09.5
"	25	Up	iP	00 46 38.0				iPKP1	19 06 11.7
							Ud	i(PKP)	19 06 18.5
"	25	Ud	iP	04 24 40.4				iPKP1	19 06 24.1
				Oregon (h = N).			De	iPKP1	19 06 34.9
									Kermadec Islands (h = 45 km).

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

1975	July	25	Up	iP	19	21	58.2			1975	July	26	Up	iP	02	50	17.8			
				ipP	19	22	09.0						Sk	iP	02	51	01.3			
				iS	19	26	00.8						Ud	iP	02	50	25.5			
													Greece (h = 50 km).							
				pP	Z'	0.1	1.1			"		26	Ud	iP	04	37	55.4			
				Mx	E	0.8	11						"		26	Up	iP	06	28	07.0
				Mx	N	0.8	9								26	Um	iP	06	27	46.9
				Mx	Z	1.4	12								26	Ud	iP	06	28	04.2
			Ki	iP	19	23	12.7			"		26	Ki	iP	07	26	12.6			
				ipP	19	33	23.2						Ud	iP	07	25	28.3			
													North Atlantic Ocean (h = N).							
				P	Z'	0.1	1.3			"		26	Um	iP	12	20	02.8			
				Mx	E	0.6	11						Ud	iP	12	20	39.1			
				Mx	N	0.7	9			"		26	De	iPKP	13	38	33.6			
				Mx	Z	0.9	10						Solomon Islands (h = N).							
			Sk	iP	19	22	39.8			"		26	Ud	iP	15	51	39.9			
				i	19	22	44.7						Afghanistan-USSR (h = N).							
			Um	iP	19	22	36.3			"		26	Up	iP	16	48	31.1			
				iS	19	27	14						"		26	Um	iPKP	17	49	08.8
			Ud	iP	19	22	04.0			"		26	Solomon Islands (h = 40 km).							
				ipP	19	22	13.2			"		26	Ki	iP	01	00	40.9	C		
			De	iP	19	21	29.4			"		26	Um	iP	01	00	14.4			
				ipP	19	21	38.9			"		26	Ud	iP	01	00	12.2			
			Greece.									"	26	De	iP	00	59	52.7		
			h = 40 km (Up,Ki,Ud,De).									"	26	Iran-Iraq (h = N).						
			m = 5.3, M = 4.6 (Up,Ki).									"	26	Ud	iP	04	07	21.6		
"		25	Sk	iP	20	01	12.5			"		26	Um	iPKP	04	26	49.4	C		
			Um	iP	20	00	52.5			"		26	Ud	iP	04	27	00.3	C		
			Ud	iP	20	01	27.7			"		26	i	04	27	07.2				
			Kurile Islands (h = 180 km).									"	26	Oregon (h = 30 km).						
"		25	Up	iP	20	24	05.8			"		26	Um	iPKP	05	58	50.4			
			Ki	iP	20	23	48.7			"		26	Ud	iPKP	05	59	03.7			
			Um	iP	20	23	55.4			"		26	Um	iP	06	37	42.1			
			Ud	iP	20	24	14.9	C		"		26	Ki	iP	17	27	21.7			
			Mindanao (h = 120 km).									"	26	i	17	27	54.5			
"		25	Up	iP	22	58	49.3			"		26	Um	iP	17	27	35.2			
										"		26	i	17	28	07.7				
				P	Z'	0.1	1.3			"		26	Ud	iP	17	28	03.2			
			Ki	iP	22	58	03.4			"		26	Japan (h = 140 km).							
			Sk	iP	22	58	39.5			"		26	Up	i	20	35	45.4			
			Um	iP	22	58	25.0			"		26	Sk	iPKP	20	35	20.6			
				i	22	58	36.8			"		26	(cont.)							
			Ud	iP	22	58	55.1			"		26								
				i	22	59	07.5			"		26								
			Japan.									"								
			h = 40 km (Um,Ud).									"								
"		25	Ki	iPn	23	30	30.3			"		26								
				iS*	23	31	43.6			"		26								
			Northwest USSR,									"								
			68.9°N, 33.6°E.									"								
			Origin time = 23 29 16.									"								
			Explosion?									"								
			Solution from Helsinki									"								
			regional bulletin.									"								

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

1975				1975			
July	27	(cont.)		July	28		
		Um	iPKP 20 35 15.0 C			Um	iPKP 09 05 26.9
		Ud	iPKP 20 35 28.2			i	09 05 38.9
			i 20 35 34.3			De	iPKP 09 05 40.8
						i	09 05 52.6
						Solomon Islands.	
"	27	Um	iP 20 53 37.3			Um	eP 09 19 07
		Ud	iP 20 54 04.9	"	28	Ud	iP 09 18 23.7
		Japan (h = 70 km).				De	iP 09 17 55.1
"	27	Ud	iP 23 15 25.6			Spain (h = N).	
"	28	Up	iPKP1 00 40 26.0	"	28	Up	iP 11 09 48.0
		Sk	iPKP1 00 40 21.5			Ki	iP 11 10 53.6
		Um	iPKP1 00 40 16.0			Sk	iP 11 10 26.9
		Ud	iPKP1 00 40 28.1			Ud	iP 11 09 55.9
						De	iP 11 09 25.0
"	28	Up	iP 03 13 07.7			Dodecanese Islands (h = N).	
		Ki	iP 03 12 54.7				
			micr sec	"	28	Um	iP 11 40 16.9
		P	Z' 0.1 1.4	"	28	Up	iP 12 39 31.8
		Um	iP 03 13 00.1			i	12 39 34.4
		Ud	iP 03 13 17.1			i	12 39 45.1
		Molucca Sea (h = 150 km).				iPP	12 41 00.8
"	28	Ud	iP 04 27 37.0				micr sec
"	28	Up	iPKP1 05 18 11.2			i	Z' 0.1 1.0
		Ud	iPKP1 05 18 13.2			Mx	E 1.4 15
"	28	Up	iPKP1 05 26 43.8			Mx	N 1.0 14
		Ud	iPKP1 05 26 45.2			Mx	Z 1.5 16
		De	iPKP1 05 26 55.5			Ki	iP 12 39 36.0
		Fiji Islands (h = 610 km).				i	12 39 38.2
"	28	Ud	iP 07 24 14.6			iPP	12 41 06.1
"	28	Um	iP 08 04 36.9				micr sec
"	28	Up	iSKS 09 10 30			i	Z' 0.1 0.9
			micr sec			Mx	E 1.4 9
		Mx	E 1.4 18			Mx	N 1.3 8
		Mx	N 1.3 18			Mx	Z 1.4 9
		Mx	Z 3.1 19			Sk	iP 12 39 56.5
		Ki	iPKP 09 03 26.7			iPP	12 41 35.8
			micr sec			Um	iP 12 39 27.6
		Mx	E 1.1 17			i	12 39 30.0
		Mx	N 1.1 17			iPP	12 40 57.8
		Mx	Z 1.1 18			Ud	iP 12 39 48.0
		Sk	ePKP 09 03 38			i	12 39 50.8
		Um	iPKP 09 03 32.0			iPP	12 41 27.1
		i	09 03 47.2			De	iP 12 39 46.4
		iSKS	09 10 23			i	12 39 49.7
		Ud	iPKP 09 03 41.3			Kirgiz SSR (h = 45 km).	
		i	09 03 56.0			m = 5.5 (Up,Ki).	
		De	iPKP 09 03 46.6	"	28	Ki	iP 13 09 50.8
		i	09 04 01.6	"	28	Ud	iP 14 55 00.1
		Solomon Islands (h = 40 km).				Gulf of California (h = N).	
		M = 5.7 (Up,Ki).		"	28	Ki	iP 15 07 56.0

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

1975				1975										
July	28	Ki	iP	15 38	25.3	July	29	Ki	iP	10 37	06.1			
			i	15 38	32.6			Ud	iP	10 36	07.6			
		Sk	iP	15 38	27.7			De	iP	10 35	37.0			
		Um	iP	15 38	39.7 C			Dodecanese Islands (h = 70 km)						
		Ud	iP	15 38	40.7			"	29	Up	iP	13 33	48.9	
		De	iP	15 38	53.0						ipP	13 33	56.7	
		Gulf of California (h = N).							Ki	iP	13 34	13.3		
"	28	Um	iP	17 04	15.2						ipP	13 34	11.5	
		Ud	i	17 04	20.8									
		Gulf of California (h = N).												
"	28	Um	iPKP	21 43	47.3					Mx	E	1.2	16	
		Solomon Islands (h = 35 km).									Mx	N	1.1	15
"	29	Ud	iP	00 06	38.8					Mx	Z	1.5	16	
		Flores Sea (h = 640 km).							Sk	iP	13 34	19.0		
"	29	Up	iP	01 59	44.4						ipP	13 34	27.1	
		Ki	iP	01 58	59.9				Um	iP	13 33	55.9		
		Sk	eP	01 59	12						ipP	13 34	04.0	
		Um	iP	01 59	22.5						iPP	13 35	49.0	
			i	01 59	29.0						i	13 36	05.4	
		Ud	iP	01 59	33.8				Ud	iP	13 34	03.1		
		Oregon (h = N).									ipP	13 34	11.5	
"	29	Ud	iP	02 43	35.3				De	iP	13 33	52.2		
		De	iP	02 43	03.7						ipP	13 34	00.1	
		Greece.							Pakistan. h = 30 km (Up,Ki,Sk,Um,Ud,De).					
"	29	Up	iP	02 49	32.6 D			"	29	Up	iP	14 11	19.7	
		i		02 49	36.8					Ki	eP	14 10	32	
		iPP		02 51	26.0					Sk	eP	14 11	10	
		iS		02 56	24					Um	iP	14 10	54.3	
										Ud	iP	14 11	25.0	
										De	iP	14 11	42.8	
										Kurile Islands (h = 80 km).				
		P	Z'	0.4	1.4			"	29	Up	iP	15 12	37.2	
		Mx	E	1.2	13									
		Mx	N	4.2	16						Mx	E	1.0	13
		Mx	Z	2.4	13						Mx	N	0.8	12
		Ki	iP	02 49	35.6 D						Mx	Z	1.1	12
		i		02 49	39.5				Ki	eP	15 13	42		
										i	15 13	48.6		
		P	Z'	0.3	1.4									
		Mx	E	1.6	11						Mx	E	1.2	16
		Mx	N	4.0	13						Mx	N	0.6	10
		Mx	Z	0.9	7						Mx	Z	0.6	9
		Sk	iP	02 49	54.8 D				Sk	eP	15 13	15		
		i		02 49	58.7				Um	eP	15 13	10		
		Um	iP	02 49	28.3 D				Ud	iP	15 12	42.9		
		iS		02 56	25					i	15 12	52.4		
		Ud	iP	02 49	48.0 D				De	iP	15 12	10.3		
		De	iP	02 49	46.5 D					i	15 12	17.1		
		Kashmir-Tibet (h = 50 km).							Crete (h = 45 km).					
		m = 5.6, M = 6.2 (Up,Ki).							M = 4.7 (Up,Ki).					
"	29	Ki	iP	02 58	34.3			"	29	Ud	iP	17 39	40.9	
"	29	Ud	iP	19 35	50.6			"	29	Ud	iP	19 35	50.6	

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

1975							1975							
July	29	Sk	iP	20 18	47.4		July	30	Up	iPP	09 39	20.8		
		Um	iP	20 18	43.7				Ki	iP	09 34	45.3		
		Ud	iP	20 18	08.1				Sk	ePP	09 39	13		
		Albania (h = 55 km).							Ud	iPP	09 39	38.0		
		Timor (h = N).												
"	29	Up	iP	21 24	28.8		"	30	Up	iPP	10 42	19.1		
		Ki	eP	21 25	14				Ki	iP	10 37	43.1		
		Sk	iP	21 24	39.9				Sk	iPP	10 42	10.1		
		Um	iP	21 24	53.2				Ud	iP	10 38	03.3		
			i	21 24	57.5					iPP	10 42	36.9		
		Ud	iP	21 24	22.4				De	iP	10 38	07.2		
			i	21 24	26.3					iPP	10 42	11.4		
		Ascension Island (h = N).							Timor (h = 20 km).					
"	29	Up	iP2	22 25	28.7		"	30	Up	iPKP2	15 32	03.7		
		Sk	iP2	22 26	11.8				Sk	iPKP1	15 31	53.8		
		Um	iP1	22 26	02.8				Um	iPKP1	15 31	47.4		
			iP2	22 26	07.3				Ud	iPKP1	15 31	59.4		
		Ud	iP1	22 25	25.7				De	iPKP1	15 32	09.4		
			iP2	22 25	32.7									
		De	eP2	21 24	56		"	30	Up	iP1	16 30	17.3		
		Albania (h = 50 km).								iP2	16 30	19.3		
"	30	Up	iPKP1	06 55	10.1					iS	16 34	25		
		Ud	iPKP1	06 55	11.7						micr	sec		
"	30	Ki	iP	07 01	25.7					P2	Z'	0.1 1.5		
		Halmahera (h = N).								Mx	E	0.9 10		
										Mx	N	0.9 9		
"	30									Mx	Z	1.1 10		
"	30	Up	iP	09 31	33.1				Ki	eP1	16 31	19		
			i(PP)	09 35	01.3						micr	sec		
			iPP	09 35	51.7					Mx	E	1.0 9		
			iSKS	09 42	10					Mx	N	0.9 11		
										Mx	Z	0.9 11		
		Mx	E	5.4	27				Sk	iP2	16 31	01.3		
		Mx	N	11	26				Um	iP1	16 30	45.8		
		Mx	Z	6.9	26					iP2	16 30	47.4		
		Ki	iP	09 31	18.6					iS	16 35	27		
			iSKS	09 41	59				Ud	iP1	16 30	30.8		
										iP2	16 30	32.3		
		P	Z'	0.1	1.3					i	16 30	36.8		
		Mx	E	2.4	18				De	iP1	16 29	58.6		
		Mx	N	16	24				Turkey (h = 20 km).					
		Mx	Z	1.9	20				In average, P2 - P1 = 1.8 sec.					
		Sk	eP	09 31	40		"	30	Um	i(SK1)	20 18	09.5		
			iPP	09 35	43.1				De	iPKP1	20 15	40.6		
			e	09 39	13									
		Um	iP	09 31	21.0		"	30	Up	iP	22 52	40.9		
			iPP	09 35	39.5				Um	iP	22 52	29.2		
			iSKS	09 42	01				Ud	iP	22 52	50.0		
		Ud	iP	09 31	37.6				Mindoro (h = 60 km).					
			i(PP)	09 35	03.5									
			iPP	09 36	11.9				"	31	Um	iP	02 37	43.8
		De	iP	09 31	50.8				Sea of Japan (h = 35 km).					
			i(PP)	09 35	49.5									
		Timor (h = 15 km).					"	31	Um	iPKP	03 53	18.4		
		M = 6.4 (Up,Ki).							De	iPKP	03 53	32.2		

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

1975
July 31 Ud i 05 16 45.0
De iP 05 16 02.3

" 31 Ud iP 07 33 54.9
De iP 07 33 19.1
Crete (h = 45 km).

" 31 Up iP1 11 14 35.5
iP2 11 14 38.5
iPP 11 16 02.7
i 11 16 23.9
micr sec
P2 Z' 0.1 1.0
Mx E 1.0 13
Mx N 0.5 10
Mx Z 0.7 11
Ki iP1 11 14 37.5
micr sec
Mx E 0.8 8
Mx N 1.3 13
Mx Z 0.9 8
Sk iP2 11 15 00.1
Um iP1 11 14 31.6
i 11 15 46.0
Ud iP1 11 14 48.6
iP2 11 14 52.3
i 11 14 55.1
De iP2 11 14 49.9
Tadzhik SSR (h = 40 km).
M = 5.0 (Up,Ki).

" 31 ✓ Up iP 15 31 34.3
micr sec
Mx E 1.6 27
Mx N 2.2 24
Mx Z 2.3 27
Ki iP 15 31 26.7
micr sec
Mx E 2.0 21
Mx Z 2.1 19
Ud iP 15 31 43.5
iPP 15 36 09.3
Sumbawa Island (h = 50 km).
M = 5.6 (Up,Ki).

" 31 ✓ Up ePKP 16 43 10
micr sec
Mx E 1.1 19
Mx N 1.1 20
Mx Z 1.2 22
Ki iP 16 38 55.1
iPKP 16 42 59.2
micr sec
Mx E 1.2 18
Mx N 1.3 19
Mx Z 1.7 19
(cont.)

1975
July 31 (cont.)
Sk ePKP 16 43 08
Um iP 16 39 07.4
iPKP 16 43 03.9
Ud iPKP 16 43 12.1
De iPKP 16 43 18.0
i 16 43 22.5
New Britain (h = 55 km).
M = 5.7 (Up,Ki).

" 31 Up iPKP 16 45 05.9
Ki ePKP 16 44 54
Sk ePKP 16 45 03
Um iPKP 16 45 01.9
Ud ePKP 16 45 08.1
De iPKP 16 45 13.2
i 16 45 17.9
New Britain (h = 40 km).

" 31 Ki iPKP 21 46 40.9
Ud iPKP 21 46 24.3
South Sandwich Islands
(h = 150 km).

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Máy 17, 1977



SEISMOLOGICAL INSTITUTE
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SWEDEN

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ,

UDDEHOLM and DELARY

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

AUGUST 1 - 31, 1975

1975	Aug.	1	Ki	iP	02 24 06.7	1975	Aug.	1	Up	iP	17 13 51.4	C	
			Ud	eP	02 25 07				Ki	iP	17 12 58.8	C	
			Kamchatka (h = 15 km).							P	Z'	0.1 0.7	
"		1	Ud	iP	04 04 58.4				Sk	iP	17 13 35.2		
			Kurile Islands (h = N).						Um	iP	17 13 23.4	C	
"		1	Up	iP	04 09 07.3				Ud	iP	17 13 55.0	C	
			Ki	iP	04 08 22.4				De	iP	17 14 16.3		
			Um	iP	04 08 42.8				Kamchatka (h = N).				
			Ud	iP	04 09 13.7	"		1	Ud	iP	20 31 40.6		
"		1	Ud	iP	10 31 49.1				California (h = 10 km).				
"		1	Ud	iP	14 15 15.0	"		1 1/2	Up	iP	20 31 56.7		
			ipP		14 15 21.5				i		20 31 59.5		
			Vancouver Island.						iS		20 41 38		
			h = 20 km (Ud).								micr sec		
"		1	Up	iP	14 54 10.6				P	Z'	0.4 1.0		
					micr sec				Mx	E	1.8 16		
					Z' 0.1 1.0				Mx	N	3.2 20		
			Ki	iP	14 53 42.8				Mx	Z	4.1 20		
			Sk	iP	14 54 08.0				Ki	iP	20 31 19.8		
			Um	iP	14 53 55.7				iS		20 40 28		
			Ud	iP	14 54 17.2				iP'P'		20 59 27.7		
			De	eP	14 54 26						micr sec		
			Mariana Islands (h = 190 km).						P	Z'	0.5 1.6		
"		1	De	i(P)	16 07 50.5				Mx	E	2.2 14		
									Mx	N	2.9 16		
"		1	Up	iP	16 39 01.3				Mx	Z	2.8 16		
			Ki	eP	16 38 26				Sk	iP	20 31 30.5		
			Sk	iP	16 38 36.1				Um	iP	20 31 40.8		
			Um	iP	16 38 47.0				iS		20 41 06		
			Ud	iP	16 38 55.5				Ud	iP	20 31 49.0		
			California (h = 5 km).						De	iP	20 32 07.3		
									California (h = 15 km).				
									m = 6.4, M = 5.7 (Up,Ki).				

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

1975				1975					
Aug.	2	Um	iP	17 27 33.0	Aug.	3	Up	iP	01 14 50.0
			i	17 27 38.4			Ki	eP	01 14 13
		Gulf of California (h = N).					Um	iP	01 14 33.1
"	2	Up	iP	17 36 14.0			Ud	iP	01 14 41.9
		Ud	iP	17 36 06.3			California (h = 10 km).		
		California (h = 5 km).			"	3	Ud	iP	02 58 45.8
"	2	Ud	iP	17 55 02.2			California (h = 5 km).		
		California (h = 5 km).			"	3	Up	iP2	06 47 20.4
"	2	Up	iPKP1	18 03 45.5			Ki	eP2	06 46 41
		Ud	iPKP1	18 03 46.6			Um	iP2	06 47 05.0
"	2	Up	iP	20 34 01.0			Ud	iP1	06 47 08.3
				micr sec				iP2	06 47 11.3
		P	Z'	0.1 1.1			California (h = 5 km).		
		Ki	iP	20 33 24.0	"	3	Um	iP	06 48 36.5
				micr sec			Ud	iP	06 49 07.1
		P	Z'	0.1 1.3	"	3	Up	iP	07 27 50.0
		Sk	iP	20 33 35.0	"	3	Ud	iP	07 36 05.3
		Um	iP	20 33 44.8	"	3	Um	iP	07 54 07.3
		Ud	iP	20 33 53.4	"	3	Up	iP	10 46 03.3
		De	eP	20 34 11					micr sec
		California (h = 5 km).					Mx	Z	0.8 20
		m = 5.8 (Up,Ki).					Ki	iP	10 46 09.1
"	2	Ud	iP	20 47 25.9			Sk	eP	10 45 48
		California (h = 5 km).					Um	iP	10 46 08.8
"	2	Up	iP	21 10 48.8 D				i	10 46 22.2
				micr sec			Ud	iP	10 45 50.2
		P	Z'	0.1 1.0			De	iP	10 45 58.0
		Ki	iP	21 10 11.4 D			Leeward Islands (h = 35 km).		
				micr sec	"	3	Up	i(P)	11 04 48.5
		P	Z'	0.1 1.0	"	3	Ud	eP	12 09 02
		Sk	iP	21 10 22.2 D			Greece (h = 15 km).		
		Um	iP	21 10 32.1 D	"	3	Up	iSKS	12 24 13
		Ud	iP	21 10 41.3 D				iS	12 25 20
		De	iP	21 10 58.6 D				i	12 27 01
		California (h = 5 km).							micr sec
		m = 5.9 (Up,Ki).					Mx	E	1.4 19
"	2	Up	iP	21 51 47.1			Mx	N	1.2 17
		Ud	iP	21 51 38.7			Mx	Z	4.6 18
		California (h = 5 km).					Ki		micr sec
"	2	Ki	iP	23 04 55.7			Mx	E	2.5 23
			i	23 05 07.0			Mx	N	2.1 20
		Um	i	23 04 43.7			Mx	Z	2.9 29
"	3	Up	i(P)	00 24 14.9			(cont.)		

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

1975				1975			
Aug.		(cont.)		Aug.		(cont.)	
	3	Um iSKS	12 24 15		4	Ki	micr sec
		iS	12 25 36			i	Z' 0.1 1.0
		i	12 27 18			Sk iP	23 31 44.3
		Peru (h = 15 km).				Um iP	23 31 30.0 C
		M = 5.8 (Up,Ki).				Ud iP	23 31 54.4
						i	23 32 09.4
"	3	Up iPKP2	13 51 23.5			De iP	23 32 05.9
		Ki iPKP1	13 51 17.2			Volcano Islands (h = 90 km).	
		iPKP2	13 51 22.8	"	5	Um iPKP	03 13 12.9
		Um iPKP2	13 51 21.9			De iPKP	03 13 26.6
		Ud iPKP2	13 51 29.8			Solomon Islands (h = 55 km).	
		West of Macquarie Island		"	5	Up iPKP1	03 56 47.7
		(h = N).				Um iPKP1	03 56 35.8
"	3	De iP	17 09 33.8			i	03 56 37.8
"	3	Ud iPKP1	21 18 11.4			Ud iPKP1	03 56 48.3
		De iPKP1	21 18 23.2			De iPKP1	03 56 58.2
"	4	Up iP	08 31 26.3	"	5	De iPKP	04 58 23.6
		Ki iP	08 31 28.4 C			New Britain (h = 140 km).	
			micr sec	"	5	Um iP	12 00 12.6
		Sk P	Z' 0.1 1.0			Halmahera (h = 110 km).	
		Um iP	08 31 50.0	"	5	Ud iP	13 45 34.6
		Ud iP	08 31 42.9 C	"	5	Up iRg	14 45 29.5
		De iP	08 31 42.0 C	"	5	De iPKP	20 08 28.0
		Sinkiang, China (h = 60 km).				Solomon Islands (h = 60 km).	
"	4	Up i(P)	12 04 48.9 C	"	5	Sk eP	20 39 42
"	4	Ud iP	12 30 12.4			Ud iP	20 39 43.1
"	4	Up iP	17 46 48.5	"	6	Up iP	01 00 40.8
		Ki iP	17 46 36.9			micr sec	
		Um iP	17 46 38.3			Mx E	0.7 13
		Ud iP	17 46 56.7			Mx N	0.7 13
		Celebes Sea (h = 610 km).				Mx Z	0.9 13
"	4	Up iP	19 10 48.6			Ki eP	01 01 30
		Ki i	19 10 26.5			Sk eP	01 01 24
		Ud iP	19 10 54.0			Um iP	01 00 53.5
		Kurile Islands (h = N).				Ud iP	01 00 57.8
"	4	Ud iP	22 13 22.0			De i	01 01 17.2
		i	22 13 32.1			Caucasus (h = 20 km).	
"	4	Up iP	23 31 48.5	"	6	Up iP	04 02 13.4
		i	23 32 03.9			micr sec	
		Ki iP	23 31 16.9 C			P	Z' 0.1 1.1
		i	23 31 31.1			Ki iP	04 01 36.2
		(cont.)				Sk iP	04 01 46.1
						(cont.)	

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

1975				1975				
Aug.	6	(cont.)		Aug.	6	Up	iP	21 08 00.3
		Um	iP			Ud	iP	21 08 16.8
		Ud	iP			De	iP	21 08 13.8
		De	iP			Afghanistan-USSR (h = 230 km)		
		California (h = 5 km).		"	6	Up	iP	21 48 02.6 D
"	6	Ki	iPKP					micr sec
		Um	iPKP				P	Z' 0.8 0.9
		De	iPKP			Ki	iP	21 47 19.4 D
		New Hebrides Islands						micr sec
		(h = 140 km).					P	Z' 0.8 0.8
"	6	Up	iP			Sk	iP	21 47 54.7 D
			iS			Um	iP	21 47 38.3 D
						Ud	iP	21 48 09.8 D
						De	iP	21 48 26.8 D
							iPcP	21 48 48.1
			P			Sea of Japan (h = 230 km).		
			Z'			m = 6.4 (Up,Ki).		
			Mx					
			E					
			N					
			Z					
		Ki	iP			6	Up	e(PP)
							iPP	22 43 10
								22 43 42.0
								micr sec
			P				Mx	E 3.1 20
			Z'				Mx	N 7.5 20
			E				Mx	Z 5.7 22
			N			Ki	i	22 43 06.9
			Z					micr sec
		Sk	iP				Mx	E 3.5 17
		Um	iP				Mx	N 5.5 18
			i				Mx	Z 4.6 18
			iS			Sk	iPP	22 43 33.2
		Ud	iP			Um	iPP	22 43 17.4
		De	iP			Ud	i(PP)	22 43 30.1
			i				iPP	22 43 46.2
		North Atlantic Ocean				De	iPP	22 44 02.5
		(h = N).				Admiralty Islands (h = N).		
		m = 5.9, M = 4.8 (Up,Ki).				M = 6.2 (Up,Ki).		
"	6	Up	iP			7	Up	iP
		Ud	eP				Sk	eP
		North Atlantic Ocean					Ud	iP
		(h = N).					De	iP
							Greece (h = N).	
"	6	Sk	ePKP1			"	7	De
		Um	iPKP1					iPKP1
		Ud	iPKP1				Fiji Islands (h = 530 km).	
		De	iPKP2			"	7	De
								iPKP
"	6	Ud	i(P)				Solomon Islands (h = 55 km).	
"	6	Up	iPKP1			"	7	Up
		Sk	ePKP					iP
		Um	iPKP					iPn
		Ud	iPKP1				(cont.)	
		De	iPKP1					
		Fiji Islands (h = 650 km).						

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

1975						1975				
Aug.	7	(cont.)				Aug.	7	(cont.)		
		Up	ipP	04 05 11.1				De	ipP	15 35 46.4
				micr sec				Strait of Gibraltar.		
			P	Z' 0.1 1.0				h = 100 km (Ki,Um,Ud,De).		
		Ki	iP	04 03 37.2 C		"	7	Ud	iSgl	17 21 00.9
				micr sec				Southwest Norway.		
			P	Z' 0.1 0.6				Origin time = 17 19 11.		
		Sk	iP	04 04 08.4 C				By combination with Bergen		
			iPn	04 05 25.7				readings.		
		Um	iP	04 03 37.9 C		"	7	Up	iPKP1	18 14 17.9
		Ud	iP	04 04 09.2 C				Ud	iPKP1	18 14 19.9
		De	iP	04 04 16.2 C		"	7	Up	iP	18 22 58.2 C
			ipP	04 05 42.3				Um	iP	18 22 37.9 C
		Kazakh SSR.						Ud	iP	18 23 06.6 C
		m = 5.7 (Up,Ki).						De	eP	18 23 20
		Underground explosion.				"	7	Ki	i(P)	20 08 45.3
"	7	Ki	eSn	07 43 30		"	7	Ud	iP	20 10 18.1
			i	07 43 50.5				De	iP	20 10 57.0
		Um	iSgl	07 44 19.9		"	7	Up	iPKP1	20 30 29.3
		White Sea region,						iSKP1	20 33 14.0	
		65.2°N, 38.2°E.						iSKKP	20 41 43.3	
		Origin time = 07 40 14.						micr sec		
		m = 4.8, M _L = 3.8 (Um).						PKP1	Z' 0.1 1.3	
		Solution from Helsinki						SKP1	Z' 0.1 1.4	
		regional bulletin.					Ki	iPKP	20 30 19.3	
"	7	Ud	iP	13 28 03.1			iSKP1	20 32 51.7		
"	7	Up	iPKP	13 37 08.0			micr sec			
		Um	iPKP	13 37 04.1			PKP	Z' 0.1 1.0		
		Ud	iPKP	13 37 09.6			SKP1	Z' 0.1 1.3		
		De	ePKP	13 37 20			Sk	i(PKP)	20 30 23.7	
"	7	Ki	eP	13 42 17			iPKP	20 30 30.3		
		Sk	i	13 47 07.6			iSKP1	20 33 07.9		
		De	ePP	13 47 01			Um	i(PKP)	20 30 16.7	
		West Irian (h = 70 km).					i(PKP)	20 30 23.2		
"	7	Up	iP	15 35 59.7			iPKP	20 30 26.4		
		Ki	iP	15 37 01.7 D			iSKP1	20 33 02.9		
			ipP	15 37 24.3			Ud	iPKP1	20 30 30.8	
				micr sec			iSKP1	20 33 15.8		
			P	Z' 0.1 0.8			iSKKP	20 41 40.9		
		Sk	iP	15 36 15.1			De	iPKP1	20 30 41.4	
		Um	iP	15 36 34.0 D			ipPKP1	20 33 09.5		
			ipP	15 36 56.6			iSKP1	20 33 24.3		
			i	15 37 18.5			Tonga-Kermadec Islands.			
		Ud	iP	15 35 50.0 D			h = 650 km (De).			
			ipP	15 36 12.3		"	7	Ud	iP	20 49 49.2
		De	iP	15 35 25.3 D						
			i	15 35 26.8						
		(cont.)								

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

1975				1975					
Aug.	7	Up	iP	22 51 45.0	Aug.	8	Ud	eP	10 07 06
		Ki	iP	22 52 34.3	"	8	Ki	iP	11 52 37.1
		Sk	iP	22 52 19.9			Sk	iP	11 53 07.8
		Um	iP	22 52 08.1			Um	iP	11 53 08.5
		Ud	iP	22 51 55.2			Ud	iP	11 53 35.1
		De	iP	22 51 31.9			De	iP	11 54 00.4
		Ethiopia (h = 35 km).					Alaska (h = N).		
"	8	Ud	ePKP	00 58 12	"	8	Sk	eP	12 49 28
		De	iPKP	00 58 17.9			De	iP	12 49 39.8
		Solomon Islands (h = N).							
"	8	Um	iP	01 14 50.4	"	8	Ud	iPKP1	13 02 51.2
		Ud	iP	01 14 21.4			De	iPKP1	13 03 02.9 D
							Tonga-Kermadec Islands (h = 240 km).		
"	8	Ud	iP	02 18 33.9	"	8	Up	eP	14 43 32
		Iran (h = 45 km).					Ki	iP	14 42 36.2
"	8	De	iPKP	03 13 43.1			Sk	eP	14 43 04
		New Ireland (h = 40 km).					Um	iP	14 43 02.8
"	8	Ki	eP	03 15 30			Ud	iP	14 43 26.9
		Ud	iP	03 15 54.1			De	iP	14 43 49.9
		Mindanao (h = 35 km).							
"	8	Sk	iPKP	04 59 17.1	"	8	Ud	iPKP1	14 50 26.4
		Um	iPKP	04 59 12.8			De	iPKP1	14 50 37.1
		Ud	ePKP	04 59 21			Tonga-Kermadec Islands (h = 520 km).		
		De	ePKP	04 59 28	"	8	Um	iP	14 53 07.7
		New Hebrides Islands (h = 60 km).							
"	8	Ud	eP	06 42 51	"	8	Ud	ePKP	16 53 08
		De	eP	06 43 02			De	iPKP	16 53 13.2
							i		16 53 24.7
"	8	Up	iP	07 12 33.7			Solomon Islands (h = 60 km).		
			i	07 12 35.7	"	8	Up	iP	17 19 40.4
		Ki	eP	07 11 57			iS		17 29 30
		Sk	iP	07 12 07.4					micr sec
		Um	iP	07 12 17.7			Mx	E	1.7 22
		Ud	iP	07 12 25.7			Mx	N	2.6 21
		De	iP	07 12 43.3			Mx	Z	1.4 13
		California (h = 10 km).					Ki	iP	17 19 16.9
"	8	Up	iPKP2	07 29 11.1					micr sec
		Sk	iPKP1	07 29 03.7			Mx	E	1.6 14
		Ud	iPKP1	07 29 08.3			Mx	N	1.3 15
		De	iPKP1	07 29 19.8			Mx	Z	1.5 13
"	8	Sk	iP	08 25 40.0			Sk	iP	17 19 46.1
		Ud	eP	08 25 06			Um	iP	17 19 25.3
		De	eP	08 24 35			iS		17 29 02
		Greece (h = 70 km).					Ud	iP	17 19 49.2
							De	eP	17 19 58
							Formosa (h = 15 km).		
							M = 5.6 (Up,Ki).		

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

1975				1975				
Aug.	8	Up	iP	18 18 01.9	Aug.	9	(cont.)	
		Ki	iP	18 17 23.4			Ki	micr sec
		Sk	eP	18 17 56			Mx	Z 1.7 17
		Um	iP	18 17 40.1			Sk	iP 07 48 19.7
		Ud	iP	18 18 09.2			Um	iP 07 48 03.7
		De	iP	18 18 23.7				iS 07 58 32
				Japan (h = 50 km).			Ud	iP 07 48 23.9
"	8	Ud	eP	18 35 12			De	iP 07 48 30.0
				Carlsberg Ridge (h = N).			Mindanao (h = 50 km).	
							M = 5.6 (Up,Ki).	
"	8	Up	eP	20 24 11	"	9	Ud	iP 11 09 57.0
		Ki	iP	20 23 34.0	"	9	Ki	eP 18 10 42
		Sk	eP	20 24 05			Ud	iP 18 11 09.3
		Um	iP	20 23 52.4	"	9	Ud	eP 22 06 57
		Ud	iP	20 24 17.6	"	9	Um	eP 22 36 38
		De	eP	20 24 30	"	9	Um	iP 23 03 23.6
				Japan (h = N).	"	10	Sk	ePKP1 00 11 13
"	8	Up	iPcP	21 18 10.1			Um	iPKP1 00 11 07.9
		Ki	iP	21 17 39.2			Ud	iPKP2 00 11 33.0
		Sk	iPcP	21 18 00.3	"	10	Up	iP 00 20 28.5
		Um	iPcP	21 17 52.8			Ki	iP 00 20 30.9
		Ud	iP	21 17 34.6			Sk	iP 00 20 16.0
			iPcP	21 18 12.5			Um	iP 00 20 32.1
		De	iPcP	21 18 25.7			Ud	iP 00 20 19.0
				Kamchatka (h = 70 km).			De	iP 00 20 21.2
"	8	Sk	ePKP	22 01 41			Colombia (h = 50 km).	
		Um	iPKP	22 01 35.9	"	10	Ud	iPKP1 00 40 03.8
		Ud	ePKP	22 01 45			De	iPKP1 00 40 14.8
		De	iPKP	22 01 50.8	"	10	De	iP 03 23 35.1
				Solomon Islands (h = 70 km).	"	10	Up	iP 03 23 43.3
"	9	Up	ePKP	06 54 34				micr sec
		Ki	iPKP	06 54 21.0			P	Z' 0.1 1.4
		Sk	iPKP	06 54 30.5			Ki	iP 03 22 50.0
		Um	iPKP	06 54 27.6			Sk	iP 03 23 23.9
		Ud	iPKP	06 54 36.1			Um	iP 03 23 16.0
		De	i(PKP)	06 54 35.1			Ud	iP 03 23 44.7
			iPKP	06 54 41.7			De	iP 03 24 05.9
				Loyalty Islands (h = 5 km).	"	10	Aleutian Islands (h = 15 km).	
"	9	Up	iP	07 48 16.0			Ki	eP 03 39 31
		i		07 48 25.4			Um	iP 03 39 19.5
				micr sec			Ud	iP 03 39 38.1
		Mx	E	1.9 20			De	iP 03 39 35.3
		Mx	N	2.5 23			Afghanistan-USSR (h = 20 km).	
		Mx	Z	3.1 18				
		Ki	iP	07 47 57.3				
				micr sec				
		Mx	E	1.4 17				
		Mx	N	1.2 18				
				(cont.)				

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

1975				1975					
Aug.	10	De	ePKP	03 47 27	Aug.	10	(cont.)		
				Solomon Islands (h = 55 km).		Um	i(PP)	10 43 52.5	
							iPP	10 44 20.6	
"	10	Sk	ePKP	04 29 23			iSKS	10 50 09	
		Um	iPKP	04 29 17.8			i	10 51 02	
		Ud	ePKP	04 29 26			iPKKP	10 55 01.4	
		De	iPKP	04 29 32.3			iPKKP	10 55 14.0	
			i	04 29 42.5			iP'P'	11 03 26.5	
				Solomon Islands (h = 35 km).		Ud	iP	10 39 30.1	
							ipP	10 40 24.0	
"	10	De	iPKP	04 32 06.9			i(PP)	10 42 38.7	
				Solomon Islands (h = 25 km).			iPP	10 43 48.2	
							iPKKP	10 55 32.0	
"	10	Ud	iPKP1	04 53 24.6		De	iP	10 39 25.8	
		De	iPKP1	04 53 36.1			ipP	10 40 18.6	
							i(PP)	10 42 47.7	
"	10	Ud	iPKP1	07 13 42.4			iPP	10 43 41.6	
		De	iPKP1	07 13 53.7			iPKKP	10 55 37.4	
				Tonga-Kermadec Islands			iP'P'	11 03 37.7	
				(h = 470 km).				Argentina.	
"	10	Up	ipP	10 40 31.0				h = 210 km (Sk,Ud,De).	
			i(PP)	10 42 37.1				m = 6.3, M = 5.7 (Up,Ki).	
			iPP	10 44 01.8				(PP) denote early PP	
			iSKS	10 49 58				arrivals.	
			i	10 50 48				Extremely clear PKKP phases.	
			iPKKP	10 55 23.3					
			iP'P'	11 03 25.2	"	10	Sk	iP	11 22 13.4
				micr sec	"	10	Ki	iP	16 11 08.7
				pP Z' 0.3 2.1			Sk	eP	16 11 26
				PP Z' 0.2 1.2			Um	iP	16 11 09.2
				Mx E 1.4 18			Ud	iP	16 11 23.3
				Mx N 1.1 21					South of Java (h = 45 km).
				Mx Z 2.3 19	"	10	Up	iP	17 41 50.9
		Ki	i(PP)	10 43 54.6				i	17 41 57.3
			iPP	10 44 27.1					micr sec
			iSKS	10 50 13				P Z' 0.1 1.1	
			i	10 51 09				Mx N 1.1 20	
			iPKKP	10 54 58.5				Mx Z 1.6 28	
			iPKKP	10 55 09.7			Ki	iP	17 41 34.1
				micr sec				i	17 41 38.0
				PP Z' 0.5 1.9					micr sec
				Mx E 1.4 17				P Z' 0.1 1.0	
				Mx N 2.0 18				Mx E 1.1 20	
				Mx Z 1.9 18				Mx N 1.0 19	
		Sk	iP	10 39 33.5				Mx Z 1.3 19	
			ipP	10 40 27.4			Sk	iP	17 41 55.0
			i(PP)	10 42 29.4			Um	iP	17 41 39.4
			iPP	10 43 55.9				i	17 41 43.5
			iPKKP	10 55 12.5				iS	17 52 32
			iPKKP	10 55 29.5			Ud	iP	17 41 58.9
			iP'P'	11 03 33.6				i	17 42 03.8
				(cont.)					(cont.)

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

1975

Aug. 10 (cont.)
 De iP 17 42 05.2
 i 17 42 10.5
 Philippine Islands
 (h = 110 km).
 m = 6.1, M = 5.4 (Up,Ki).
 Double P, in average
 4.9 sec apart.

" 10 Ud iP 20 55 30.6

" 10 Up iP 21 00 22.9
 Ki iP 21 01 35.7
 Sk iP 21 00 57.1
 Um iP 21 01 00.9
 Ud iP 21 00 23.5
 De iP 20 59 46.3
 Sicily (h = 210 km).

" 10 Up iPKP 22 59 06.4
 Ki ePKP 22 58 51
 Sk ePKP 22 59 00
 Um iPKP 22 58 50.0
 Ud iPKP 22 59 06.3
 De ePKP 22 59 14

" 11 Ud iP 00 18 32.6
 Caspian Sea (h = N).

" 11 Up iPKP1 02 50 33.9
 Ud iPKP1 02 50 35.8
 De iPKP1 02 50 46.7

" 11 Ud iP 02 57 58.0

" 11 Ki iPKP 16 40 45.4
 New Hebrides Islands
 (h = 190 km).

" 11 Up iPgl 18 30 30.9
 iSn 18 31 27.6
 i 18 31 49.6
 iSgl 18 32 09.2
 i 18 32 14.6
 Ki iPgl 18 28 25.5 C
 iSgl 18 28 36.6
 Sk iPn 18 29 33.8
 iPgl 18 29 51.7
 iSn 18 30 37.4
 iSgl 18 31 08.2
 Um iPn 18 29 07.5
 iPgl 18 29 15.4
 (cont.)

1975

Aug. 11 (cont.)
 Um iSn 18 29 49.8
 iS* 18 30 03.9
 iSgl 18 30 05.3
 Ud iSn 18 31 38.7
 iSgl 18 32 24.2
 De iSn 18 33 00.3
 iSgl 18 34 06.9
 Swedish Lapland,
 67.5°N, 22.5°E.
 Origin time = 18 28 09.
 m = 4.7, M_L = 3.6 (Up,Sk,Um,
 Ud,De).
 Felt.

" 11 De iP 20 49 26.0

" 11 Ud iPKP1 21 06 50.9
 De iPKP1 21 07 00.7

" 12 Ud iPKP 01 31 00.7
 De iPKP 01 31 09.4
 Tonga Islands (h = 200 km).

" 12 Ki eP 02 22 22
 Um iP 02 22 35.7
 Japan (h = 80 km).

" 12 Ud iP 03 37 29.7
 Japan (h = N).

" 12 Up iP 09 02 49.2
 Ki iP 09 02 15.1
 micr sec
 P Z' 0.1 1.0
 Sk iP 09 02 45.5
 Um iP 09 02 29.6
 Ud iP 09 02 56.5
 De iP 09 03 10.0
 Japan (h = 390 km).

" 12 Ud eP 09 05 25

" 12 Ki iP 10 41 55.2
 Sk e(pP) 10 42 15
 Ud iP 10 42 02.0
 De eP 10 42 02
 Kirgiz SSR (h = 35 km).

" 12 Ud iP 13 04 27.5
 Kurile Islands (h = 140 km).

" 12 ✓ Up iP 14 32 10.4
 (cont.)

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

1975

Aug. 12 (cont.)
 Up iS 14 41 19.1
 micr sec
 P Z' 0.6 0.8
 Mx E 7.7 17
 Mx N 5.4 18
 Mx Z 6.0 21
 Ki iP 14 31 36.6
 iS 14 40 22.9
 micr sec
 P Z' 0.7 0.8
 Mx E 5.4 17
 Mx N 7.7 19
 Mx Z 5.3 18
 Sk iP 14 32 07.0
 ipP 14 33 46.2
 Um iP 14 31 50.9
 ipP 14 33 31.0
 iS 14 40 44.5
 Ud iP 14 32 18.1
 ipP 14 34 00.1
 iS 14 41 38.3
 De iP 14 32 29.8
 iS 14 42 02.1
 Japan.
 h = 460 km (Sk,Um,Ud).
 m = 6.2, M = 6.1 (Up,Ki).

" 12 Up iP 15 07 39.7
 micr sec
 P Z' 0.1 1.0
 Ki iP 15 06 37.4
 micr sec
 P Z' 0.1 0.8
 Sk iP 15 07 22.9
 Um iP 15 07 06.3
 Ud iP 15 07 45.9
 De iP 15 08 12.0
 Siberia (h = N).
 m = 5.7 (Up,Ki).

" 12 Ud iP 16 11 32.2
 Turkey (h = 110 km).

" 12 Up iSgl 16 57 43.3
 Sk e 16 56 33
 iSgl 16 56 47.6
 Ud iPn 16 55 29.7
 iSgl 16 56 41.3
 De iSgl 16 57 40.7
 West coast of Norway,
 60.7°N, 4.9°E.
 (cont.)

1975

Aug. 12 (cont.)
 Origin time = 16 54 27.
 m = 4.3, M_L = 2.7 (Ud).
 By combination with Bergen
 and Kongsberg readings.
 " 12 Ki iP 23 30 09.5
 Um iP 23 30 36.1
 Ud iP 23 31 01.6
 Aleutian Islands (h = 170 km)
 " 13 Ud iPKP1 01 01 46.5
 De iPKP1 01 01 58.2
 Tonga Islands (h = 110 km).
 " 13 Ki ipP 05 18 48.3
 Um iP 05 18 45.0
 ipP 05 18 51.6
 Dominican Republic.
 h = 20 km (Um).
 " 13 Up iP 06 19 57.6
 Ki iP 06 19 25.5
 Um iP 06 19 38.4
 Ud iP 06 20 00.7
 Mariana Islands (h = 40 km).
 " 13 Up ipP 10 11 01.0
 micr sec
 Mx Z 0.9 22
 Ki eP 10 10 23
 ipP 10 10 33.4
 micr sec
 Mx E 0.5 12
 Mx N 0.8 14
 Mx Z 0.8 15
 Sk eP 10 10 01
 Um iP 10 10 42.6
 Ud ipP 10 10 36.3
 Iceland (h = N).
 " 13 Ud iP 10 31 58.0
 Tadzhik SSR (h = 5 km).
 " 13 Up iP 14 04 01.4
 Ki iP 14 03 15.8
 Um iP 14 03 36.7
 Ud iP 14 04 07.4
 Kurile Islands (h = N).
 " 13 Um iP 19 06 50.7
 Ud iP 19 07 12.9

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

1975				1975					
Aug.	13	Um	iP	21 02 10.3	Aug.	14	Ki	iP	15 25 27.6
		Ud	iP	21 02 37.2			Sk	iP	15 25 46.7
"	13	Ud	iP	21 18 37.2			Um	iP	15 25 20.3
"	13	Um	i(P)	22 19 29.1			Ud	iP	15 25 38.3
"	13	Up	iP	23 19 56.4	"	14	Up	iPKP2	17 28 41.0
		ipP		23 20 59.3					micr sec
		Ki	iP	23 19 48.0			Ki	iPKP1	17 28 07.9
		ipP		23 20 49.0				ipPKP1	17 28 26.7
		Sk	iP	23 19 39.0			Sk	iPKP1	17 28 20.3
		ipP		23 20 39.7			Um	iPKP1	17 28 15.0 C
		Um	iP	23 19 54.6				iPKP2	17 28 24.3
		ipP		23 20 54.3				ipPKP1	17 28 34.9
		Ud	iP	23 19 46.9			Ud	iPKP2	17 28 45.3
		ipP		23 20 49.4			De	iPKP2	17 28 57.0
		De	eP	23 19 56			North Island, New Zealand.		
		Guatemala.					h = 70 km (Ki,Um).		
		h = 260 km (Up,Ki,Sk,Um,Ud).			"	14	Up	iPKP	18 03 00.2
"	14	Ud	iP	02 38 43.7			Ki	iPKP	18 02 50.3
"	14	Ud	iP	02 41 42.6			Sk	iPKP	18 03 00.4
		Sea of Japan (h = 260 km).					Um	iPKP	18 02 54.7
"	14	Up	iP	04 00 30.1			Ud	iPKP	18 03 03.2
		Sk	iP	04 01 07.7			De	iPKP	18 03 08.3
		Um	iP	04 01 06.2			New Guinea (h = 45 km).		
		Ud	iP	04 00 36.9	"	14	Up	iP	18 20 50.9 C
"	14	Ud	iPKP1	04 07 55.0			ipP		18 21 05.8
		De	iPKP1	04 08 06.4			i		18 21 09.5
"	14	Ud	iP	11 49 15.1					micr sec
"	14	Up	iP	13 53 48.5			P	Z'	0.3 1.4
		Ki	iP	13 54 13.5			pP	Z'	0.3 1.4
		Sk	iP	13 54 24.8			Ki	iP	18 20 11.4 C
		Ud	iP	13 54 11.5			i		18 20 30.3
		De	iP	13 54 02.2					micr sec
"	14	Up	iPKP1	15 11 24.4			P	Z'	0.2 1.4
		Ki	iPKP	15 11 13.0			i	Z'	0.1 0.9
		Sk	e(PKP)	15 11 16			Sk	iP	18 20 44.6 C
		iSKP1		15 14 04.5			ipP		18 20 59.6
		Um	iPKP	15 11 17.5			i		18 21 03.5
		iSKP1		15 14 00.1			Um	iP	18 20 28.5 C
		Ud	iPKP1	15 11 25.4			ipP		18 20 42.9
		iSKP1		15 14 13.5			i		18 20 46.9
		De	iPKP1	15 11 36.0 D			iS		18 29 28
		iSKP1		15 14 22.1			Ud	iP	18 20 57.9 C
		Fiji Islands (h = 610 km).					ipP		18 21 12.9
							i		18 21 15.6
							De	iP	18 21 12.7 C
							ipP		18 21 28.2
							Japan.		
							h = 50 km (Up,Sk,Um,Ud,De).		
							m = 6.0 (Up,Ki).		

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

1975				1975			
Aug.	15	Sk	eP	03 44 04	Aug.	16	(cont.)
		Ud	iP	03 43 27.9			Up
							micr sec
"	15	Up	iP	03 52 38.8			P Z' 0.1 0.9
		Ki	iP	03 51 44.4		Ki	iP 01 07 13.9 D
		Sk	iP	03 52 21.2		Sk	iP 01 06 58.8 D
		Um	iP	03 52 10.2		Um	iP 01 07 14.3 D
		Ud	iP	03 52 42.0		Ud	iP 01 07 00.7 D
		De	iP	03 53 04.7		De	iP 01 07 01.0 D
				Kamchatka (h = N).			ipP 01 07 33.2
							Peru.
							h = 120 km (De).
"	15	Up	iP	07 38 48.6 D	"	16	Ki iP 02 54 26.8
			i	07 38 59.0			Sk iP 02 54 59.4
			iPP	07 41 17.4			Um iP 02 54 42.2
			iS	07 47 19.1			Ud iP 02 55 10.4
				micr sec			Japan (h = 230 km).
			P	Z' 0.6 1.3	"	16	Sk eP 04 24 23
			i	Z' 3.5 1.6			Ud iP 04 24 28.8
			Mx	E 14 16			Venezuela (h = 40 km).
			Mx	N 22 19	"	16	Ud iP 05 59 45.5
			Mx	Z 29 20			California (h = 10 km).
		Ki	iP	07 37 53.2 D	"	16	Ki iP 06 39 25.4
			i	07 38 05.1			Ud iP 06 39 48.7
			iS	07 45 34			Celebes Sea (h = 440 km).
				micr sec	"	16	Up iPKP1 07 42 26.9
			P	Z' 0.3 1.1			Ki i(PKP) 07 42 07.9
			i	Z' 4.9 2.4			iPKP 07 42 19.5
			Mx	E 9.6 17			micr sec
			Mx	N 25 18			PKP Z' 0.1 0.5
			Mx	Z 26 22			Sk i(PKP) 07 42 19.8
		Sk	iP	07 38 29.4 D			iPKP 07 42 29.9
			i	07 38 41.4			Um i(PKP) 07 42 14.9
		Um	iP	07 38 19.5			i(PKP) 07 42 21.4
			i	07 38 31.3			iPKP 07 42 26.0
			iS	07 46 25			Ud iPKP1 07 42 28.8
		Ud	iP	07 38 51.0 D			De iPKP1 07 42 40.4
			i	07 39 02.8			Fiji Islands (h = 630 km).
		De	iP	07 39 13.2 D			
			i	07 39 25.4			
				Komandorsky Islands (h = 5 km).	"	16	Up iPKP1 21 45 15.2
				m = 7.2, M = 6.4 (Up,Ki).			Ki iPKP1 21 44 54.0
				Double P, in average			Sk iPKP1 21 45 08.5
				11.4 sec apart.			Um iPKP1 21 45 03.8
"	15	Ki	iP	08 57 20.1			Ud iPKP1 21 45 16.7
		Ud	iP	08 58 20.5			South of Kermadec Islands
				Komandorsky Islands			(h = N).
				(h = 40 km).	"	16	Ki iP 22 30 47.8
"	15	Ud	iP	16 15 20.2			Ud iP 22 30 30.8
"	16	Up	iP	01 07 09.5			
		(cont.)					

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

1975				1975				
Aug.	17	Up	iPKP	01 48 25.9	Aug.	18	Ki eP	06 26 30
			iSKP1	01 51 43.5			Um iP	06 26 37.1
		Ki	iPKP	01 48 11.7			Luzon (h = N).	
		Sk	iPKP	01 48 23.6	"	18	De iPKP	13 08 17.6
		Um	iPKP	01 48 18.4			New Britain (h = 55 km).	
		Ud	iPKP	01 48 28.3	"	18	Up iPKP1	14 51 20.2
			iSKP1	01 51 46.9			iPKP2	14 51 36.7
		De	iPKP	01 48 34.9			Ki iPKP1	14 51 03.8
		New Hebrides Islands					micr sec	
		(h = 90 km).					PKP1 Z'	0.1 0.9
"	17	Up	i(PKP)	03 48 59.7			Sk iPKP1	14 51 17.1
		Ki	iPKP	03 48 56.7			Um iPKP1	14 51 11.5
			i	03 49 20.8			Ud iPKP2	14 51 42.5
		Sk	ePKP	03 49 10			North Island, New Zealand	
		Um	iPKP	03 49 04.1			(h = 150 km).	
		Ud	iPKP	03 49 13.7	"	18	Up iP	15 07 06.3
		De	i(PKP)	03 49 10.4			ipP	15 07 14.3
			iPKP	03 49 22.6			micr sec	
		Tonga Islands (h = 270 km).					pP Z'	0.1 1.1
"	17	Ki	iP	04 36 43.0			Ki iP	15 06 11.5
		Ud	iP	04 37 07.1			ipP	15 06 19.7
"	17	Up	iPKP1	06 32 36.2			micr sec	
				micr sec			P Z'	0.1 1.0
			PKP1 Z'	0.1 1.0			pP Z'	0.1 1.0
		Ki	iPKP1	06 32 15.2			Sk iP	15 06 37.9
		Sk	iPKP1	06 32 30.1			ipP	15 06 46.1
		Um	iPKP1	06 32 25.1			Um iP	15 06 39.7
			i	06 32 41.8			ipP	15 06 47.7
		De	iPKP1	06 32 46.0			Ud iP	15 07 02.1
		South of Kermadec Islands					ipP	15 07 10.0
		(h = N).					De iP	15 07 26.2
"	17	Ud	iPKP1	07 41 41.7			ipP	15 07 34.4
		De	iPKP1	07 41 53.2			Gulf of Alaska.	
		Tonga-Kermadec Islands					h = 25 km (Up,Ki,Sk,Um,Ud,De).	
		(h = 600 km).					m = 5.8 (Up,Ki).	
"	17	Sk	iP	09 02 06.8	"	18	Up iP	15 31 44.1
		Albania (h = N).					Ki iP	15 31 30.3
"	17	Um	iP	13 00 55.1			Sk iP	15 31 56.3
		Ud	iP	13 01 04.8			Um iP	15 31 33.3
							Ud iP	15 31 56.7
							China-Vietnam (h = N).	
"	18	Sk	epP	03 25 16	"	19	Ki iP	00 03 52.0
		Um	ipP	03 25 08.3			Sk eP	00 04 05
		Ud	iP	03 24 40.3			Um iP	00 03 48.8
		Turkey (h = 35 km).					Ud iP	00 04 01.1
"	18	Sk	eP	05 48 09			Sumatra (h = 70 km).	
		Um	iP	05 48 07.8				

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

1975				1975					
Aug.	19	Up	iPKP1	04 06 06.3	Aug.	19	(cont.)		
		Ud	iPKP1	04 06 08.4			Sk eP	13 22 45	
		De	iPKP1	04 06 19.1			Um iP	13 22 17.1	
"	19	Up	iPKP1	04 54 47.0			Ud iP	13 22 35.3	
		Ud	iPKP1	04 54 49.3			De iP	13 22 31.4	
							Hindu Kush (h = 180 km).		
"	19	Ki	iP	09 48 25.3	"	19	Sk eSgl	14 49 03	
		Sk	iP	09 48 43.2			Ud iPgl	14 47 29.1 C	
		Um	iP	09 48 13.1			iSgl	14 47 46.3	
		Ud	iP	09 48 33.9			De eSgl	14 49 06	
		De	iP	09 48 31.5			Southeast Norway, 59.9°N, 11.0°E. Origin time = 14 47 06. m = 4.1, M _L = 2.3 (Ud).		
		Afghanistan-USSR (h = 110 km).							
"	19	Up	iX	10 46 28.1	"	19	Up	iP	15 09 46.4
		Sk	ePKP1	10 46 11			i	15 09 47.8	
		Um	iPKP1	10 46 05.9			iSKS	15 20 04	
			iX	10 46 19.2			iS	15 20 18	
		Ud	iPKP1	10 46 17.3				micr sec	
			iX	10 46 31.5			P	Z' 0.2 0.8	
							Mx	Z 2.6 30	
"	19	Up	iPKP1	10 48 58.1			Ki	iP	15 09 34.4
			iPKP2	10 49 05.7			i	15 09 35.7	
				micr sec			iS	15 19 58	
		Mx	Z	0.9 21				micr sec	
		Ki	ePKP1	10 48 41			P	Z' 0.5 0.8	
				micr sec			Mx	E 1.1 24	
		Mx	N	0.9 18			Mx	N 0.7 20	
		Mx	Z	0.9 20			Mx	Z 0.9 20	
		Sk	iPKP1	10 48 52.2			Sk	iP	15 09 28.0
			ipPKP1	10 49 05.7			i	15 09 29.0	
		Um	iPKP1	10 48 47.7			Um	iP	15 09 43.4
			ipPKP1	10 48 59.4			i	15 09 44.6	
		Ud	iPKP1	10 48 59.6			iSKS	15 20 01	
			ipPKP1	10 49 12.4			iS	15 20 14	
		De	iPKP2	10 49 21.3			Ud	iP	15 09 36.7
		South of Kermadec Islands. h = 45 km (Sk,Um,Ud).					i	15 09 37.9	
"	19	Um	iPKP1	11 02 05.0			De	iP	15 09 44.6
		Ud	iPKP1	11 02 16.7			i	15 09 46.0	
"	19	Up	i	11 14 48.5			Mexico (h = 90 km). m = 6.3 (Up,Ki). Double P, in average 1.2 sec apart.		
		Sk	ePKP1	11 14 30					
		Um	iPKP1	11 14 24.9					
			iX	11 14 38.6					
		Ud	iPKP1	11 14 36.8	"	19	Up	i(P)	20 11 43.6
			iX	11 14 50.4					
"	19	Um	iP	12 52 36.8	"	19	Sk	eP	20 31 38
							Um	iP	20 31 48.8
							Mexico (h = 90 km).		
"	19	Up	iP	13 22 18.8	"	20	Up	i(P)	00 49 46.5
		(cont.)							

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

1975

Aug. 20 Ki iP 01 45 27.1
 Um iP 01 45 54.6
 Ud iP 01 46 19.0
 Aleutian Islands (h = N).

" 20 Ud iP 02 16 39.9
 Queen Charlotte Islands
 (h = N).

" 20 Up iPKP1 05 35 50.6
 Ki i(PKP) 05 35 39.8
 Sk ePKP 05 35 44
 Um i(PKP) 05 35 39.0
 iPKP 05 35 51.9
 Ud iPKP1 05 35 52.7
 Fiji Islands (h = 630 km).

" 20 Um iP 06 00 51.0
 i 06 01 05.8
 Ud iP 06 01 03.2
 i 06 01 17.2

" 20 Ud iP 06 26 34.8

" 20 Ud iP 06 33 06.5

" 20 Um iPKP1 13 11 27.7
 Ud iPKP1 13 11 40.5

" 20 Ud iP 15 26 17.7

" 20 Ki iP 16 27 46.4
 Um iP 16 28 05.8
 Ud iP 16 28 36.7
 Japan (h = 60 km).

" 20 Ud iP 19 56 44.0

" 20 Up i(PKP) 20 37 04.9
 iPKP 20 37 06.4
 iSKP1 20 39 57.2
 micr sec
 PKP Z' 0.1 0.9
 SKP1 Z' 0.1 0.9
 Ki i(PKP) 20 36 45.4
 iPKP 20 36 58.2
 iSKP1 20 39 32.6
 micr sec
 PKP Z' 0.1 1.1
 SKP1 Z' 0.2 1.4
 Sk i(PKP) 20 36 56.8
 iPKP 20 37 07.8
 (cont.)

1975

Aug. 20 (cont.)
 Sk iSKP1 20 39 49.4
 Um i(PKP) 20 36 58.9
 iPKP 20 37 05.1
 iSKP1 20 39 44.3
 Ud i(PKP) 20 37 06.5
 iPKP 20 37 08.3
 iSKP1 20 39 58.7
 De iPKP1 20 37 17.6 D
 i 20 40 01.3
 iSKP1 20 40 08.0
 Fiji Islands (h = 560 km).

" 21 Sk iPKP1 06 14 35.8
 Um iPKP1 06 14 29.4
 Ud iPKP1 06 14 41.6
 De iPKP1 06 14 49.0
 Kermadec Islands (h = N).

" 21 Ki ePKP 07 06 09
 Ud iPKP 07 06 27.4
 Solomon Islands (h = 430 km).

" 21 Up iP 07 35 18.1
 micr sec
 P Z' 0.1 0.9
 Ki iP 07 34 25.0
 Sk iP 07 34 57.8
 Um iP 07 34 51.1
 Ud iP 07 35 19.2
 De iP 07 35 40.5
 Aleutian Islands (h = 35 km).

" 21 Ud ePKP1 08 56 18
 De iPKP1 08 56 19.6
 Fiji Islands (h = 550 km).

" 21 Sk iPKP1 09 00 20.0
 Um iPKP1 09 00 15.4
 Ud iPKP1 09 00 27.4

" 21 Up micr sec
 Mx N 1.7 23
 Mx Z 1.9 23
 Ki micr sec
 Mx E 1.8 20
 Mx N 1.7 22
 Mx Z 2.6 23
 Sk iPKP 10 05 21.5
 De iPKP 10 05 31.6
 Solomon Islands (h = 50 km).

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

1975				1975					
Aug.	21	Ki	iP	13 53 01.4	Aug.	22	Up	iP	19 47 33.4
		Sk	eP	13 53 37				ipP	19 49 07.9
		Ud	iP	13 53 54.2					micr sec
				Kurile Islands (h = 210 km).				pP	Z' 0.2 1.3
"	21	Up	iP	15 33 45.2			Ki	iP	19 46 59.2
		Sk	iP	15 34 28.2				ipP	19 48 29.0
		Ud	iP	15 33 52.5			Um	iP	19 47 13.7
				Albania (h = 40 km).				ipP	19 48 47.5
"	21	Ud	iP	20 51 43.3			Ud	iP	19 47 40.0
								ipP	19 49 15.9
"	21	Up	iP	21 50 10.0			De	iP	19 47 53.5
		Ki	iP	21 49 52.7				ipP	19 49 28.3
		Ud	iP	21 50 19.3			Japan.		
				Samar (h = 110 km).			h = 430 km (Up,Ki,Um,Ud,De)		
"	21	Up	ipP	22 29 37.8	"	22	Ud	iP	20 00 25.1
		Ki	iP	22 28 22.8			South Atlantic Ocean (h = N).		
		Um	ipP	22 29 09.8	"	22	Um	iP	21 47 19.9
		Ud	iP	22 29 16.7			Ud	iP	21 47 48.0
		De	iP	22 29 40.4	"	22	Up	iP	23 00 32.0
			ipP	22 29 58.2			Um	iP	23 00 16.3
				Alaska.			Ud	iP	23 00 43.2
				h = 70 km (De).			Formosa (h = 60 km).		
"	22	Up	iP	01 11 09.5 D	"	22	Up	iP	23 21 02.6
				micr sec				iS	23 31 36
			P	Z' 0.2 0.9					micr sec
		Ki	iP	01 10 37.8 D			Mx	E	1.1 19
				micr sec			Mx	N	1.1 20
			P	Z' 0.2 0.9			Mx	Z	1.7 21
		Sk	iP	01 11 06.3 D			Ki	iP	23 20 50.8
		Um	iP	01 10 51.4 D					micr sec
		Ud	iP	01 11 16.1 D				P	Z' 0.2 2.0
				Bonin Islands (h = 460 km).				Mx	E 1.2 18
				m = 5.7 (Up,Ki).				Mx	N 0.9 18
"	22	Um	iP	04 31 46.6				Mx	Z 1.7 19
"	22	Up	iP	06 01 13.1			Um	iP	23 20 59.4
		Ki	iP	06 00 18.9				i	23 21 50.9
		Ud	iP	06 01 16.2				iS	23 31 31
				Kamchatka (h = 30 km).			Ud	iP	23 20 53.9
							De	iP	23 21 00.7
							Mexico (h = 40 km).		
							M = 5.4 (Up,Ki).		
"	22	Ki	eP	06 20 49	"	23	Ud	iP	00 55 53.0
		Ud	iP	06 20 26.7	"	23	Ud	iP	02 54 18.7
				Iran (h = 80 km).	"	23	Up	iP	04 20 11.9
"	22	Up	iP	07 54 25.6				i	04 24 54.1
		Ud	iP	07 54 42.9			(cont.)		
				Afghanistan-USSR (h = 130 km).					

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

1975				1975					
Aug.	23	(cont.)		Aug.	23	(cont.)			
		Up	i	04 25 23.3		Up	ipP	14 02 03.8	
			iS	04 32 06			i	14 05 59.0	
		√ Ki	iP	04 19 52.1			iS	14 09 42	
				micr sec				micr sec	
			P	Z' 0.1 1.0			P	Z' 0.9 1.6	
			Mx	E 1.8 20		Ki	iP	14 00 34.1 C	
			Mx	N 1.5 18			iPcP	14 01 37.8	
			Mx	Z 2.6 21			i	14 05 25.3	
		Um	iP	04 20 00.0			iS	14 07 59	
			iPP	04 24 21.8				micr sec	
			iS	04 31 42			P	Z' 0.1 0.9	
		Ud	iP	04 20 19.2			Mx	E 1.5 18	
			iPP	04 24 55.1			Mx	N 1.1 11	
		New Guinea (h = 55 km).					Mx	Z 0.8 12	
"	23	Um	iP	07 10 08.0		Um	iP	14 00 59.8 C	
		Ud	iP	07 10 34.9			iPcP	14 01 52.0	
"	23	Up	iP	09 04 24.4			i	14 05 41.0	
			iS	09 08 02			iS	14 08 41	
				micr sec		Ud	iP	14 01 31.8 C	
			P	Z' 1.6 0.6			iPcP	14 02 10.1	
			Mx	E 11 9		De	iP	14 01 54.2 C	
			Mx	N 16 8			iPcP	14 02 23.9	
			Mx	Z 18 8		Kamchatka.			
		Ki	iP	09 02 54.5 C		h = 150 km (Up).			
			iSn	09 05 07		m = 6.0 (Up,Ki).			
				micr sec	"	23	Up	iP	15 19 35.6 C
			P	Z' 7.4 0.6			iPP	15 23 07.9	
			Mx	E 11 9			iS	15 30 12	
			Mx	N 15 6				micr sec	
			Mx	Z 11 6			P	Z' 0.9 1.6	
		Um	iP	09 03 31.9 C			Mx	E 1.8 23	
		Ud	iP	09 04 34.9 C			Mx	N 3.8 21	
		De	iP	09 05 07.7 C			Mx	Z 5.0 24	
		Novaya Zemlya.				Ki	iP	15 19 17.3	
		Origin time = 09 00 00.					iPP	15 22 44.5	
		m = 7.3 (Up,Ki).					iS	15 29 52	
		Underground explosion.						micr sec	
"	23	Ud	iP	12 16 39.0			P	Z' 0.2 1.0	
"	23	Up	iP	13 05 38.5			Mx	E 3.6 18	
		Ud	iP	13 05 55.1			Mx	N 3.9 21	
"	23	Ki	iPKP	13 12 33.5			Mx	Z 3.4 17	
		Um	iPKP	13 12 39.3		Um	iP	15 19 23.6	
		Ud	iPKP	13 12 48.5			iS	15 29 59	
		Santa Cruz Islands				Ud	iP	15 19 43.9 C	
		(h = 220 km).					iPP	15 23 21.6	
						De	iP	15 19 51.0	
						Leyte (h = 40 km).			
						m = 6.6, M = 5.9 (Up,Ki).			
"	23	Up	iP	14 01 29.0 C	"	23	Up	eP	17 47 11
		(cont.)					Um	iP	17 47 49.2
							(cont.)		

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

1975

Aug. 23 (cont.)
 Ud iP 17 47 12.1
 De iP 17 46 35.3
 Italy (h = 270 km).
 " 23 Ud iP 19 40 54.0
 " 23 Um iP KP1 19 52 08.2
 Ud iP KP1 19 52 20.1
 " 23 Up iP KP1 19 56 45.6
 micr sec
 PKP1 Z' 0.1 0.7
 Ki iP KP 19 56 34.0
 Um i(PKP) 19 56 33.7
 iP KP 19 56 40.5
 iSKP1 19 59 31.3
 Ud iP KP1 19 56 49.0 D
 De iP KP1 19 56 59.2
 Tonga-Kermadec Islands
 (h = 490 km).
 " 23 Up iP 21 44 27.5
 Ki iP 21 45 15.7
 Um iP 21 44 49.4
 Ud iP 21 44 36.3
 Ethiopia (h = N).
 " 24 Up iP 01 16 50.5 C
 micr sec
 P Z' 0.1 0.9
 Ki iP 01 16 59.3
 Ud iP 01 16 39.6 C
 iP 01 17 05.4
 De iP 01 16 38.2 C
 Venezuela.
 h = 110 km (Ud).
 " 24 Ud iP 01 19 44.6
 Japan (h = 60 km).
 " 24 Ud iP 04 03 33.5
 " 24 Ud iP 05 33 59.3
 " 24 Ki iP 06 05 40.9
 Mariana Islands (h = 10 km).
 " 24 Up iP 07 12 35.5
 Ki iP 07 12 43.9
 Um iP 07 12 33.5
 Ud iP 07 12 51.8
 Afghanistan-USSR (h = 220 km).

1975

Aug. 24 Up iP KP1 14 08 06.5
 Ud iP KP1 14 08 07.7
 De iP KP1 14 08 18.7
 Tonga-Kermadec Islands
 (h = 110 km).
 " 24 Ud iP KP 14 54 23.8
 Solomon Islands (h = 45 km).
 " 24 Ki iP 15 56 24.4
 Ud iP 15 55 22.4
 " 24 Up iP 16 15 57.2 C
 iP 16 16 05.0
 micr sec
 P Z' 0.1 0.9
 Ki iP 16 15 03.0 C
 micr sec
 P Z' 0.1 0.8
 Um iP 16 15 29.3 C
 iP 16 15 37.2
 Ud iP 16 15 59.4 C
 iP 16 16 06.7
 De iP 16 16 21.6
 Aleutian Islands.
 h = 25 km (Up,Um,Ud).
 m = 6.0 (Up,Ki).
 " 24 Ki iP 17 58 50.1
 Ud iP 17 59 39.5
 " 24 Up i(P) 18 29 01.3
 " 24 Up iP 20 55 37.2
 Ki iP 20 54 51.4
 Um iP 20 55 12.6
 Ud iP 20 55 43.1
 Kurile Islands (h = N).
 " 25 Up iP KP1 00 38 48.1
 Ud iP KP1 00 38 49.6
 De iP KP1 00 39 02.8
 " 25 Um iP KP1 03 14 14.4
 Ud iP KP1 03 14 27.0
 " 25 Ud iP 03 58 58.9
 Sinkiang, China (h = 70 km).
 " 25 Up iP 04 09 59.7
 i 04 10 54.3
 iS 04 20 37
 (cont.)

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

1975				1975				
Aug.	25	(cont.)		Aug.	25	(cont.)		
		Up	micr sec			Um	iPP 22 00 39.6	
		P	Z' 0.1 1.1			iSKS	22 06 43	
		Ki	iP 04 10 00.3			iS	22 08 02	
		i	04 10 53.6			Ud	iP 21 56 04.6	
			micr sec			iPP	22 00 10.2	
		P	Z' 0.1 1.0			i	22 01 05.1	
		Um	iP 04 10 03.3			De	iP 21 56 02.9	
		iS	04 20 42			iPP	22 00 02.0	
		Ud	iP 04 09 50.2			i	22 00 44.5	
		i	04 10 44.5			Chile (h = 120 km).		
		De	iP 04 09 52.8			m = 6.1 (Up,Ki).		
		i	04 10 47.0					
		Colombia (h = 45 km).			"	26	Ki	iPKP1 00 40 15.5
		m = 6.0 (Up,Ki).					Um	iPKP1 00 40 23.7 C
		If the second phase is					New Zealand (h = 40 km).	
		interpreted as pP, the focal						
		depth will be 230 km.			"	26	Ud	eP 03 08 40
							Greece (h = 5 km).	
"	25	De	iPKP 08 30 11.6		"	26	Up	iP 05 21 51.5 C
		Solomon Islands (h = 70 km).					i	05 22 02.2
"	25	Up	iP 10 54 04.1				i	05 22 21.3
		Um	iP 10 54 02.8				iPP	05 24 26.1
		Ud	iP 10 54 20.7					micr sec
		De	eP 10 54 16				P	Z' 0.1 1.1
		Hindu Kush (h = 30 km).					Mx	E 1.2 20
							Mx	N 1.1 20
"	25	Up	iRg 12 05 35.2				Mx	Z 1.1 20
		Ud	iRg 12 05 52.2			Ki	iP 05 21 08.5 C	
		South-central Sweden.					ipP	05 21 23.2
		Near-surface event.					iPP	05 23 27.7
"	25	Up	iP 14 40 51.4					micr sec
		Ki	iP 14 39 57.8				P	Z' 0.1 1.0
		Um	iP 14 40 24.1				Mx	E 1.8 20
		Ud	iP 14 40 52.6				Mx	N 1.6 19
		De	iP 14 40 14.0				Mx	Z 1.9 18
		Aleutian Islands (h = 35 km).				Um	iP 05 21 27.5 C	
"	25	Um	iP 17 32 31.6				iPP	05 23 49.6
"	25	Up	i(PP) 22 00 16.5			Ud	iP 05 21 58.2 C	
			iPP 22 00 23.8			De	iP 05 22 14.5	
			iSKS 22 06 32				iPP	05 24 56.2
			iS 22 07 44			Japan.		
			micr sec			m = 5.8, M = 5.3 (Up,Ki).		
		PP	Z' 0.4 2.0			h = 55 km (Ki).		
		Ki	iPP 22 00 45.0	"	26	Up	micr sec	
			iPKKP 22 11 53.0			Mx	N 1.1 20	
			micr sec			Mx	Z 1.1 21	
		PP	Z' 0.1 2.1			Ki	ePKP 11 26 03	
		Um	i(PP) 21 59 41.1				micr sec	
		(cont.)				Mx	N 1.4 20	
						Fiji Islands (h = N).		
						M = 5.6 (Up,Ki).		

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

1975				1975						
Aug.	26	Up	iPKP1	12 38 48.4	Aug.	27	Up	iPKP1	09 36 49.5	
			i	12 39 39.9			Ud	iPKP1	09 36 51.7	
		Ki	i(PKP)	12 38 30.4			De	ePKP1	09 37 02	
			iPKP	12 38 37.8		"	27	Um	iPKP1	10 36 50.8
			iSKP1	12 41 59.4			Ud	iPKP1	10 37 03.1	
		Um	i(PKP)	12 38 37.3		"	27	Ud	iPKP1	12 48 13.8
			iPKP	12 38 47.1			De	iPKP1	12 48 23.8	
			iSKP1	12 42 10.5			Fiji Islands (h = 270 km).			
		Ud	iPKP1	12 38 49.4		"	27	Ud	iPKP1	13 06 34.5
		De	iPKP1	12 39 00.7 D			De	iPKP1	13 06 46.2	
			ipPKP1	12 39 32.4		"	27	Up	iSgl	16 51 35.3
		Tonga-Kermadec Islands.					Ud	iSgl	16 50 36.2	
		h = 110 km (De).					Southern Norway.			
"	26	Ud	iP	14 08 39.6			By combination with			
"	26	Ud	i(P)	14 48 08.2			Kongsberg readings.			
"	26	Ud	iRg	15 32 56.9		"	27	Up	iP	17 07 16.5 C
		De	iSgl	15 32 56.0			ipP	17 07 27.4		
		Regional near-surface event.					Ki	iP	17 07 49.7	
"	26	Ud	iP	18 34 12.6			ipP	17 07 59.0		
"	26	Up	ipP	20 19 02.2			Um	iP	17 07 27.9 C	
		Ki	iP	20 18 35.1			i	17 07 35.6		
			i	20 18 43.3			Ud	iP	17 07 31.1	
		Um	iP	20 18 45.2			De	iP	17 07 16.4	
			i	20 18 49.6			Iran.			
		Ud	iP	20 18 38.0			h = 40 km (Up,Ki).			
			i	20 18 42.5		"	27	Um	iP	17 21 54.7
			i	20 18 48.1			Ud	iP	17 22 24.9	
		Mexico (h = 50 km).					Japan (h = 15 km).			
"	27	Up	iPKP1	02 54 24.8		"	27	Up	iP	19 00 37.8
			i	02 54 44.3			Ud	iP	19 00 54.4	
		Ki	iSKP1	02 56 56.8			Afghanistan-USSR (h = 110 km).			
		Um	i(PKP)	02 54 10.5		"	27	Ud	iP	23 47 59.3
			iSKP1	02 57 07.9		"	28	Up	iP	02 23 24.5
		Ud	iPKP1	02 54 27.7 D			ipP	02 23 36.0		
			i	02 54 44.0			Ki	eP	02 22 56	
			iSKP1	02 57 20.3			Um	ipP	02 23 20.1	
		De	iPKP1	02 54 38.3 D			Ud	iP	02 23 30.1	
		Tonga-Kermadec Islands					Mariana Islands.			
		(h = 540 km).					h = 45 km (Up).			
"	27	Up	eP	07 48 48		"	28	Up	iP	14 15 26.9
		Ki	iP	07 48 47.9			Ki	iP	14 14 53.8	
		Um	iP	07 48 42.7			Ud	iP	14 15 40.6	
		Ud	iP	07 49 04.2			China (h = 80 km).			
		De	iP	07 49 03.7						
		Tibet (h = 15 km).								

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

1975				1975			
Aug.	28	Ud	iP	16 03 53.7	Aug.	29	(cont.)
		Aegean Sea (h = N).				Up	micr sec
"	28	Ki	iSgl	17 23 42.6		SKP1	Z' 0.1 0.9
		Um	iPgl	17 21 45.3		Ki	iPKP
			i	17 21 48.7			micr sec
			iSgl	17 21 50.4		PKP	Z' 0.1 1.0
		Gulf of Bothnia, 63.8°N, 21.2°E.				Um	iPKP
		Origin time = 17 21 39.				Ud	iPKP
		M _L = 1.7 (Um).					i
		By combination with Finnish station readings.					iSKP1
"	28	Up	iPKP2	21 16 59.7		De	i(PKP)
		Um	iPKP1	21 16 34.7			iPKP
			i	21 16 50.1			iSKP1
		Ud	iPKP1	21 16 47.2			07 22 38.3
"	28	Ud	iP	22 38 17.3			07 22 52.7
"	29	Ki	iPgl	02 55 47.5			07 26 03.7
			iS*	02 56 20.2		New Hebrides Islands (h = 190 km).	
			iSgl	02 56 21.5	"	29	De
			micr sec			eP	08 39 24
		Sgl	Z' 0.056 0.4		"	29	Ud
		Um	iSn	02 56 47.3		iP	09 18 21.4
			iS*	02 57 03.3		De	iP
			iSgl	02 57 05.1	"	29	De
		Nordland, Norway, near 67°N, 14 1/2°E.			"	29	Up
		Origin time = 02 55 04.				iP	10 27 29.8
		m = 4.3, M _L = 2.8 (Ki,Um).				iS	10 36 44
"	29	Ud	i(P)	03 58 10.9			micr sec
"	29	Ki	i	04 43 38.5		Mx	E 1.4 18
			iSgl	04 43 42.0		Mx	N 2.1 20
		Um	iSgl	04 43 42.7		Mx	Z 1.9 20
		Sweden-Finland border region, 65.8°N, 24.4°E.			Ki		micr sec
		Origin time = 04 42 24.				Mx	E 3.0 17
		m = 4.2, M _L = 2.5 (Ki,Um).				Mx	N 3.2 18
		Felt.				Mx	Z 3.8 17
		Solution from Helsinki regional bulletin.			Um	iP	10 27 06.2
"	29	Um	iP	06 01 05.6		iS	10 35 57
"	29	Um	iP	06 02 06.3		Ud	iP
"	29	Up	iSKP1	07 25 51.1 D		i	10 27 51.1
		(cont.)				De	iP
							10 27 51.5
					Japan (h = 30 km).		
					M = 5.6 (Up,Ki).		
				"	29	Up	iPKP
						iSKP1	11 19 06.9
							11 22 14.6
							micr sec
						SKP1	Z' 0.1 1.2
					Ki	iPKP	11 18 53.0
					Um	iPKP	11 18 59.4
					Ud	iPKP	11 19 08.8
						iSKP1	11 22 16.8
					De	i(PKP)	11 19 02.0
						iPKP	11 19 15.9
						iSKP1	11 22 27.1
					New Hebrides Islands (h = 200 km).		

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

1975				1975									
Aug.	29	Ud	iP	12 08	21.2	Aug.	31	Ud	eP	00 16	14		
		De	eP	12 08	25	"	31	Up	iP	05 35	52.4		
"	29	De	iP	15 28	07.3	"	31	Up	iPKP1	07 36	47.1		
"	29	Ud	iP	17 11	16.3			Um	i(PKP)	07 36	26.0		
				Japan (h = 25 km).					i(PKP1)	07 36	38.0		
"	29	Up	iP	20 51	41.1			De	iPKP1	07 37	00.1		
			i	20 51	48.4			Tonga-Kermadec Islands (h = 320 km).					
				micr sec		"	31	Up	iP	07 45	01.3		
			P	Z'	0.1 0.9	"	31	Up	iPKP1	09 39	18.7		
		Ki	iP	20 51	41.5				iPKP2	09 39	21.8		
			i	20 51	49.3			Sk	iPKP2	09 39	11.6		
		Sk	i(pP)	20 52	03.1			Um	iPKP1	09 39	06.4 D		
		Um	iP	20 51	37.9			Ud	iPKP1	09 39	20.3 D		
			i	20 51	45.3				iPKP2	09 39	24.8		
		Ud	iP	20 51	53.7			De	iPKP1	09 39	28.1		
			i	20 52	00.2				iPKP2	09 39	38.3		
			iPP	20 54	43.5								
		De	iP	20 51	51.2			"	31	Up	iP	12 12	36.7
			i	20 51	58.2				Ki	iP	12 11	42.1	
		Nicobar Islands (h = N).							i		12 11	50.2	
"	30	Um	iP	06 24	19.3					micr sec			
"	30	Ki	iP	06 46	52.9				P	Z'	0.1 1.0		
			i	06 46	53.9			Sk	iP	12 12	08.4		
		Sk	iP	06 47	38.4			Um	iP	12 12	10.7		
		Ud	iP	06 48	07.1				i	12 12	18.9		
			ipP	06 48	16.1			Ud	iP	12 12	33.8		
		De	iP	06 48	36.5			De	iP	12 12	56.8		
			ipP	06 48	45.3			Kodiak Island (h = 10 km).					
		Severnaya Zemlya. h = 30 km (Ud,De).					"	31	Up	iP	12 31	48.6	
"	30	Up	i(P)	15 22	25.4			Sk	iP	12 31	29.1		
"	30	Up	iP	17 10	56.0			Um	iP	12 31	48.4		
		Ud	iP	17 11	07.5			Ud	iP	12 31	36.7		
		Turkey (h = 10 km).					"	31	Um	iP	22 52	00.9	
"	30	Ud	eP	17 13	53			Ud	iP	22 52	32.1		
"	30	Sk	eP	18 55	26			Kurile Islands (h = 55 km).					
		Ud	iP	18 55	28.6		"	31	Ud	iP	23 54	17.5	
"	30	Ud	iP	18 59	07.7			De	ipP	23 53	44.9		
		Turkey (h = 45 km).						Bulgaria (h = N).					
"	30	Ud	iPKP1	20 35	23.6			Ota Kulhánek Klaus Meyer Rutger Wahlström April 26, 1977					
		De	iPKP1	20 35	35.1								
		Fiji Islands (h = 520 km).											

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SWEDEN

SEISMOLOGICAL BULLETIN

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

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

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

S E P T E M B E R 1 - 30, 1975

1975				1975			
Sep.	1	Um	iP	12 31 39.2	Sep.	1	(cont.)
			i	12 32 08.9			In average, P2 - P1
							= 2.9 sec.
"	1	Ud	iP	16 37 28.7	"	2	De iPKP 08 31 17.2
			i	16 37 40.0			Solomon Islands (h = 35 km).
"	1	Ud	iP1	17 01 49.3	"	2	Ud iPKP 09 03 57.5
			iP2	17 01 54.3			Chile-Argentina (h = N).
		De	iP2	17 01 38.6			
				Iran (h = 50 km).	"	2	Ki eP 10 25 31
"	1	Up	iP	22 03 24.4			Um iP 10 25 36.2
		Ki	iP	22 03 21.3			Ud iP 10 25 55.7
		Sk	iP	22 03 09.5			Molucca Passage (h = 40 km).
		Um	iP	22 03 25.9	"	2	Up iP1 10 28 38.9
		Ud	iP	22 03 15.0			Ki iP2 10 28 07.2
		De	iP	22 03 19.0			Sk iP2 10 28 39.2
				Costa Rica (h = 30 km).			Um iP1 10 28 19.5
"	1	Ki	iP	22 45 46.4			iP2 10 28 21.9
"	1	Up	iP1	22 53 15.2			Ud iP1 10 28 45.3
		Ki	iP2	22 53 07.4			De iP1 10 28 59.7
		Sk	iP1	22 53 29.8			Japan (h = 25 km).
		Um	iP1	22 53 02.3	"	2	Up iP 10 35 25.9
			iP2	22 53 07.9			ipP 10 35 34.1
		De	iP2	22 53 42.4			micr sec
				Sinkiang, China (h = N).			pP Z' 0.1 1.0
"	1	Up	iP2	23 22 33.2			Mx E 2.7 23
			iPP	23 23 39.3			Mx N 3.2 15
		Ki	iP2	23 23 14.0			Mx Z 2.1 16
		Sk	iP1	23 23 09.4		Ki	iP 10 34 51.1
		Um	iP1	23 22 46.4			ipP 10 34 59.3
			iP2	23 22 48.6			micr sec
		Ud	iP1	23 22 45.6			pP Z' 0.1 1.2
			iP2	23 22 49.2			Mx E 2.7 15
		De	iP1	23 22 29.5			Mx N 2.3 12
			iP2	23 22 32.5			Mx Z 2.2 13
				Iran (h = 15 km).		Sk	iP 10 35 21.7
				(cont.)			ipP 10 35 30.8
							(cont.)

SEP 19 1977

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

1975						1975						
Sep.	2	(cont.)				Sep.	2	(cont.)				
		Um	iP	10 35 05.2				Ki		micr	sec	
			ipP	10 35 13.1				Mx	E	1.0	16	
		Ud	iP	10 35 32.3				Mx	N	1.7	16	
			ipP	10 35 41.5				Mx	Z	1.4	17	
		De	iP	10 35 46.5				Ud	eP	12 21	21	
			ipP	10 35 53.9				Yellow Sea (h = N).				
		Japan.						M = 5.5 (Up,Ki).				
		h = 30 km (Up,Ki,Sk,Um,Ud,De).					"	2	Up	i(P)	14 08	22.3
		m = 5.8, M = 5.8 (Up,Ki).					"	2	Up	iP	15 46	03.4
"	2	Up	iP	10 38 00.7					ipP	15 46	22.6	
		Sk	iP	10 37 57.3					i(PP)	15 50	03.3	
		Um	iP	10 37 40.9					iSKS	15 56	36	
		Ud	iP	10 38 07.5						micr	sec	
		De	iP	10 38 20.3					pP	Z'	0.1 0.9	
		Japan, from the same focal area as the preceding event.							Mx	N	2.7 29	
		Origin time = 10 26 00.							Mx	Z	2.1 30	
								Ki	iP	15 45	52.5	
									ipP	15 46	12.1	
"	2	Up	eP	10 56 42						micr	sec	
			i	10 56 44.9					pP	Z'	0.2 1.5	
		Ki	eP	10 56 05					Mx	E	2.6 29	
		Um	iP	10 56 18.5					Mx	N	3.4 27	
			i	10 56 22.3					Mx	Z	31 28	
		Ud	iP	10 56 45.9				Sk	i(PP)	15 50	15.4	
			i	10 56 46.5				Um	ipP	15 46	14.5 C	
		De	eP	10 56 59					iPP	15 50	18.7	
		Japan (h = 25 km).							iSKS	15 56	31	
"	2	Up	iP	11 09 47.8				Ud	iP	15 46	12.5	
				micr sec					ipP	15 46	31.4	
			P	Z' 0.2 1.3				De	ipP	15 46	34.1	
			Mx	E 0.9 12					i(PP)	15 50	22.2	
			Mx	N 1.1 13				Sawu Sea.				
		Ki	iP	11 09 13.3				h = 70 km (Up,Ki,Ud).				
				micr sec				m = 6.7, M = 5.7 (Up,Ki).				
			P	Z' 0.1 0.9				M uncorrected for focal depth.				
			Mx	E 1.2 16			"	2	Um	iPgl	16 42 48.4	
			Mx	N 2.0 18						iSgl	16 42 52.0	
			Mx	Z 2.4 17			"	2	Sk	iP	19 40 55.7	
		Sk	iP	11 09 44.3					Ud	iP	19 40 22.4	
		Um	iP	11 09 27.4					De	eP	19 39 46	
			i	11 09 29.0				Greece (h = N).				
		Ud	iP	11 09 55.2			"	2	Up	iP	19 49 55.2	
		De	iP	11 10 08.2					Um	iP	19 49 34.8	
		Japan (h = 40 km).							Ud	iP	19 50 02.5	
		m = 5.9, M = 5.5 (Up,Ki).							De	eP	19 50 17	
"	2	Up		micr sec				Japan (h = 20 km).				
			Mx	E 1.5 16			"	2	Ud	iP	22 12 19.9	
			Mx	N 2.0 14								
		(cont.)										

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

1975				1975					
Sep.	3	Ud	i(P)	01 23 27.3	Sep.	4	Up	iP	16 00 16.5
"	3	Ud	iP	01 33 15.0			Ki	iP	15 59 32.1
				Canada (h = 25 km).			Um	iP	15 59 52.8
							Ud	iP	16 00 23.9
"	3	Ud	iP	11 22 55.6					Kurile Islands (h = 35 km).
"	3	Ud	iP	14 14 32.3	"	4	Ud	iP	17 31 54.5
"	3	Up	iP	18 53 49.2					Kurile Islands (h = 40 km).
		Ud	iP	18 54 06.4	"	4	Up	iP1	23 37 01.3 C
"	3	Up	iP	19 55 07.4			Ki	iP2	23 37 39.1
			iS	19 59 26			Um	iP	23 37 12.2
				micr sec			Ud	iP1	23 37 16.0
		P	Z'	0.1 1.3			De	iP1	23 37 01.5
		Mx	E	1.0 13				iP2	23 37 07.0
		Mx	N	1.1 13					Iran (h = N).
		Ki	iP	19 55 03.5	"	4	Up	iPKP1	23 59 25.9
			iS	19 59 24					micr sec
				micr sec			Ki	PKP1	Z' 0.1 0.9
		P	Z'	0.1 1.1				i(PKP)	23 59 11.3
		Mx	E	2.2 13			Sk	i(PKP)	23 59 16.0
		Mx	N	1.6 13				i(PKP)	23 59 18.9
		Mx	Z	2.2 13			Um	i(PKP)	23 59 28.0
		Sk	iP	19 54 36.6				i(PKP)	23 59 13.6
		Um	iP	19 55 08.2				iPKP	23 59 22.9
			iS	19 59 27				iSKP1	00 02 07.5
		Ud	iP	19 54 47.5			Ud	iPKP1	23 59 27.6
		De	iP	19 55 05.3				i	23 59 28.4
				North Atlantic Ocean (h = N).			De	iPKP1	23 59 38.0
				m = 5.3, M = 4.8 (Up,Ki).				i	23 59 39.2
								iPKP1	00 01 40.4
"	3	Up	iP	22 01 06.6					Tonga-Kermadec Islands.
		Ki	iP	22 00 55.0					h = 520 km (De).
		Sk	iP	22 01 19.7	"	5	Up	iP	00 42 49.6
		Ud	iP	22 01 19.0				i	00 43 05.4
				China (h = 25 km).				ipP	00 43 17.1
"	3	Ud	iP	23 36 34.1			Ki	ipP	00 44 38.7
"	4	Up	iP	13 07 25.6			Um	iP	00 43 31.3
		Ki	iP	13 07 22.8			Ud	iP	00 43 06.6
				micr sec			De	iP	00 42 26.6
		P	Z'	0.1 1.3					Rumania.
		Sk	eP	13 06 52					h = 150 km (Up).
		Um	iP	13 07 25.7	"	5	Ki	iP	03 57 29.8
		Ud	iP	13 07 03.4			Ud	iP	03 57 12.0
			i	13 07 17.1					Iran (h = N).
				North Atlantic Ocean (h = N).	"	5	Up	iP	04 44 16.1
"	4	Um	iPKP	15 41 34.2			Um	iP	04 43 58.9
				Santa Cruz Islands (h = 120 km).			Ud	iP	04 44 23.7

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

1975				1975					
Sep.	6	(cont.)		Sep.	6	Up	iP	12 29 32.7	
		Up	i				i	12 29 45.9	
						Ki	iP	12 30 20.9	
			P			Um	iP	12 29 53.3	
		Ki	iP			Ud	iP	12 29 45.8	
						De	iP	12 29 26.7	
			P			Turkey (h = N).			
		Um	iP						
		Ud	iP		"	6	Up	iPgl	
		De	iP				iSgl	12 58 02.6	
			i				iRg	12 58 07.4	
		Turkey (h = N).					i	12 58 09.2	
		m = 5.6 (Up,Ki).					i	12 58 17.5	
							i	12 58 18.9	
"	6	Up	iP			Ud	iPgl	12 58 33.5	
			i				iSgl	12 58 37.5	
							iRg	12 59 01.7	
			P			Explosion (12 ton) at			
		Ki	iP			Dannemora mine, Uppland,			
			i			Sweden, 60.1°N, 17.5°E.			
						Origin time = 12 57 55.			
			P			m = 4.3, M _L = 2.7 (Up,Ud).			
		Sk	iP		"	6	Ud	iP	
		Um	iP					17 11 41.9	
		Ud	iP			Nevada.			
			i			Underground explosion.			
		De	iP		"	6	Up	iP	
			i				Ki	iP	
		Turkey (h = N).							18 15 28.7
		m = 5.8 (Up,Ki).							18 14 34.6 C
"	6	Up	iP						micr sec
			i				P	Z'	0.2 1.5
			iS			Sk	iP		18 15 01.5
						Um	iP		18 15 03.0 C
						Ud	iP		18 15 25.2
						De	iP		18 15 49.3
			i			Kodiak Islands (h = N).			
			Z'						
		Mx	E		"	6	Ki	iP	20 44 38.4
		Mx	N				Um	iP	20 45 06.9
		Mx	Z				Ud	iP	20 45 29.5
		Ki	iP			Kodiak Islands (h = N).			
			i						
					"	6	Ki	iP	22 49 10.3
			P				Ud	eP	22 48 37
			Z'				De	iP	22 48 16.3
		Mx	E			Turkey (h = 35 km).			
		Mx	N						
		Mx	Z		"	7	Up	iP	11 51 12.0
		Sk	i				Ki	iP	11 50 29.5
		Um	iP				Sk	iP	11 51 04.8
		Ud	iP				Um	iP	11 50 48.0
			i				Ud	iP	11 51 18.9
		De	iP				i		11 51 19.7
		Turkey (h = N).					De	iP	11 51 36.4
		m = 5.6, M = 5.0 (Up,Ki).					Sea of Japan (h = 200 km).		

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

1975				1975					
Sep.	10	(cont.)		Sep.	11	Up	iPP	22 17 34.6	
		Um	iP				iSKS	22 24 18	
			i					micr sec	
		Ud	iP				PP	Z' 1.0 2.1	
			i				Mx	E 5.1 22	
							Mx	N 5.0 23	
							Mx	Z 13 23	
		Japan (h = 45 km).				Ki	iP2	22 13 20.0 C	
"	10	Up	iPKP1				iPP	22 17 12.3	
			ipPKP1					micr sec	
							P2	Z' 1.8 2.7	
			PKP1				PP	Z' 1.7 2.5	
							Mx	E 4.5 22	
		Ki	ePKP				Mx	N 6.0 22	
		Sk	iPKP1				Mx	Z 5.8 22	
		Ud	iPKP1			Sk	iP1	22 13 14.5	
			ipPKP1				iP2	22 13 16.9	
		De	iPKP1				i(PP)	22 16 55.3	
			ipPKP1				iPP	22 17 07.9	
		Tonga-Kermadec Islands.				Um	iP1	22 13 26.7	
		h = 40 km (Up,Ud,De).					iP2	22 13 29.7	
"	10	Up	i(P)				i(PP)	22 17 18.2	
"	10	Ud	iP				iPP	22 17 31.1	
"	10	Ki	iP				iSKS	22 24 14	
		Ud	iP			De	iP1	22 13 34.5	
		Mindanao (h = 210 km).					iPP	22 17 41.2	
						Mexico (h = N).			
						m = 7.0, M = 6.1 (Up,Ki).			
"	10	Ud	iPKP1		"	12	Up	iP	00 46 59.7
		De	iPKP1				Ki	iP	00 47 45.4
"	10	Ud	iPKP1				Um	iP	00 47 17.7
		De	iPKP1				De	iP	00 46 52.9
						Turkey (h = N).			
"	11	Ud	iPKP1		"	12	Um	iP	02 57 18.6
			i						
		De	iPKP1		"	12	Um	iP	03 07 44.6
"	11	Up	i(P)		"	12	Up	i(P)	11 28 27.1
"	11	Up	i(P)		"	12	Ud	iP	12 32 04.1
			i				i	12 32 17.3	
"	11	Um	i(P)		"	12	Up	iP	13 15 27.9
"	11	Um	iP				i	13 15 37.3	
							iS	13 19 42.9	
"	11	Sk	eP					micr sec	
		Um	iP				P	Z' 0.3 1.2	
"	11	Um	iP				Mx	E 3.4 13	
							Mx	N 3.4 14	
"	11	Um	iP				Mx	Z 6.1 17	
"	11	Up	iPKP1			Ki	iP	13 16 43.1	
			i					micr sec	
		De	iPKP1				P	Z' 0.2 1.5	
			i				Mx	E 4.4 16	
						(cont.)			

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

1975				1975			
Sep.	12	(cont.)		Sep.	13	(cont.)	
		Ki	micr sec			Um	ipPKP1 06 54 39.7
		Mx	N 1.8 10			Ud	ipPKP1 06 54 42.6
		Mx	Z 1.9 10			i	06 54 55.3
		Sk	iP 13 16 06.9			South of Kermadec Islands.	
		Um	iP 13 16 04.2			h = 35 km (Um).	
			i 13 16 12.4				
			iS 13 20 43		"	13	Up
		Ud	iP 13 15 33.8				ipKP 11 32 46.8
			i 13 15 44.1				i 11 32 48.7
			iS 13 20 07.4			Ki	ipKP 11 32 40.3
		De	iP 13 15 00.7				iSKP1 11 35 11.1
		Greece (h = 45 km).				Sk	i(PKP) 11 32 40.0
		m = 5.7, M = 5.2 (Up,Ki).					iSKP1 11 35 28.1
						Um	i(PKP) 11 32 34.2
							ipKP 11 32 47.8
"	12	Sk	eP 14 38 46				iSKP1 11 35 23.7
		e	14 39 25			Ud	ipKP 11 32 48.4
		Ud	iP 14 38 31.2				iSKP1 11 35 37.4
"	12	Up	iSgl 15 03 12.2			De	ipKP1 11 33 00.0
		Ud	iSgl 15 03 29.3			i	11 33 00.8
		De	iPn 15 01 24.3			Fiji Islands (h = 620 km).	
			iSgl 15 02 26.9		"	13	Ud
		Off coast of Lithuania.					iP 11 36 55.5
		Explosion?			"	13	Ki
							iP 13 42 05.6
"	12	Up	eP 15 39 00			California (h = N).	
		iS	15 47 23		"	13	Up
		Ki	iP 15 38 08.4				iP 14 35 24.2
		Um	iP 15 38 31.8				i 14 35 29.1
			iS 15 46 28				micr sec
		Ud	iP 15 39 04.5			P	Z' 0.1 0.8
			ipP 15 39 24.7			i	Z' 0.1 0.9
			iPcP 15 39 36.7			Ki	iP 14 36 38.2 C
		De	eP 15 39 26			Sk	iP 14 36 05.1 C
		Kamchatka.				Um	iP 14 36 01.5
		h = 80 km (Ud).				Ud	iP 14 35 30.7
						i	14 35 35.6
"	12	Ud	iP 22 11 07.1			De	iP 14 34 56.1
		Mongolia (h = N).				i	14 35 01.4
"	13	Ud	iP 00 21 14.6		"	13	Up
"	13	Ki	iP 02 50 21.6				iP 16 16 50.4 C
		Ud	iP 02 50 43.8				micr sec
		California (h = N).				P	Z' 0.1 1.0
"	13	Ud	iP 04 16 49.0			Ki	iP 16 15 56.7
"	13	Up	ipPKP1 06 54 41.3			Sk	iP 16 16 34.3
		ipPKP2	06 54 47.7			Ud	iP 16 16 54.2
			micr sec			De	iP 16 17 16.8
		PKP2	Z' 0.1 0.9			Kamchatka (h = 40 km).	
		Ki	ipPKP1 06 54 20.3		"	13	Ki
		Sk	ipPKP1 06 54 34.9				iP 21 32 27.9
		Um	ipPKP1 06 54 29.6			Ud	iP 21 32 54.3
		(cont.)				California (h = 15 km).	
"	13	Up	ipPKP1 22 51 28.3		"	13	Up
		Ud	ipPKP1 22 51 31.5				ipPKP1 22 51 28.3

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

1975				1975					
Sep.	14	Um	iPKP1	02 02 11.4	Sep.	16	(cont.)		
		Ud	iPKP1	02 02 23.3			Um	iP	00 32 31.5
								i	00 32 36.3
"	14	Ud	iP	05 40 57.2			Ud	iP	00 31 53.7
				Afghanistan-USSR (h = 100 km).				i	00 31 58.1
									Albania (h = 70 km).
"	14	Ki	iP	07 22 03.5	"	16	Ud	iP	03 03 09.3
		Sk	iP	07 22 26.2					
		Um	iP	07 22 08.4	"	16	Ud	iP	04 29 09.4
		Ud	iP	07 22 27.6					Kashmir-India (h = 45 km).
				Molucca Passage (h = 70 km).					
"	15	Ud	iP	01 35 07.5	"	16	Up	iP	05 10 31.2
				Japan (h = 90 km).				i	05 10 47.1
									micr sec
"	15	Ud	iPKP1	02 11 12.1				P	Z' 0.1 1.0
		De	iPKP1	02 11 24.0				i	Z' 0.3 1.5
								Mx	E 2.8 8
"	15	Ud	iP	02 26 48.6				Mx	N 1.5 7
				Luzon (h = 55 km).			Ki	iP	05 11 53.5
								i	05 12 09.6
"	15	Ud	iP	03 37 32.2					micr sec
"	15	Ud	iP	15 08 28.6				i	Z' 0.1 1.5
				Philippine Islands (h = 35 km).				Mx	E 3.3 11
								Mx	N 1.6 9
"	15	Um	iX	17 07 03.9			Sk	iP	05 11 15.3
		Ud	i(PKP)	17 06 54.7			Um	iP	05 11 14.4
			iX	17 07 07.1				ipP	05 11 19.3
		De	iPKP1	17 07 04.6				iS	05 15 27
			i	17 07 15.9			Ud	iP	05 10 38.2
				Tonga Islands (h = 30 km).			De	iP	05 09 55.2
								i	05 10 07.1
"	15	Ud	iP	18 45 32.5					Albania.
		De	iP	18 44 59.2					h = 20 km (Um).
				Turkey (h = 15 km).					m = 5.3 (Up,Ki).
"	15	Ki	iP	22 25 33.7	"	16	Ud	eP	07 23 02
		Um	iP	22 25 37.5					Japan (h = 35 km).
		Ud	iP	22 25 55.1	"	16	Up	iP	11 20 42.8 D
				Celebes (h = 200 km).					micr sec
"	16	Up	iPKP2	00 21 20.3				P	Z' 0.2 1.0
				micr sec			Ki	iP	11 20 11.5 D
			PKP2	Z' 0.1 1.2					micr sec
		Ki	iPKP1	00 20 41.2				P	Z' 0.1 1.0
				micr sec			Sk	iP	11 20 39.2
			PKP1	Z' 0.3 1.3			Um	iP	11 20 25.0 D
		Um	iPKP1	00 20 47.4			Ud	iP	11 20 50.0 D
		Ud	iPKP2	00 21 22.5			De	iP	11 21 00.7
		De	iPKP2	00 21 30.7					Bonin Islands (h = 370 km).
				South Island, New Zealand					m = 5.6 (Up,Ki).
				(h = 30 km).	"	16	De	iPKP1	12 11 11.6
"	16	Sk	eP	00 32 34					Fiji Islands (h = 520 km).
				(cont.)					

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

1975						1975						
Sep.	16	Ki	iP	12 57 35.6		Sep.	17	Ud	iP	17 02 33.4		
		De	iP	12 56 39.6				"	17	Ki	iP	18 33 17.6
				Turkey (h = 15 km).						Ud	iP	18 33 43.0
	"	16	Up	iPKP1	17 10 08.5					Mindanao (h = 70 km).		
			Ud	iPKP1	17 10 10.4			"	17	Up	iP	23 09 14.6
			De	iPKP1	17 10 21.6					i		23 09 19.6
	"	16	Um	iP	17 24 01.6					i		23 09 36.7
			Ud	iP	17 24 31.6					iS		23 13 29.3
	"	16	Sk	e	18 50 56					P	Z'	0.1 1.7
			Um	iP1	18 50 43.4					Mx	E	1.4 15
				iP2	18 50 47.0					Mx	N	1.2 14
				i	18 50 54.4				Ki	iP		23 10 27.2
			Ud	iP2	18 50 09.5							micr sec
					Albania (h = 50 km).					Mx	E	1.2 11
	"	16	Ud	iP	18 59 21.1				Sk	iP		23 09 55.4
					Albania (h = N).					i		23 09 58.7
	"	17	Ki	iP	01 59 18.0				Um	iP		23 09 54.7
					Mariana Islands (h = 310 km).					i		23 09 59.7
	"	17	Up	iP	03 10 47.3				Ud	iP		23 09 21.9
				i	03 10 50.8					i		23 09 26.0
				ipP	03 11 08.4				De	iP		23 08 47.2
					micr sec					i		23 08 51.1
												Greece (h = 35 km).
												M = 4.8 (Up,Ki).
				pP	Z'	0.1 1.0		"	17	Up	iP	23 49 10.0
			Ki	iP		03 10 41.6						micr sec
			Sk	ipP		03 11 25.5				P	Z'	0.1 1.1
			Um	iP		03 10 39.9				Ki	i	23 50 32.2
				i		03 10 42.9				Sk	iP	23 49 50.3
				ipP		03 11 02.3					i	23 49 57.0
			Ud	iP		03 11 00.1				Um	iP	23 49 49.9
				i		03 11 03.6				Ud	iP	23 49 16.9
			De	iP		03 11 01.5					i	23 49 20.9
					Burma.					De	iP	23 48 40.6
					h = 90 km (Up,Um).							Greece (h = 45 km).
	"	17	Up	iP	03 56 00.8			"	18	Um	iPKP1	01 37 11.7
			Ki	iP	03 56 07.9						ipKP2	01 37 20.7
			Um	iP	03 55 58.2					Ud	ipKP2	01 37 41.2
			Ud	iP	03 56 17.6							North Island, New Zealand
					Afghanistan-USSR (h = 140 km).							(h = 200 km).
	"	17	Ki	iP	09 19 03.6			"	18	Ki	iP	05 07 22.4
			De	iP	09 18 09.2							micr sec
	"	17	Um	i(P)	11 13 00.8					P	Z'	0.6 2.0
	"	17	Ki	iP	11 27 43.4					Sk	iP	05 08 10.1
			Ud	iP	11 27 08.1						ipP	05 08 17.1
					Turkey (h = 45 km).					Um	iP	05 08 11.2
											ipP	05 08 20.2
	"	17	Up	iP	14 54 05.4 C							North of Svalbard.
												h = 35 km (Sk,Um).

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

1975				1975			
Sep.	18	Ud eP	11 55 33	Sep.	19	Up iP	02 54 02.9
		Afghanistan-USSR (h = 40 km).				i	02 54 09.6
"	18	Up i	12 48 23.7			P	Z' 0.1 1.0
		Ud iPgl	12 46 56.5			Ki iP	02 53 09.3
		i	12 47 18.6			Sk iP	02 53 46.5
		iRg	12 47 26.8			Um iP	02 53 32.7
		Southeast Norway.				Ud iP	02 54 06.1
		Near-surface event.				De iP	02 54 28.2
		Cf with the following event.				Kamchatka (h = 40 km).	
"	18	Up iSgl	13 48 37.1	"	19	Up iP	03 26 01.8 C
		Sk iSgl	13 48 15.1			i	03 26 03.8
		Um iSgl	13 49 33.3			P	Z' 0.1 0.9
		Ud iPgl	13 47 14.4			Ki iP	03 25 13.7
		iSgl	13 47 34.3			P	Z' 0.1 0.5
		i	13 47 36.7			Um iP	03 26 36.2
		iRg	13 47 43.9			Ud iP	03 26 07.6 C
		De iSgl	13 49 12.9			i	03 26 09.3
		Southeast Norway,				De iP	03 26 26.1
		60.8°N, 10.8°E.				Kurile Islands (h = 120 km).	
		Origin time = 13 46 48.				m = 5.9 (Up,Ki).	
		m = 4.2, M _L = 2.6 (Up,Um,Ud).					
		Near-surface event.					
"	18	Ud iP	16 52 25.3 D	"	19	Up	micr sec
"	18	Up iPKP1	18 38 25.9			Mx E	5.1 28
		i	18 38 39.3			Mx N	7.2 21
		Ud iPKP1	18 38 27.7			Mx Z	12 29
		i	18 38 40.9			Ki	micr sec
		Tonga-Kermadec Islands				Mx E	8.1 22
		(h = 40 km).				Mx N	6.4 19
						Mx Z	11 18
"	18	Up iPKP1	18 49 21.8			Um iSKS	04 02 18
		Ud iPKP1	18 49 23.4 C			Ud IPP	03 56 09.7
		i	18 49 35.9			South Indian Ocean (h = N).	
		De iPKP1	18 49 34.3			M = 6.3 (Up,Ki).	
		i	18 49 47.3	"	19	De iP	12 05 52.5
"	18	Up iPKP1	19 03 10.6			Turkey (h = 90 km).	
		Ud iPKP	19 03 11.8	"	19	Ud iP	13 54 10.7
		i	19 03 24.9			De iP	13 53 55.9
		Tonga-Kermadec Islands				Iran (h = 60 km).	
		(h = N).		"	19	Up iP	14 25 42.9
"	18	Ud iP	23 03 32.0	"	19	Ud iP	15 28 24.5
"	18	Up iP	23 12 58.6	"	19	Up iP	18 05 37.7
		i	23 13 04.5			i	18 05 46.4
		Ki iP	23 12 50.9			iS	18 14 39
		Um iP	23 12 50.3			micr sec	
		Ud iP	23 13 10.8			P	Z' 0.3 1.0
		Burma (h = N).				(cont.)	

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

1975					1975				
Sep.	19	(cont.)			Sep.	20	Up	iP	06 23 43.3
		Up		micr sec					micr sec
		Mx	E	6.0 22				P	Z' 0.1 1.2
		Mx	N	11 22		Ki	iP		06 24 04.6
		Mx	Z	11 23					micr sec
		Ki	iP	18 04 54.9				P	Z' 0.2 1.5
				micr sec		Um	iP		06 23 51.4
		P	Z'	0.3 1.0		Ud	iP		06 23 53.8
		Mx	E	14 24		De	ipP		06 23 50.0
		Mx	N	11 18		Chagos Archipelago (h = N).			
		Mx	Z	9.2 17		m = 5.8 (Up,Ki).			
		Sk	iP	18 05 30.4		"	20	Ud	iPKP1 13 36 42.0
		Um	iP	18 05 14.1				De	ePKP1 13 36 54
			iS	18 13 52		Tonga-Kermadec Islands			
		Ud	iP	18 05 44.5		(h = 390 km).			
			i	18 05 54.0		"	20	Up	iP 15 58 57.2
		De	iP	18 06 01.9				Ki	iP 15 59 44.7 D
		Japan (h = 45 km).						Ud	iP 15 59 11.3
		m = 6.3, M = 6.2 (Up,Ki).							i 15 59 29.6
"	19	Up	iP	21 55 20.7				De	iP 15 58 49.6
		Um	iP	21 55 22.8				Turkey (h = N).	
		Ud	iP	21 55 00.3		"	20	Up	eP 21 53 04
		North Atlantic Ocean (h = N).						Sk	eP 21 53 50
"	19	Ud	iPKP1	23 17 01.1				Ud	iP 21 53 10.7
		De	iPKP1	23 17 11.6				De	i(pP) 21 52 33.3
"	19	De	iPKP	23 34 23.0				Greece (h = 15 km).	
			i	23 34 36.0		"	21	Ki	iP 06 26 20.8
		Solomon Islands (h = 45 km).						Ud	iP 06 26 28.5
"	20	Up	iP	05 27 45.3				De	iP 06 26 26.1
				micr sec				Hindu Kush (h = 200 km).	
		P	Z'	0.1 0.8		"	21	Up	iS 13 36 18
		Ki	iP	05 28 52.4					micr sec
				micr sec				Mx	E 1.6 21
		P	Z'	0.1 0.5				Mx	N 2.0 22
		Sk	iP	05 28 24.0				Mx	Z 4.4 19
		Um	iP	05 28 17.1			Ki	iP	13 25 37.2
		Ud	iP	05 27 53.0					micr sec
		De	iP	05 27 21.1				P	Z' 1.3 3.1
		Crete (h = 70 km).						Mx	E 2.7 15
		m = 5.6 (Up,Ki).						Mx	N 2.6 14
"	20	Up	iP	05 45 42.8				Mx	Z 4.1 22
		Ki	iP	05 46 44.2			Sk	iP	13 25 30.8
		Um	iP	05 46 09.7			Um	iS	13 36 18
		Ud	iP	05 45 54.0			Ud	iP	13 25 38.9
		De	eP	05 45 23			Mexico (h = N).		
		Turkey (h = N).					M = 5.8 (Up,Ki).		
"	20	Ud	iP	06 14 36.0		"	21	Up	iP 14 23 36.2
		Caucasus (h = 60 km).						ipP	14 24 56.7
							(cont.)		

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

1975				1975			
Sep.	21	(cont.)		Sep.	22	Um iP	16 36 25.3
		Up	micr sec			Ud iP	16 36 13.2
		P	Z' 0.2 1.0			i	16 36 24.8
		Mx	E 2.3 20			Turkey (h = 20 km).	
		Mx	N 3.2 20				
		Ki iP	14 24 14.0	"	22	Up iP	23 07 42.4
		iPP	14 25 45.0			Ki eP	23 08 22
			micr sec			Um iP	23 07 57.9
		P	Z' 0.2 1.0			i	23 08 09.1
		Mx	E 2.7 16			Ud iP	23 07 58.9
		Mx	N 2.6 17			Iran (h = N).	
		Sk iP	14 24 11.2	"	23	De i(P)	10 26 43.7
		Um iP	14 23 49.4				
		iPP	14 25 27.1	"	23	Ud iPKP	10 27 00.0
		Ud iP	14 23 50.6			Fiji Islands (h = 530 km).	
		i	14 23 54.5				
		De iP	14 23 34.6	"	23	Up i(P)	15 45 11.0
		Iran (h = N).				(P)	Z' 0.1 0.9
		m = 5.9, M = 5.3 (Up,Ki).				Ud i(P)	15 45 29.4
"	21	Um iP	16 07 59.9	"	23	Um iP	18 15 17.8
		Ud iP	16 07 52.3			Ud iP	18 15 01.6
		De iP	16 08 24.3	"	23	Up iP	21 39 13.7
		Guatemala (h = 100 km).				i	21 39 40.8
"	21	Ki iP	20 12 28.1			Um iP	21 39 50.3
		Ud i	20 12 27.8			Ud iP	21 39 21.8
		Turkey (h = N).				De iP	21 38 51.0
"	22	Up iP	00 50 17.3			Dodecanese Islands	
		iS	00 54 35.1			(h = 170 km).	
			micr sec	"	24	Up iP	01 06 56.9
		P	Z' 0.1 0.8			i	01 07 19.3
		Mx	E 2.5 12			iS	01 16 51
		Mx	N 1.3 8				micr sec
		Mx	Z 2.2 8			P	Z' 0.5 1.2
		Ki iP	00 51 24.0			Mx	N 2.4 15
		i	00 57 46.8			Ki iP	01 06 20.6 D
			micr sec				micr sec
		P	Z' 0.3 0.9			P	Z' 0.4 1.5
		Mx	E 3.4 11			Mx	E 2.4 14
		Mx	N 1.7 10			Mx	N 1.4 14
		Sk iP	00 50 56.1			Mx	Z 3.8 15
		Um iP	00 50 48.6			Um iP	01 06 36.4 D
		Ud iP	00 50 25.3			iS	01 16 11
		De iP	00 49 53.1			Ud iP	01 07 03.9
		Crete (h = 60 km).				De iP	01 07 16.9
		m = 5.8, M = 5.2 (Up,Ki).				Japan (h = 50 km).	
"	22	Up ipP	13 01 02.3			m = 6.1, M = 5.7 (Up,Ki).	
			micr sec	"	24	Up	micr sec
		pP	Z' 0.1 1.2			Mx	E 2.5 19
		Ki iP	13 01 55.3			Mx	N 4.1 19
		Um iP	13 01 22.1			Mx	Z 1.5 19
		Ud ipP	13 01 15.8			(cont.)	
		De iP	13 00 39.4				
		Turkey (h = N).					

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

1975						1975						
Sep.	24	(cont.)				Sep.	24	(cont.)				
		Ki		micr	sec			Ki		micr sec		
		Mx	E	4.2	18			P	Z'	0.2 1.5		
		Mx	N	3.7	17			Mx	E	9.4 15		
		Mx	Z	5.7	18			Mx	N	10.0 17		
		Ud	iPKP1	02 07	07.6			Mx	Z	14 18		
		De	iPKP1	02 07	19.6			Um	iP	17 31 58.8		
		Tonga Islands (h = N).						i		17 32 04.6		
		M = 6.3 (Up,Ki).						iS		17 42 17		
"	24	Ki	iP	07 16	05.7			Ud	iP	17 32 00.5		
		Um	iP	07 16	22.4			De	iP	17 32 13.5		
		Ud	iP	07 16	49.8			Gulf of California (h = N).				
		Japan (h = N).						M = 6.3 (Up,Ki).				
"	24	Up	iP	11 14	46.5 C		"	24	Up	Mx	22 17	
		iS		11 24	28				Mx	E	3.1 14	
				micr	sec				Mx	N	2.5 13	
		P	Z'	0.1	1.0				Mx	Z	4.8 15	
		Mx	E	3.0	16			Ki	Mx	22 09		
		Mx	N	5.6	22					micr sec		
		Mx	Z	6.9	26				Mx	E	2.7 18	
		Ki	iP	11 15	27.6 C				Mx	N	4.5 19	
		i		11 15	39.3				Ryukyu Islands (h = N).			
				micr	sec				M = 5.9 (Up,Ki).			
		i	Z'	0.2	1.4			"	24	Up		
		Mx	E	3.7	16					micr	sec	
		Mx	N	5.0	16				Mx	E	1.8 11	
		Mx	Z	6.7	16				Mx	N	2.3 16	
		Um	iP	11 15	08.2				Mx	Z	3.8 12	
		iS		11 25	09			Ki		micr	sec	
		Ud	iP	11 14	41.9				Mx	E	1.2 14	
		De	iP	11 14	23.8				Mx	N	2.0 15	
		South Atlantic Ocean (h = N).							Mx	Z	1.9 18	
		m = 5.9, M = 6.0 (Up,Ki).							Ud	iP	22 56 54.1	
"	24	Ki	iP	15 47	34.1				Ryukyu Islands (h = 25 km).			
		Um	iP	15 47	05.4				M = 5.7 (Up,Ki).			
		Ud	iP	15 47	00.5			"	25	Up	i(P)	04 36 37.2
		i		15 47	13.4			"	25	Ud	iP	05 35 55.7
		De	iP	15 46	39.0			"	25	De	iPKP1	14 08 49.8
		Turkey (h = N).							Fiji Islands (h = 630 km).			
"	24	Ud	iSgl	17 24	17.2			"	25	Up	i(P)	14 17 07.5
		i		17 24	18.6			"	25	Ki	iP	14 37 11.2
		iRg		17 24	29.4					Um	iP	11 37 21.4
		Regional near-surface event.								Ud	iP	14 37 55.2
"	24	Up	iP	17 32	07.2					De	iP	14 38 08.0
		iS		17 42	36				USSR-Mongolia (h = N).			
				micr	sec			"	25	De	iPKP	18 29 03.7
		Mx	E	3.8	18				Solomon Islands (h = 60 km).			
		Mx	N	7.1	16							
		Mx	Z	10	18							
		Ki	iP	17 31	45.5							
		(cont.)										

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

1975				1975					
Sep.	26	Up	iSgl	00 50 59.1	Sep.	29	Ud	iP	08 17 06.0
		Um	iSgl	00 51 13.1				i	08 17 18.2
		Ud	iSgl	00 50 01.9	"	29	Up	iP	11 06 15.6
			i	00 50 06.8			Ki	iP	11 05 17.3 D
		De	iSgl	00 51 35.2				i	11 05 31.6
		Off coast of west Norway, 62.7°N, 5.0°E.						P	Z' 0.1 0.9
		Origin time = 00 47 38.						i	Z' 0.1 0.9
		m = 4.3, M _L = 2.7 (Up,Ud).					Sk	i	11 06 27.3
		By combination with Bergen and Kongsberg readings.					Um	iP	11 05 42.0
"	26	Ud	iPKP1	04 37 12.9			Ud	i	11 06 59.9
		De	iPKP1	04 37 22.6			De	iP	11 06 48.3
		Tonga-Kermadec Islands (h = 550 km).					Siberia (h = 0 km).		
"	26	Um	iP	21 15 04.0	"	29	Up	i(P)	12 03 50.0
"	26	Ki	iP	22 02 18.8	"	29	Ki	iP1	12 21 47.7 C
				micr sec				P1	Z' 0.1 0.6
			P	Z' 0.3 1.9			Sk	eP2	12 22 10
		Panama (h = N).					Um	iP2	12 21 42.1
"	27	Ud	iP	22 46 13.9			Ud	iP1	12 22 01.9
		California (h = 10 km).						iP2	12 22 04.0
"	28	Up	iPKP1	09 32 29.5			De	iP1	12 22 00.7
				micr sec				iP2	12 22 02.6
			PKP1	Z' 0.1 1.0				i	12 22 11.2
		Ud	iPKP1	09 32 32.6			Tadzhik-Sinkiang (h = 55 km).		
		De	iPKP1	09 32 43.1	"	29	Up	iP	13 53 46.2
		Tonga-Kermadec Islands (h = 500 km).						P	Z' 0.2 0.9
"	28	Ud	iP	15 42 00.9			Ki	iP	13 53 37.6
"	28	Ki	iP	20 29 09.5				i	13 53 40.7
		Um	iP	20 29 32.5				P	Z' 0.6 2.1
		Ud	iP	20 30 03.8			Sk	iP	13 54 00.7
		Kurile Islands (h = 100 km).						i	13 54 04.1
"	28	Ud	iSgl	23 46 27.7			Um	iP	13 53 37.6
		Off coast of west Norway, 61.6°N, 4.4°E.					Ud	iP	13 53 57.5
		Origin time = 23 44 03.						i	13 54 00.7
		By combination with Bergen and Kongsberg readings.					De	iP	13 53 58.6
"	29	Um	iPKP	06 10 21.5			Burma (h = 60 km).		
		Ud	iPKP1	06 10 30.0			m = 6.1 (Up,Ki).		
			i	06 10 42.5	"	29	Up	iP	14 50 02.8
		Tonga-Kermadec Islands (h = N).						i(PP)	14 53 02.3
"	29	Ud	iP	06 52 23.8				iPP	14 54 11.1
		Ascension Island (h = N).						iSKS	15 00 38
									micr sec
							P	Z' 0.1 1.0	
							PP	Z' 0.1 1.1	
							Mx	E 7.8 26	
							Mx	N 14 29	
							Mx	Z 19 25	
							Ki	iP	14 49 46.9
							(cont.)		

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

1975				1975			
Sep.	29	(cont.)		Sep.	30	(cont.)	
		Ki	micr sec			Ki	iP 04 04 33.7
		P	Z' 0.3 1.5			Sk	iP 04 04 19.1
		Mx	E 13 18			Ud	iP 04 04 19.3
		Mx	N 11 19				ipP 04 04 53.9
		Mx	Z 14 20			De	iP 04 04 17.9
		Sk	iP 14 50 08.5				ipP 04 04 51.5
		i	14 54 24.8			Peru.	
		Um	iP 14 49 50.5			h = 140 km (Ud,De).	
		iSKS	15 00 23				
		Ud	iP 14 50 08.9	"	30	Up	eP 04 09 55
		De	iP 14 50 16.5			Ud	iP 04 10 04.9
		Molucca Sea (h = 25 km).				Formosa (h = 210 km).	
		m = 6.6, M = 6.5 (Up,Ki).					
"	29	Up	iP 15 19 01.0	"	30	Ud	iP 06 01 04.9
		Ki	iP 15 18 43.8	"	30	Ud	iP 07 54 49.3
		P	Z' 0.2 1.3			Tyrrhenian Sea (h = 330 km).	
		Um	iP 15 18 46.7	"	30	Sk	eP 13 40 36
		Ud	iP 15 19 08.5 C			Ud	iP 13 40 18.3
		Talaud Islands (h = 70 km).		"	30	Up	i(P) 14-46 31.8
"	29	Up	iPKP1 18 43 20.3	"	30	Um	iP 15 47 55.5
		Ud	iPKP1 18 43 22.1			Ud	iP 15 47 48.6
		i	18 43 34.3			i	15 48 07.8
		De	iPKP1 18 43 32.7			Guatemala (h = 110 km).	
		Tonga-Kermadec Islands (h = 80 km).		"	30	Ud	iP 16 23 23.1
"	29	Up	iPKP1 19 08 34.2			Molucca Sea (h = 60 km).	
		i	19 08 36.3	"	30	Up	iP 18 30 53.8
		i	19 08 48.6			iPP	18 34 29.6
		i	19 08 59.8				micr sec
		PKP1	Z' 0.1 1.0			P	Z' 0.1 1.1
		i	Z' 0.1 1.0			Mx	E 2.8 24
		Um	iPKP1 19 08 23.4			Mx	N 4.6 23
		Ud	iPKP1 19 08 35.4			Mx	Z 5.7 21
		i	19 08 38.4			Ki	iP 18 30 54.0 C
		i	19 08 50.4				micr sec
		i	19 09 01.9			P	Z' 0.1 0.8
		De	iPKP1 19 08 46.6			Mx	E 4.4 17
		i	19 08 49.3			Mx	N 5.8 18
		i	19 09 00.7			Mx	Z 6.6 20
		i	19 09 10.8			Sk	iP 18 31 07.5
		Tonga-Kermadec Islands (h = N).				Um	iP 18 30 51.5
		Multiple event.				iS	18 41 47
"	30	Ki	iP 02 30 23.5			Ud	iP 18 31 02.9
						De	iP 18 31 02.5
"	30	Up	iP 04 04 28.2			Sumatra (h = N).	
			micr sec			m = 6.1, M = 6.0 (Up,Ki).	
		P	Z' 0.2 1.4	"	30	Ud	iP 22 11 29.6
		(cont.)					

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SEISMOLOGICAL BULLETIN

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

O C T O B E R 1 - 31, 1975

1975					1975				
Oct.	1	Up	iP	03 43 01.8	Oct.	1	Up	iP	04 26 32.0
			i	03 43 03.9				ipP	04 26 41.6
			ipP	03 43 14.9				iPP	04 30 15.2
			i	03 46 20.0					micr sec
			iPP	03 46 44.5				P	Z' 0.4 1.5
			iSKS	03 53 33				PP	Z' 0.2 1.3
				micr sec			Ki	iP	04 26 31.5
			P	Z' 0.4 1.3				i	04 26 32.4
			PP	Z' 1.3 1.8				i	04 30 10.6
			Mx	E 23 19					micr sec
			Mx	N 60 22				P	Z' 0.7 1.3
			Mx	Z 55 19				i	Z' 0.9 2.4
		Ki	iP	03 43 02.2			Sk	iP	04 26 45.8
			i	03 43 03.7			Um	iP	04 26 29.6
			iPP	03 46 45.5				iPP	04 30 03.8
			iSKS	03 53 27			Ud	iP	04 26 40.8
			iS	03 53 56.3				i	04 26 41.9
				micr sec				ipP	04 26 51.4
			P	Z' 1.2 1.5				i	04 30 16.7
			PP	Z' 0.5 1.6			De	iP	04 26 40.2
			Mx	E 52 19				ipP	04 26 50.4
			Mx	N 42 17					Sumatra.
			Mx	Z 60 19					h = 35 km (Up,Ud,De).
		Sk	iP	03 43 17.1					m = 6.8 (Up,Ki).
			i	03 43 18.3			"	1	Up
			ipP	03 43 28.6					iP
			iPP	03 47 06.6					ipP
				micr sec					
		Um	iP	03 43 01.2					P
			i	03 43 02.3					Z' 0.1 0.9
			iPP	03 46 34.9					PP
			iS	03 54 07.4					Z' 0.2 1.5
		Ud	iP	03 43 12.5				Ki	iP
			i	03 43 14.0					micr sec
			i	03 46 36.6					Z' 0.1 1.2
		De	iP	03 43 10.5				Sk	iP
			i	03 43 13.3					04 28 29.6
			iPP	03 46 56.5					i
									04 28 30.7
		Sumatra.							ipP
		h = 35 km (Up,Sk).							04 28 39.9
		m = 6.9, M = 7.1 (Up,Ki).						Um	iP
									04 28 13.3
								Ud	iP
									04 28 26.1
									iPP
									04 32 10.9
								De	iP
									04 28 23.9

(cont.)

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

1975					1975				
Oct.	3	(cont.)			Oct.	3	Up	iP	13 50 48.0
		Ki	iP	05 22 48.7 C			Ki	iP	13 50 47.0
			i	05 22 50.4					micr sec
			iPP	05 24 39.2				P	Z' 0.1 0.7
			iS	05 29 34			Sk	iP	13 51 01.1
				micr sec			Um	iP	13 50 45.0
			P	Z' 0.5 1.1			Ud	iP	13 50 57.7
			PP	Z' 1.2 2.4			De	iP	13 50 56.4
			Mx	E 96 12					Sumatra (h = N).
			Mx	N 76 13					
			Mx	Z 112 12	"	3	Up	iPKP	14 35 06.6
		Sk	iP	05 22 59.1 C			Ki	iPKP	14 34 54.5
			i	05 23 00.6			Sk	iPKP	14 35 05.1
		Um	iP	05 22 34.1 C			Um	iPKP	14 35 00.2
			i	05 22 35.6			Ud	iPKP	14 35 09.9
			iS	05 29 04			De	iPKP	14 35 15.4
		Ud	iP	05 22 45.9 C					Solomon Islands (h = 55 km).
			i	05 22 47.8					
		De	iP	05 22 38.2	"	3	Up	iP	15 03 45.9
			i	05 22 39.4			Ki	iP	15 04 35.5
			iPP	05 24 23.4					micr sec
				Pakistan (h = 10 km).				P	Z' 0.1 1.0
				m = 6.3, M = 7.0 (Up,Ki).			Um	iP	15 04 05.0
"	3	Ki	iP	09 29 48.6				i	15 04 39.6
		Ud	iP	09 30 32.1			Ud	iP	15 04 01.2
								i	15 04 31.1
"	3	Up	iP	10 04 18.3 C			De	iP	15 03 39.1
				micr sec					Turkey (h = N).
			P	Z' 0.1 0.9	"	3	Up	iP	17 39 38.3 D
		Ki	iP	10 03 24.5 C			i	17 39 41.4	
		Um	iP	10 03 50.8 C			iPP	17 41 23.5	
		Ud	iP	10 04 19.9 C			iS	17 46 10	
			i	10 04 28.9					micr sec
		De	iP	10 04 41.6 C			P	Z' 0.1 1.0	
				Aleutian Islands (h = 15 km).			i	Z' 0.6 1.2	
"	3	Up	i(P)	12 20 29.4			PP	Z' 1.9 2.0	
		Ud	i(P)	12 20 48.7			Mx	E 36 16	
"	3	Up	iP	13 24 07.5			Mx	N 44 15	
		Ki	iP	13 23 55.1			Mx	Z 67 15	
		Sk	iP	13 24 14.7			Ki	iP	17 39 56.7 D
		Ud	iP	13 24 14.4			i	17 40 00.0	
		De	iP	13 24 19.4			iPP	17 41 49.9	
				Flores Sea (h = 240 km).					micr sec
"	3	Up	iP	13 27 02.5			P	Z' 0.3 1.3	
		Sk	iP	13 27 31.2			PP	Z' 1.2 2.5	
		Um	iP	13 27 05.6			Mx	E 38 12	
		Ud	iP	13 27 17.4			Mx	N 45 11	
		De	iP	13 27 10.6			Mx	Z 50 12	
"	3	Up	iP	13 28 28.7			Sk	iP	17 40 07.3 D
		Ud	iP	13 28 47.7			i	17 40 10.2	
		De	iP	13 28 28.2			Um	iP	17 39 42.5 D
							i	17 39 45.3	
							iPP	17 41 27.9	
							iS	17 46 09	
							(cont.)		

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

1975				1975			
Oct.		(cont.)		Oct.		(cont.)	
	3				3		
		Ud	iP 17 39 54.7 D			De	iP 19 16 20.9
			i 17 39 57.7			Pakistan (h = 25 km).	
			i 17 42 42.8		"	4	Up iP 00 29 37.7
		De	iP 17 39 47.1 D				Ki iP 00 29 37.6
			i 17 39 49.2				micr sec
			iPP 17 41 27.6				P Z' 0.1 1.0
		Pakistan (h = N).					Um iP 00 29 34.8
		m = 6.2, M = 6.7 (Up,Ki).					Ud iP 00 29 47.3
"	3	Up	iP 18 03 06.5				De iP 00 29 45.8
		Ki	i 18 03 30.1			Sumatra (h = N).	
		Um	iP 18 03 11.1	"	4	Ud	iP 03 47 38.0
		Ud	iP 18 03 23.2	"	4	Up	iPKP1 03 54 19.0
		De	iP 18 03 16.3				i 03 54 30.7
		Pakistan (h = N).					Ki iPKP1 03 54 00.9
"	3	Up	iSn 18 04 42.9				Sk iPKP1 03 54 14.5
			iS* 18 05 12.2				Um iPKP1 03 54 10.3
		Ki	iSgl 18 05 53.7				Ud iPKP1 03 54 21.1
		Sk	i 18 03 00.6	"	4	Up	iP 05 00 07.9
			iSn 18 03 15.8				Sk eP 05 00 51
		Um	iSn 18 04 34.5				Ud iP 05 00 17.9
			iSgl 18 05 07.7	"	4	Up	iP 06 07 50.0
		Ud	iPn 18 02 59.2				Sk iP 06 08 18.9
			iSn 18 04 02.2				Ud iP 06 08 04.7
			iSgl 18 04 26.0			Pakistan (h = 15 km).	
		De	iSn 18 05 08.2	"	4	Up	iP 20 26 41.9
		Off coast of west Norway,					Ki iP 20 26 04.1
		near 68 1/4° N, 4 1/2° E.					Um iP 20 26 20.7
		Origin time = 18 01 35.					Ud iP 20 26 49.0
		m = 4.7, M _L = 3.7 (Um,Ud).				Japan (h = 20 km).	
		By combination with Bergen		"	4	Up	iP 21 40 57.6
		and Kongsberg readings.					i 21 41 07.8
"	3	Up	iP 18 38 03.4 D				Sk iP 21 40 43.1
			micr sec				Um iP 21 40 59.9
			P Z' 0.4 1.5				Ud iP 21 40 48.0
		Ki	iP 18 37 46.3 D	"	4	Up	iP 23 25 23.4
			micr sec				iS 23 36 08
			P Z' 1.2 2.7				micr sec
		Sk	iP 18 37 12.2				Mx E 3.1 20
			iS 18 39 42.8				Mx N 4.8 22
		Um	iP 18 37 57.4 D				Mx Z 7.7 25
		Ud	iP 18 37 38.7	"	4	Up	iP 23 25 35.2
		De	iP 18 38 06.6				micr sec
		Iceland (h = N).					i Z' 0.3 1.8
		m = 5.6 (Up,Ki).					Mx E 6.0 25
"	3	Up	iP 19 16 12.7				Mx N 2.5 20
		Ki	eP 19 16 29				Mx Z 4.1 22
		Sk	iP 19 16 41.3			(cont.)	
		Um	iP 19 16 16.9				
		Ud	iP 19 16 29.5				
		(cont.)					

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

1975				1975			
Oct.				Oct.			
4	(cont.)			6	(cont.)		
	Sk	iP	23 25 06.7		Ki	iPKP	10 10 40.8
		i	23 25 13.5			iSKP1	10 13 26.0
	Um	iP	23 25 25.1				micr sec
		iS	23 36 13			PKP	Z' 0.1 1.1
	Ud	iP	23 25 12.7		Sk	iPKP	10 10 49.1
	De	iP	23 25 15.0		Um	i(PKP)	10 10 38.7
	Panama (h = N).					iSKP1	10 13 36.6
	M = 6.0 (Up,Ki).				Ud	iPKP1	10 10 53.8 C
"	5	Ud	iP 01 12 31.2		De	iPKP	10 11 01.1
"	5	Sk	ePKP 01 49 33			iPKP1	10 11 03.8
		Um	iPKP 01 49 26.2		Tonga-Kermadec Islands		
		Ud	iPKP 01 49 34.0	"	6	Ki	iP 12 49 45.4
		De	iPKP 01 49 40.1			Um	iP 12 49 34.8
	Solomon Islands (h = 45 km).					Ud	iP 12 49 53.5
"	5	Up	iP 04 33 46.5			De	iP 12 49 49.6
		Ki	iP 04 33 37.1		Afghanistan-USSR (h = 230 km).		
		Ud	iP 04 34 09.9	"	6	Um	iP 12 59 47.8
"	5	Up	iP 05 44 09.0			Ud	iP 13 00 00.4
		Ki	iP 05 43 33.5		Pakistan (h = 25 km).		
		Um	iP 05 43 49.0	"	6	Ki	iP 14 05 37.6
		Ud	iP 05 44 16.8			Sk	iP 14 06 04.8
"	5	Up	iP 12 58 05.6 C			Ud	iP 14 06 09.5
		Ki	iP 12 57 46.4			i	14 06 22.3
		Ud	iP 12 58 14.8 C		Luzon (h = 30 km).		
	Luzon (h = N).			"	6	Ki	iP 21 34 35.3
"	5	Ud	iP 14 45 08.2			Ud	iP 21 33 33.4
	Sea of Japan (h = 250 km).					De	iP 21 33 03.8
"	5	Up	iP 15 44 24.4		Crete (h = 40 km).		
		Ki	iP 15 44 07.6 D	"	6	Up	iP 22 29 59.9
			micr sec				micr sec
		P	Z' 0.1 1.2			Mx	E 3.7 11
		Mx	E 2.9 21			Mx	N 9.7 15
		Mx	N 2.8 23		Ki	iP	22 29 54.5
		Mx	Z 3.0 19		Sk	iP	22 29 33.6
	Ud	iP	15 44 33.3 D			i	22 29 43.3
	Philippine Islands (h = 70 km).				Um	iP	22 30 00.1
"	6	Up	iP 05 37 11.6		Ud	iP	22 29 42.4
		Um	iP 05 36 50.9 D		North Atlantic Ocean (h = N).		
		Ud	iP 05 37 18.9	"	6	Up	iPKP 22 43 15.1
		De	eP 05 37 32			iPP	22 45 17.7
	Japan (h = 20 km).					iSKP1	22 46 38.9
"	6	Up	iPKP1 10 10 52.0 C			i(SKKP)	22 56 01.9
			micr sec				micr sec
		PKP1	Z' 0.5 0.8			PKP	Z' 0.2 1.2
	Ki	i(PKP)	10 10 33.2			Mx	E 35 23
	(cont.)					Mx	N 82 22
						Mx	Z 126 21
					(cont.)		

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

1975				1975						
Oct.	6	(cont.)		Oct.	7					
		Ki	iPKP	22 43 01.9		Up	iSKP1	07 02 48.9		
			iPKKP	22 53 08.2		Um	iPKP	06 59 28.2		
				micr sec		Ud	iPKP	06 59 38.1		
			PKP	Z' 0.2 1.0	"	7	Up	iP	08 39 07.0 C	
			Mx	E 43 21			ipP	08 39 15.6		
			Mx	N 61 22			iS	08 48 18		
			Mx	Z 32 20				micr sec		
		Sk	iPKP	22 43 12.1			P	Z' 0.2 1.0		
			ipPKP	22 43 29.7			pP	Z' 1.7 1.6		
		Um	iPKP	22 43 07.4			Mx	E 16 19		
			ipPKP	22 43 24.6			Mx	N 25 21		
			iPKKP	22 52 57.5			Mx	Z 63 19		
			i	22 55 41.9		Ki	iP	08 39 44.7 C		
			i(SKKP)	22 56 14.4			ipP	08 39 53.6		
		Ud	iPKP	22 43 17.9				micr sec		
			ipPKP	22 43 34.7			P	Z' 1.2 2.0		
			iSKP1	22 46 37.5			pP	Z' 2.4 2.0		
			iSKKP	22 56 30.7			Mx	E 18 19		
		De	iPKP	22 43 24.8			Mx	N 29 17		
			i	22 46 03.1			Mx	Z 21 18		
			iSKP1	22 46 50.6		Sk	iP	08 39 11.6 C		
							ipP	08 39 20.6		
		Santa Cruz Islands.				Um	iP	08 39 28.8 C		
		h = 60 km (Sk,Um,Ud).					ipP	08 39 37.6		
		M = 7.3 (Up,Ki).					iS	08 48 49		
		The (SKKP) phases recorded				Ud	iP	08 38 58.8 C		
		at Up and Um arrive about					ipP	08 39 07.6		
		30 s too early to be inter-				De	iP	08 38 43.0 C		
		preted as SKKP.					ipP	08 38 52.0		
"	7	Um	iP	00 56 29.5				Atlantic Ocean.		
"	7	Ki	iP	05 06 13.5				h = 30 km (Up,Ki,Sk,Um,Ud,		
		Turkey (h = 50 km).						De).		
"	7	Ki	iP	05 10 15.4 C		7	Up	iP	13 05 46.6	
			i	05 10 35.3			Ud	iP	13 05 39.9	
				micr sec		"	7	Up	iP	13 29 43.0 C
			i	Z' 0.1 1.1				ipP	13 29 52.1	
		Um	iP	05 10 12.9					micr sec	
			i	05 10 28.3				P	Z' 0.4 1.5	
		Ud	iP	05 10 24.5				pP	Z' 0.1 0.8	
			i	05 10 35.2		Ki	iP	13 30 20.9 C		
		Sumatra (h = N).					ipP	13 30 30.4		
"	7	Up	iSKP1	07 00 09.3				micr sec		
		Ki	iPKP	06 56 40.4				P	Z' 0.2 1.4	
				micr sec				pP	Z' 0.2 1.2	
			PKP	Z' 0.1 0.5		Sk	iP	13 29 48.4 C		
		Sk	ePKP	06 56 52		Um	iP	13 30 05.3 C		
		Um	iPKP	06 56 46.9			ipP	13 30 14.3		
		Ud	iPKP	06 56 56.1		Ud	iP	13 29 34.4 C		
		De	iPKP	06 57 03.3			ipP	13 29 43.0		
		New Hebrides Islands				De	iP	13 29 19.5 C		
		(h = 120 km).						(cont.)		

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

1975				1975			
Oct.				Oct.			
7	(cont.)			8	(cont.)		
	De	ipP	13 29 28.4		Ki		micr sec
	Atlantic Ocean.				Mx	E	2.8 14
	h = 30 km (Up,Ki,Um,Ud,De).				Mx	N	1.8 14
	m = 6.1 (Up,Ki).				Mx	Z	3.8 15
"	7	De	iP 18 35 36.5		Sk	iP	10 40 07.2
					Um	iP	10 39 50.7
						iS	10 49 56
"	7	Up	iPKP1 23 37 20.5		Ud	iP	10 40 10.5
			micr sec			ipP	10 40 19.9
		PKP1	Z' 0.1 0.7		De	ipP	10 40 26.7
	Ki	e(PKP)	23 36 57		Mindoro.		
		ePKP	23 37 03		h = 35 km (Up,Ud).		
	Sk	iPKP1	23 37 13.4		M = 5.7 (Up,Ki).		
	Um	iPKP1	23 37 07.1	"	8	Up	iPgl 18 22 00.0
	Ud	iPKP1	23 37 22.2			iSgl	18 22 26.8
	De	iPKP1	23 37 31.5 D			i	18 22 29.4
		iPKP2	23 37 41.1		Sk	iPgl	18 22 20.7
	Kermadec Islands (h = 220 km).					iSn	18 22 55.7
"	8	Um	iP 02 21 18.5			iSgl	18 23 02.5
		Ud	i(pP) 02 22 06.0		Um	iPgl	18 22 02.0
	Japan (h = 70 km).					iSgl	18 22 31.2
"	8	Up	iP 08 23 29.4		Ud	iPgl	18 22 10.4
		ipP	08 23 40.1			iSgl	18 22 45.5
			micr sec		Gulf of Bothnia, off coast		
		Mx	E 1.2 20		of Hälsingland, Sweden,		
		Mx	N 1.6 18		61.9°N, 17.6°E.		
	Ki	iP	08 24 00.3		Origin time = 18 21 23.		
			micr sec		m = 4.0, M _L = 2.1 (Sk,Um,		
		P	Z' 0.1 0.7		De).		
		Mx	E 3.6 14	"	8	Up	iP 21 59 07.9
		Mx	N 2.5 13			Ki	iP 21 58 34.8
		Mx	Z 2.1 11			Sk	iP 21 59 06.6
	Sk	iP	08 24 02.5			Um	iP 21 58 48.7
		ipP	08 24 12.5			Ud	iP 21 59 16.7
	Um	iP	08 23 41.6			De	iP 21 59 29.3
		iS	08 30 22		Japan (h = 160 km).		
	Ud	iP	08 23 42.3	"	9	Um	iP 08 41 18.7
		ipP	08 23 51.0	"	9	Up	iP 10 28 49.0 C
	De	iP	08 23 27.5				micr sec
		ipP	08 23 37.5			P	Z' 0.1 0.9
	Iran.				Ki	iP	10 28 08.2
	h = 35 km (Up,Sk,Ud,De).						micr sec
	M = 5.3 (Up,Ki).					P	Z' 0.1 1.0
"	8	Up	iP 10 40 01.4		Sk	iP	10 28 42.9
		ipP	10 40 11.4		Um	iP	10 28 26.5 C
		iS	10 50 20			ipP	10 28 39.0
			micr sec		Ud	iP	10 28 56.2 C
		pP	Z' 0.1 1.0			ipP	10 29 08.5
		Mx	E 1.4 15		De	iP	10 29 11.3
		Mx	N 1.5 14		Japan.		
		Mx	Z 2.0 19		h = 45 km (Um,Ud).		
	Ki	iP	10 39 44.1		m = 5.8 (Up,Ki).		
	(cont.)						

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

1975				1975					
Oct.	9	Ud	iRg	14 00 53.9	Oct.	11	Sk	iPKP	11 42 56.2
				Regional near-surface event.			Um	iPKP	11 42 51.6
							Ud	iPKP	11 43 01.1
"	9	Ki	iP	21 23 28.1				New Hebrides Islands	
				Pakistan (h = 40 km).				(h = 40 km).	
"	10	Up	iPKP1	06 08 34.3	"	11	Up	i	14 53 09.2
		Ki	iPKP	06 08 26.7			Ki	i	14 53 51.0
		Ud	iPKP1	06 08 36.1			Sk	iP	14 53 39.5
		De	iPKP1	06 08 47.5 C			Um	iP	14 53 51.7
				Tonga-Kermadec Islands				i	14 54 01.2
				(h = 580 km).			Ud	iP	14 53 48.0
"	10	Up	iPgl	07 38 02.8				i	14 54 07.2
			iSgl	07 38 12.1			De	iP	14 54 00.8
			iRg	07 38 17.7				i	14 54 09.5
		Ud	i	07 38 29.4					Mexico (h = 60 km).
			iSgl	07 38 33.6	"	11	Up	iPKP1	14 54 47.5 C
				South-central Sweden.				ipPKP1	14 54 51.2
				Origin time = 07 37 50.				iPP	14 57 52.9
				Near-surface event.					micr sec
"	10	Up	i(P)	11 23 20.6				PKP1	Z' 7.7 1.7
"	10	Ud	iP	11 26 56.5				pPKP1	Z' 6.6 1.1
"	10	Ud	i(P)	14 39 21.2				Mx	E 64 24
"	10	Sk	eP	20 06 11				Mx	N 183 22
		Um	iP	20 06 08.3				Mx	Z 221 22
				New Hebrides Islands			Ki	i(PKP)	14 54 25.8
				(h = 120 km).				iPKP	14 54 32.9
"	11	Um	iP	02 33 06.8				iPP	14 57 09.5
		Ud	iP	02 33 37.9					micr sec
				Kurile Islands (h = 60 km).				(PKP)	Z' 0.1 1.4
"	11	Up	iP	03 37 14.5				PKP	Z' 1.2 1.4
		Ki	iP	03 36 27.1				Mx	E 87 21
		Um	iP	03 36 50.2				Mx	N 200 21
		Ud	iP	03 37 20.3				Mx	Z 183 22
				Kurile Islands (h = N).			Sk	iPKP1	14 54 39.8
"	11	Up	Mx	08 34				i	14 54 48.2
				micr sec				iPP	14 57 43.4
		Mx	E	2.1 22			Um	iPKP1	14 54 36.5
		Mx	N	2.5 20				ipPKP1	14 54 40.0
		Mx	Z	4.2 25			Ud	iPKP1	14 54 49.2 C
		Ki	Mx	08 29				ipPKP1	14 54 52.8
				micr sec				iPP	14 57 59.7
		Mx	E	1.8 22			De	iPKP1	14 54 57.0 C
		Mx	N	3.0 22				ipPKP1	14 55 00.1
				Bismark Sea (h = N).				iPP	14 58 23.8
				M = 5.9 (Up,Ki).					Tonga-Kermadec Islands.
									h = 10 km (Up,Um,Ud,De).
									M = 7.8 (Up,Ki).
"	11	Up	iPKP1	15 14 26.9 C	"	11	Up	iPKP1	15 14 26.9 C
				micr sec					micr sec
								PKP1	Z' 0.1 0.7

(cont.)

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

1975

Oct. 11 (cont.)
 Ki iPKP 15 14 15.5
 Sk iPKP1 15 14 21.3
 Um ePKP1 15 14 15
 Ud iPKP1 15 14 28.3
 De iPKP1 15 14 38.1
 i 15 14 39.8
 Tonga-Kermadec Islands
 (h = N).

" 11 Ki iP 15 18 07.7
 Um iP 15 18 19.8
 Ud iP 15 18 20.3
 i 15 18 32.7

" 11 Up iP 15 31 10.0
 Um iP 15 30 40.9
 Ud iP 15 31 12.1

" 11 Ki iP 16 06 52.0
 Sk ipP 16 07 18.4
 Um iP 16 06 49.0
 ipP 16 07 02.4
 Ud ipP 16 07 13.0
 Sumatra.
 h = 45 km (Um).

" 11 Um iP 16 24 34.4
 Ud iP 16 25 05.3
 i 16 25 15.1

" 11 Up iPKP1 16 38 59.3
 Ud iPKP1 16 39 00.6

" 11 ✓ Up iPP 18 20 16.8
 micr sec
 Mx E 4.2 20
 Mx N 6.8 20
 Mx Z 7.7 21
 Ki micr sec
 Mx E 6.0 18
 Mx N 7.4 21
 Mx Z 8.8 18
 Sk iPP 18 20 15.0
 Ud iPP 18 20 24.7
 De iPP 18 20 42.1
 Bismarck Sea (h = N).
 M = 6.3 (Up,Ki).

" 11 Ki iP 18 37 35.7
 Ud iP 18 38 20.2

" 12 Up iPKP1 03 02 58.7
 Ud iPKP1 03 03 00.9
 De iPKP1 03 03 10.9

1975

Oct. 12 Up iP 08 28 06.9
 Ki iP 08 29 21.0
 Um iP 08 28 39.8
 Ud iP 08 28 14.4
 i 08 28 19.0
 i 08 28 25.6
 De iP 08 27 38.8
 Greece (h = 25 km).

" 12 Ki iP 11 35 59.6
 iS 11 37 08.3
 iTSg1 11 41 08.3
 Sk iP 11 36 35.5
 iS 11 38 16.7
 Um iP 11 36 49.1
 iS 11 38 34.2
 Ud iP 11 37 22.6
 i 11 37 34.7
 De iP 11 38 13.5

Norwegian Sea,
 near 72°N, 7°E.
 Origin time = 11 34 30.

" 12 Up iP 13 37 11.2

" 12 Up iPKP1 16 21 35.8
 micr sec
 PKP1 Z' 0.1 0.9
 Sk iPKP1 16 21 27.9
 Um iPKP1 16 21 23.9
 Ud iPKP1 16 21 37.8
 ipPKP1 16 22 53.3
 i 16 23 20.6
 De iPKP1 16 21 46.5
 iPKP2 16 21 53.6

Kermadec Islands.
 h = 300 km (Ud).

" 13 Ud iP 02 29 39.3

" 13 Um iP 03 56 17.8

" 13 Ud iP 06 45 20.5

" 13 Up iP 12 02 45.7
 Um iP 12 02 21.8
 iP 12 02 30.8
 Ud iP 12 03 02.8

Kurile Islands.
 h = 30 km (Um).

" 13 Ud iP 12 08 30.1
 ipP 12 08 41.3

Atlantic Ocean.
 h = 40 km (Ud).

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

1975				1975			
Oct.	13	Ki	iPgl	12 29 11.8	Oct.	14	(cont.)
			iSgl	12 29 26.7			Kermadec Islands (h = 110 km).
		Um	iSgl	12 30 56.1			The unidentified phases may
			Swedish Lapland.				belong to one or two other
			Origin time = 12 28 51.				events in the same focal area
"	13	Up	i(P)	14 06 02.4	"	14	Up i 06 46 30.7
"	13	Up	iPKP1	14 31 11.9			Ud iPKP1 06 46 21.9
		Ud	iPKP1	14 31 14.4 D			i 06 46 31.9
		De	iPKP1	14 31 25.2 D			De iPKP1 06 46 30.8
"	13	Up	ipP	16 23 45.9	"	14	Up iPKP1 09 29 33.8
		Ki	ipP	16 23 47.3			ipPKP1 09 29 44.0
		Ud	ipP	16 23 57.8			micr sec
			Andaman Islands (h = N).				pPKP1 Z' 0.1 1.1
"	13	Up	i(P)	16 51 46.1			Ud iPKP1 09 29 35.3
"	13	Up	iPKP1	21 10 48.7			ipPKP1 09 29 45.6
		Ud	iPKP1	21 10 51.0			Tonga-Kermadec Islands.
		De	iPKP1	21 11 01.7			h = 30 km (Up,Ud).
			ipPKP1	21 11 13.4	"	14	Um iP 09 32 22.0
			Tonga-Kermadec Islands.		"	14	Ki iSKS 15 17 12.3
			h = 35 km (De).				Um iSKS 15 17 15.4
"	13	Up	iPKP1	22 32 06.6			Banda Sea (h = 170 km).
		Ud	iPKP1	22 32 08.5	"	14	Ud iPKP1 19 31 25.4
		De	iPKP1	22 32 19.4			De iPKP2 19 31 39.4
			Tonga-Kermadec Islands				Tonga-Kermadec Islands
			(h = N).				(h = 110 km).
"	13	Ud	iP	23 49 23.0	"	15	Um iP 08 26 35.6
"	14	Ud	iP	00 58 28.6			Ud iP 08 26 37.5
			Tadzhik-Sinkiang.				Gulf of California (h = N).
"	14	Up	ePKP1	03 20 17	"	15	Up iP 15 04 05.5
			iPKP2	03 20 20.4			Ki iP 15 03 33.4 D
			i	03 20 24.5			Sk iP 15 04 04.7
			i	03 20 28.3			Um iP 15 03 46.7 D
			i	03 21 11.2			Ud iP 15 04 13.7 D
			micr sec				De iP 15 04 26.2
			PKP2 Z'	0.1 1.4			Ryukyu Islands (h = 10 km).
		Sk	iPKP1	03 20 10.9	"	16	Ud iP 03 07 08.3
			i	03 20 17.7	"	16	Ki i(P) 03 23 05.7
			i	03 20 22.3	"	16	Up iP 03 25 35.0
		Um	iPKP1	03 20 05.1			ipP 03 25 46.7
			i	03 20 17.2			Ki iP 03 24 52.0
		Ud	iPKP1	03 20 18.7			Um iP 03 25 10.0
			iPKP2	03 20 22.8			ipP 03 25 23.0
			i	03 20 30.8			Ud iP 03 25 41.0
			i	03 21 11.0			(cont.)
		De	iPKP2	03 20 39.6			(cont.)
			(cont.)				

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

1975				1975			
Oct.	16	(cont.)		Oct.	17	(cont.)	
			Ud ipP 03 25 52.9				Up micr sec
			Kurile Islands.				PP Z' 0.3 1.5
			h = 40 km (Up,Um,Ud).				Mx E 1.0 17
"	16	Up	ePKP1 03 57 09				Mx N 1.1 20
			ipPKP1 03 57 19.5				Mx Z 1.8 19
			micr sec	Ki	iP	03 45 41.4	
			pPKP1 Z' 0.1 1.0			i(PP) 03 48 57.1	
		Um	ipPKP 03 57 13.0			i(PP) 03 49 17.4	
		Ud	iPKP1 03 57 12.7			i(PP) 03 49 33.3	
		De	iPKP1 03 57 23.7			i(PP) 03 49 54.5	
			Tonga-Kermadec Islands			iPP 03 49 59.3	
			(h = N).			iPKKP 04 01 33.1	
						micr sec	
"	16	Ud	iPKP1 07 48 41.4			PP Z' 0.3 1.5	
			Tonga-Kermadec Islands			Mx E 1.7 16	
			(h = 30 km).			Mx N 2.2 22	
"	16	Ud	iP 15 07 51.8			Mx Z 2.6 21	
"	16	Ud	iP 16 57 02.1	Um	iP	03 45 46.1	
			i 16 57 12.9			i 03 46 17.3	
"	16	Um	iP 17 51 13.4			iPP 03 50 02.3	
		Ud	i 17 50 47.8			iSKS 03 56 58	
			Greece (h = 70 km).			i 04 01 18.6	
"	16	Ki	i 19 34 20.3			iPKKP 04 01 29.4	
			i 19 34 29.5	Ud	iP	03 46 04.3	
		Um	iP 19 34 32.0 C			i(PP) 03 49 14.8	
			i 19 34 44.8			i(PP) 03 49 54.6	
		Ud	i 19 35 11.3			i(PP) 03 50 26.8	
			Japan (h = 30 km).			iPP 03 50 39.5	
"	16	Um	iP 23 15 15.5			iPKKP 04 01 18.1	
		Ud	iP 23 15 42.2			i 04 01 31.1	
"	17	Ud	iP 01 16 53.6	De	iP	03 46 08.6	
			ipP 01 17 15.9			i(PP) 03 50 11.9	
			Afghanistan-USSR.			i(PP) 03 50 29.7	
			h = 100 km (Ud).			iPP 03 50 43.5	
"	17	Up	iPKP1 02 17 53.2			i 04 01 28.4	
			micr sec			Banda Sea (h = 110 km).	
			PKP1 Z' 0.1 1.0			m = 6.7, M = 5.7 (Up,Ki).	
		Ki	iPKP 02 17 43.5			M uncorrected for focal depth.	
		Um	iPKP 02 17 50.4			The non-interpreted phases	
		Ud	iPKP1 02 17 55.3			at 04 01 at Um, Ud and De are	
		De	iPKP1 02 18 06.1			multiple PKKP phases.	
			Tonga-Kermadec Islands	"	17	Ud iP 05 23 37.6	
			(h = 540 km).			Greece (h = 90 km).	
"	17	Up	eP 03 45 57	"	17	Up iPKP1 10 22 13.1	
			iPP 03 50 26.1			Ud iPKP1 10 22 14.7	
			iSKS 03 57 12			De iPKP1 10 22 24.2	
			(cont.)	"	17	Up eP 14 16 55	
						Ki iP 14 16 38.9	
						micr sec	
						P Z' 0.1 0.7	
				Um	iP	14 16 44.0	
					ipP	14 16 52.4	
						(cont.)	

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

1975				1975					
Oct.	17	(cont.)		Oct.	17	(cont.)			
		Ud	iP	14 17 04.0		Ud	iP	19 49 30.7	
			i	14 17 07.0			i	19 49 35.2	
			ipP	14 17 12.6			ipP	19 49 40.1	
		Panay.				De	iP	19 49 54.3	
		h = 30 km (Um,Ud).					i	19 49 58.2	
"	17	Up	iPKP1	15 49 42.0			ipP	19 50 03.9	
		Ud	iPKP1	15 49 44.4		Gulf of Alaska.			
		De	iPKP1	15 49 54.6		h = 35 km (Up,Ki,Um,Ud,De).			
		Tonga-Kermadec Islands				m = 6.2 (Up,Ki).			
		(h = 510 km).				Double P, in average 4.6 sec apart.			
"	17	Up	ePKP1	16 31 15	"	17	Ud	iP	23 04 31.2
		Um	iPKP	16 31 16.3		Kamchatka (h = 70 km).			
		Ud	iPKP1	16 31 18.2	"	17	Ud	eP	23 44 48
			i	16 31 26.7	"	18	Ud	iPKP	01 11 17.6
		De	iPKP1	16 31 26.6			i	01 11 24.8	
		Tonga Islands (h = 270 km).				De	iPKP	01 11 25.3	
"	17	Up	iP	18 09 14.3	"	18	Ud	iP	04 57 21.1
			ipP	18 09 29.6	"	18	Up	iP	09 04 07.3 C
				micr sec				micr sec	
		P	Z'	0.1 0.9			P	Z'	5.4 3.2
		pP	Z'	0.1 1.0			Mx	E	12 2
		Ki	iP	18 08 30.7			Mx	N	12 2
				micr sec			Mx	Z	17 2
		P	Z'	0.1 1.2			Ki	iP	09 02 46.2 C
		Um	iP	18 08 50.5				micr sec	
			ipP	18 09 05.3			P	Z'	1.7 2.0
		Ud	iP	18 09 21.0			Mx	E	32 8
			ipP	18 09 36.5			Mx	N	27 6
		De	iP	18 09 38.5			Mx	Z	33 6
		Japan.					Um	iP	09 03 17.5 C
		h = 55 km (Up,Um,Ud).					Ud	iP	09 04 21.0 C
		m = 5.7 (Up,Ki).					De	iP	09 04 53.1 C
"	17	Up	iP	19 49 34.3		Novaya Zemlya.			
			i	19 49 38.7		m = 6.5 (Up,Ki).			
			ipP	19 49 43.8		Underground explosion.			
			iS	19 58 00	"	18	Ud	iP	16 26 16.3
				micr sec	"	18	Ud	iP	19 31 32.8
		P	Z'	0.1 1.2	"	18	Ud	iP	19 44 32.8
		pP	Z'	0.2 1.0	"	18	Ud	iP	21 04 39.1
		Mx	E	1.3 22	"	18	Ud	iP	23 55 14.4
		Mx	N	2.3 25	"	19	Um	iP	06 48 48.4 C
		Mx	Z	3.7 36					
		Ki	iP	19 48 40.2					
			ipP	19 48 49.4					
				micr sec					
			pP	Z' 0.2 0.9					
		Um	iP	19 49 08.2					
			ipP	19 49 17.9					
			iS	19 57 12					
		(cont.)							

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

1975				1975			
Oct.	19	Um	iP	12 40	23.0	C	
		Ud	iP	12 40	47.9	C	
		Volcano Islands (h = 110 km).					
"	19	Up	iP	14 32	26.2		
		Ki	iP	14 32	25.9		
		Ud	iP	14 32	34.2		
		Sumatra (h = 40 km).					
"	19	Up	iPKP1	14 47	42.8		
		Ud	iPKP1	14 47	44.8		
		De	iPKP1	14 47	56.3		
		Tonga-Kermadec Islands (h = 45 km).					
"	19	Up	iP	15 02	06.5	C	
			i	15 03	34.6		
			i	15 04	20.1		
			iPP	15 05	37.8		
					micr	sec	
			P	Z'	0.1	1.2	
		Ki	iP	15 01	39.0	C	
					micr	sec	
			P	Z'	0.3	1.1	
		Sk	iP	15 02	04.8	C	
			iPP	15 05	31.2		
		Um	iP	15 01	51.1	C	
			ipP	15 03	08.6		
			i	15 04	11.8		
		Ud	iP	15 02	14.1	C	
			ipP	15 03	33.2		
			iPP	15 05	47.6		
		De	iP	15 02	25.5	C	
		Mariana Islands. h = 340 km (Um,Ud). m = 5.8 (Up,Ki).					
"	19	Up	iSgl	19 13	02.9		
		Ki	iSgl	19 11	00.1		
		Sk	i	19 10	57.7		
			iSgl	19 11	03.0		
		Um	iSgl	19 11	30.2		
		Ud	iSgl	19 12	48.5		
		Coast of Nordland, Norway, 66.6°N, 13.5°E. Origin time = 19 09 29. m = 4.3, M _L = 2.7 (Up,Ki,Sk, Um,Ud).					
"	19	Up	iP	20 44	04.3		
		Um	iP	20 43	43.8		
		Ud	iP	20 44	11.6		
			i	20 44	28.2		
		Japan (h = 35 km).					
Oct.	19	Up	iPKP1	21 43	23.0		
		Ud	iPKP1	21 43	24.8		
"	19	Ud	eP	23 13	58		
		South of Panama (h = N).					
"	20	Up	eP	01 49	02		
		Ud	iP	01 49	13.0		
"	20	Ud	iP	02 20	13.2		
			i	02 20	25.4		
"	20	Up	eP	02 59	19		
		Um	iP	02 59	35.1		
		Ud	iP	02 59	37.3		
		Caucasus (h = N).					
"	20	Up	iP	03 25	35.2		
			ipP	03 25	42.2		
			i	03 25	52.5		
			iPP	03 26	08.4		
			iSn	03 30	28.5		
					micr	sec	
			pP	Z'	0.1	0.8	
		Ki	iP	03 26	02.5		
			ipP	03 26	10.7		
			i	03 26	38.1		
			iPP	03 26	56.6		
			i	03 32	44.1		
		Sk	iP	03 26	09.0		
			ipP	03 26	15.8		
			i	03 26	29.8		
			iPP	03 27	04.5		
		Um	iP	03 25	44.2		
			ipP	03 25	52.0		
			i	03 26	15.7		
			iSn	03 31	04.1		
		Ud	iP	03 25	50.2		
			ipP	03 25	57.8		
			i	03 26	12.7		
			iPP	03 26	35.6		
			iSn	03 31	16.2		
		De	ipP	03 25	44.5		
			i	03 25	58.0		
			i	03 26	24.4		
		Caucasus (h = N).					
"	20	Um	iP	08 02	12.7		
		Ud	iP	08 02	16.2		
			i	08 02	25.7		
		Caucasus (h = 160 km).					
"	20	Um	iP	11 40	40.1		
			i	11 40	48.7		

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

1975				1975					
Oct.	20	Up	iSgl	16 12 02.3	Oct.	21	Up	iP	12 04 25.4 C
		Ki	iPgl	16 09 25.0					micr sec
			iSgl	16 10 06.0				P	Z' 1.9 0.9
		Sk	iPgl	16 09 21.0				Mx	E 9.9 3
			iSgl	16 10 00.2				Mx	N 6.0 2
		Um	iPgl	16 09 40.2				Mx	Z 4.0 2
			iSgl	16 10 33.1			Ki	iP	12 02 55.0 C
		Ud	i	16 11 38.3					micr sec
			iSgl	16 11 48.4				P	Z' 4.3 0.9
		Coast of Nordland, Norway, 66.5°N, 13.2°E.						Mx	E 15 6
		Origin time = 16 08 29.						Mx	N 14 7
		m = 4.4, M _L = 3.1 (Ki,Sk,Um, Ud).						Mx	Z 14 5
"	20	Ud	iP	16 16 47.1			Sk	iP	12 04 04.4 C
"	20	Ud	eP	16 20 52			Um	iP	12 03 32.6 C
"	20	Up		micr sec			Ud	iP	12 04 35.8 C
			Mx	E 2.7 20			De	iP	12 05 08.1 C
			Mx	N 3.8 21			Novaya Zemlya.		
			Mx	Z 7.5 22			m = 6.8 (Up,Ki).		
		Ki		micr sec			Underground explosion.		
			Mx	E 2.9 21	"	21	Um	iP	12 39 12.4
			Mx	N 8.6 21			Ud	iP	12 39 50.9
			Mx	Z 12 21	"	21	Ud	iPKP1	12 42 42.2
		Um	iPKP	22 44 38.7			Tonga Islands (h = 25 km).		
		Fiji Islands (h = N).			"	21	Up	iP	17 25 06.7
		M = 6.3 (Up,Ki).						i	17 25 09.7
"	21	Up	iP	07 21 19.5				i	17 25 19.9
		Ki	iP	07 21 14.3				i	17 25 35.9
		Sk	iP	07 21 35.4				iPP	17 28 35.3
		Um	iP	07 21 12.7				iS	17 35 43
		Ud	iP	07 21 33.0					micr sec
		De	iP	07 21 33.8				P	Z' 0.2 1.6
		Burma-India (h = N).						i	Z' 0.2 1.4
"	21	Ud	iP	08 44 41.3				Mx	E 8.4 20
		Japan (h = 70 km).						Mx	N 16 17
"	21	Up	iPKP1	08 56 17.2				Mx	Z 18 20
		Ki	iSKP1	08 59 36.6			Ki	iP	17 24 48.2
		Sk	iPKP1	08 56 12.4				i	17 24 55.3
		Um	iPKP1	08 56 07.1					micr sec
		Ud	iPKP1	08 56 20.0				P	Z' 0.4 1.5
			iPKP2	08 56 29.1				Mx	E 11 14
		South of Kermadec Islands (h = N).						Mx	N 16 15
"	21	Up	i	09 02 23.6				Mx	Z 12 14
		Sk	iP	09 02 32.8			Sk	i	17 25 19.0
		Ud	iP	09 02 31.4			Um	iP	17 24 54.4
		Burma-China (h = N).						iS	17 35 17
							Ud	iP	17 25 13.9
								iPP	17 28 48.6
							Panay (h = N).		
							m = 6.2, M = 6.6 (Up,Ki).		
"	21	Up	iPKP1	20 38 03.5	"	21	Up	iPKP1	20 38 03.5
		Ud	iPKP1	20 38 04.9			Ud	iPKP1	20 38 04.9

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

1975

Oct. 21 Up iPKP 20 48 13.8 C
ipPKP 20 48 31.9
micr sec
PKP Z' 0.1 1.0
Ki iPKP 20 48 00.5 C
ipPKP 20 48 18.9
Sk iPKP 20 48 11.5 C
ipPKP 20 48 28.7
Um iPKP 20 48 06.2
i 20 48 17.5
i 20 48 20.7
Ud iPKP 20 48 16.7
i 20 48 31.5
De iPKP 20 48 22.9
ipPKP 20 48 40.8

Santa Cruz Islands.

h = 60 km (Up,Ki,Sk,De).

" 21 Up iP 22 35 51.9
i 22 36 13.1
micr sec
Mx E 0.8 14
Mx N 2.6 18
Ki iP 22 35 35.8
ipP 22 35 46.4
micr sec
Mx N 2.6 16
Sk i 22 36 20.3
Um iP 22 35 41.5
ipP 22 35 51.9
Ud iP 22 36 01.1

Panay.

h = 35 km (Ki,Um).

The P-onsets are about 4 sec late when compared with the USNOS source parameters.

" 21 Up i 23 05 19.5
Ki iP 23 06 43.6
i 23 06 48.3
Sk iP 23 06 01.3
i 23 06 05.4
Um iP 23 06 02.6
i 23 06 07.0
Ud i 23 05 22.9

Yugoslavia (h = N).

" 21 Up iP 23 19 05.1
Vi 23 19 10.0
i 23 19 37.9
iPP 23 22 44.6
iS 23 29 40
micr sec
P Z' 0.1 1.5
i Z' 0.6 2.1
i Z' 0.4 1.8

(cont.)

1975

Oct. 21 (cont.)
Up micr sec
Mx E 9.6 20
Mx N 19 19
Mx Z 18 18
Ki iP 23 18 48.2
i 23 18 52.3
iS 23 29 10
micr sec
P Z' 0.3 1.5
i Z' 0.4 1.5
Mx E 14 14
Mx N 20 16
Mx Z 15 14
Sk i 23 19 17.3
i 23 19 33.9
Um iP 23 18 53.0
iS 23 29 18
Ud iP 23 19 13.0
i 23 19 19.0
De iP 23 19 18.9
i 23 19 47.1

Panay (h = N).

m = 6.4, M = 6.6 (Up,Ki).

" 22 Up iP 04 31 24.6

" 22 Ud iP 04 48 48.2
i 04 48 52.3

Iran (h = 100 km).

" 22 Up iP 05 20 34.6 C
Ki iP 05 19 46.7 C
micr sec
P Z' 0.1 0.9

Sk iP 05 20 22.8
Um iP 05 20 08.6 C
Ud iP 05 20 40.2 C
iPcP 05 21 06.0
De iP 05 20 58.8
Kurile Islands (h = 430 km).

" 22 Ki iP 09 57 24.5
Sk iP 09 57 10.0
i 09 57 42.4
Um iP 09 56 26.6
i 09 58 01.4
Ud iP 09 57 13.7
De eP 09 57 19

Colombia (h = 25 km).

" 22 Up iPKP 11 57 31.6
iPKKP 12 07 33.9
Ki iPKP 11 57 47.4
Um iPKP 11 57 40.2
Ud iPKP 11 57 30.8

(cont.)

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

1975				1975				
Oct.	22	(cont.)		Oct.	22	Up	iP	21 14 43.2
		Ud	iPKKP				i	21 14 47.0
			12 07 37.7			Ki	iP	21 14 16.4
			South Sandwich Islands				i	21 14 20.5
			(h = 100 km).			Sk	eP	21 14 52
"	22	Ki	iP			Um	iP	21 14 24.1
			12 44 01.0				i	21 14 28.3
"	22	Up	iP			Ud	iP	21 14 57.5
		Ud	iP				i	21 15 00.8
			12 53 28.1			De	iP	21 15 06.8
"	22	Ud	eP				i	21 15 10.2
			14 41 22					Mongolia (h = N).
			Japan (h = 290 km).					Double P, in average 3.8 sec
"	22	Ud	iP					apart.
			14 50 37.4					
"	22	Ud	iP		"	22	De	iPKP1
			15 02 28.1					23 26 23.8
			Hindu Kush (h = 45 km).					Fiji Islands (h = 490 km).
"	22	Up	iP		"	23	Up	iP
		Ud	iP				Sk	iP
			15 36 49.0				Um	iP
			15 36 58.3				Ud	iP
"	22	Up	iP				De	iP
		iS	16 12 29.7					01 32 37.5
			16 23 06					Mexico (h = N).
			micr sec					
		P	Z'					
			0.1					
		Mx	E					
			5.4					
		Mx	N					
			8.2					
		Mx	Z					
			6.8					
		Ki	iP					
			16 12 13.3					
			micr sec					
		P	Z'					
			0.2					
		Mx	E					
			5.8					
		Mx	N					
			11					
		Mx	Z					
			8.9					
		Sk	eP					
			16 12 37					
			16 13 03.4					
		Um	iP					
			16 12 19.4					
		Ud	iP					
			16 12 38.7					
			Panay (h = N).					
			m = 6.0, M = 6.3 (Up,Ki).					
"	22	Ud	iP		"	23	Ud	iPKP
			17 53 59.4					05 09 57.1
			Ionian Sea (h = N).					Samoa Islands (h = 40 km).
"	22	Um	i(P)		"	23	Up	iP
			18 33 01.6				Um	iP
							Ud	iP
								09 01 34.0
								09 01 26.7
								09 01 47.2
"	22	Up	iP		"	23	Up	iP
		Ud	iP				Ki	iP
			19 33 14.3					12 58 55.9
			19 33 14.8					12 58 02.5
			Aleutian Islands (h = N).					
"	22	Sk	iPgl		"	23	Sk	iPgl
			16 12 37					13 27 37.8
			16 13 03.4					iSgl
			16 12 19.4					13 27 44.1
			16 12 38.7					
			Panay (h = N).					
			m = 6.0, M = 6.3 (Up,Ki).					
"	22	Ud	iP		"	23	Up	iSgl
			17 53 59.4					14 54 18.0
			Ionian Sea (h = N).					i
								14 54 26.2
								Ud
								iPgl
								14 53 17.3
								iSgl
								14 53 34.0
								iSn
								14 53 37.6
								iRg
								14 53 45.2
								De
								iSgl
								14 54 08.5
								Lake Vener, Sweden,
								58.8°N, 12.6°E.
								Origin time = 14 52 55.
								m = 4.0, M _L = 2.1 (Up,Ud,De).
								Near-surface event.
"	22	Up	iPKP1		"	23	Up	iP
		Sk	iPKP1				Sk	iP
		Ud	iPKP1				Ud	iP
			20 02 13.4				De	iP
			20 02 05.8					15 21 59.4
			20 02 15.0					Mexico (h = N).

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

1975				1975				
Oct.	23	Ud	iP	16 15 30.1	Oct.	24	Up iP	17 53 56.0
"	23	Up	iP	16 48 21.0			Ud iP	17 54 10.6
			i	16 48 44.5			De iP	17 54 09.3
		Ki	iP	16 48 29.1			Nepal-India (h = N).	
		Um	iP	16 48 19.5	"	24	Up iPKP	20 25 22.5
		Ud	iP	16 48 37.7			Ud i(PKP)	20 25 18.3
		De	iP	16 48 35.0			i	20 25 27.5
				Afghanistan-USSR (h = 230 km).			De ePKP	20 25 30
							i	20 25 35.0
"	23	Up	ipP	20 25 51.2			Fiji Islands (h = N).	
		Ki	iP	20 25 43.9	"	24	Um iP	22 10 09.4
			ipP	20 25 52.5				
				micr sec	"	24	Um iP	23 18 15.2 C
			P	Z' 0.1 1.0			iPcP	23 18 31.2
		Sk	eP	20 25 57			Ud iP	23 18 43.1
			i	20 26 14.0			Japan (h = N).	
		Um	iP	20 25 41.1	"	25	Up iP	00 39 20.8 C
		Ud	iP	20 25 53.0			Ki iP	00 39 30.1
			ipP	20 26 02.1			Sk iP	00 39 46.5
		De	ipP	20 25 59.4			Um iP	00 39 19.3 C
				Sumatra.			Ud iP	00 39 37.5 C
				h = 30 km (Ki,Ud).			De iP	00 39 34.1
"	23	Um	iPKP	23 36 42.1			Afghanistan-USSR (h = 80 km).	
		Ud	iPKP	23 36 51.1	"	25	Ud iP	05 44 35.9
		De	iPKP	23 36 56.3			Dodecanese Islands (h = N).	
				Solomon Islands (h = 50 km).	"	25	Up iP	07 30 17.7
"	24	Up	iP	07 07 03.0			Sk iP	07 30 56.8
		Ud	iP	07 07 20.3			Um i	07 31 02.2
			i	07 07 26.5			Ud iP	07 30 23.4
		De	iP	07 07 26.1			De iP	07 29 47.9
				Sinkiang, China (h = N).			Greece (h = 100 km).	
"	24	Ud	eP	11 20 34	"	25	Up iP	11 06 49.7
				Tadzhik SSR (h = N).			Um iP	11 06 26.1
"	24	Up	iP	13 42 58.8			ipP	11 06 43.2
			ipP	13 43 24.6			Ud iP	11 06 57.1
		Ki	ipP	13 43 32.9			ipP	11 07 13.7
		Ud	iP	13 43 15.6			De iP	11 07 12.7
			i	13 43 32.3			Japan.	
			ipP	13 43 42.1			h = 60 km (Um,Ud).	
		De	iP	13 43 11.5	"	25	Ki iP	11 18 46.8
			i	13 43 18.4			Ud eP	11 18 58
			ipP	13 43 38.2			Tadzhik SSR (h = 5 km).	
				Afghanistan-USSR.	"	25	Ud iPKP1	13 31 17.5
				h = 120 km (Up,Ud,De).			De iPKP1	13 31 28.1
"	24	Up	iP	17 23 14.8	"	25	Up iP	14 31 59.1
		Sk	iP	17 22 48.0			iPcP	14 32 14.8
		Um	iP	17 22 59.8			Ki iP	14 31 24.8
		Ud	iP	17 23 06.5			(cont.)	
		De	iP	17 23 24.4				
				Nevada.				
				Underground explosion.				

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

1975

Oct. 25 (cont.)
 Ki ipP 14 32 42.7
 micr sec
 pP Z' 0.1 1.1
 Sk iP 14 31 55.6
 ipP 14 33 15.2
 Um iP 14 31 39.4
 i 14 31 44.9
 iPcP 14 31 58.3
 ipP 14 32 57.2
 Ud iP 14 32 07.1
 ipP 14 32 26.4
 De iP 14 32 20.0
 Japan.
 h = 350 km (Ki,Sk,Um,Ud).
 " 25 Ki iP 15 35 49.7
 Ud iP 15 35 36.2
 " 25 Ud iP 20 11 38.0
 Afghanistan-USSR (h = N).
 " 25 Ud iP 22 35 28.1
 " 26 Up iP 07 10 04.4
 micr sec
 P Z' 0.6 1.9
 Ki iP 07 11 03.7
 Um iP 07 10 28.9
 Ud iP 07 10 17.8
 i 07 10 20.6
 De eP 07 09 54
 Turkey (h = N).
 " 26 Up iP1 10 54 43.6
 iP2 10 54 45.1
 iP3 10 54 47.8
 ipP 10 54 58.4
 iS 11 05 41
 micr sec
 P1 Z' 0.1 0.8
 P3 Z' 0.2 0.9
 Mx E 6.7 23
 Mx N 4.0 22
 Mx Z 9.5 28
 Ki iP1 10 54 26.7
 iP2 10 54 28.5
 iP3 10 54 31.3
 micr sec
 P1 Z' 0.3 1.1
 P3 Z' 0.4 0.8
 Mx E 9.2 20
 Mx N 7.1 20
 Sk iP1 10 54 47.5
 Um iP2 10 54 33.6
 iP3 10 54 36.6
 (cont.)

1975

Oct. 26 (cont.)
 Um iS 11 05 24
 Ud iP1 10 54 51.2
 iP2 10 54 53.2
 iP3 10 54 56.4
 De iP2 10 54 00.1
 ipP 10 54 12.7
 Mindanao (h = 50 km).
 m = 6.4, M = 6.2 (Up,Ki).
 Multiple P-phases.
 In average P2 - P1 = 2 sec,
 P3 - P1 = 5 sec.
 " 26 Up iP 14 34 07.1
 Ki eP 14 33 20
 Um iP 14 33 41.6 D
 Ud iP 14 34 12.8 D
 Kurile Islands (h = N).
 " 26 Up i 18 05 52.1
 iRg 18 05 55.9
 Ud iSgl 18 05 26.6
 iRg 18 05 30.4
 Central Sweden.
 Near-surface event.
 " 26 Up iP 23 03 02.9
 " 27 Up iP 01 08 25.1
 Sk iP 01 08 38.5
 Um i 01 08 33.1
 Ud iP 01 08 39.6
 De iP 01 08 45.2
 Sinkiang, China (h = N).
 " 27 Ud iP 02 27 56.5
 Greece (h = 70 km).
 " 27 Up iP 14 35 19.2
 micr sec
 P Z' 0.2 1.5
 Ki i 14 35 22.4
 Sk i 14 35 49.6
 Ud iP 14 35 36.0
 i 14 35 40.1
 De iP 14 35 35.5
 Sinkiang, China (h = N).
 " 27 Up iP1 18 39 51.3
 iP2 18 39 56.5
 i 18 40 06.3
 iS 18 51 00
 micr sec
 P2 Z' 0.1 1.0
 i Z' 0.1 1.0
 (cont.)

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

1975				1975			
Oct.	27	(cont.)		Oct.	28	(cont.)	
		Up	micr sec			Up	micr sec
		Mx	E 4.2 20			Mx	E 5.8 19
		Mx	N 4.1 19			Mx	Z 35 23
		Mx	Z 5.4 20			Ki	micr sec
		Ki	iP1 18 39 34.1			Mx	E 9.4 23
			iP2 18 39 40.1			Mx	N 6.7 20
			micr sec			Mx	Z 24 22
		P1	Z' 0.2 1.5			Ud	iPP 07 13 06.7
		P2	Z' 0.2 1.0			Chile (h = 40 km).	
		Mx	N 7.4 17			M = 6.3 (Up,Ki).	
		Sk	iP2 18 40 01.2	"	28	Ud	iP 10 25 59.0
		Um	iP1 18 39 40.0			Oregon (h = N).	
			iP2 18 39 46.1				
			iS 18 50 33	"	28	Um	i(P) 11 10 46.9
		Ud	iP1 18 40 00.0	"	28	Up	iP 14 41 47.9 C
			iP2 18 40 06.4			i	14 42 12.5
		De	iP1 18 40 06.5			iPP	14 44 30.2
		Mindanao (h = N).					micr sec
		m = 6.3, M = 6.1 (Up,Ki).				P	Z' 0.4 1.0
		Double P-phases, in average				Ki	iP 14 41 13.6 C
		6 sec apart.				iPP	14 44 41.5
"	27	Up	iP 23 29 56.5				micr sec
			micr sec			P	Z' 0.4 1.0
		P	Z' 0.1 1.0			Sk	iP 14 41 21.7 C
		Ki	iP 23 29 43.8			iPP	14 41 41.0
		Sk	iP 23 30 08.4			Um	iP 14 41 33.3 C
		Ud	iP 23 30 08.3			i	14 41 52.9
		Burma-China (h = N).				iPP	14 44 12.0
"	28	Ud	iP 02 40 43.4			Ud	iP 14 41 40.2 C
		Crete (h = 60 km).				iPP	14 44 16.2
"	28	Ud	iP 02 48 47.5			De	iP 14 41 56.8 C
			ipP 02 49 02.9			Nevada.	
		De	iP 02 48 14.8			m = 6.5 (Up,Ki).	
		Crete.				Underground explosion.	
		h = 70 km (Ud).				PP-phases arrive 10-15 sec	
"	28	Ki	i 03 00 40.2			early when compared with	
		Ud	iP 03 01 00.9			Jeffreys-Bullen tables.	
		Mindanao (h = N).		"	28	Up	iPKP1 17 17 40.5
"	28	Up	iP2 05 52 32.7			Ud	iPKP1 17 17 42.4
		Ki	iP1 05 52 28.6	"	28	Um	iP 20 16 27.9
		Um	iP2 05 52 26.7			Japan (h = 25 km).	
		Ud	iP1 05 52 40.1	"	29	Up	iP 04 53 55.2 C
			iP2 05 52 44.4			iPP	04 55 13.5
		De	iP2 05 52 42.2				micr sec
		Nicobar Islands (h = N).				P	Z' 0.9 0.9
"	28	Up	iSKS 07 19 16			Ki	iP 04 53 38.6 C
		(cont.)				(cont.)	

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

1975				1975			
Oct.	29	(cont.)		Oct.	30	(cont.)	
		Ki	micr sec			Um	ipP 01 52 20.3
		P	Z' 0.8 0.9			iS	02 00 45
		Sk	iP 04 54 10.3 C			Ud	iP 01 52 37.3 C
		iPP	04 55 33.2			i	01 52 39.2
		Um	iP 04 53 40.1 C			ipP	01 52 52.6
		Ud	iP 04 54 11.8 C			De	iP 01 52 53.8 C
		De	iP 04 54 18.7 C			i	01 52 55.6
		iPP	04 55 44.3			i	01 53 00.3
		Kazakh SSR.				ipP	01 53 09.4
		m = 6.7 (Up,Ki).				Japan.	
		Underground explosion.				h = 55 km (Up,Ki,Sk,Um,Ud,De).	
"	29	Ki	i 05 06 49.4			m = 6.5, M = 6.1 (Up,Ki).	
		Sk	i 05 06 45.9			Double P, in average 1.8 sec apart. The resp. later onsets show larger amplitudes. pP onsets are related to first P onsets for the focal depth calculation.	
		Mexico (h = 35 km).					
"	29	Ud	iPKP1 06 10 32.4				
		Tonga Islands (h = 50 km).					
"	29	Ki	iSgl 07 47 30.3				
		Um	iSgl 07 46 11.3				
		Västerbotten, Sweden,					
		64.6°N, 20.9°E.					
		Origin time = 07 45 46.					
		m = 4.0, M _L = 2.1 (Um).					
		By combination with Finnish station readings.					
"	29	Ud	iP 13 37 27.7	"	30	Ki	i 03 36 02.3
"	29	Ud	iP 22 49 27.0			Ud	iP 03 36 18.1
"	30	Up	iP 01 52 30.0 C			i	03 36 28.8
		i	01 52 32.0			Mindanao (h = 140 km).	
		ipP	01 52 44.3	"	30	Ud	iP 08 26 07.5
		iS	02 01 29	"	30	De	ePKP1 10 24 15
		micr sec				Loyalty Islands (h = 20 km).	
		P	Z' 0.3 1.1	"	30	Up	iP 12 26 44.2 C
		i	Z' 0.6 1.0			iS	12 37 27
		Mx	E 6.2 26			micr sec	
		Mx	N 9.6 23			P	Z' 0.1 1.1
		Mx	Z 14 25			Mx	E 1.4 19
		Ki	iP 01 51 47.0 C			Mx	N 2.5 16
		i	01 51 48.8			Mx	Z 1.8 22
		ipP	01 52 02.9			Ki	iP 12 26 25.3 C
		micr sec				i	12 26 43.2
		P	Z' 0.4 1.0			micr sec	
		Mx	E 8.8 18			P	Z' 0.2 1.0
		Mx	N 10 23			Mx	E 1.6 15
		Mx	Z 11 18			Mx	N 3.5 18
		Sk	iP 01 52 22.2 C			Sk	iP 12 26 47.7 C
		ipP	01 52 37.6			Um	iP 12 26 32.4 C
		Um	iP 01 52 06.5 C			iS	12 37 03
		i	01 52 08.2			Ud	iP 12 26 52.6 C
		(cont.)				i	12 26 57.9
						i	12 27 06.7
						De	iP 12 27 00.1
						Philippine Islands	
						(h = 55 km).	
						m = 6.0, M = 5.8 (Up,Ki).	

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

1975				1975			
Oct.	30	Up	iP	12 42	41.7		
				micr	sec		
			P	Z'	0.1 0.8		
		Ud	iP	12 42	41.8		
				Aleutian Islands (h = 50 km).			
"	30	Up	iP	12 47	08.4		
				micr	sec		
			P	Z'	0.1 0.8		
		Ki	iP	12 46	13.7		
		Sk	eP	12 46	49		
		Um	iP	12 46	42.8		
		Ud	iP	12 47	08.7		
		De	iP	12 47	30.9		
				Aleutian Islands (h = 50 km).			
"	30	Ki	iP	14 29	19.4		
				Kashmir-India (h = 110 km).			
"	30	Ki	iP	14 45	12.6		
		Ud	iP	14 45	22.7		
				Kashmir-India (h = N).			
"	30	Ud	iP	14 54	39.8		
				Greece-Albania (h = N).			
"	30	Ud	i(P)	19 24	37.1		
"	30	Up	iP	22 48	07.3		
		Ki	iP	22 47	14.7		
		Um	iP	22 47	39.7		
		Ud	iP	22 48	10.8		
				Kamchatka (h = 45 km).			
"	31	Ud	i	02 53	15.0		
				Philippine Islands (h = 60 km).			
"	31	Up	iP	03 05	01.7 C		
				micr	sec		
			P	Z'	0.1 0.9		
		Ki	iP	03 04	40.1		
		Um	iP	03 04	47.5 C		
			i	03 04	50.8		
		Ud	iP	03 05	10.8 C		
		De	iP	03 05	20.2		
				Philippine Islands (h = 10 km).			
"	31	Ud	i	05 39	04.8		
				Afghanistan-USSR (h = 25 km).			
"	31	Up	iPKP1	07 20	00.1		
		Ud	iPKP1	07 20	02.4		
				(cont.)			
Oct.	31		(cont.)				
		De	iPKP1	07 20	12.1		
				Tonga-Kermadec Islands (h = 600 km).			
				Onsets are about 8 sec late compared to the Jeffreys-Bullen tables.			
"	31	Up	✓ iP	08 40	48.8		
			i	08 40	54.0		
			iPP	08 44	25.1		
			iS	08 51	35.3		
				micr	sec		
			P	Z'	0.3 1.0		
			i	Z'	5.8 1.6		
		Mx	E	197	17		
		Mx	N	268	16		
		Mx	Z	240	16		
		Ki	iP	08 40	29.6		
			i	08 40	35.3		
			iPKKP	08 58	43.8		
				micr	sec		
			P	Z'	1.1 1.6		
			i	Z'	4.6 1.3		
		Mx	E	205	18		
		Mx	N	312	17		
		Mx	Z	294	17		
		Sk	iP	08 40	52.4		
			i	08 40	57.3		
			iPKKP	08 58	32.2		
		Um	iP	08 40	36.2		
			i	08 40	42.1		
			iS	08 51	15		
		Ud	iP	08 40	55.6		
			i	08 41	02.4		
			iPKKP	08 58	28.3		
		De	iP	08 41	03.9		
			i	08 41	09.2		
			iPKKP	08 58	28.3		
				Philippine Islands (h = 50 km).			
				m = 7.4, M = 7.8 (Up,Ki).			
"	31	Up	iP	09 09	22.2		
		Ki	iP	09 09	01.4		
				micr	sec		
			P	Z'	0.1 1.0		
		Ud	iP	09 09	27.6		
"	31	Ki	iP	09 51	29.6		
				Philippine Islands (h = N).			
"	31	Ud	iP	10 23	12.9		
				Philippine Islands (h = 80 km).			

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

1975				1975			
Oct.	31	Up iP	10 38 16.1	Oct.	31	Up iPKP1	16 21 17.2
		Ki iP	10 37 55.4			Ki iSKP1	16 23 46.1
			micr sec			Um iSKP1	16 23 57.2
		P Z'	0.2 1.5			Ud iPKP1	16 21 18.9
		Ud iP	10 38 23.6			iSKP1	16 24 10.0
		Philippine Islands				De iPKP1	16 21 29.7
		(h = 5 km).				Tonga-Kermadec Islands	
						(h = 520 km).	
"	31	Ki iP	10 46 47.2	"	31	Up iP	16 53 38.2
		Philippine Islands				Ki iP	16 53 18.6
		(h = N).				Ud iP	16 53 46.3
"	31	Up iP	11 23 05.8			Samar (h = 110 km).	
		ipP	11 23 23.2	"	31	Ki iP	18 07 36.5
		Ki iP	11 22 46.4			Philippine Islands	
		ipP	11 23 03.8			(h = N).	
		Ud iP	11 23 14.0	"	31	Ki iP	18 54 46.6
		ipP	11 23 31.3			Philippine Islands	
		Philippine Islands.				(h = N).	
		h = 60 km (Up,Ki,Ud).		"	31	Up i(P)	19 37 10.2
"	31	Ud iP	11 39 03.7	"	31	Up iP	20 23 58.6
"	31	Up iP	11 40 42.0			micr sec	
		Ki iP	11 40 21.4			P Z'	0.1 1.0
		Ud iP	11 40 49.5			Ki iP	20 23 40.2
		Philippine Islands				Ud iP	20 24 04.9
		(h = 25 km).				Samar (h = 40 km).	
"	31	Up iP	12 56 30.9	"	31	Ki iP	22 21 16.8
		i	12 56 48.3			Philippine Islands	
		Ki iP	12 57 00.2			(h = 140 km).	
		Sk iP	12 57 05.1	"	31 ✓	Up iP	23 33 09.0
		Um iP	12 56 34.8			ipP	23 33 17.5
		Ud iP	12 56 53.0			micr sec	
		De iP	12 56 47.4			pP Z'	0.1 1.1
"	31	Up i(P)	13 29 50.5			Ki iP	23 32 50.5
		Ud i(P)	13 29 39.4			ipP	23 32 59.8
		i	13 30 06.0			micr sec	
"	31	Ki eP	14 29 41			pP Z'	0.1 1.0
		Ud iP	14 30 08.4			Ud iP	23 33 17.1
		Philippine Islands				ipP	23 33 25.6
		(h = N).				Samar.	
"	31	Ki iP	14 35 35.9			h = 30 km (Up,Ki,Ud).	
		Ud iP	14 36 03.9			m = 5.9 (Up,Ki).	
		i	14 36 16.2	"	31	Ki iP	23 35 58.3
		Philippine Islands				Ud eP	23 36 24
		(h = 80 km).		"	31	Ki i(pP)	23 46 50.8
"	31	Up iP	14 49 47.5			Ud i(pP)	23 47 18.9
		micr sec				Samar (h = N).	
		P Z'	0.1 1.2				

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SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ,

UDDEHOLM and DELARY

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

NOVEMBER 1 - 30, 1975

1975				1975			
Nov.	1	Ki	iP	00 10 12.1	Nov.	1	(cont.)
		Ud	iP	00 11 04.1			Up iSKS 01 41 06.8
							micr sec
"	1	Up	iP	00 56 22.7			P Z' 0.6 2.0
		Ki	iP	00 56 03.6			(PP) Z' 0.8 2.0
		Ud	iP	00 56 30.7		Ki	iP 01 30 17.4
		Philippine Islands (h = N).				ipP	01 30 44.8
						iSKS	01 40 34.7
							micr sec
"	1	Up	iP	00 59 13.2 C			P Z' 0.6 2.0
		i		00 59 26.2		Sk	iP 01 30 44.5
				micr sec		i	01 30 47.5
		P	Z'	0.5 1.2		ipP	01 31 11.1
		i	Z'	0.5 1.4		iPP	01 34 31.5
"	1	Ki	iP	00 58 19.3 C		iSKS	01 41 06.1
		i		00 58 20.9		Um	iP 01 30 30.2
		i		00 58 25.7		ipP	01 30 57.5
				micr sec		iSKS	01 40 47.2
		P	Z'	0.3 1.1		Ud	iP 01 30 51.3
		i	Z'	0.4 1.4		i	01 30 53.3
		Sk	iP	00 58 49.4 C		ipP	01 31 19.0
		i		00 59 00.5		i(PP)	01 34 03.8
		Um	iP	00 58 46.6		iSKS	01 41 13.3
		i		00 58 47.7		De	iP 01 31 04.5
		ipP		00 58 54.6		i	01 31 07.0
		Ud	iP	00 59 12.0 C		ipP	01 31 31.3
		i		00 59 13.5		i	01 34 56.2
		ipP		00 59 19.4		i	01 35 28.8
		De	iP	00 59 34.9		iSKS	01 41 24.7
		ipP		00 59 42.8		Mariana Islands.	
		Unimak Island.				h = 110 km (Ki,Sk,Um,Ud,De).	
		h = 25 km (Um,Ud,De).				m = 6.6 (Up,Ki).	
		m = 6.4 (Up,Ki).			"	1	Up il 01 53 10.1
"	1	Up	iP	01 30 44.8			Ki iP 01 52 39.7
		i		01 30 50.9			il 01 52 50.5
		i		01 31 16.6		Ud	iP 01 53 09.2
		i(PP)		01 33 55.0		Samar (h = 15 km).	
		(cont.)					

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

1975

Nov.	1	(cont.)			
		Ki	iP	18 10 16.3	
		Ud	iP	18 09 58.4	
		Iran (h = N).			
"	1	Up	iPKP1	18 59 37.7	
				micr sec	
			PKP1	Z' 0.1 1.3	
		Ki	iPKP	18 59 34.7	
		Sk	iPKP	18 59 44.8	
		Um	iPKP	18 59 43.3	
		Ud	iPKP1	18 59 39.8	
		De	iPKP1	18 59 49.9	
		Tonga Islands (h = N).			
"	1	Ud	iP	20 38 36.7	
"	1	Ki	iP	22 48 47.2	
		Ud	iP	22 49 16.5	
		Philippine Islands (h = N).			
"	1	Ud	iP	23 27 28.7	
"	2	Up	iP	00 13 11.4	
		Um	iP	00 12 51.7	
		Ud	iP	00 13 18.4	
"	2	Um	iP	01 15 56.0	
		Ud	iP	01 16 15.0	
		Afghanistan-USSR (h = 20 km).			
"	2	Up	iP	02 52 31.8	
			i	02 52 42.7	
		Ki	iP	02 52 12.6	
				micr sec	
			P	Z' 0.1 1.0	
		Sk	iP	02 52 35.7	
		Um	iP	02 52 18.3	
		Ud	iP	02 52 40.2	
		Philippine Islands (h = 50 km).			
"	2	De	iP	06 40 28.0	
"	2	Up	iPKP1	06 52 23.3	
		Ud	iPKP1	06 52 25.5	
		De	iPKP1	06 52 35.2	
		Fiji Islands (h = 600 km).			
"	2	Ki	iP	09 49 38.8	
"	2	Ki	iP	10 40 50.3	
				micr sec	
			P	Z' 0.1 1.4	
		Ud	iP	10 41 08.2	
		Iceland (h = N).			

1975

Nov.	2	Ki	iP	10 47 52.3	
				micr sec	
			P	Z' 0.1 1.3	
			Mx	E 0.7 15	
			Mx	N 0.7 15	
			Mx	Z 0.8 15	
		Um	iP	10 48 10.6	
		Ud	iP	10 48 10.7	
		Iceland (h = N).			
"	2	Up	iP	11 33 34.5	
		Ki	iP	11 33 13.9	
		Ud	iP	11 33 41.8	
		De	eP	11 33 48	
		Philippine Islands (h = N).			
"	2	Ud	iP	11 52 13.0	
"	2	Up	iPgl	13 24 29.0	
			i	13 24 50.8	
		Ud	iPgl	13 24 16.5	
			iRg	13 24 28.8	
		Ställberg, Sweden, 60.0°N, 14.9°E. Origin time = 13 24 06. Rockburst.			
"	2	Up	iPgl	13 24 35.3	
			iSgl	13 24 52.7	
			iX	13 24 56.1	
			iRg	13 25 00.1	
		Sk	iSgl	13 26 10.4	
			i	13 26 22.3	
		Um	iSgl	13 26 30.6	
		Ud	iPgl	13 24 23.0	
			iSgl	13 24 31.5	
			iRg	13 24 35.1	
		De	iSgl	13 26 04.2	
		Ställberg, Sweden. Origin time = 13 24 13. m = 3.9, M _L = 2.0 (Up,Um,Ud). Rockburst. Felt.			
"	2	Up	iPgl	13 24 38.4	
			i	13 24 59.7	
		Ud	iPgl	13 24 25.8	
		Ställberg, Sweden. Origin time = 13 24 15. Rockburst.			
"	2	Ud	i(pP)	14 42 41.0	
		De	iP	14 42 43.8	
		Alaska (h = 110 km).			

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

1975				1975					
Nov.	2	Up	iP	14 53 19.0	Nov.	4	Up	iP	19 38 18.1
		Ki	iP	14 52 32.6			Um	iP	19 38 10.5
		Um	iP	14 53 00.5			Ud	iP	19 38 31.3
		Ud	iP	14 53 20.9			De	iP	19 38 33.1
			i	14 53 25.6					
		De	iP	14 53 48.7	"	4	Up	iP	23 47 30.2
"	2	Up	iP	16 20 25.3			Ki	iP	23 46 55.4 C
		Um	iP	16 20 09.5			Sk	iP	23 47 28.1 C
		Ud	iP	16 20 39.1			Um	iP	23 47 10.3 C
"	2	Ud	iP	18 05 16.4			Ud	iP	23 47 37.7 C
							De	eP	23 47 54
"	2	Up	iP	22 42 02.5			Japan (h = 390 km).		
		Ud	iP	22 42 16.5	"	5	Up	iP	00 44 39.1
"	2	Ud	iP	23 00 39.5					micr sec
								P	Z' 0.1 1.0
"	3	Ki	iP	10 48 43.9			Ki	iP	00 44 42.7
		Ud	iP	10 49 11.4			Sk	iP	00 45 01.0
			i	10 49 14.5			Um	iP	00 44 34.7
		Philippine Islands (h = N).					Ud	iP	00 44 54.3
"	3	Ud	iP	12 59 38.8			Kashmir-Tibet (h = 30 km).		
"	4	De	iPn	08 31 52.0	"	5	Up	iP	02 11 35.3 C
		Germany (h = 25 km).							micr sec
"	4	Up	iP	09 53 24.0				P	Z' 0.1 1.0
		Ki	iP	09 52 37.4			Ki	iP	02 11 36.6 C
		Sk	iP	09 53 13.4				ipP	02 11 43.0
		Ud	iP	09 53 29.6					micr sec
"	4	Up	iP	12 16 26.7 C				P	Z' 0.2 1.0
				micr sec			Sk	iP	02 11 22.4 C
			P	Z' 0.3 1.2				ipP	02 11 28.7
		Ki	iP	12 15 32.6 C			Um	iP	02 11 39.4 C
				micr sec				ipP	02 11 45.4
			P	Z' 0.3 1.0			Ud	iP	02 11 25.7 C
		Sk	iP	12 16 08.2				ipP	02 11 31.9
		Um	iP	12 15 58.4			De	iP	02 11 27.5
		Ud	iP	12 16 29.3 C				ipP	02 11 33.3
			ipP	12 16 38.0			Colombia.		
			i	12 17 00.9			h = 20 km (Ki,Sk,Um,Ud,De).		
		De	iP	12 16 51.5 C			m = 6.2 (Up,Ki).		
			i	12 17 11.8	"	5	Up	iP	05 28 21.2
		Komandorsky Islands.							micr sec
		h = 30 km (Ud).						P	Z' 0.1 1.0
		m = 6.3 (Up,Ki).					Ki	i(pP)	05 29 03.3
"	4	Up	eP	17 00 46					micr sec
		Ki	eP	17 00 26				(pP)	Z' 0.1 1.4
		Philippine Islands					Ud	iP	05 28 12.1
		(h = 40 km).					De	iP	05 27 56.9
							Central Atlantic Ocean (h = N).		
							m = 5.9 (Up,Ki).		
"	4	Up	iP	07 51 06.3	"	5	Up	iP	07 51 06.3
		Ud	iP	07 51 07.4			Ud	iP	07 51 07.4
		De	iP	07 50 30.1			De	iP	07 50 30.1
		Sicily (h = 140 km).					Sicily (h = 140 km).		

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

1975				1975			
Nov.		(cont.)		Nov.		(cont.)	
	6	Sk	iP 12 49 09.4 D		8	Sk	iPKP 11 19 14.3
		Um	iP 12 48 53.4 D			Um	iPKP 11 19 09.7
			iS 12 59 22			Ud	iPKP 11 19 19.4
		Ud	iP 12 49 14.2 D				i 11 19 28.8
		De	iP 12 49 21.1 D			De	iPKP 11 19 25.5
			i 12 49 44.1			Santa Cruz Islands	
		Philippine Islands (h = 10 km).				(h = 80 km).	
		m = 6.7, M = 5.5 (Up,Ki).			8	Ud	iPgl 12 25 36.2
"	6	Ud	iP 22 04 07.4				iSgl 12 25 49.3
							iRg 12 25 54.8
"	7	Up	iP 05 52 07.7			Origin time = 12 25 18.	
			i 05 52 11.7			Regional near-surface event.	
		Ki	iP 05 51 53.5		8	De	iPKP1 12 43 03.3
		Sk	iP 05 52 21.3			Fiji Islands (h = 570 km).	
			i 05 52 24.9				
		Um	iP 05 51 55.7		8	Up	iP 15 06 39.3
			i 05 51 59.2				i 15 06 42.6
		Ud	iP 05 52 21.7				i 15 07 05.9
		De	iP 05 52 26.4				micr sec
			i 05 52 31.8			P	Z' 0.2 1.4
		Tsinghai, China (h = N).				i	Z' 0.2 1.3
"	7	Ud	iP 07 05 00.0		Ki	iP 15 06 21.0	
		Aleutian Islands (h = N).				il 15 06 28.1	
"	7	Ki	eP 09 38 01			i 15 06 46.2	
		Ud	eP 09 38 11			micr sec	
		Sumatra (h = 130 km).				P	Z' 0.2 1.4
"	7	Sk	eSgl 11 28 13			il	Z' 0.3 1.4
		Ud	iSgl 11 27 21.8			i	Z' 0.4 1.3
		Southern Norway,			Sk	iP 15 06 47.0	
		59.1°N, 6.8°E.				i 15 07 17.4	
		Origin time = 11 25 30.			Um	il 15 06 34.0	
		m = 4.0, M _L = 2.1 (Ud).			Ud	iP 15 06 46.0	
		By combination with Bergen				il 15 06 53.5	
		and Kongsberg readings.				i 15 07 07.4	
"	8	Up	iP 05 20 03.5		De	iP 15 06 52.8	
		Ud	iP 05 20 10.1			il 15 06 59.1	
						i 15 07 15.3	
						Mindanao (h = 100 km).	
						m = 6.3 (Up,Ki).	
"	8	Up	iP 06 53 02.6	"	8	Ud	iP 18 20 00.6
		Um	iP 06 52 46.7	"	8	Ud	iP 21 02 46.7
"	8	Up	iPKP 11 19 17.2				i 21 03 01.4
			i 11 19 52.8			Oregon (h = 35 km).	
			micr sec		8	Ud	iP 21 34 19.0
			Z' 0.1 1.0				ipP 21 34 25.7
		Ki	iPKP 11 19 03.3			Oregon.	
			micr sec			h = 25 km (Ud).	
			Z' 0.1 0.9				
		(cont.)					

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

1975				1975				
Nov.	10	Up	iP	00 19 40.6	Nov.	11	(cont.)	
		Ud	iP	00 19 47.4			Ki	
				Philippine Islands (h = N).			micr sec	
"	10	Up	ipP	04 51 08.2			P Z' 0.2 1.0	
		Ud	iP	04 51 03.0			pP Z' 0.2 1.3	
			ipP	04 51 14.6		Sk	iP 04 35 28.9 D	
				Kurile Islands.			ipP 04 36 47.8	
				h = 40 km (Ud).		Um	iP 04 35 13.7 D	
"	10	Up	iP	08 44 24.3			ipP 04 36 32.2	
		Ud	iP	08 44 29.8		Ud	iP 04 35 45.1 D	
			ipP	08 44 41.8			ipP 04 37 05.0	
				Kurile Islands.		De	iP 04 36 03.1 D	
				h = 40 km (Ud).			ipP 04 37 24.6	
"	10	Up	iSgl	10 42 53.6		Sea of Okhotsk.		
		Ud	iPgl	10 42 04.6		m = 5.8 (Up,Ki).		
			iSgl	10 42 23.3		h = 370 km (Up,Ki,Sk,Um,Ud, De).		
		De	iSgl	10 42 42.7	"	11	Up	
				Västergötland, Sweden,			iP 05 01 28.1	
				58.5°N, 13.5°E.			Sk	
				Origin time = 10 41 39.			iP 05 01 39.4	
				m = 4.1, M _L = 2.3 (Ud).	"	11	Ud	
				Explosion?			iP 06 50 15.7	
"	10	Ud	iSgl	14 00 20.9		Hindu Kush (h = 210 km).		
				Southwest Norway,	"	11	Up	
				59.9°N, 6.2°E.			iP 07 33 21.2	
				Origin time = 13 58 21.			Ki	
				m = 4.3, M _L = 2.7 (Ud).			iP 07 32 39.2	
				By combination with Bergen			Ud	
				and Kongsberg readings.			iP 07 33 27.7	
"	10	Up	iP	21 58 10.5		Japan (h = 70 km).		
		Ud	iP	21 58 18.3	"	11	Up	
				Philippine Islands (h = N).			iP 07 33 49.9	
"	11	Ki	ipP	04 01 33.0			Ki	
		Ud	iP	04 01 39.7			iP 07 33 06.7	
			ipP	04 01 48.0			Um	
		De	ipP	04 01 47.0			iP 07 33 25.2	
				Kirgiz, SSR.			Ud	
				h = 30 km (Ud).			iP 07 33 56.4	
"	11	Up	iP	04 35 39.0 D	"	11	Up	
			iPcP	04 36 07.8			iP 08 48 58.5	
			ipP	04 36 58.2			Ud	
				micr sec			iP 08 48 59.5	
		P	Z'	0.3 0.9			Aleutian Islands (h = 60 km).	
		pP	Z'	0.4 1.3	"	11	Up	
		Ki	iP	04 34 53.0 D			iP 09 05 25.8 C	
			ipP	04 36 10.9			ipP 09 05 36.9	
				(cont.)			micr sec	
							P Z' 0.1 0.8	
						Ki	iP 09 04 42.6	
							micr sec	
							P Z' 0.1 1.0	
						Sk	iP 09 05 16.7 C	
							ipP 09 05 28.3	
						Um	iP 09 05 01.5 C	
							ipP 09 05 12.3	
						Ud	iP 09 05 32.1 C	
							ipP 09 05 43.1	
						De	iP 09 05 48.7	
						Japan.		
						h = 40 km (Up,Sk,Um,Ud).		
						m = 5.9 (Up,Ki).		

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

1975				1975								
Nov.	11	Up	iP	09 07 39.6	C	Nov.	12	(cont.)				
			ipP	09 07 54.6				Up	i	00 08 54.0		
				micr	sec				i	00 09 07.4		
			P	Z'	0.2 1.1				iSg1	00 09 19.2		
			pP	Z'	0.2 1.3				iSg2	00 09 28.9		
			Mx	E	2.4 24				i	00 09 37.1		
			Mx	N	2.2 24			Ki	iLg2	00 12 51.1		
		Ki	iP	09 06 56.1	C			Sk	i	00 08 38.0		
				micr	sec				i	00 09 29.1		
			P	Z'	0.1 1.0				i	00 09 40.7		
			Mx	E	6.1 21				iSg2	00 09 56.9		
			Mx	N	4.3 20				i	00 10 04.4		
		Sk	iP	09 07 31.1	C			Um	iPn	00 08 29.4		
			ipP	09 08 46.9					iSn	00 10 06.4		
		Um	iP	09 07 15.4	C				i	00 10 23.8		
		Ud	iP	09 07 46.0	C				i	00 10 40.1		
			ipP	09 08 01.8					iSg1	00 10 57.3		
		De	iP	09 08 03.2					iSg2	00 11 12.7		
		Japan.						Ud	i(Pn)	00 07 23.2		
		h = 60 km (Up,Sk,Ud).							iPn	00 07 23.7		
		m = 6.3, M = 5.7 (Up,Ki).							iPgl	00 07 30.6		
									i	00 07 42.9		
"	11	Up	iP	09 24 56.7					iSn	00 08 12.6		
		Ud	iP	09 24 42.8					iSg1	00 08 27.3		
									i	00 08 43.4		
"	11	Up	iSg1	11 26 27.0				De	iPn	00 07 13.4		
		Ud	iSg1	11 25 57.1					iPgl	00 07 20.0		
			i	11 26 00.0					iSn	00 07 52.1		
		De	iSg1	11 26 16.5				Skagerrak, near 57°N, 8°E.				
		Västergötland, Sweden,						Origin time = 00 06 20.				
		58.5°N, 13.5°E.						m = 4.6, M _L = 3.4 (Up,Um,Ud).				
		Origin time = 11 26 23.						"	12	Ud	iP	02 08 15.6
		m = 4.1, M _L = 2.3 (Ud).						"	12	Ud	eP	07 01 36
		Explosion? ^L						Talaud Islands (h = 45 km).				
"	11	Ud	iP	11 29 36.4				"	12	Up	iP	09 09 01.3
		De	iP	11 29 32.1						ipP	09 09 19.2	
"	11	Ki	iP	14 14 53.7						iS	09 13 33	
		Talaud Islands (h = 35 km).								iLg1	09 16 13.1	
"	11	Up	iP	16 02 44.0						micr	sec	
		Ud	iP	16 02 55.0					P	Z'	0.2 1.2	
		Carlsberg Ridge (h = N).							Mx	E	2.4 21	
"	11	Ud	iP	18 38 06.1					Mx	N	1.1 21	
									Mx	Z	4.1 20	
"	11	Ud	i(P)	20 57 06.6				Ki	iP	09 10 08.3		
									ipP	09 10 27.3		
"	11	Ki	iP	23 18 33.5					micr	sec		
			i	23 18 51.7					P	Z'	0.1 0.8	
"	12	Up	iPn	00 07 46.6	D			Sk	iP	09 09 42.7		
			i	00 07 53.8					i	09 10 13.4		
			iSn	00 08 50.7				Um	iP	09 09 33.1		
		(cont.)							ipP	09 09 49.4		
								Ud	iP	09 09 11.7		
								(cont.)				

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

1975

Nov. 12 (cont.)
 Ud ipP 09 09 28.9
 i 09 11 25.1
 i 09 14 33.7
 De ip 09 08 39.7
 ipP 09 08 57.0
 iS 09 12 45.5
 Dodecanese Islands.
 h = 80 km (Up,Ki,Um,Ud,De).
 m = 5.6 (Up,Ki).

" 12 Ud ipKP1 10 44 48.2
 De ipKP1 10 44 59.1

" 12 Up ipKP1 17 45 02.6
 Ud ipKP1 17 45 04.7
 De ipKP1 17 45 15.0

" 12 Up ip 17 54 30.0
 Mx Z micr sec
 0.7 14
 Ki ip 17 53 15.1
 i 17 53 24.5
 micr sec
 P Z' 0.1 1.0
 i Z' 0.1 1.0
 Mx E 2.0 14
 Mx N 1.0 14
 Mx Z 2.9 14
 Sk ip 17 53 29.9
 iS 17 55 19.8
 Um ip 17 53 54.8
 Ud ip 17 54 16.1
 i 17 54 20.1

Jan Mayen Island,
 near 71 3/4°N, 2°W.
 Origin time = 17 51 08.

" 12 Up ip 17 57 34.1
 i 17 57 43.4
 Ki ip 17 56 19.0
 i 17 56 28.2
 Sk ip 17 56 34.4
 i 17 56 39.4
 iS 17 58 22.3
 Um ip 17 56 58.8
 Ud ip 17 57 22.5
 i 17 57 34.4

Jan Mayen Island, same
 focal area as the preceding
 event.
 Origin time = 17 54 13.

" 12 / Ki ip 18 10 29.9
 micr sec
 P Z' 0.1 1.0
 Talaud Islands (h = 70 km).

1975

Nov. 12 Up ip 21 15 26.6
 Ki ip 21 15 13.8
 Sk ip 21 15 33.6
 Um ip 21 15 17.7
 Ud ip 21 15 35.6
 De ip 21 15 38.2
 Celebes (h = 170 km).

" 12 Up micr sec
 Mx Z 1.4 20
 Ki ip 22 03 35.0
 i 22 03 40.1
 micr sec
 P Z' 0.3 1.7
 Mx E 2.4 13
 Mx N 0.9 13
 Mx Z 1.6 15

Sk ip 22 03 50.3
 iS 22 05 35.5
 Um ip 22 04 13.7
 Ud ip 22 04 37.3
 i 22 04 49.6

Jan Mayen Island,
 near 71 1/2°N, 1°W.
 Origin time = 22 01 35.

" 12 Ki ip 22 08 19.4
 Sk ip 22 08 34.8
 iS 22 10 19.0
 Um ip 22 08 58.2
 Ud ip 22 09 21.6

Jan Mayen Island, same focal
 area as the preceding event.
 Origin time = 22 06 20.

" 12 Ki eP 22 12 40
 i 22 13 15.3
 Sk ip 22 12 56.3
 iS 22 14 43.2
 Um ip 22 13 20.0
 i 22 13 35.6
 Ud ip 22 13 43.3

Jan Mayen Island, same focal
 area as the event 22 01 this
 day.
 Origin time = 22 10 38.

" 12 Up eP 22 19 28
 Ki ip 22 18 14.5
 Sk ip 22 18 29.3
 iS 22 20 14.0
 Um ip 22 18 52.9
 Ud ip 22 19 16.7

Jan Mayen Island, same focal
 area as the event 22 01 this
 day.
 Origin time = 22 17 14.

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

1975				1975							
Nov.	12	Up	iP	22 22 14.6	Nov.	13	Up	iP	03 04 45.9 C		
		Ki	iP	22 21 04.0					micr sec		
		Sk	iP	22 21 19.6				P	Z' 0.1 0.8		
			iS	22 23 07.0			Ki	iP	03 03 51.8 C		
		Um	iP	22 21 42.9					micr sec		
		Ud	iP	22 22 05.8				P	Z' 0.1 0.9		
		Jan Mayen Island, same focal area as the event 22 01 this day.					Sk	eP	03 04 21		
		Origin time = 22 19 02.					Um	iP	03 04 19.3 C		
							Ud	iP	03 04 44.3 C		
							De	iP	03 05 07.3 C		
							Alaska (h = N).				
							m = 6.0 (Up,Ki).				
"	12	Up	iP	23 41 51.2	"	13	Up	iP	03 13 02.2		
			i	23 45 07.1				ipP	03 13 12.0		
				micr sec				iS	03 17 37.9		
			P	Z' 0.1 1.4					micr sec		
			Mx	E 1.8 19				P	Z' 0.1 0.9		
			Mx	N 2.0 19				Mx	E 1.1 19		
			Mx	Z 4.1 20				Mx	Z 1.2 18		
		Ki	iP	23 40 36.7			Ki	iP	03 14 11.6		
			i	23 40 46.0				ipP	03 14 21.2		
			iS	23 42 10.3					micr sec		
				micr sec				P	Z' 0.2 1.0		
			P	Z' 0.3 1.5			Sk	iP	03 13 40.0		
			i	Z' 0.7 1.7				ipP	03 13 50.1		
			Mx	E 3.0 14			Um	iP	03 13 36.4		
			Mx	N 4.8 15				i	03 13 47.8		
			Mx	Z 5.4 14				i	03 20 17.3		
		Sk	iP	23 40 52.0			Ud	iP	03 13 08.1		
			iS	23 42 34.2				i	03 13 11.0		
		Um	iP	23 41 14.4				i	03 18 02.3		
			iS	23 43 15.8			De	iP	03 12 36.3		
		Ud	iP	23 41 38.4			Mediterranean Sea.				
			i	23 44 26.6			h = 35 km (Up,Ki,Sk).				
		De	iP	23 42 22.1			m = 5.7 (Up,Ki).				
		Jan Mayen Island, near 71 1/4°N, 1°W.					"	13	Ud	iP	03 21 56.9
		Origin time = 23 38 39.					"	13	Ud	iP	04 58 47.9
								Talaud Islands (h = 70 km).			
"	13	Up	iP	00 50 33.1	"	13	Ud	iP	10 29 01.6		
		Ki	iP	00 49 18.6				Talaud Islands (h = 60 km).			
			iS	00 50 51.3			"	13	Up	iP	14 44 22.6
		Sk	iP	00 49 33.7				Ud	iP	14 44 36.8	
			iS	00 51 18.6				Tibet (h = 20 km).			
		Um	iP	00 49 56.8			"	13	Up	iP	15 59 21.6
			iS	00 51 55.3				epP	15 59 37		
		Ud	iP	00 50 20.5			Ki	iP	15 58 30.9		
			e	00 52 44			Sk	i	15 59 28.4		
		Jan Mayen Island, near 71 1/2°N, 1°W.					Ud	epP	15 59 40		
		Origin time = 00 47 19.					Kurile Islands (h = 70 km).				
"	13	Up	iP	01 02 12.4							
		Ud	iP	01 02 27.3							
		Iran (h = 15 km).									

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

1975				1975									
Nov.	13	Up	iP2	16 36	46.2	Nov.	14	(cont.)					
			i	16 37	03.3			Ki	iP	04 08	53.9		
								Um	iP	04 09	08.7		
			i	Z'	0.1 0.9			Ud	iP	04 09	33.8		
			Mx	E	1.0 17			"	14	Ud	eP	04 11 30	
			Mx	Z	2.1 16			"	14	Up	iP	09 41 29.5	
		Ki	iP2	16 36	21.1					ipP	09 41	38.7	
												micr sec	
			P2	Z'	0.1 1.3					P	Z'	0.1 1.0	
			Mx	E	1.0 14					pP	Z'	0.1 1.0	
		Um	i	16 36	35.3			Ki	iP	09 40	50.4		
		Ud	iP1	16 36	53.9				ipP	09 40	59.1		
			iP2	16 36	55.9			Sk	iP	09 41	02.9		
			i	16 37	12.4				ipP	09 41	12.9		
			Formosa (h = 70 km).					Um	iP	09 41	11.6		
			m = 5.7, M = 5.2 (Up,Ki).						ipP	09 41	21.4		
"	13	Up	iP	18 02	04.2			Ud	iP	09 41	22.3		
"	13	Up	iP	19 01	59.2				ipP	09 41	31.9		
			i	19 02	10.0			California.					
		Ud	iP	19 02	02.0			h = 30 km (Up,Ki,Sk,Um,Ud).					
"	13	Up	iP	19 22	20.0		"	14	De	iPKP1	09 56	46.8	
			ipP	19 22	26.6			Fiji Islands (h = 590 km).					
		Ki	eP	19 22	54		"	14	Ud	iP	10 42	58.7	
		Sk	eP	19 22	50			Kurile Islands (h = 60 km).					
			ipP	19 22	56.9		"	14	Ud	iP	12 37	04.4	
			i	19 23	12.2		"	14	Ud	iP	12 37	04.4	
		Um	iP	19 22	33.3		"	14	Ki	iP	12 38	23.4	
			ipP	19 22	39.5		"	14	De	iP	12 37	26.9	
		Ud	iP	19 22	31.7			Turkey (h = 40 km).					
			Carlsberg Ridge.					"	14	Up	i(S*)	12 38	44.9
			h = 20 km (Up,Um).							iSgl	12 38	50.4	
"	13	Up	iP	21 24	24.6			Ud	i	12 38	11.7		
		Ud	iP	21 24	37.1				iSgl	12 38	22.8		
			Tadzhik SSR.						i	12 38	28.5		
"	13	Ud	iP	21 48	49.6			De	iPgl	12 37	21.7		
"	13	Ud	iP	21 52	33.3				iSgl	12 37	40.7		
"	13	Up	iP	23 35	30.4				iRg	12 37	48.2		
		Ud	iP	23 35	36.4			Halland-Västergötland, Sweden, 57.4°N, 12.3°E.					
			Ionian Sea (h = N).					Origin time = 12 36 58.					
"	13	Up	iP	23 37	06.7			m = 4.0, M _L = 2.1 (Ud,De).					
		Ud	iP	23 37	05.6			Near-surface event.					
			Aleutian Islands (h = 35 km).				"	14	Ki	iPKP	14 16	13.3	
"	14	Ud	iP	01 45	51.8			South Sandwich Islands (h = 130 km).					
"	14	Up	iP	04 09	27.3		"	14	Ud	iP	16 53	19.6	
		(cont.)						Pakistan (h = 35 km).					

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

1975

Nov. 14 Up iPKP1 20 31 34.1
 Sk iPKP1 20 31 28.5
 Um iPKP1 20 31 24.1
 Ud i 20 31 35.0
 iPKP1 20 31 36.3
 De iPKP1 20 31 44.5

" 15 Um iP 03 46 31.0
 Ud iP 03 46 38.7
 California (h = 5 km).

" 15 Up iP 04 55 48.1
 Ud iP 04 55 57.1
 Philippine Islands (h = N).

" 15 Ud iP 06 13 47.8
 Talaud Islands (h = 90 km).

" 15 Up iP 06 50 47.2
 Ki iP 06 51 33.9
 micr sec
 P Z' 0.2 1.5
 Ud iP 06 51 00.4
 De iP 06 50 39.7
 Turkey (h = N).

" 15 Um iP 07 00 23.6

" 15 Ud iP 07 56 59.3

" 15 Ki ePKP2 08 39 44
 i 08 40 37.2
 Um iPKP2 08 39 39.1
 Ud iPKP2 08 39 48.8
 West of Macquarie Island
 (h = N).

" 15 Up iP 15 41 19.5
 ipP 15 41 30.0
 iS 15 51 52
 micr sec
 P Z' 0.1 0.9
 pP Z' 0.1 1.1
 Mx E 1.9 20
 Mx Z 4.7 23
 Ki iP 15 41 03.1
 ipP 15 41 11.8
 micr sec
 P Z' 0.9 2.3
 Mx E 3.0 16
 Sk iP 15 41 00.9
 ipP 15 41 10.8
 Um iP 15 41 13.1
 ipP 15 41 22.7
 iS 15 51 52
 Ud iP 15 41 10.4
 (cont.)

1975

Nov. 15 (cont.)
 Ud ipP 15 41 20.3
 De iP 15 41 19.6
 ipP 15 41 29.4
 Mexico.
 h = 35 km (Up,Ki,Sk,Um,Ud,
 De).
 m = 6.3, M = 5.8 (Up,Ki).

" 15 Ki eP 18 26 45
 Ud eP 18 26 29
 i 18 26 37.7
 Iran (h = 45 km).

" 15 Ud iP 18 34 12.2
 i 18 34 16.9
 Iran (h = 40 km).

" 15 Ud iP 19 09 59.9
 Molucca Passage (h = N).

" 15 Ud iP 20 31 48.8
 Philippine Islands (h = N).

" 15 Up iP 20 52 15.6 D
 iS 21 03 00
 micr sec
 P Z' 0.2 0.7
 Mx E 5.4 19
 Mx N 12 16
 Mx Z 8.5 18
 Ki iP 20 51 56.6 D
 micr sec
 P Z' 1.0 1.4
 Mx E 11 17
 Mx N 17 16
 Sk iP 20 52 18.3
 Um iP 20 52 03.0
 iS 21 02 40.0
 Ud iP 20 52 23.6 D
 De iP 20 52 30.7 D
 Samar (h = 10 km).
 m = 6.2, M = 6.5 (Up,Ki).

" 15 Ki iP 22 55 55.0
 i 22 56 01.5
 i 22 57 23.3

" 15 Ud iP 23 47 17.0
 Iran (h = 45 km).

" 16 Um iPKP1 00 48 59.8
 Ud iPKP1 00 49 14.3

" 16 Up i 13 08 17.7
 Ki iP 13 09 37.1
 (cont.)

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

1975		1975	
Nov.	16	Nov.	17
	(cont.)		(cont.)
	Sk iP 13 08 49.5		Um iP 14 26 23.8
	i 13 09 06.2		Ud iP 14 26 45.8
	Um iP 13 08 58.6		ipP 14 26 57.8
	i 13 09 04.5		Philippine Islands.
	Ud iP 13 08 07.6		h = 40 km (Ki,Ud).
	i 13 08 22.6		
	Italy (h = 20 km).	"	17 Ki i(pP) 14 43 30.0
"	16 Ud eP 13 32 12		Ud iP 14 42 19.6
	Afghanistan-USSR		i 14 42 29.5
	(h = 130 km).		De iP 14 41 47.2
"	16 Ki iP 17 07 14.0		i 14 41 55.9
	Sinkiang, China (h = 50 km).		Crete (h = N).
"	16 Up iP 20 50 18.2 C	"	17 Ki iP 15 03 04.5
	Ki iP 20 49 58.5 C		Ud iP 15 03 32.8
	micr sec	"	17 Ud iP 16 08 00.4
	P Z' 0.1 1.0	"	17 Up iP 17 58 24.3
	Um iP 20 50 05.4		Ki iP 17 58 05.2 C
	Philippine Islands (h = 55 km).		micr sec
"	17 Ki iP 02 19 49.4		P Z' 0.1 1.0
"	17 Up iPKP1 02 20 55.6		Ud iP 17 58 32.5
	i 02 21 02.8		Philippine Islands (h = 90 km).
	Ki iPKP1 02 20 34.7	"	17 Up iP 19 13 03.1
	Sk iPKP1 02 20 50.1		Ki iP 19 12 43.4 C
	Um iPKP1 02 20 45.5		micr sec
	Ud iPKP1 02 20 57.7		P Z' 0.1 1.0
	De iPKP1 02 21 06.1		Ud iP 19 13 11.0
	Kermadec Islands (h = N).		Philippine Islands (h = N).
	Early arrivals, by about	"	17 Ki e 20 03 23
	10 sec, when compared with		Um iP 20 03 31.9
	NEIS solution.		Ud eP 20 03 54
"	17 De iP 05 57 06.5		Volcano Islands (h = N).
"	17 Ud iPKP 07 04 09.8	"	17 Ud eP 20 35 57
	Argentina (h = 120 km).	"	18 Up iP 01 11 14.3
"	17 Ki iP 07 29 17.5		Ki iP 01 11 21.7
	Philippine Islands.		Ud iP 01 10 18.3
"	17 Ki iP 08 55 36.6		i 01 10 30.0
	Banda Sea (h = N).		De iP 01 09 47.1
"	17 Um iPKP1 12 36 38.1		Mediterranean Sea (h = 70 km).
	Ud iPKP1 12 36 50.8	"	18 Ud iP 05 15 44.7
"	17 Ki iP 14 26 16.3	"	18 Ki iPgl 10 29 22.6
	ipP 14 26 28.5		i(S*) 10 29 54.7
	micr sec		iSgl 10 29 58.8
	P Z' 0.1 1.0		Off coast of north Norway.
(cont.)			Origin time = 10 28 34.
			By combination with Tromsøe
			reading.

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

1975				1975							
Nov.	18	Up	i(P)	11 33 48.1	Nov.	19	Up	iPKP1	06 36 57.5		
	"	18	Up	iP	11 52 12.9			i	06 39 36.7		
			Ki	iP	11 52 49.6			iSKP1	06 39 47.4		
			Ud	iP	11 52 28.1				micr sec		
			Iran (h = 60 km).					i	Z' 0.1 1.0		
	"	18	Sk	iPgl	12 29 55.8		Ki	SKP1	Z' 0.9 1.7		
				iSn	12 30 30.4			iPKP	06 36 48.5		
			Ud	iSgl	12 31 21.4			iSKP1	06 39 26.0		
			Coast of west Norway, 62.9°N, 6.7°E. Origin time = 12 29 09. By combination with Kongsberg readings.						micr sec		
	"	18	Ud	iP	13 02 57.0			PKP	Z' 0.1 0.7		
	"	18	Sk	i(pP)	13 09 56.8			SKP1	Z' 1.0 1.7		
			Alaska (h = N).				Sk	iPKP1	06 36 52.0		
	"	18	Ud	i(P)	14 23 35.4			iSKP1	06 39 41.8		
	"	18	Up	iP	19 29 18.5		Um	iPKP1	06 36 47.5		
			Ki	iP	19 28 51.9			iSKP1	06 39 37.0		
			Um	iP	19 29 02.6		Ud	iPKP1	06 37 00.0		
	"	18	Up	iP	23 14 51.8			i	06 39 37.0		
					micr sec			iSKP1	06 39 49.2		
				P	Z' 0.1 1.0		De	iPKP1	06 37 08.9		
			Ud	iP	23 15 06.7			iPKP2	06 37 11.0		
			Iran (h = N).					ipPKP1	06 39 19.2		
	"	19	Up	iPKP	03 53 13.4			ipPKP2	06 39 23.6		
			Sk	ePKP	03 53 14			i	06 39 40.1		
			Ud	iPKP	03 53 16.8			iSKP1	06 39 57.9		
			De	iPKP	03 53 20.6			Tonga-Kermadec Islands. h = 560 km (De).			
			Solomon Islands (h = 25 km).			"	19	Up	iP	11 16 45.5 C	
	"	19	Up	iP	04 51 12.9			i	11 17 17.2		
					micr sec				micr sec		
				P	Z' 0.2 1.0			P	Z' 0.1 1.2		
			Ki	iP	04 49 46.0			Ki	iP	11 15 50.4	
				i	04 49 49.9				micr sec		
					micr sec				Z' 0.1 0.9		
				P	Z' 0.8 2.0		Sk	iP	11 16 28.1		
			Sk	eP	04 50 31		Um	iP	11 16 16.9		
				i	04 50 34.5		Ud	iP	11 16 48.1		
			Um	iP	04 50 33.4		De	eP	11 17 11		
			Ud	iP	04 51 08.9		Kamchatka (h = 60 km). m = 5.8 (Up,Ki).				
				i	04 51 18.1		"	19	Um	iP	13 05 55.8
			De	iP	04 51 42.9				Ud	iP	13 06 13.8
			Svalbard (h = 25 km). m = 5.5 (Up,Ki).					Afghanistan-USSR (h = 240 km).			
	"	19	Um	iP	13 29 06.9		"	19	Um	iP	13 29 06.9
			Ud	iP	13 29 26.5				Ud	iP	13 29 26.5
	"	19	Um	iP	14 11 46.9		"	19	Um	iP	14 11 46.9
			Ud	iP	14 12 07.9				Ud	iP	14 12 07.9
			Burma (h = 120 km).			"	19	Ki	iP	18 04 08.8	
	"	19	Ki	iP	18 04 08.8			Philippine Islands (h = N).			

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

1975				1975					
Nov.	19	Ki	i	20 05 49.3	Nov.	20	(cont.)		
		Sk	ePKP1	20 05 58			Ud	iP	15 11 40.7 C
		Um	iPKP1	20 05 53.2 C			De	iP	15 11 57.0 C
		Ud	iPKP1	20 06 06.0 C			Nevada.		
		De	iPKP1	20 06 13.9 C			m = 6.2 (Up,Ki).		
		Kermadec Islands (h = 25 km).					Underground explosion.		
"	19	Up	iP	23 26 22.7	"	21	Up	iP	01 27 38.5 C
				micr sec			i		01 27 44.3
			P	Z' 0.1 1.0			i		01 27 48.3
		Ud	iP	23 26 28.5					micr sec
"	19	Ud	iP	23 27 23.7			P	Z' 0.1 1.2	
		Iran-USSR (h = 40 km).					i	Z' 0.3 1.5	
							Mx	E 1.3 23	
"	19	Up	iP	23 28 48.4			Ki	iP	01 27 39.4 C
		Ki	iP	23 28 28.9			i		01 27 45.1
				micr sec			i		01 27 48.3
			P	Z' 0.1 0.8					micr sec
		Um	iP	23 28 35.9			P	Z' 0.7 1.9	
		Ud	iP	23 28 56.0			i	Z' 0.7 1.7	
			ipP	23 29 03.2			i	Z' 0.6 1.5	
		Samar.					Sk	iP	01 27 25.0 C
		h = 25 km (Ud).					i		01 27 31.0
							i		01 27 34.2
"	19	Ki	iP	23 49 02.7			Um	iP	01 27 42.2 C
		Samar (h = N).					i		01 27 47.8
"	20	Up	iP	01 03 04.7 C			iS		01 38 25
			iPP	01 06 44.3			Ud	iP	01 27 28.7 C
				micr sec			i		01 27 34.6
			P	Z' 0.1 0.8			Panama-Colombia (h = 35 km).		
			PP	Z' 0.2 1.5			m = 6.5 (Up,Ki).		
		Ki	iP	01 03 04.2 C	"	21	Up	iP	04 59 36.2
			iPP	01 06 42.7			Ki	iP	04 59 22.3
				micr sec				i(PP)	05 03 16.3
			P	Z' 0.6 0.9					micr sec
		Sk	iP	01 03 17.9 C			P	Z' 0.1 1.1	
		Um	iP	01 03 01.8 C			Um	iP	04 59 28.1
		Ud	iP	01 03 14.3 C			Ud	iP	04 59 43.5
			iPP	01 07 00.4				i(PP)	05 03 49.0
		De	iP	01 03 12.5 C			Banda Sea (h = 120 km).		
		Sumatra (h = 60 km).			"	21	Ud	iP	05 04 41.2
		m = 6.6 (Up,Ki).			"	21	Ki	iP	08 31 15.2
"	20	Ki	iP	12 22 51.7			Philippine Islands (h = N).		
		Philippine Islands (h = N).			"	21	Ki	iP	13 59 29.4
"	20	Up	iP	15 11 48.3 C			Ud	iP	13 59 38.9
				micr sec	"	21	Up	iP	21 54 55.3
			P	Z' 0.2 0.9			Ki	iP	21 54 35.7
		Ki	iP	15 11 14.4 C				ipP	21 54 46.9
				micr sec					micr sec
			P	Z' 0.1 0.7					
		Sk	iP	15 11 22.1 C			P	Z' 0.1 1.0	
		Um	iP	15 11 33.9 C			Ud	iP	21 55 04.1
		(cont.)					(cont.)		

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

1975						1975						
Nov.	21	(cont.)				Nov.	22	Up	iP	18 39 53.1		
		Philippine Islands.								micr sec		
		h = 35 km (Ki).							P	Z' 0.1 1.4		
"	22	Up	iP	02 47 12.7 C				Ki	eP	18 41 08		
				micr sec				Sk	iP	18 40 34.3		
			P	Z' 0.2 0.9				Ud	iP	18 40 02.0		
			Mx	E 2.4 24					i	18 40 05.5		
			Mx	N 1.3 24				Greece (h = N).				
			Mx	Z 2.9 26		"	23	Ud	ipPKP	00 55 34.8		
		Ki	eP	02 46 54 C					iSKP	00 58 14.3		
				micr sec				De	ipPKP	00 55 40.5		
			P	Z' 0.2 0.8				Solomon Islands (h = 55 km).				
			Mx	E 2.3 22		"	23	Um	i(P)	01 03 43.0		
			Mx	N 2.1 24		"	23	Ud	i(P)	01 05 48.7		
		Sk	iP	02 47 16.8 C		"	23	Um	i(P)	02 41 55.5		
		Um	iP	02 47 01.3 C					i	02 42 23.5		
		Ud	iP	02 47 21.1 C								
		De	iP	02 47 27.7								
		Mindanao (h = 70 km).										
		m = 6.4, M = 5.6 (Up,Ki).										
"	22	Ki	iP	03 42 18.4		"	23	Up	ipPKP	09 58 18.3		
		Ud	iP	03 42 45.5				Ki	ipPKP	09 58 04.6		
		Philippine Islands.						Sk	ipPKP	09 58 15.8		
"	22	Ud	iP	09 01 05.9				Um	ipPKP	09 58 10.9		
		Aleutian Islands (h = 55 km).						Ud	ipPKP	09 58 20.2		
								De	ipPKP	09 58 25.0		
								New Hebrides Islands (h = 230 km).				
"	22	Up	iP	10 10 39.6		"	23	Ud	iP	13 24 41.1 D		
			i	10 10 41.8		"	23	Up	iP	23 12 53.8 D		
				micr sec					i	23 13 06.3		
			P	Z' 0.1 0.8					ipP	23 13 32.6		
			i	Z' 0.4 1.0					iPP	23 15 23.2		
			Mx	E 2.0 11						micr sec		
			Mx	N 2.0 16				Ki	P	Z' 0.3 1.1		
		Ki	iP	10 11 56.8					iP	23 12 12.8 D		
				micr sec					ipP	23 12 50.4		
			P	Z' 0.5 2.0					iPP	23 14 25.6		
			Mx	E 2.3 11						micr sec		
			Mx	N 2.0 14				Sk	P	Z' 0.3 1.1		
			Mx	Z 1.4 12					iP	23 12 47.1 D		
		Sk	iP	10 11 21.1					iPP	23 15 17.2		
		Um	iP	10 11 20.6				Um	iP	23 12 30.9 D		
			i	10 11 23.2					ipP	23 12 08.9		
			i	10 11 27.6				Ud	iP	23 13 01.6 D		
		Ud	iP	10 10 44.9					i	23 13 14.6		
			i	10 10 48.5					ipP	23 13 40.8		
		De	i	10 10 07.4					iPP	23 15 37.3		
			i	10 10 10.4				De	iP	23 13 17.5 D		
		Greece-Albania (h = 35 km).								i	23 13 29.5	
		m = 5.8, M = 4.9 (Up,Ki).								ipP	23 13 56.5	
"	22	Ud	iP	18 04 28.7					iPP	23 15 55.7		
								(cont.)				

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

1975						1975				
Nov.	23	(cont.)				Nov.	24	(cont.)		
		Japan.						De ipP	10 03 25.5	
		h = 160 km (Up,Ki,Um,Ud,De).						Kurile Islands.		
		m = 6.1 (Up,Ki).						h = 40 km (Ki,Ud,De).		
"	23	De ip	23 36 28.6			"	24	Up ip	14 14 30.0	
"	24	Up ip	08 09 06.0 C					Ki ip	14 14 10.6	
		ipP	08 09 18.0						micr sec	
		P	Z' 0.4 1.0					P	Z' 0.1 0.8	
		Ki ip	08 08 21.0 C					Ud ip	14 14 39.5	
		ipP	08 08 32.2					Philippine Islands (h = N).		
		P	Z' 0.4 1.3			"	24	Up	micr sec	
		Sk ip	08 08 56.6					Mx E	1.8 19	
		ipP	08 09 08.4					Mx N	1.1 20	
		Um ip	08 08 40.9 C					Ki ip	14 51 36.6	
		ipP	08 08 52.7						micr sec	
		Ud ip	08 09 12.3 C					Mx E	1.4 22	
		ipP	08 09 24.1					Mx N	2.4 16	
		De ip	08 09 29.8 C					Um iS	15 02 31	
		ipP	08 09 41.9					Sumatra (h = N).		
		Kurile Islands.						M = 5.7 (Up,Ki).		
		h = 40 km (Up,Ki,Sk,Um,Ud,De).				"	24	Ud ip	18 13 03.6	
		m = 6.4, M = 5.6 (Up,Ki).				"	24	Ud ip	18 58 14.3	
"	24	Up ip	08 36 11.1			"	24	Ud ip	21 09 05.0	
		P	Z' 0.2 1.1					Yunnan, China (h = N).		
		Ki ip	08 35 26.2			"	24	Ud ip	21 44 19.7	
		ipP	08 35 37.4					Atlantic Ocean (h = N).		
		pP	Z' 0.1 1.0			"	24	Up iPKP1	21 59 27.8	
		Um ip	08 35 46.5						micr sec	
		Ud ip	08 36 16.7					PKP1	Z' 0.1 0.9	
		Kurile Islands.						Ud iPKP1	21 59 29.2	
		h = 40 km (Ki).						i	21 59 34.0	
		m = 5.9 (Up,Ki).						De iPKP1	21 59 39.9	
"	24	Ud ip	08 39 51.0					i	21 59 43.8	
"	24	Up ip	10 02 50.4					Tonga-Kermadec Islands		
		P	Z' 0.2 1.1					(h = 300 km).		
		Ki ip	10 02 04.0			"	24	Up ip	22 55 11.5	
		ipP	10 02 15.4					Ud ip	22 55 19.1	
		P	Z' 0.2 1.3			"	24	Up ip	23 53 24.7	
		Sk ip	10 02 40.3					Greece-Albania (h = N).		
		Um ip	10 02 25.8			"	25	Up	micr sec	
		Ud ip	10 02 56.4 C					Mx E	3.0 22	
		ipP	10 03 07.5					Mx N	3.0 27	
		De ip	10 03 14.5					Mx Z	6.0 28	
		(cont.)						(cont.)		

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

1975				1975			
Nov.	25	(cont.)		Nov.	26	(cont.)	
		Ki	micr sec			Ud iP	12 17 34.7
		Mx E	6.0 24			Volcano Islands (h = N).	
		Mx N	7.8 24	"	26	Up iP	14 25 24.4
		Mx Z	10 28			Ki iP	14 24 38.9
		Um i	08 25 35.3			Ud iP	14 25 28.8
		Ud iPKP	08 25 32.7			ipP	14 25 41.0
		i	08 26 18.2			Kurile Islands.	
		De i	08 26 25.1			h = 40 km (Ud).	
		Solomon Islands (h = N).		"	26	Up iP	15 12 08.8
		M = 6.2 (Up,Ki).					micr sec
"	25	Ki iP	10 07 43.9			P	Z' 0.1 0.7
		Ud iP	10 08 33.0			Sk iP	15 12 27.0
		Japan (h = 25 km).				Um iP	15 12 02.8
"	25	Um iP	12 56 59.2			Ud iP	15 12 23.1
		Ud iP	12 57 15.7			Tibet (h = N).	
"	25	Ud iPKP1	14 33 16.8	"	26	Ud iP	15 40 19.6
		De iPKP1	14 33 27.4	"	27	Ki iP	00 21 07.8
		Fiji Islands (h = 590 km).					micr sec
"	25	Um iP	16 40 56.7			P	Z' 0.1 1.0
"	26	Up iP	00 27 30.6			Um iP	00 21 13.6
		i	00 27 48.1			Ud iP	00 21 34.0
		iS	00 35 09			Philippine Islands (h = 35 km).	
			micr sec	"	27	Up iP	00 51 42.4
		P	Z' 0.1 1.0			Ki i	00 51 21.9
		i	Z' 0.1 1.0			Um iP	00 51 30.3
		Mx N	2.3 25			Ud iP	00 51 50.6
		Mx Z	3.0 22			Samar (h = N).	
		Ki iP	00 28 03.4	"	27	Up iP1	03 44 30.4
			micr sec			iP2	03 44 35.4
		P	Z' 0.1 1.2			Ki iP1	03 44 13.3
		Mx E	1.2 21			iP2	03 44 17.9
		Mx N	1.9 19			Sk iP2	03 44 48.0
		Mx Z	1.6 21			Um iP2	03 44 20.8
		Sk iP	00 28 00.9			Ud iP2	03 44 49.5
		Um iP	00 27 42.9			Sinkiang, China (h = N).	
		iS	00 35 35	"	27	Ki iP1	10 16 13.2
		Ud iP	00 27 41.7			iP2	10 16 17.4
		Socotra (h = N).				Sk iP2	10 16 50.4
		m = 5.8, M = 5.3 (Up,Ki).				i	10 16 54.0
"	26	Up iP	04 12 10.6			Um iP1	10 16 20.3
		Ki iP	04 12 44.4			Ud iP1	10 16 51.8
		Sk eP	04 12 41			iP2	10 16 56.4
		Um iP	04 12 23.7			De iP1	10 17 03.7
		Ud iP	04 12 23.2			iP2	10 17 07.0
		Socotra (h = N).				i	10 17 12.6
"	26	Up iP	12 17 28.1			Mongolia (h = N).	
		Ki eP	12 16 57				
		(cont.)					

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

1975				1975							
Nov.	27	Up	iSgl	10 44 42.8	Nov.	28	Up	iP	06 11 54.6		
		Ud	iSn	10 43 29.2			Ki	iP	06 11 08.8		
			iSgl	10 43 51.8			Ud	iP	06 12 00.8		
		De	iSgl	10 43 32.9			Kurile Islands (h = 5 km).				
		Skagerrak, 57.1°N, 7.0°E.					"	28	Ki	eP	12 26 19
		Origin time = 10 41 32.							Um	iP	12 26 37.4
		m = 4.2, M _L = 2.5 (Ud).							Ud	iP	12 27 07.9
		By combination with							i		12 27 16.8
		Kongsberg readings.							Japan (h = 15 km).		
"	27	Ud	eP	14 34 00	"	28	Ki	iP	16 05 14.8		
		Greece (h = 55 km).					Japan (h = 50 km).				
"	27	Ud	iPKP	16 40 40.8	"	28	Ud	iPKP1	17 54 30.5		
		New Hebrides Islands					De	iPKP1	17 54 41.7		
		(h = 210 km).					"	28	Ki	iP	18 22 12.6
"	27	Up	iP	19 33 01.0			Ud	iP	18 22 25.8		
		Ud	iP	19 33 06.7			Tadzhik-Sinkiang (h = 70 km).				
		Kurile Islands (h = 35 km).			"	28	Up	i	18 57 18.1		
"	27	Up	iP	19 45 44.8			iRg	18 57 24.4			
				micr sec			Sk	iSgl	18 58 35.2		
			P	Z' 0.1 0.8			Um	iSgl	18 58 53.5		
		Ki	iP	19 44 59.2			Ud	iSgl	18 57 04.7		
		Um	iP	19 45 20.0			iRg	18 57 09.1			
		Ud	iP	19 45 51.1			Central Sweden,				
		ipP	19 46 00.4				near 60°N, 15°E.				
		Kurile Islands.					Near-surface event.				
		h = 30 km (Ud).			"	28	Ud	iP	21 18 26.4		
"	27	Ud	iP	20 00 06.4	"	29	Up	iP	02 30 48.9		
"	27	Ki	iP	20 23 19.7			iS	02 41 32			
		Ud	eP	20 23 55			micr sec				
		Mariana Islands (h = 320 km).					P	Z' 0.1 1.2			
"	27	Sk	iS	20 31 29.3			Mx	E 5.1 18			
			i	20 30 58.1			Mx	N 11 16			
		Ud	iS	20 31 18.1			Mx	Z 9.5 17			
			i	20 31 34.2			Ki	iP	02 30 28.2		
		De	iS	20 31 38.0			i	02 30 33.2			
		United Kingdom (h = N).					iS	02 40 53			
"	27	Ud	iP	21 08 14.0			micr sec				
"	28	Ud	i(P)	00 45 50.8			P	Z' 0.1 1.0			
"	28	Ki	iP	02 24 27.0			Mx	E 7.5 14			
		Molucca Passage (h = 10 km).					Mx	N 8.6 16			
"	28	Ud	iP	04 15 23.6			Mx	Z 11 15			
		Turkey (h = 20 km).					Um	iP	02 30 34.9		
							iS	02 41 16.0			
							Ud	iP	02 30 56.0		
							i	02 30 59.9			
							i	02 31 07.4			
							Samar (h = 60 km).				
							m = 5.9, M = 6.4 (Up, Ki).				

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

1975

Nov. 29 Up iSgl 07 41 30.2
Sk iSgl 07 39 48.2
Ud iSn 07 39 57.9
iSgl 07 40 29.6
i 07 40 32.8

Off coast of west Norway,
near 62 1/4° N, 3 1/2° E.
Origin time = 07 37 42.
m = 4.4, M_L = 3.1 (Up,Ud).

By combination with Bergen
and Kongsberg readings.

" 29 Up iPKP1 09 20 36.0
iPKP2 09 20 45.4
i 09 21 10.6
micr sec
i Z' 0.1 1.0
Ki i 09 20 21.0
Sk ePKP1 09 20 31
i 09 20 53.5
Um iPKP1 09 20 25.3
Ud iPKP1 09 20 38.0
i 09 21 15.9
De iPKP2 09 21 01.4
Kermadec Islands (h = 50 km).

" 29 Ki iP 09 32 17.0
micr sec
P Z' 0.1 1.0
Sk iP 09 32 02.0
Um iP 09 32 18.8
Ud iP 09 32 05.5
Colombia (h = 15 km).

" 29 ✓ Up iPKP 11 05 43.4
iPKKP 11 15 41.0
micr sec
PKP Z' 0.1 1.0
Mx E 1.5 25
Mx N 1.2 22
Ki iPKP 11 05 59.0
i(SKIP) 11 09 15.1
iSKIP 11 09 17.4
micr sec
PKP Z' 0.5 1.3
SKIP Z' 0.3 1.6
Sk iPKP 11 05 48.1
Um iPKP 11 05 52.4
Ud iPKP 11 05 41.5
iPKKP 11 15 42.8
South Sandwich Islands
(h = 50 km).

" 29 Ki i(Sn) 12 40 54.1
i 12 41 06.5
Um i(Sgl) 12 42 30.5

1975

Nov. 29 Ki iP 13 48 55.2
Sk iP 13 49 12.2
Hawaii (h = 10 km).

" 29 ✓ Up iP1 15 01 32.4
iP2 15 01 36.2
i 15 02 03.0
i 15 06 07.5
i 15 06 28.5
micr sec

iP2 Z' 0.1 1.1
i Z' 0.2 1.2
i Z' 0.7 1.7
Mx E 26 21
Mx N 35 20
Mx Z 62 20

Ki iP1 15 00 57.4
iP2 15 01 01.6
i 15 01 27.2
i 15 05 14.6
micr sec

iP2 Z' 0.2 1.4
i Z' 0.4 1.4
i Z' 1.4 2.5
Mx E 23 17
Mx N 25 18
Mx Z 72 21

Sk iP1 15 01 15.7
i 15 01 45.2
i 15 05 53.2
Um iP1 15 01 13.5
i 15 01 57.2
Ud iP1 15 01 29.3
iP2 15 01 35.1
i 15 02 01.7
i 15 05 59.5
i 15 06 20.9

Hawaii (h = 5 km).
m = 6.6, M = 6.9 (Up,Ki).

" 29 Ki iP 16 30 37.7
Sk iP 16 30 18.9
Um iP 16 30 37.0
Ud iP 16 30 28.3
i 16 30 36.7
Panama-Colombia (h = 25 km).

" 29 Ud iP 17 57 26.5
Japan (h = 80 km).

" 29 Up iPKP1 23 25 03.0
Sk iPKP1 23 24 57.3
Um iPKP1 23 24 52.6
Ud iPKP1 23 25 05.2
i 23 25 06.8
De iPKP1 23 25 15.1

Kermadec Islands (h = 70 km).

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

1975

Nov. 30 Up iP 04 25 46.2
 Ki iP 04 26 58.9
 Sk iP 04 26 25.3
 Um iP 04 26 23.1
 Ud iP 04 25 52.0
 De iP 04 25 17.2
 Greece (h = 55 km).

" 30 Ud iP 05 42 12.8
 Aleutian Islands (h = 100 km).

" 30 Ki eP 10 58 27
 Ud iP 10 59 03.9
 Vancouver Island (h = 30 km).

" 30 Ki ipP 11 51 51.2
 Um ipP 11 52 10.8
 Ud ipP 11 52 39.5
 Japan (h = 30 km).

" 30 Ki eP 16 12 13
 Ud iP 16 11 55.0
 Iran (h = 35 km).

" 30 Ki iP 16 16 02.0
 Ud iP 16 15 43.6
 Iran.

" 30 Up iP 18 32 51.5
 micr sec
 P Z' 0.1 1.0
 Ki iP 18 32 38.2
 Sk iP 18 33 04.0
 Um iP 18 32 41.1
 Ud iP 18 33 04.6
 De iP 18 33 08.6
 Yunnan, China (h = 20 km).

" 30 Up iP 18 43 50.8 C
 Ki iP 18 43 37.7
 Sk eP 18 44 03
 Ud iP 18 44 03.7 C
 Yunnan, China (h = N).

" 30 Up iP 18 45 32.5

" 30 Ud iP 19 22 07.2

" 30 Up iP 20 41 13.1 C
 ipP 20 41 20.3
 iS 20 50 19
 micr sec
 P Z' 0.2 1.2
 pP Z' 0.3 1.1
 (cont.)

1975

Nov. 30 (cont.)
 Up micr sec
 Mx E 7.4 17
 Mx N 8.0 18
 Mx Z 12 16
 Ki iP 20 40 19.4
 micr sec
 P Z' 0.4 1.0
 Mx E 11 16
 Mx N 13 16
 Mx Z 14 17
 Sk iP 20 40 49.6
 Um iP 20 40 46.8 C
 iS 20 49 28
 Ud iP 20 41 12.2 C
 ipP 20 41 19.4
 De iP 20 41 35.0 C
 ipP 20 41 42.1
 Aleutian Islands.
 h = 25 km (Up,Ud,De).
 m = 6.3 (Up,Ki).

" 30 Ki iP 21 16 50.7
 Ud iP 21 17 42.2
 De iP 21 18 05.7
 Aleutian Islands (h = N).

" 30 Ud iP 22 42 02.0

" 30 Ki iP 22 45 37.0
 Ud eP 22 46 00
 i 22 46 11.9
 Alma-Ata, USSR (h = 35 km).

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September 14, 1977



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SEISMOLOGICAL BULLETIN

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

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

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

D E C E M B E R 1 - 31, 1975
.....

1975					1975				
Dec.	1	Um	iP	01 38 53.5	Dec.	1	Ud	iP	10 28 13.5
"	1	Ki	iP	02 15 10.7			De	iP	10 27 59.5
"	1	Ki	iP	02 15 18.3	"	1	Sk	i(P)	10 44 36.2
		Um	iP	02 15 45.6	"	1	Ki	iP	11 26 51.4
		Ud	iP	02 16 10.9			Um	iP	11 26 06.3
		De	iP	02 16 33.1			Ud	iP	11 26 34.5
		Aleutian Islands (h = 55 km).					Japan (h = 370 km).		
"	1	Up	iPKP	02 33 13.2	"	1	Up	iP	12 19 45.5 D
			iSKP1	02 36 27.0			i		12 20 00.9
		Ki	iPKP	02 32 58.6					micr sec
		Sk	iPKP	02 33 10.1			P	Z'	0.1 1.1
		Um	iPKP	02 33 02.4			Mx	E	0.9 16
			iSKP1	02 36 15.1			Mx	Z	1.4 21
		Ud	iPKP	02 33 14.8			Ki	iP	12 19 26.1 D
			iSKP1	02 36 30.8			i		12 19 32.5
		De	iPKP	02 33 22.0					micr sec
			iSKP1	02 36 40.0			P	Z'	0.2 1.1
		New Hebrides Islands (h = 120 km).					Um	iP	12 19 33.3 D
"	1	Ud	iP	02 47 04.3			Ud	iP	12 19 54.1 D
"	1	Ud	iP	04 19 03.3			i		12 20 12.2
		Hindu Kush.					De	iP	12 20 00.9 D
"	1	Ki	iP	05 25 31.2	"	1	Up	iP	14 11 03.2
		Kamchatka (h = 55 km).					Ki	iP	14 10 33.4
"	1	Up	iP	06 03 18.0			i		14 10 37.1
		Ud	iP	06 03 16.7			Um	iP	14 10 44.2
		Aleutian Islands (h = 30 km).					Ud	iP	14 11 17.6
"	1	Ki	iP	08 01 36.2			De	iP	14 11 28.3
		Ud	iP	08 02 25.8			i		14 11 31.3
							USSR-Mongolia (h = N).		
"	1	Up	iP	18 47 08.6	"	1	Up	iP	18 47 08.6
							(cont.)		

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

1975				1975			
Dec.	1	(cont.)		Dec.	2	Up iP	23 48 01.2
		Ki iP	18 46 53.1			Hindu Kush (h = 210 km).	
		Ud iP	18 47 17.1				
		Celebes Sea (h = 330 km).		"	3	Ki iPKP	06 05 00.7
"	1	Up iP	23 22 48.6			Sk iPKP	06 05 11.9
		Ud iP	23 22 05.4			Um iPKP	06 05 06.8
		De iP	23 22 01.8			Santa Cruz Islands	
		Hindu Kush.				(h = 250 km).	
"	2	Ud iP	01 14 49.3	"	3	Up iP	07 25 28.6
		Greece.				micr sec	
						P Z' 0.1 0.8	
"	2	Ud iP	01 49 40.3			Ki iP	07 24 45.8
		Kurile Islands (h = N).				iPcP	07 25 25.3
						micr sec	
"	2	Up iPKP1	05 14 22.6			PcP Z' 0.1 1.1	
		micr sec				Sk iP	07 25 21.1
		PKP1 Z' 0.1 1.2				Um iP	07 25 03.5
		Ki i	05 14 14.7			iPcP	07 25 38.5
		Sk i	05 14 26.6			Ud iP	07 25 34.8
		Um iPKP1	05 14 12.1			De iP	07 25 52.2
		Ud iPKP1	05 14 25.0			Japan (h = 80 km).	
						m = 5.8 (Up,Ki).	
"	2	Up iP	11 14 01.0	"	3	Ki iP	07 47 02.2
		Ud iP	11 14 15.5			Alaska (h = 80 km).	
"	2	Ud iP	15 00 11.3	"	3	Up i(P)	09 11 07.1
"	2	Up iPgl	16 05 10.0	"	3	Up i(P)	11 16 32.7
		iSgl	16 05 27.3	"	3	Up iP	12 01 10.3
		i	16 05 32.0			i	12 01 19.0
		iRg	16 05 34.9			micr sec	
		Sk eSgl	16 06 49			P Z' 0.1 1.0	
		Um iSgl	16 07 07.5			Ki iP	12 01 48.2
		Ud iSgl	16 05 07.0			i	12 01 54.4
		iRg	16 05 09.9			micr sec	
		De iSgl	16 06 42.4			P Z' 0.1 1.0	
		Ställberg, Sweden,				Um iP	12 01 31.7
		60.0°N, 14.9°E.				Ud iP	12 01 07.3
		Origin time = 16 04 47.				De iP	12 00 50.1
		m = 4.0, M _L = 2.2 (Up,Um).				South Atlantic Ocean	
		Rockburst.				(h = N).	
		Felt.				m = 6.0 (Up,Ki).	
"	2	Ki iP	20 31 09.7	"	3	Ud iP	12 04 37.8
		Mariana Islands (h = 140 km).		"	3	Up iPKP1	13 07 02.6
"	2	Up iP	23 35 37.5			Um iPKP	13 06 56.4
		Ki iP	23 35 23.2			Ud iPKP1	13 07 05.1
		Sk i	23 35 46.7	"	3	Up iP	17 19 54.5
		Um iP	23 35 29.3			i	17 20 12.5
		Ud iP	23 35 46.3			(cont.)	
		Talaud Islands (h = 170 km).					

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

1975				1975			
Dec.				Dec.			
3	(cont.)			5	(cont.)		
	Ki	iP	17 19 37.0		Sk	iP	07 45 59.5
	Sk	iP	17 19 59.3		Um	iP	07 45 32.7
	Um	iP	17 19 43.2		Ud	iP	07 45 51.3
	Ud	iP	17 20 03.2		De	iP	07 45 48.6
		i	17 20 16.2		Kashmir-India.		
	De	eP	17 20 09		h = 35 km (Up).		
	Mindanao (h = 70 km).				m = 6.0 (Up,Ki).		
"	3	Up	iRg 20 56 16.2	"	5	Up	iP 09 43 27.1
		Ud	iRg 20 56 02.4			Ki	iP 09 43 34.5
		Central Sweden.				Ud	iP 09 43 14.7
		Near-surface event.				De	iP 09 43 12.4
"	3	Ud	iP 21 24 44.0		Venezuela (h = 110 km).		
"	4	Up	iP 14 27 27.8	"	5	Ud	iP 13 19 12.3
		Ki	iP 14 27 10.5	"	5	Up	iP 14 40 21.9
		Um	iP 14 27 14.7			ipP	14 44 42.4
		Ud	iP 14 27 39.9			Ki	iP 14 40 08.4
		Szechwan, China (h = N).				ipP	14 44 19.8
"	4	Um	iP 14 51 06.9				micr sec
"	4	Up	iP 15 10 53.5			P	Z' 0.2 0.9
		ipP	15 11 18.4			Um	iP 14 40 12.1
		Ki	iP 15 10 41.0			Ud	iP 14 40 32.1
		ipP	15 11 04.9				i(PP) 14 43 37.7
			micr sec				ipP 14 44 56.5
		pP	Z' 0.1 1.2			De	iP 14 40 35.0
		Sk	iP 15 10 35.0			ipP	14 44 59.9
		ipP	15 10 58.6			Banda Sea (h = 580 km).	
		Um	iP 15 10 49.9	"	5	Ud	iP 15 43 28.8
		ipP	15 11 13.6	"	5	Ud	iP 18 05 20.4
		Ud	iP 15 10 43.9			Alaska (h = 70 km).	
		ipP	15 10 07.1	"	5	Up	iP 20 25 15.3
		De	iP 15 10 49.7			i	20 25 39.9
		ipP	15 11 14.6				micr sec
		Mexico.				P	Z' 0.3 1.1
		h = 90 km (Up,Ki,Sk,Um,Ud,De).				Ki	iP 20 24 28.4
"	4	Um	ipKP1 19 08 18.1			ipP	20 24 45.2
		Ud	ipKP1 19 08 34.6			i	20 24 56.4
"	5	Up	iP 07 45 35.6				micr sec
		ipP	07 45 45.0			P	Z' 0.4 1.3
		i	07 47 35.7			Um	iP 20 24 49.5
			micr sec			ipP	20 25 06.4
		P	Z' 0.3 1.0			Ud	iP 20 25 21.1
		i	Z' 0.4 1.5			ipP	20 25 38.3
		Ki	iP 07 45 41.3			De	iP 20 25 37.9
			micr sec			Kurile Islands.	
		P	Z' 0.2 0.8			h = 70 km (Ki,Um,Ud).	
		(cont.)				m = 6.2 (Up,Ki).	
"	6	Up	iP 05 25 25.6	"	6	Up	iP 05 25 25.6
		(cont.)				(cont.)	

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

1975				1975					
Dec.	6	(cont.)		Dec.	7	Up	iP	08 08 56.7	
		Up	micr sec			Um	iP	08 08 33.2	
		P	Z' 0.3 1.1			Ud	iP	08 09 03.0	
		Ki	iP	05 25 06.5			ipP	08 09 09.0	
			ipP	05 25 15.6				Kurile Islands.	
				micr sec				h = 20 km (Ud).	
		P	Z' 0.5 1.5	"	7	Ud	iP	09 55 49.8	
		Mx	E 3.7 13					Ryukyu Islands (h = 25 km).	
		Mx	N 2.8 14	"	7	Ud	iP	12 15 13.1	
		Mx	Z 3.3 12	"	8	Ki	iP	10 33 33.9	
		Sk	iP	05 25 30.7		Ud	iP	10 34 06.8	
		Um	iP	05 25 12.7				Philippine Islands (h = 15 km).	
			ipP	05 25 22.0	"				
		Ud	iP	05 25 35.2	"	8	Up	eP	16 17 36
		De	iP	05 25 42.2		Ki	iP	16 16 00.4	
				Philippine Islands.			i	16 16 19.4	
				h = 30 km (Ki,Um).		Um	iP	16 16 54.2	
				m = 6.3 (Up,Ki).		Ud	iP	16 17 33.6	
"	6	Ki	iP	05 30 23.8				Svalbard (h = N).	
		Um	iP	05 30 30.3	"	8	Up	iP	19 06 08.2
		Ud	iP	05 30 53.5			ipP	19 06 19.4	
				Philippine Islands (h = 45 km).				micr sec	
"	6	Up	iP	07 10 47.7				Z' 0.2 1.3	
				micr sec		Ki	iP	19 05 14.6	
		P	Z' 0.1 1.2				ipP	19 05 25.5	
		Ki	iP	07 10 29.3				micr sec	
		Sk	eP	07 10 55				Z' 0.1 0.7	
		Um	iP	07 10 35.1		Sk	i	19 05 53.9	
		Ud	iP	07 10 57.6			ipP	19 06 02.4	
				Philippine Islands (h = 50 km).		Um	iP	19 05 40.8	
"	6	Ki	eP	08 25 13			i	19 05 43.5	
		Ud	iP	08 24 12.7			ipP	19 05 51.6	
				Aegean Sea (h = 25 km).		Ud	iP	19 05 51.6	
"	6	Up	iPKP2	17 31 03.7			i	19 06 26.5	
		Um	iPKP1	17 30 47.2		De	iP	19 06 33.9	
			i	17 31 00.9			ipP	19 06 44.5	
			i	17 31 07.4				Kamchatka.	
		Ud	iPKP1	17 30 59.0				h = 40 km (Up,Ki,Um,De).	
			iPKP2	17 31 05.4				m = 6.0 (Up,Ki).	
				Kermadec Islands (h = N).	"	8	Up	iP	21 30 44.2
"	6	Um	iP	17 39 41.8			Ki	iP	21 29 50.6
"	7	Up	iPKP	04 20 57.2			Um	iP	21 30 18.6
		Um	i1	04 20 56.2			Ud	iP	21 30 43.4
			i2	04 21 02.3				Aleutian Islands (h = 20 km).	
		Ud	iPKP	04 20 59.2	"	8	Up	iP	22 57 30.5 C
			i1	04 21 07.5				iS	23 01 07
		De	iPKP	04 21 03.1				micr sec	
			i2	04 21 17.1				Z' 0.1 0.9	
				New Ireland (h = 40 km).				(cont.)	

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

1975				1975			
Dec.		(cont.)		Dec.		(cont.)	
		Up	micr sec			Ki	micr sec
		Mx	E 1.9 20			PKP	Z' 0.1 1.2
		Mx	N 6.6 17			Mx	N 5.5 19
		Mx	Z 10 19			Mx	Z 6.3 21
		Ki	iP 22 55 58.3 C			Sk	iPKP 09 33 51.9
			micr sec			Um	i(PKP) 09 33 39.8
		P	Z' 1.7 2.4				iPKP 09 33 49.5
		Mx	E 3.5 13			Ud	i(PKP) 09 33 48.9
		Mx	N 6.7 14				iPKP 09 33 58.3
		Mx	Z 4.0 11			De	iPKP 09 34 05.1
		Sk	iP 22 56 45.6 C			Samoa Islands (h = N).	
		Um	iP 22 56 50.3 C				
			iS 22 59 48	"	9	Ki	iPKP 13 52 00.5
		Ud	iP 22 57 26.4 C			Um	iPKP 13 52 08.5
		De	iP 22 58 03.4 C			Ud	iPKP1 13 52 07.9
		Greenland Sea (h = N).				De	iPKP1 13 52 17.6
		m = 6.0, M = 4.9 (Up,Ki).				Fiji Islands (h = 640 km).	
"	9	Up	iP 01 35 41.2	"	9	Um	iP 23 11 45.4
			ipP 01 37 41.4				
			micr sec	"	10	Up	iP 03 34 34.0
		P	Z' 0.3 1.1				ipP 03 34 39.9
		Ki	iP 01 35 24.2				iPP 03 36 27.3
			i 01 37 34.6				micr sec
			micr sec			P	Z' 0.3 1.2
		P	Z' 0.4 1.0			Mx	N 2.1 10
		Sk	iP 01 35 45.0			Ki	iP 03 34 39.2
		Um	iP 01 35 29.7				iPP 03 36 27.7
		Ud	iP 01 35 48.3				micr sec
			ipP 01 37 50.2			P	Z' 0.3 1.2
		De	iP 01 35 53.8			Mx	E 6.7 12
		Mindanao.				Mx	N 3.1 12
		h = 560 km (Up,Ud).				Mx	Z 4.6 11
		m = 6.3 (Up,Ki).				Sk	iP 03 34 57.1
"	9	Ud	iP 05 49 34.1				ipP 03 35 03.2
		Mindanao (h = 480 km).				Um	iP 03 34 31.1
"	9	Ud	iP 07 34 34.6				ipP 03 34 37.0
"	9	Sk	eP 09 03 14			Ud	iP 03 34 49.8
		Um	iP 09 02 58.3			De	iP 03 34 47.4
		Ud	iP 09 03 18.9			Kashmir-India.	
		Mindanao (h = 90 km).				h = 20 km (Up,Sk,Um).	
"	9	Up	i(PKP) 09 33 50.7			m = 5.9, M = 5.6 (Up,Ki).	
			ipKP 09 33 58.9	"	10	Up	iP 05 12 07.9
			micr sec			Ki	iP 05 12 13.3
		Mx	E 3.4 28			Sk	iP 05 12 31.1
		Mx	N 6.6 34			Um	iP 05 12 04.3
		Mx	Z 10 34			Ud	iP 05 12 23.1
		Ki	iPKP 09 33 42.5			Kashmir-India (h = N).	
		(cont.)		"	10	Up	iP 05 17 05.8
						Ki	iP 05 17 10.7
						Sk	i 05 17 35.0
						Um	iP 05 17 02.1
						Ud	iP 05 17 21.4
						Kashmir-India (h = 55 km).	

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

1975				1975					
Dec.	10	Up	iP	06 30 53.7	Dec.	11	Up	iP	07 53 50.0
				micr sec			Ud	iP	07 53 58.9
			P	Z' 0.1 1.1			Ryukyu Islands (h = 130 km).		
		Ki	iP	06 30 50.4	"	11	Up	iP	10 18 14.0
				micr sec					micr sec
			P	Z' 0.1 0.9				P	Z' 0.1 1.0
		Sk	iP	06 31 14.1			Ki	iP	10 18 19.7
		Um	iP	06 30 46.2					micr sec
		Ud	iP	06 31 09.9				P	Z' 0.1 1.1
		De	iP	06 31 10.7			Sk	iP	10 18 37.8
		Kirgiz-Sinkiang (h = 50 km).					Um	iP	10 18 10.9
		m = 5.5 (Up,Ki).					Ud	iP	10 18 29.8
"	10	Ki	iP	08 43 53.0			De	iP	10 18 26.9
		Ud	iP	08 44 12.3			Kashmir-India (h = 60 km).		
		Kirgiz SSR.					m = 5.5 (Up,Ki).		
"	10	Ki	iP	17 07 14.7	"	11	Up	i(P)	13 53 47.8
		Ud	iP	17 08 44.9			Ud	i(P)	13 53 56.9
"	10	Ki	iP	17 18 32.5				i	13 54 05.2
		Kirgiz SSR.			"	11	Up	iP	13 56 07.3
"	10	Ud	iP	18 18 07.2			Ud	iP	13 56 24.0
		De	eP	18 17 38			De	iP	13 56 11.6
		Crete (h = 50 km).					Caspian Sea (h = N).		
"	10	Ud	iP	21 10 08.3	"	11	Up	iP	16 54 08.4
"	11	Ud	iP	01 29 45.0				ipP	16 54 24.5
"	11	Up	iPKP1	03 02 47.8					micr sec
		Um	iPKP1	03 02 37.0				P	Z' 0.2 1.0
		Ud	iPKP1	03 02 49.5			Ki	iP	16 53 21.6
		De	iPKP1	03 03 00.2					micr sec
"	11	Up	iP	03 51 32.6				P	Z' 0.1 1.0
		Ki	iP	03 50 39.3			Sk	iP	16 53 56.9
		Um	iP	03 51 05.5			Um	iP	16 53 42.8
		Ud	iP	03 51 34.2				ipP	16 53 58.8
		Aleutian Islands (h = 70 km).					Ud	iP	16 54 14.2
							De	iP	16 54 33.1
							Kurile Islands.		
							h = 60 km (Up,Um).		
							m = 6.0 (Up,Ki).		
"	11	Up	iPKP	05 35 05.6	"	11	Up	iP	17 33 01.4
		Ki	iPKP	05 34 51.5			Ud	iP	17 33 08.2
		Um	iPKP	05 34 58.0			Greece (h = 25 km).		
		Ud	iPKP	05 35 06.7	"	11	Ki	iPP	20 35 15.8
		De	iPKP	05 35 12.3					micr sec
		Santa Cruz Islands (h = 50 km).						PP	Z' 0.1 1.0
"	11	Ud	iP	06 39 20.7			Peru (h = 100 km).		
		Vancouver Island (h = N).			"	11	Um	iP	22 08 32.7
"	11	Ud	iP	07 14 00.6			Ud	iP	22 09 02.5
		Vancouver Island (h = 20 km).							

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

1975				1975			
Dec.	11	Ud	iP	22 46 47.1	Dec.	13	(cont.)
				Iran-USSR (h = 20 km).			Um iPgl 15 30 51.5
							iSn 15 31 18.0
"	12	Ud	i	03 18 38.2			iSgl 15 31 33.6
			iRg	03 18 48.0			Ud iSgl 15 33 57.0
				Regional near-surface event.			Swedish Lapland, 66.8°N, 22.4°E.
"	12	Ud	iP	04 16 49.1			Origin time = 15 29 55.
"	12	Up	iP	08 25 39.4			m = 4.3, M _L = 2.7 (Ki,Um,Ud).
		Ki	iP	08 25 21.2			Felt.
		Um	iP	08 25 27.8	"	13	Up iPKP1 16 12 11.4
		Ud	iP	08 25 47.5			i 16 12 17.3
				Samar (h = 55 km).			Um iPKP1 16 12 00.4
"	12	Sk	il	13 28 03.9			Ud iPKP1 16 12 13.0
		Um	il	13 28 00.2	"	13	Ud eP 17 59 17
		Ud	ePKP	13 27 55.7			i 17 59 34.6
			il	13 28 09.7			Hindu Kush.
		De	iSKP1	13 31 27.1	"	13	Ud iP 19 10 30.8
				Santa Cruz Islands (h = 55 km).	"	13	Up iP 22 46 06.8 D
"	13	Ud	iP	03 55 35.5			ipP 22 46 27.8
"	13	Up	iP	04 40 33.9			micr sec
		Ki	eP	04 40 28			P Z' 0.1 0.7
		Um	iP	04 40 28.9			Ki iP 22 46 00.8 D
		Ud	iP	04 40 43.4			micr sec
		De	iP	04 40 43.5			P Z' 0.1 0.8
				Java Sea (h = 610 km).			Sk iP 22 46 22.6 D
"	13	Up	iP	05 03 52.3			Um iP 22 45 59.6 D
			iPn	05 04 59.2			ipP 22 46 20.3
		Ki	iP	05 03 37.1 C			Ud iP 22 46 20.3 D
				micr sec			ipP 22 46 41.2
			P	Z' 0.1 0.6			De iP 22 46 21.8
		Sk	iP	05 04 08.4			ipP 22 46 43.1
		Um	iP	05 03 37.7			Burma-India.
		Ud	iP	05 04 09.3 C			h = 80 km (Up,Um,Ud,De).
			iPn	05 05 23.8			m = 6.0 (Up,Ki).
				Kazakh SSR.	"	13	Ud i(P) 23 01 05.1
				Underground explosion.	"	14	Ud iP 09 59 07.4
"	13	Up	iP	10 12 45.9	"	14	Up iP 17 43 13.0
		Ud	iP	10 12 59.6			Ud iP 17 43 05.7
"	13	Ud	iP	13 53 41.4	"	14	Up iP 21 02 05.5
"	13	Up	i(S*)	15 33 39.2			Ki eP 21 01 50
			iSgl	15 33 45.1			Ud eP 21 02 12
		Ki	iPgl	15 30 16.8			i 21 02 23.7
			iSn	15 30 29.0			Negros (h = 15 km).
			iSgl	15 30 32.9	"	14	Up iP 23 14 27.1
		Sk	iSgl	15 32 43.1			Ki i 23 14 32.6
				(cont.)			(cont.)

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

1975				1975			
Dec.	Day	Station	Time	Dec.	Day	Station	Time
1975	14	(cont.)		1975	16	(cont.)	
		Ud	iP 23 14 43.0			Up	micr sec
		De	iP 23 14 42.9			P	Z' 0.1 1.2
		Tadzhik-Sinkiang (h = 55 km).				Ki	iP 04 00 45.7
							micr sec
"	14	Up	iP 23 25 31.5			P	Z' 0.1 1.4
			micr sec			Um	iP 04 00 53.1
			P Z' 0.5 1.7			Ud	iP 04 00 54.3
		Ud	iP 23 25 39.7			De	i 04 01 32.9
		De	iP 23 25 19.0			Iceland (h = 10 km).	
		Arabian Peninsula (h = N).				m = 4.8 (Up,Ki).	
"	14	Up	iP 23 36 07.6	"	16	Up	iP 05 00 48.6
			micr sec				micr sec
			P Z' 0.2 1.1			P	Z' 0.1 1.0
		Ud	iP 23 36 17.6			Ki	iP 05 00 03.9
		De	iP 23 35 55.3				micr sec
		Arabian Peninsula (h = N).				P	Z' 0.1 1.0
"	15	Up	iP 01 05 27.8			Um	iP 05 00 24.4
		Ud	iP 01 05 35.5			Ud	iP 05 00 55.0
		Japan (h = 70 km).				De	iP 05 01 13.2
"	15	Up	iPKP1 04 43 48.1	"	16	Up	iP 05 00 48.6
			micr sec				micr sec
			PKP1 Z' 0.1 0.9			Ki	i(pP) 07 49 26.3
		Ud	iPKP1 04 43 49.6			Iran-USSR (h = 60 km).	
		De	iPKP1 04 43 57.9	"	16	Up	iP 08 13 04.0
		Kermadec Islands (h = 200 km).				Greece-Albania (h = 70 km).	
"	15	Up	iP 13 49 04.0	"	16	Up	iP 10 17 07.5
			micr sec			Ki	iP 10 16 44.1
			P Z' 0.1 1.0			Iceland (h = 20 km).	
		Ud	iP 13 48 55.9	"	16	Up	iP 10 18 57.5
		Atlantic Ocean (h = N).					micr sec
"	15	Ud	iP 19 11 43.5			P	Z' 0.1 1.0
		Tadzhik SSR (h = 210 km).				Ki	iP 10 18 25.7
"	15	Ud	iPKP1 19 20 07.2				ipP 10 18 37.2
			i 19 20 09.8				micr sec
		De	i 19 20 19.0			P	Z' 0.1 1.0
		Tonga-Kermadec Islands (h = 100 km).				Sk	iP 10 18 57.2
"	15	Up	iPKP1 22 30 51.7			Um	iP 10 18 39.5
		Ud	iPKP1 22 30 53.6			Japan.	
		De	iPKP1 22 31 04.0			h = 40 km (Ki).	
"	16	Up	iPKP1 02 23 44.1			m = 5.8 (Up,Ki).	
		Ud	iPKP1 02 23 44.7	"	16	Up	iP 13 41 55.4
		De	iPKP1 02 23 55.2				micr sec
		Fiji Islands (h = 550 km).				P	Z' 0.1 1.0
"	16	Up	iP 04 01 11.4			Ki	iP 13 42 43.6
		(cont.)					micr sec
						P	Z' 0.1 1.1
						Um	iP 13 42 22.6
						De	iP 13 41 25.9
						(cont.)	

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

1975				1975			
Dec.	Day	Station	Time	Dec.	Day	Station	Time
1975	Dec. 16	(cont.)		1975	Dec. 17	(cont.)	
		North Atlantic Ocean (h = N).				Up	micr sec
		m = 5.5 (Up,Ki).				Mx	N 13 19
"	16	Ki iP	13 45 23.5			Mx	Z 22 18
		Mariana Islands (h = 80 km).				Ki iP	05 47 25.0 C
"	16	Up iP	15 52 07.1 C				micr sec
			micr sec			P	Z' 0.2 1.4
			Z' 0.2 1.0			Mx	E 13 17
		Ki iP	15 51 35.4 C			Mx	N 18 18
			micr sec			Mx	Z 14 16
			Z' 0.1 1.0			Sk iP	05 47 39.8 C
		Sk eP	15 52 04 C			Um iP	05 47 21.2 C
		Um iP	15 51 49.3 C			De iP	05 47 33.6 C
		De eP	15 52 27			Sumatra (h = 15 km).	
		Japan (h = 480 km).				m = 6.0, M = 6.5 (Up,Ki).	
		m = 5.5 (Up,Ki).		"	17	Um iP	06 03 29.1
"	16	Um iP	18 37 15.4			Afghanistan-USSR (h = 170 km)	
"	16	Ki iP	20 00 41.6	"	17	Up iPKP	08 00 47.1
		ipP	20 01 15.7				micr sec
		Sk iP	20 01 08.7			PKP	Z' 0.1 0.9
		Um iP	20 00 54.6			Ki iPKP	08 00 35.1 C
		ipP	20 01 29.4			Sk iPKP	08 00 45.8
		Volcano Islands.				Um iPKP	08 00 40.3 C
		h = 140 km (Ki,Um).				Ud iPKP	08 00 49.6
"	16	Up iP	23 16 11.2			De iPKP	08 00 55.3 C
		Um iP	23 15 49.6			Solomon Islands (h = 70 km).	
		Japan (h = 50 km).		"	17	Ud iPKP	08 36 07.5
"	17	Up iP	00 47 44.7			De iPKP	08 36 12.9
"	17	Up iPKP	01 55 40.9			Solomon Islands (h = 70 km).	
		Um iPKP	01 55 49.0	"	17	Ki iP	10 58 32.0
		South Sandwich Islands		"	17	Ud iP	13 19 00.5
		(h = N).		"	17	Up iP	13 42 40.2
"	17	Ki iP	02 58 55.9			Ud iP	13 42 54.8
		Sk iP	02 58 28.9			De iP	13 42 40.9
		Um iP	02 58 21.5			Iran (h = N).	
		Crete (h = 55 km).		"	17	Up iPKP1	14 00 03.0
"	17	Sk ePKP1	05 18 37			Ud iPKP1	14 00 05.2
		Um iPKP	05 18 38.6			De iPKP1	14 00 16.3
		De iPKP1	05 18 53.7			Tonga-Kermadec Islands	
		Tonga-Kermadec Islands				(h = 620 km).	
		(h = 440 km).		"	17	Ud iP	22 00 43.3
"	17	Up iP	05 47 24.4 C			Turkey (h = N).	
			micr sec	"	18	De iP	00 14 36.0
			Z' 0.1 0.8	"	18	Ud i(P)	03 47 13.5
			Mx E 10 18				
		(cont.)					

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

1975					1975					
Dec.	18	Ki	iP	06 24 25.8	Dec.	19	Ud	i	08 10 05.5	
		Um	iP	06 24 33.0			De	iP	08 09 48.7	
			i	06 24 35.8			Iran (h = 60 km).			
			ipP	06 24 43.7		"	19	Sk	eP	09 22 24
		Ud	iP	06 24 56.2				Ud	iP	09 21 52.9
		Philippine Islands.						De	iP	09 21 17.3
		h = 35 km (Um).					Greece (h = 45 km).			
"	18	Up	i	08 35 43.5	"	19	Ki	ipP	12 54 59.1	
		Ki	iP	08 35 33.7			Sk	ipP	12 55 00.1	
		Um	iP	08 35 29.0			Ud	iP	12 54 30.7	
		Ud	iP	08 35 50.6				ipP	12 54 42.6	
			i	08 35 54.7			De	iP	12 54 16.0	
		De	i	08 35 57.4			Iran.			
		Kashmir-Tibet (h = N).					h = 45 km (Ud).			
"	18	Ki	iP	08 46 47.4	"	19	Up	iSgl	13 35 24.9	
		Ud	iP	08 46 59.8			Ud	iSgl	13 34 26.0	
		Java (h = 80 km).					Regional event.			
"	18	Up	i	17 11 18.0			Probably west coast of			
			iRg	17 11 21.6			Norway.			
		Ud	iRg	17 11 06.8			By combination with Bergen			
		Central Sweden.					reading.			
		Near-surface event.			"	19	Up	iPKP	13 59 08.2	
"	18	Ud	iRg	17 12 48.0			Ki	epPKP	13 59 31	
		Central Sweden.					Um	iPKP	13 59 14.2	
		Near-surface event.						ipPKP	13 59 22.3	
"	18	Up	i	17 17 02.4			Ud	iPKP	13 59 07.4	
			iRg	17 17 03.8				ipPKP	13 59 14.4	
		Ud	iRg	17 16 48.0			South Sandwich Islands.			
		Central Sweden.					h = 25 km (Um,Ud).			
		Near-surface event.			"	19	Ud	iP	18 22 56.0	
"	18	Up	iPgl	17 17 14.5	"	19	Up	iP	23 17 34.2	
			i	17 17 30.9			Ki	iP	23 16 46.0	
			iRg	17 17 33.5			Um	iP	23 17 08.5	
		Ud	iSgl	17 17 12.8			Ud	iP	23 17 39.7	
			iRg	17 17 17.8				ipP	23 17 49.6	
		Central Sweden.					Kurile Islands.			
		Near-surface event.					h = 35 km (Ud).			
"	19	Ki	iP	02 33 16.2	"	20	Up	iP	05 09 32.1	
		Sk	iP	02 33 27.3			Ki	iP	05 09 21.1	
		Um	iP	02 33 22.7			Ud	iP	05 09 45.4	
		Ud	iP	02 33 31.6				iPcP	05 10 25.6	
		De	iP	02 33 37.8			De	iP	05 09 48.7	
		Santa Cruz Islands (h = N).					Burma-India (h = N).			
"	19	Ki	iP	04 08 30.2	"	20	Ud	iP	09 11 14.3	
		Ud	iP	04 08 56.0	"	20	Ud	iP	10 58 45.6	
		Leyte (h = N).					Philippine Islands			
							(h = 100 km).			

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

1975

Dec. 20 Up iSKP1 12 13 28.3
 Ud iSKP1 12 13 32.3
 De iSKP1 12 13 41.7
 New Hebrides Islands
 (h = 190 km).

" 20 Up iP 20 11 48.7 C
 micr sec
 P Z' 0.3 1.4
 Ki iP 20 11 14.6 C
 i 20 11 33.3
 micr sec
 P Z' 0.2 1.5
 Sk iP 20 11 22.3 C
 Um iP 20 11 34.1 C
 Ud iP 20 11 40.9 C
 De iP 20 11 57.2 C
 Nevada.
 m = 6.1 (Up,Ki).
 Underground explosion.

" 20 Up i 20 31 38.2
 ipP 20 31 58.9
 micr sec
 pP Z' 1.0 1.1
 Ki iP 20 31 03.6
 Um ipP 20 31 37.5
 Ud iP 20 31 39.7
 ipP 20 32 05.1
 De iP 20 31 52.7
 Volcano Islands.
 h = 100 km (Ud).

" 21 Up iP 01 16 02.1
 Ud iP 01 16 13.8
 Carlsberg Ridge (h = N).

" 21 Up iP 01 26 29.6
 Ud iP 01 26 41.2
 Carlsberg Ridge (h = N).

" 21 Up iPKP1 01 46 59.8
 Ud iPKP1 01 46 59.6

" 21 Um iP 02 23 17.9
 Ud iP 02 23 41.2

" 21 Ud iP 06 45 55.3

" 21 Ud iP 07 00 14.9

" 21 Up iP 11 03 48.5 D
 ipP 11 05 39.0
 iS 11 11 31.4
 micr sec
 P Z' 4.1 1.0
 pP Z' 3.1 1.6
 (cont.)

1975

Dec. 21 (cont.)
 Ki iP 11 02 58.1 D
 ipP 11 04 43.8
 iS 11 10 03
 micr sec
 P Z' 2.6 0.8
 pP Z' 3.3 2.0
 Sk iP 11 03 34.7 D
 ipP 11 05 25.5
 Um iP 11 03 21.6 D
 ipP 11 05 06.6
 Ud iP 11 03 53.2 D
 ipP 11 05 42.9
 De iP 11 04 13.0 D
 ipP 11 06 06.2
 Sea of Okhotsk.
 h = 560 km (Up,Ki,Sk,Um,Ud,
 De).
 m = 6.3 (Up,Ki).

" 21 Ki iP 12 55 15.3
 i 12 56 00.2
 i 12 58 08.4
 Ud iP 12 55 19.1
 i 12 56 26.7
 Iceland (h = N).

" 21 Up iP 14 34 27.5

" 21 Ki iP 15 43 37.8
 Sk iP 15 43 10.5
 Ud iP 15 42 38.9
 ipP 15 42 55.6

Eastern Mediterranean Sea.
 h = 70 km (Ud).

" 21 Up iP 16 12 42.2 C
 i 16 12 44.6
 iS 16 16 44

micr sec

P Z' 0.4 1.1

Mx E 6.9 11

Mx N 8.2 12

Ki iP 16 13 58.0

i 16 14 04.7

micr sec

P Z' 0.2 1.1

Sk iP 16 13 24.1

Um iP 16 13 21.7 C

Ud iP 16 12 50.1 C

i 16 12 54.1

iS 16 16 52.5

De iP 16 12 11.3 C

i 16 12 21.1

i 16 12 25.2

Greece (h = N).

m = 5.7 (Up,Ki).

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

1975				1975			
Dec.	21	Ud i	19 36 45.8	Dec.	23	(cont.)	
			Greece (h = 20 km).			Um iPKP1	12 29 21.1
						Ud iPKP1	12 29 34.0
"	21	Up iP	21 10 04.8			iPKP2	12 29 40.7
		Ud i	21 10 19.2				Kermadec Islands (h = 410 km).
			Greece (h = N).				Phases are about 12 sec late
							when compared with USNOS
"	21	Up iP	21 47 24.5				source parameter data.
		Ud iP	21 47 30.1	"	23	Ud iP	14 23 55.7
			Kurile Islands (h = N).				Tadzhik-Sinkiang (h = 190 km).
"	22	Ud iP	02 00 41.8	"	23	Up iP	18 46 01.2
"	22	Ud iP	02 44 02.9			Ud iP	18 46 09.9
			Mindanao (h = 70 km).				Philippine Islands (h = 90 km).
"	22	Ki iPgl	02 53 52.5	"	24	Up iPKP	05 43 32.7
		iSgl	02 54 20.1			Ki iPKP	05 43 48.7
		Um iSgl	02 56 17.6			Um iPKP	05 43 41.3
			Coast of north Norway,			Ud iPKP	05 43 32.2
			69.4°N, 16.7°E.				South Sandwich Islands
			Origin time = 02 53 16.				(h = 110 km).
			m = 4.5, M _L = 3.2 (Ki,Um).	"	24	Up iPKP	05 44 28.9
			Felt.			Ki iPKP	05 44 43.9
			By combination with Tromsøe			Um iPKP	05 44 36.8
			and Finnish station readings.			Ud iPKP	05 44 28.0
"	22	Up iPKP	07 01 12.5				South Sandwich Islands.
		Ud iPKP	07 01 11.8	"	24	Ki iP	09 37 18.0
			South Sandwich Islands			iS	09 39 53.4
			(h = 100 km).			i	09 40 08.0
"	22	Ud iP	10 30 37.0				micr sec
"	22	Up iP	14 54 08.9			P	Z' 0.1 1.4
"	23	Ud iPKP1	01 00 14.1			i	Z' 0.2 1.5
		De iPKP1	01 00 25.1 C			Sk iP	09 37 07.9
			Fiji Islands (h = 620 km).			i	09 39 41.8
"	23	Ud iP	06 44 27.5			Um iP	09 37 38.7
"	23	Ud iP	10 47 20.1			i	09 41 01.5
"	23	Ud iP	10 47 20.1			Ud iP	09 37 32.9
"	23	Ud iP	10 47 20.1			i	09 40 06.5
"	23	Ud iP	10 47 20.1			i	09 40 44.9
"	23	Ud iP	10 47 20.1				Iceland, near 68°N, 17°W.
"	23	Ud iP	10 47 20.1				Origin time = 09 34 00.
"	23	Up i	11 44 09.3	"	24	Ud i(P)	11 29 39.7
		iRg	11 44 12.9	"	24	Up iP	11 56 44.2 C
		Ud iSgl	11 44 29.0				micr sec
			East-central Sweden.			P	Z' 0.2 0.8
			Near-surface event.			Mx	E 3.5 20
"	23	Up iPKP	12 29 30.7			Mx	N 4.1 25
		iPKP1	12 29 34.0			Mx	Z 3.8 25
		iPKP2	12 29 37.9				Ki iP
			micr sec				11 57 18.3 C
		PKP1	Z' 0.1 1.2				(cont.)
			(cont.)				

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

1975				1975						
Dec.	24	(cont.)		Dec.	24	Up	iP	18 48 20.3		
		Ki				Ki	iP	18 48 55.5		
			micr sec			Um	iP	18 48 34.0		
		P	Z' 0.1 0.9			Ud	iP	18 48 35.7		
		Mx	E 2.5 12			Iran (h = N).				
		Mx	N 2.0 9		"	24	Up	iP	18 59 02.1	
		Mx	Z 3.3 11					micr sec		
		Sk	iP	11 57 17.9 C			P	Z' 0.1 1.0		
		Um	iP	11 56 56.2 C			Ki	iP	18 58 15.6	
			iS	12 03 28				micr sec		
		Ud	iP	11 56 59.3 C			P	Z' 0.1 1.0		
		De	iP	11 56 43.8 C			Sk	eP	18 58 52	
		Iran (h = N).					Um	iP	18 58 36.6	
		m = 5.7, M = 5.5 (Up,Ki).					Ud	iP	18 59 08.4	
"	24	Up	iP	12 02 05.7			De	iP	18 59 26.5	
		Ki	iP	12 02 42.8			Kurile Islands (h = 45 km).			
		Sk	eP	12 02 44			m = 5.7 (Up,Ki).			
		Ud	iP	12 02 21.9		"	24	Up	iP	19 00 32.0
		De	eP	12 02 09				Um	iP	19 00 06.2
		Iran.						Ud	iP	19 00 37.3
"	24	Ud	iP	13 15 46.2		"	24	Ki	eP	19 26 53
"	24	Up		micr sec				Ud	iP	19 27 44.1
			Mx	E 2.3 20		"	24	Up	iP	20 02 57.9
			Mx	N 3.6 22				i		20 03 00.2
			Mx	Z 4.2 25					micr sec	
		Ki		micr sec				P	Z' 0.1 1.0	
			Mx	N 2.9 17				i	Z' 0.1 0.8	
		Um	i	15 16 29.6			Ki	iP	20 03 33.3	
			i	15 16 46.1				i	20 05 21.2	
		Ud	iPKP	15 16 31.9			Sk	iP	20 03 33.0	
		De	i	15 16 46.4			Um	iP	20 03 10.0	
		Solomon Islands (h = N).					Ud	iP	20 03 13.1	
		M = 6.2 (Up,Ki).						i	20 03 15.3	
"	24	Up	iP	17 09 52.6				iPP	20 05 00.5	
			i	17 10 01.3			De	iP	20 02 58.1	
				micr sec			Iran (h = N).			
		P	Z' 0.1 1.3		"	24	Ud	iP	20 58 44.6	
		Um	iP	17 10 30.6			Iran (h = 40 km).			
		Ud	iP	17 09 59.5		"	24	Ud	iP	21 03 54.4
			i	17 10 06.7		"	24	Up	iP	21 12 00.6
		De	iP	17 09 23.6				Ki	i	21 12 37.0
			i	17 09 26.5				Um	iP	21 12 12.7
		Greece (h = 110 km).						Ud	iP	21 12 15.1
"	24	Ki	iP	17 44 28.5				i	21 12 37.9	
			iS	17 47 05.2			De	i	21 12 04.0	
			i	17 47 17.4			Iran (h = N).			
		Um	iP	17 44 49.1						
		Ud	iP	17 44 42.4						
		Iceland, near 68°N, 17°W.								
		Origin time = 17 41 09.								

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

1975

Dec. 24 Ki iP 23 42 43.5
Um iP 23 43 09.8
Ud iP 23 43 35.3
Aleutian Islands (h = N).

" 25 Ud iP 02 06 05.9

" 25 Ud iP 02 10 01.9
Japan (h = 400 km).

" 25 Ki iP 05 21 42.0

" 25 Up iP 05 23 54.4 C
iPP 05 25 12.4
micr sec
P Z' 0.7 0.8
Ki iP 05 23 37.6 C
micr sec
P Z' 0.6 0.7
Sk iP 05 24 09.3 C
iPP 05 25 31.9
Um iP 05 23 38.4 C
Ud iP 05 24 10.6 C
De iP 05 24 18.0 C

Eastern Kazakh SSR.

m = 6.6 (Up,Ki).

Underground explosion.

" 25 Ki iP 05 47 46.8
iS 05 50 20.4
i 05 50 32.0
Iceland (h = 10 km).

" 25 Ud iP 09 50 18.6
Greece (h = 25 km).

" 25 Up iP 15 47 29.2
micr sec
P Z' 0.1 0.8
Ki iP 15 46 42.2
micr sec
P Z' 0.1 1.1
Um iP 15 47 03.5
Ud iP 15 47 34.7
De iP 15 47 53.3
Kurile Islands (h = 50 km).
m = 5.8 (Up,Ki).

" 25 Up iP 15 57 07.8
Ki iP 15 56 48.4
Um iP 15 56 56.1
Ud iP 15 57 18.0
De iP 15 57 25.8
Luzon (h = 55 km).

1975

Dec. 25 Up iP 16 11 13.7
micr sec
P Z' 0.1 1.0
Ki iP 16 10 26.8
micr sec

P Z' 0.1 0.9

Sk iP 16 11 02.2

Um iP 16 10 48.4

Ud iP 16 11 19.5

De iP 16 11 37.8

Kurile Islands (h = 45 km).
m = 5.8 (Up,Ki).

" 25 Ud iP 17 17 33.4

" 25 Up iP 17 50 46.0

Ud iP 17 50 48.5

De iP 17 50 58.5

Tonga- Kermadec Islands
(h = 540 km).

" 25 Up iP 20 10 19.5

Ki iP 20 09 25.8

Ud iP 20 10 17.6

Unimak Island (h = N).

" 25 Up iP 21 49 22.2

iPP 21 49 33.7

micr sec

P Z' 0.1 1.0

Ki iP 21 48 38.0

micr sec

P Z' 0.1 1.0

Um iP 21 49 08.4

Ud iP 21 49 28.3

iPP 21 49 38.4

Japan.

h = 35 km (Up,Ud).

m = 5.9 (Up,Ki).

" 25 Up iP 22 08 26.3

i 22 08 29.0

i 22 10 30.1

iS 22 11 26.6

micr sec

P Z' 0.4 1.4

Mx E 1.3 22

Mx Z 4.0 28

Ki iP 22 07 57.0

i 22 07 59.1

iS 22 10 31.1

micr sec

P Z' 1.4 1.4

Mx E 9.9 11

Mx N 8.2 11

Mx Z 6.9 12

(cont.)

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

1975

Dec. 25 (cont.)

Sk	iP	22 07 30.5
	i	22 07 32.5
	iS	22 09 43.7
Um	iP	22 08 12.6
	i	22 08 16.6
	i	22 08 19.6
	iS	22 10 55.9
Ud	iP	22 08 02.5
	i	22 08 06.4
	i	22 08 13.4
	iS	22 10 42.9
De	iP	22 08 37.1

Iceland, near 67°N, 16°W.
Origin time = 22 04 39.
m = 5.9, M = 4.7 (Up,Ki).

" 25 Up iP 23 36 40.2
ipP 23 37 13.9
i(PKP) 23 40 30.6
iPKP 23 40 41.7
iPP 23 41 19.7
i 23 41 46.9
iPKKP 23 51 42.3

micr sec

P	Z'	0.1	1.0
PP	Z'	3.7	2.2
Mx	E	23	20
Mx	N	27	23
Mx	Z	34	20

Ki iP 23 36 17.2
ipP 23 36 48.6
i 23 40 01.1
i 23 40 10.4
i 23 40 29.0
iPP 23 40 46.3
i 23 41 16.9

micr sec

P	Z'	0.3	1.5
PP	Z'	0.7	1.9
i	Z'	1.2	2.2
Mx	E	13	17
Mx	N	15	15
Mx	Z	19	18

Sk iPKP 23 40 42.8
iPP 23 41 17.4
Um iP 23 36 28.2
i(PKP) 23 40 32.3
iPKP 23 40 36.7
iPP 23 41 00.4
i 23 41 25.1
Ud iP 23 36 47.1
ipP 23 37 19.8
i 23 40 11.4

(cont.)

1975

Dec. 25 (cont.)

Ud	iPKP	23 40 44.6
	i	23 41 20.9
	iPP	23 41 30.8
	i	23 42 09.9
	iPKKP	23 51 38.6
	i	23 52 11.4
De	iP	23 36 57.1
	iPKKP	23 40 48.7
	iPP	23 41 41.0
	i	23 42 13.7

New Guinea.
h = 130 km (Up,Ki,Ud).
M = 6.8 (Up,Ki).
Double PKKP recorded at Ud.

" 26 Ud iP 00 28 24.4

" 26 Ki iP 00 53 52.8 D
i 00 54 03.1
iS 00 56 27.5
i 00 56 40.4

micr sec

P	Z'	0.2	1.4
i	Z'	0.2	1.4

Sk iP 00 53 34.7
Um iP 00 54 14.3
i 00 54 27.7
Ud iP 00 54 06.7

Iceland, near 67°N, 17°W.
Origin time = 00 50 35.

" 26 Ud iP 01 15 45.1
Iran (h = 30 km).

" 26 Ud iP 01 24 29.0

" 26 Up iP 05 54 30.2
Ki iP 05 55 04.2
Ud iP 05 54 45.7
Iran (h = N).

" 26 Ud iP 07 28 12.6

" 26 Ki iP 09 27 46.2
iS 09 30 21.9

Iceland.
Origin time = 09 24 28.

" 26 Up iP 10 49 27.6
ipP 10 49 40.4

micr sec

P	Z'	0.1	1.1
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Ki iP 10 48 42.3

(cont.)

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

1975				1975			
Dec. 26	(cont.)			Dec. 26	Up · iP	16 51 54.9	
	Ud	iP	10 49 33.6			micr sec	
		i	10 49 38.2		P	Z' 0.1	1.4
		iPP	10 49 46.3				
	Kurile Islands.			" 26	Ki	eP	17 00 02
	h = 45 km (Up,Ud).					i	17 00 10.8
" 26	Up	i(PKP)	16 15 45.0			iS	17 02 37.0
		i(PKP)	16 15 52.4			i	17 02 51.9
		iPKP	16 15 58.4		Sk	eS	17 02 01
		i(PP)	16 18 33.9		Um	iP	17 00 20.7
		i	16 28 10.5		Ud	eS	17 03 02
			micr sec		Iceland, near 68°N, 17°W.		
		(PKP)	Z' 0.1 1.0		Origin time = 16 56 44.		
		(PKP)	Z' 0.2 1.2	" 26	Ud	i(PKP)	18 31 24.1
		(PP)	Z' 1.2 1.7		Samoa Islands (h = N).		
		i	Z' 0.3 1.5	" 26	Ki	iP	20 35 25.2
		Mx	E 56 19			i	20 35 33.7
		Mx	N 98 19			iS	20 37 58.6
		Mx	Z 137 20		Sk	iS	20 37 04.5
	Ki	i(PKP)	16 15 37.3		Um	iP	20 35 45.4
		iPKP	16 15 43.3		Ud	iS	20 38 21.6
		i(PP)	16 17 49.5		Iceland, near 68°N, 17°W.		
		i	16 18 43.4		Origin time = 20 32 08.		
		i	16 28 30.0	" 26	Up	iP	19 06 38.0
		i	16 28 51.2		Ud	iP	19 06 44.3
			micr sec	" 26	Up	iPKP1	22 07 38.1
		PKP	Z' 0.8 1.5			PKP1	Z' 0.1 0.9
		(PP)	Z' 3.2 3.0		Ud	iPKP1	22 07 40.5
		i	Z' 0.3 1.8	" 27	Ud	iP	00 19 58.0
		i	Z' 1.1 2.5		Iran (h = N).		
		Mx	E 60 19	" 27	Um	iP	03 28 16.2
		Mx	N 83 18		Japan (h = 40 km).		
		Mx	Z 140 20	" 27	Up	iP	04 35 36.3
	Sk	i(PKP)	16 15 43.8		Ud	iP	04 35 34.6
		iPKP	16 15 53.2		Italy (h = 35 km).		
		iPP	16 18 23.6		Arrivals are about 7 sec late		
		i	16 28 23.7		when compared with USNOS		
	Um	i(PKP)	16 15 43.0		source parameter data.		
		iPKP	16 15 51.3	" 27	Up	iP	05 36 34.7
		iPP	16 18 18.7			i	05 36 45.7
		i	16 18 30.4		Ki	iP	05 35 49.3
		i	16 27 58.9		Sk	iP	05 36 25.6
		i	16 28 20.9		Um	iP	05 36 09.7
	Ud	i(PKP)	16 15 45.8			i	05 36 17.0
		i(PKP)	16 15 51.8		Ud	iP	05 36 40.0
		iPKP	16 15 59.3		Kurile Islands (h = 40 km).		
		iPP	16 18 43.1				
		i	16 28 10.3				
	De	i(PKP)	16 15 58.4				
		iPKP	16 16 07.3				
		iPP	16 19 04.8				
	Samoa Islands (h = N).						
	M = 7.6 (Up,Ki).						

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

1975						1975				
Dec.	27	Up	iP	05 55 09.0		Dec.	27	Up	iP	17 14 49.6
		Um	iP	05 55 06.5					ipP	17 14 58.9
		Ud	iP	05 55 26.0				Ki	iP	17 14 04.5
		Afghanistan-USSR (h = 240 km).						Um	iP	17 14 24.8
"	27	Up	iP	07 52 58.6				Ud	iP	17 14 55.5
			ipP	07 53 10.6					ipP	17 15 04.8
				micr sec				Kurile Islands.		
		P	Z'	0.1 1.0				h = 30 km (Up,Ud).		
		pP	Z'	0.2 1.0		"	27	Ud	iP	20 54 37.2
		Mx	E	2.5 25					i	20 54 45.3
		Mx	N	5.1 19				Japan (h = 60 km).		
		Ki	iP	07 52 13.5		"	27	Up	iPKP1	21 39 44.4
			ipP	07 52 25.0				Sk	iPKP1	21 39 36.9
				micr sec				Ud	iPKP1	21 39 46.7
		P	Z'	0.2 1.2				De	iPKP1	21 39 55.9
		Mx	E	9.0 17		"	27	Ud	iPKP	23 52 19.5
		Mx	N	8.4 17				Samoa Islands (h = N).		
		Mx	Z	9.8 16		"	27	Ud	i	23 54 04.2
		Sk	i	07 52 51.6				Samoa Islands (h = N).		
		Um	iP	07 52 34.6		"	28	Up	iP	13 58 22.9
			ipP	07 52 45.8				Ud	iP	13 58 38.3
		Ud	iP	07 53 04.9				De	iP	13 58 39.2
			ipP	07 53 16.7				Tibet (h = 35 km).		
		De	iP	07 53 23.0		"	28	Up	iP	13 58 22.9
		Kurile Islands.						Ud	iP	13 58 38.3
		h = 40 km (Up,Ki,Um,Ud).						De	iP	13 58 39.2
		m = 6.1, M = 5.9 (Up,Ki).				"	28	Ki	iP	15 16 38.9
"	27	Ud	iPKP1	09 23 19.3 C		"	28	Ud	iP	15 17 31.3
		De	iPKP1	09 23 29.0				Aleutian Islands (h = 30 km).		
		Tonga-Kermadec Islands				"	28	Ud	iP	15 31 46.6
		(h = 480 km).						Aleutian Islands (h = 40 km).		
"	27	Up	iP	09 42 54.9 D		"	28	Up	iP	15 38 17.0
			ipP	09 43 26.6					i(PP)	15 41 03.1
				micr sec					i(PP)	15 42 09.2
		P	Z'	0.1 0.8					iPP	15 42 27.0
		Ki	iP	09 43 05.1					micr sec	
		Sk	iP	09 43 21.2				P	Z'	0.2 1.0
		Ud	iP	09 43 11.8 D				PP	Z'	0.5 1.6
			ipP	09 43 43.4				Ki	iP	15 38 09.2
		De	iP	09 43 07.4 D					i(PP)	15 42 00.4
		Hindu Kush.							micr sec	
		h = 150 km (Up,Ud).						P	Z'	0.2 1.1
"	27	Up	iP	11 15 18.5				Sk	iP	15 38 27.2
		Ud	iP	11 15 24.9				Um	iP	15 38 10.7
"	27	Up	iP	13 01 49.8					ipP	15 42 18.0
		Ud	iP	13 01 56.6				Ud	iP	15 38 25.7
			i	13 02 06.3					i(PP)	15 41 39.6
		Japan (h = 70 km).							i(PP)	15 42 30.1
"	27	Ud	iPKP1	16 43 13.4				De	iP	15 38 27.4
		De	iPKP1	16 43 23.3					i(PP)	15 41 37.1

(cont.)

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

1975

Dec. 28 (cont.)
De iPP 15 42 41.7
Bali (h = 200 km).
m = 6.5 (Up,Ki).

" 28 Up iP 16 40 59.9
Ud iP 16 41 07.8
Japan (h = 55 km).

" 29 Up iP 01 30 19.7
micr sec
P Z' 0.1 1.1
Ki iP 01 30 12.9
Sk iP 01 30 36.9
i 01 30 41.1
Um iP 01 30 11.6
Ud iP 01 30 33.0
Burma (h = 60 km).

" 29 Up iPKP1 02 54 17.0
Ud iPKP1 02 54 19.5
De iPKP1 02 54 29.9
Tonga-Kermadec Islands
(h = 410 km).

" 29 ✓ Up iPKP 03 59 00.5
micr sec
PKP Z' 0.1 1.0
Mx E 14 18
Mx N 12 19
Mx Z 31 19
Ki iPKP1 03 59 05.3
micr sec
PKP1 Z' 0.2 1.2
Mx E 9.0 21
Mx N 13 18
Mx Z 12 22
Um iPKP 03 59 06.5
Ud i(PKP) 03 58 45.4
iPKP 03 58 58.0
De iPKP 03 58 55.1
Drake Passage (h = 15 km).
M = 6.8 (Up,Ki).

" 29 ✓ Up iP 05 18 16.1
i 05 18 21.7
micr sec
P Z' 0.1 0.9
i Z' 0.5 1.0
Ki iP 05 18 05.9
micr sec
P Z' 0.3 1.5
Sk iP 05 18 30.3
i 05 18 35.6
Um iP 05 18 06.6
i 05 18 11.9
(cont.)

1975

Dec. 29 (cont.)
Ud iP 05 18 29.0
i 05 18 34.2
De iP 05 18 33.8
i 05 18 37.6
Burma (h = 50 km).
m = 6.4 (Up,Ki).

" 29 Um iP 06 36 24.9

" 29 Ud iPKP 09 49 17.6
Drake Passage (h = 40 km).

" 29 Ki iP 10 48 35.6
iS 10 51 09.6
i 10 51 23.0
micr sec
P Z' 0.1 1.0
Sk eP 10 48 14
Um iP 10 48 58.0
i 10 49 13.9
Ud iP 10 48 46.8
iS 10 51 23.4
De iP 10 49 16.0
Iceland, near 67°N, 17°W.
Origin time = 10 45 18.

" 29 Ud iPKP 16 48 11.2
De iPKP 16 48 15.7
New Ireland (h = 100 km).

" 30 Up iP 01 17 24.2
Ki iP 01 18 00.5
Ud iP 01 17 39.4
De iP 01 17 26.3
Iran (h = 30 km).

" 30 Up iP 01 48 47.0
Ud iP 01 48 57.0

" 30 Um iP 04 20 59.6
Sea of Japan (h = 450 km).

" 30 Ki iP 06 55 04.3
micr sec
P Z' 0.1 1.2
Samar (h = 110 km).

" 30 Ud iP 07 05 26.0
Hindu Kush (h = 220 km).

" 30 Up iP 09 08 30.1
Ki iP 09 08 27.0
Sk iP 09 08 45.6
Um iP 09 08 23.4
Ud iP 09 08 41.4
Burma (h = N).

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

1975				1975					
Dec.	30	Ki	iP	14 42 27.1	Dec.	31	(cont.)		
		Ud	i	14 42 21.6			Um	iP	14 23 10.9
		Turkey (h = 5 km).					Ud	iP	14 23 42.3
								iPcP	14 24 04.2
"	30	Up	iP	16 44 24.4			De	eP	14 24 00
		Afghanistan-USSR (h = 100 km).					Japan.		
							h = 80 km (Up).		
"	31	Up	iP	09 50 34.8			m = 5.9 (Up,Ki).		
			ipP	09 50 39.6	"	31	Up	iP	14 58 28.0
				micr sec			Ki	iP	14 59 45.4
		P	Z'	0.1 0.7			Ud	iP	14 58 36.6
		pP	Z'	1.1 1.5				i	14 58 39.1
		Mx	E	41 22			De	i	14 58 03.6
		Mx	N	22 18			Greece (h = 40 km).		
		Ki	iP	09 51 49.7	"	31	Ud	iP	15 19 37.3
			ipP	09 51 54.3			Greece (h = N).		
				micr sec	"	31	Ud	iP	17 12 14.4
		P	Z'	0.1 1.0			Greece (h = 45 km).		
		pP	Z'	0.6 1.4	"	31	Ud	iP	17 41 47.5
		Mx	E	35 16			Greece (h = 40 km).		
		Mx	N	14 10	"	31	Up	iP	22 59 32.9
		Mx	Z	17 12			Ud	iP	22 59 43.0
		Sk	iP	09 51 16.4			Greece (h = 45 km).		
		Um	iP	09 51 12.9					
			ipP	09 51 18.0					
		Ud	iP	09 50 42.8					
		De	ipP	09 50 09.7					
		Greece.							
		h = 20 km (Up,Ki,Um).							
		m = 6.1, M = 6.1 (Up,Ki).							
"	31	Ud	i	11 36 28.9					
		Greece (h = 40 km).							
"	31	Up	iP	13 56 07.4					
			i	13 56 17.6					
				micr sec					
			i	Z' 0.1 0.9					
		Ki	iP	13 57 23.5					
		Um	iP	13 56 47.9					
		Ud	iP	13 56 15.9					
			i	13 56 22.8					
		Greece (h = 25 km).							
"	31	Ud	iP	14 16 05.2					
		Andaman Islands (h = 70 km).							
"	31	Up	iP	14 23 35.4					
			ipP	14 23 55.4					
				micr sec					
		P	Z'	0.1 1.0					
		pP	Z'	0.2 1.4					
		Ki	iP	14 22 52.9					
				micr sec					
		P	Z'	0.1 1.0					
		(cont.)							

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