SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

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

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

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

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

J A N U A R Y 1 - 31, 1974

1974 Jan.	1	Up	iP		08 09 14.1	
		Ki	iP		08 08 45.2	C
		Sk	iP		08 09 11.2	
		Um	iP		08 08 57.4	C
		Ud	iP		08 09 20.1	C
		De	iP		08 09 31.4	
		Mariana Islands (h = 330 km).				
"	1	Ki	iSKP1		09 50 42.8	
					micr	sec
			SKP1	Z'	0.1	1.2
		Um	iSKP1		09 50 54.7	
		Ud	ePKP1		09 47 45	
		De	iPKP1		09 47 55.4	
		Fiji Islands (h = 190 km).				
"	1	Ki	iP		10 34 36.2	
		Ud	iP		10 34 49.6	
		Kashmir-Sinkiang (h = N).				
"	1	Up	iPKP1		13 01 44.8	C
					micr	sec
			PKP1	Z'	0.1	0.9
		Ki	iPKP		13 01 35.1	
		Um	i(PKP)		13 01 32.6	
			iPKP		13 01 42.9	
			iSKP1		13 04 26.5	
		Ud	iPKP1		13 01 46.4	
			iSKP1		13 04 38.4	
		De	ePKP		13 01 56	
			iPKP1		13 01 57.5	
		Tonga-Kermadec Islands (h = 500 km).				
"	1	Up	iP		14 03 29.7	C
		Ki	iP		14 03 24.9	
		Um	iP		14 03 23.1	C
		Ud	iP		14 03 42.5	C
"	1	Up	iP		14 19 43.5	
		(cont.)				
1974 Jan.	1	(cont.)				
		Up	iX		14 20 09.3	
					micr	sec
			X	Z'	0.1	1.0
		Ki	iP		14 19 45.5	
			iX		14 20 10.6	
					micr	sec
			P	Z'	0.2	1.8
		Sk	eX		14 20 25	
		Um	iP		14 19 41.1	
			iX		14 20 06.3	
		Ud	iP		14 19 54.8	
			iX		14 20 20.4	
		De	iP		14 19 52.8	
		Sumatra (h = 60 km).				
		If the phase X is interpreted as pP, the focal depth is 100 km.				
"	1	Up	iP		14 25 37.7	
		Ki	eP		14 25 39	
		Um	iP		14 25 34.4	
		Ud	iP		14 25 48.2	
		Sumatra (h = N).				
"	1	Up	eP		15 13 28	
		Um	iP		15 13 05.4	
		Ud	eP		15 13 32	
		South of Japan (h = 10 km).				
"	1	Up	iP		18 16 40.1	
		Ki	iP		18 16 11.7	C
					micr	sec
			P	Z'	0.1	0.9
		Sk	iP		18 16 37.7	C
		Um	iP		18 16 23.8	C
		Ud	iP		18 16 46.6	C
		Mariana Islands (h = 320 km).				
"	2	Um	iP		00 17 43.0	
		Ud	iP		00 18 08.1	
		De	iP		00 18 31.5	

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

1974 Jan.	2	Up	ePKP		00 20 43		
		Ki	iPKP		00 20 28.4		
		Sk	iPKP		00 20 40.0		
		Um	iPKP		00 20 34.5		
		Ud	iPKP		00 20 44.2		
			iSKP1		00 23 55.3		
		De	iPKP		00 20 51.4		
		New Hebrides Islands (h = 180 km).					
"	2	Ud	iPKP1		05 56 36.3		
		De	ePKP1		05 56 49		
"	2	Um	iP		05 59 19.4		
		Mariana Islands (h = 50 km).					
"	2	Um	i(Sgl)		10 52 16.3		
"	2	Up	iP		10 56 39.0		
			i(PP)		11 00 25.0		
			iPP		11 01 01.7		
			iSKS		11 07 04		
			iS		11 08 28		
			iPKKP2		11 12 18.0		
			iP'P'		11 20 27.7		
					micr	sec	
			P	Z'	0.2	1.5	
			PP	Z'	6.4	2.4	
			Mx	E	52	23	
			Mx	N	21	20	
			Mx	Z	97	24	
		Ki	e(PP)		11 00 36		
			iPP		11 01 26.1		
			iSKS		11 07 19		
			iS		11 08 56		
			iSP		11 10 39		
			iPKKP1		11 11 54.2		
			iPKKP2		11 12 03.7		
			iSS		11 16 41		
					micr	sec	
			PP	Z'	3.5	2.5	
			Mx	E	53	21	
			Mx	N	23	19	
			Mx	Z	51	20	
		Sk	iP		10 56 32.6		
			i(PP)		10 59 40.5		
			iPP		11 00 53.6		
			iPKKP1		11 12 07.5		
			iPKKP2		11 12 24.4		
			iP'P'		11 20 31.4		
		Um	iP		10 56 47.4		
			iPP		11 01 17.4		
			iSKS		11 07 13		
			iPKKP1		11 11 56.0		
			iPKKP2		11 12 07.4		
			iP'P'		11 20 22.5		
		(cont.)					

1974 Jan.	2	(cont.)					
		Ud	iP		10 56 28.2		
			iPP		11 00 49.0		
			iPKKP2		11 12 25.8		
		De	iP		10 56 25.9		
			iPP		11 00 39.8		
			iPKKP1		11 12 12.4		
			iPKKP2		11 12 31.3		
			iP'P'		11 20 30.8		
		Chile (h = 110 km).					
		n = 7.3, M = 7.2 (Up,Ki).					
		M uncorrected for focal depth.					
"	2	Up	iSgl		12 29 23.0		
		Ki	iSgl		12 31 20.3		
		Sk	iSgl		12 31 05.7		
		Um	iSgl		12 29 39.2		
		Ud	iSgl		12 30 22.6		
		De	iSgl		12 30 49.0		
		Western USSR.					
		Explosion.					
"	2	Up	iPP		13 52 20.9		
					micr	sec	
			PP	Z'	0.1	1.4	
		Ud	iPP		13 52 09.5		
		De	iPP		13 52 01.0		
		Chile (h = 100 km).					
"	2	Up	iP		14 53 11.4	D	
			ipP		14 54 01.5		
					micr	sec	
			P	Z'	0.6	0.8	
		Ki	iP		14 52 45.0	D	
			ipP		14 53 36.0		
					micr	sec	
			P	Z'	0.9	1.3	
		Sk	iP		14 53 13.3		
		Um	iP		14 52 54.7	D	
		Ud	iP		14 53 20.7	D	
			ipP		14 54 11.1		
		De	iP		14 53 30.4	D	
			ipP		14 54 21.3		
		Formosa.					
		h = 210 km (Up,Ki,Ud,De).					
		m = 6.4 (Up,Ki).					
"	2	Um	iP		22 14 26.9		
"	3	Ud	iPP		03 53 44.7		
		Chile (h = 100 km).					
"	3	Up	iP		04 05 29.7		
		Ki	iP		04 05 00.7		
		Sk	eP		04 05 26		
		(cont.)					

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

1974
Jan. 3 (cont.)

	Um	iP	04 05 13.3
	Ud	iP	04 05 36.4
	De	iP	04 05 47.3

Mariana Islands (h = 140 km).

" 3

	Up	iP	07 44 29.3
	Um	eP	07 45 01
	Ud	iP	07 44 37.7
	De	iP	07 44 02.0

Turkey (h = N).

" 3

	Up	iPKP	11 34 34.7
	Ki	ePKP	11 34 24
	Um	iPKP	11 34 26.9
	Ud	iPKP	11 34 36.5
	De	iPKP	11 34 45.4

New Hebrides Islands
(h = 10 km).

" 3

	Ud	iPKPl	12 29 14.0

" 3

	Um	ePKP	15 00 28
	Ud	iPKP	15 00 33.4

New Hebrides Islands
(h = 25 km).

" 3

	Up	iSgl		15 54 36.2
	Ki	i		15 52 05.9
		iSgl		15 52 31.5
				micr sec
		Sgl	Z'	0.1 0.5
	Sk	iS*		15 52 34.7
		iSgl		15 52 37.9
	Um	iPgl		15 52 11.1
		iSn		15 52 45.1
		iSgl		15 52 58.3
	Ud	iSgl		15 54 24.7

Nordland, Norway,
66.4°N, 14.6°E.
Origin time = 15 51 09.
Explosion.

" 4

	Ud	iSKPl	00 51 33.9

New Hebrides Islands
(h = 15 km).

" 4

	Ud	iP	01 27 35.5

Greece.

" 4

	Up	iP		09 35 39.9
		ipP		09 35 48.1
				micr sec
		pP	Z'	0.1 0.9
	Ki	iP		09 35 36.4 C
				micr sec
		P	Z'	0.1 0.8

(cont.)

1974
Jan. 4 (cont.)

	Sk	iP	09 36 00.7 C
	Um	eP	09 35 32
		ipP	09 35 40.3
	Ud	iP	09 35 56.0 C
		ipP	09 36 04.3
		iPP	09 37 44.3
	De	iP	09 35 57.4
		iPP	09 37 44.0

Kirghiz-Sinkiang.
h = 30 km (Up,Um,Ud).
m = 5.6 (Up,Ki).

" 4

	Up	iSgl	11 46 51.5
	Ki	iSn	11 43 43.8
		iSgl	11 44 08.8
	Sk	iSgl	11 46 32.0
	Um	iSn	11 44 20.4
		i	11 44 36.7
		iSgl	11 44 55.7
	Ud	iSgl	11 47 30.6

Northwest USSR.
Explosion.

" 4

	Um	iSgl	12 14 57.0
	Ud	eSgl	12 15 42

Western USSR.
Explosion.

" 4

	Sk	iP	12 35 33.9

Turkey.

" 4

	Ki	iPgl	12 58 19.6
		iSn	12 58 57.5
		iSgl	12 59 11.7
	Um	iSgl	13 00 46.7

Northwest USSR-Norway.
Explosion.

" 4

	Ki	eP	18 07 31

Mexico (h = 50 km).

" 4

	Um	iPKP	19 00 57.7
	Ud	iPKP	19 01 08.9

New Hebrides Islands
(h = 20 km).

" 4

	Um	i(P)	21 30 47.0

" 4

	Ud	iPKPl	22 41 11.1
	De	iPKPl	22 41 22.0

" 5

	Up	iP	04 31 34.2
	Um	iP	04 32 15.6
	Ud	eP	04 31 51

(cont.)

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

1974 Jan.	5	(cont.)				
		De	eP		04 31 10	
		Rumania (h = 90 km).				
"	5	Ud	iP		05 30 38.9	
"	5	Um	iP		07 38 16.3	
		Italy (h = N).				
"	5	Up	iP		08 47 37.3	
			ipP		08 48 02.5	
			i(PP)		08 51 28.6	
			iPP		08 51 46.7	
					micr	sec
			P	Z'	0.2	1.5
			pP	Z'	0.7	2.0
			Mx	E	6.3	42
			Mx	N	5.4	35
			Mx	Z	13	45
		Ki	iP		08 47 43.3	
			iPP		08 52 00.2	
					micr	sec
			PP	Z'	0.3	2.0
			Mx	E	3.8	24
			Mx	N	3.1	26
		Sk	iP		08 47 27.4	
			iPP		08 51 26.2	
		Um	iP		08 47 43.3	
			i(PP)		08 51 12.7	
			iPP		08 52 01.6	
		Ud	iP		08 47 28.5	
			ipP		08 47 55.1	
			iPP		08 51 33.8	
		De	iP		08 47 27.4	
			ipP		08 47 54.5	
			iPP		08 51 25.2	
		Peru.				
		h = 100 km (Up,Ud,De).				
		m = 6.7, M = 6.0 (Up,Ki).				
"	5	Ki	iSn		11 22 49.8	
			iSgl		11 23 10.3	
		Northwest USSR.				
		Explosion.				
"	5	Um	iSgl		12 13 55.2	
		Western USSR.				
		Explosion.				
"	5	Ki	iPn		12 21 11.2	
			iSn		12 22 00.0	
			iSgl		12 22 15.9	
		Um	eSgl		12 23 45	
		Northwest USSR-Norway.				
		Explosion.				

1974 Jan.	5	Up	iP		14 11 53.0	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		14 11 00.1	
					micr	sec
			P	Z'	0.1	0.8
		Sk	iP		14 11 30.2	
		Um	iP		14 11 26.5	
		Ud	iP		14 11 52.6	
		De	iP		14 12 15.2	
		Aleutian Islands				
		(h = 40 km).				
		m = 6.0 (Up,Ki).				
"	5	Ud	iP		15 35 32.1	
		Off coast of Oregon (h = N).				
"	5	Up	eP		15 49 04	
		Um	iP		15 48 46.4	
		Ud	iP		15 48 56.8	
		Off coast of Oregon (h = N).				
"	5	Up	iP		16 05 34.7	
					micr	sec
			P	Z'	0.2	1.5
		Ki	eP		16 04 55	
		Sk	iP		16 05 08.5	
		Um	iP		16 05 16.7	
		Ud	iP		16 05 26.1	
		De	eP		16 05 47	
		Off coast of Oregon (h = N).				
"	5	Up	iPKP1		16 40 17.1	
		Ud	iPKP1		16 40 19.5	C
		De	iPKP1		16 40 29.7	
"	5	Ki	iP		17 53 47.9	
		Ud	iP		17 54 26.7	
		Off coast of Oregon (h = N).				
"	5	Up	epPKP		22 02 33	
			iSKP1		22 06 00.7	
		Ki	iPKP		22 02 13.7	
			ipPKP		22 02 19.4	
		Sk	ePKP		22 02 25	
		Um	iPKP		22 02 20.4	
			ipPKP		22 02 25.8	
		Ud	iPKP		22 02 28.4	
			ipPKP		22 02 34.8	
			iSKP1		22 06 03.5	
		De	ipPKP		22 02 44.9	
		New Hebrides Islands.				
		h = 20 km (Ki,Um,Ud).				
"	5	Up	eP		23 35 29	
		(cont.)				

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

1974 Jan.	5	(cont.)				
		Ud	iP	23 35 22.4		
		Off coast of Oregon (h = N).				
"	5	Up	iP	23 40 51.2		
		Sk	eP	23 40 25		
		Um	iP	23 40 33.8		
			ipP	23 40 39.3		
		Ud	iP	23 40 44.5		
			ipP	23 40 50.0		
		Off coast of Oregon.				
		h = 20 km (Um,Ud).				
"	6	Ud	iPKP1	04 39 15.5		
		De	iPKP1	04 39 25.9		
		Tonga Islands (h = N).				
"	6	Ud	iP	07 51 38.7		
		East of Crete (h = 30 km).				
"	6	Up	iSn	09 03 43.5		
			iSg1	09 04 39.8		
		Ki	iPn	09 00 29.5		
			iSn	09 01 27.4		
			iSg1	09 01 48.7		
		Sk	iSg1	09 04 11.5		
		Um	iSn	09 02 06.4		
			i	09 02 22.4		
			iSg1	09 02 39.7		
		Ud	iSn	09 04 06.9		
			eSg1	09 05 15		
			i	09 05 25.7		
		Northwest USSR.				
		Explosion.				
"	6	Up	iP	10 12 44.8		
		Ki	iP	10 12 45.7		
		Um	iP	10 12 47.9		
		Ud	iP	10 12 25.4		
			i	10 12 29.2		
		De	iP	10 12 38.2		
		North Atlantic Ocean				
		(h = N).				
"	6	Up	iP	10 38 38.3		
		Ki	iP	10 38 37.1		
		Sk	eP	10 38 09		
		Um	iP	10 38 41.0		
			i	10 38 45.6		
		Ud	iP	10 38 19.2		
		North Atlantic Ocean				
		(h = N).				
"	6	Up	iSKP1	12 38 35.6		
		Ki	ePKP	12 34 56		
		Um	iPKP	12 35 03.1		
		(cont.)				
1974 Jan.	6	(cont.)				
		Ud	iPKP	12 35 09.4		
		New Hebrides Islands				
		(h = N).				
"	6	Up	iP	14 43 30.0	C	
				micr	sec	
			P	Z' 0.1	1.1	
		Ki	iP	14 44 14.3		
			i	14 44 17.7		
				micr	sec	
			P	Z' 0.2	1.5	
		Sk	iP	14 43 41.5	C	
		Um	i(P)	14 43 51.8		
			iP	14 43 54.9	C	
			i	14 44 00.1		
		Ud	i(P)	14 43 20.7		
			iP	14 43 23.9	C	
			i	14 43 29.1		
		North of Ascension Island				
		(h = N).				
		m = 6.0 (Up,Ki).				
"	6	Up	iPKP1	15 33 15.9		
			iPKP2	15 33 20.4		
		Sk	iPKP1	15 33 09.7		
		Um	iPKP1	15 33 04.3		
		Ud	iPKP1	15 33 17.9		
		De	iPKP1	15 33 26.4		
		Kermadec Islands				
		(h = 20 km).				
"	6	Up	iPKP	17 58 40.9		
			iSKP1	18 01 52.6		
				micr	sec	
			SKP1	Z' 0.1	0.9	
		Ki	iPKP	17 58 26.5		
		Sk	iPKP	17 58 37.3		
		Um	iPKP	17 58 32.8		
		Ud	iPKP	17 58 43.0		
			iSKP1	18 01 56.4		
		De	i(PKP)	17 58 43.6		
			iPKP	17 58 50.4		
		New Hebrides Islands				
		(h = 120 km).				
"	6	Up	iRg	18 01 52.1		
		Ud	iRg	18 01 56.4		
		Central Sweden.				
"	6	Up	i(P)	18 02 48.2		
"	6	Ki	iP	21 43 51.9		
		Um	iP	21 43 24.2		
		De	iP	21 43 03.1		
		Turkey (h = N).				

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

1974 Jan.	6	Sk	iP		23 29 37.8	
		Ud	iP		23 29 01.3	
		Aegean Sea (h = N).				
"	6	Um	iP		23 55 06.1	
		Ud	iP		23 54 31.2	
		Aegean Sea (h = 45 km).				
"	7	Ud	iP		02 13 41.1	
"	7	Up	iP		04 07 46.7	
			ipP		04 07 57.1	
					micr	sec
			pP	Z'	0.1	0.9
		Ki	iP		04 07 25.5	
		Sk	epP		04 08 05	
		Um	iP		04 07 33.6	
			ipP		04 07 43.6	
		Ud	iP		04 07 55.6	
			ipP		04 08 04.9	
		Luzon.				
		h = 35 km (Up,Um,Ud).				
"	7	Up	iP		05 28 44.6	
			i		05 28 45.5	
			ipP		05 29 08.6	
		Ki	iP		05 28 38.5	
		Sk	iP		05 29 01.2	
		Um	iP		05 28 37.2	
			i		05 28 38.2	
		Ud	iP		05 28 57.7	
			i		05 28 58.6	
		De	eP		05 29 01	
		Burma-India.				
		h = 100 km (Up).				
"	7	Um	iP		08 36 34.1	C
		Ud	iP		08 36 59.9	C
		De	iP		08 37 21.6	C
		Alaska (h = 130 km).				
"	7	Ki	iP		08 59 16.2	
		Sumatra (h = 140 km).				
"	7	Um	iSgl		11 09 43.4	
		Western USSR.				
		Explosion.				
"	7	Ud	iP		11 33 08.4	
		Okhotsk Sea (h = 410 km).				
"	7	Um	iSgl		13 08 48.5	
		Western USSR.				
		Explosion.				
"	7	Up	iP		15 31 12.0	C
		(cont.)				
1974 Jan.	7	(cont.)				
		Up	i		15 31 15.8	
					micr	sec
			P	Z'	0.1	0.9
		Ki	iP		15 31 54.1	C
			i		15 31 57.8	
					micr	sec
			P	Z'	0.1	0.9
		Sk	iP		15 31 52.7	C
		Um	iP		15 31 30.1	C
		Ud	iP		15 31 27.9	C
			i		15 31 31.5	
		De	iP		15 31 09.2	C
			i		15 31 13.1	
		Iran (h = 30 km).				
		m = 5.6 (Up,Ki).				
		Double P, in average 3.8 sec apart.				
"	7	Up	iP		15 36 08.1	
					micr	sec
			P	Z'	0.1	1.1
		Ki	iP		15 36 51.5	
		Um	iP		15 36 26.3	
		Ud	iP		15 36 23.1	C
			i		15 36 27.0	
		De	iP		15 36 04.8	
		Iran (h = 35 km).				
"	7	Ud	iP		17 57 31.7	
		Iran (h = 40 km).				
"	7	Ki	iP		23 39 44.1	
		Um	iP		23 39 57.9	
		Bonin Islands (h = 520 km).				
"	8	Ud	iPKPl		04 45 32.0	
"	8	Um	iSgl		11 58 01.9	
		Western USSR.				
		Explosion.				
"	8	Up	iSgl		13 13 34.6	
		Ki	eSgl		13 15 31	
		Sk	eSgl		13 15 17	
		Um	iSgl		13 13 49.0	
		Ud	iSgl		13 14 35.7	
		Western USSR.				
		Explosion.				
"	8	Um	iSgl		13 24 06.0	
		Lake Ladoga region.				
		Explosion.				
"	8	Um	iP		19 56 30.0	
		Ud	iP		19 56 59.5	
		Japan (h = 10 km).				

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

1974 Jan.	8	Ud	i(P)		21 14 40.7	
"	8	Up			micr	sec
			Mx	E	2.6	17
			Mx	N	3.2	18
			Mx	Z	4.8	22
		Ki	iPP		22 06 23.7	
			iSP		22 15 24	
					micr	sec
			PP	Z'	0.1	1.5
			Mx	E	5.9	22
			Mx	N	4.3	20
			Mx	Z	3.3	20
		Um	iPP		22 05 45.0	
			iSKS		22 12 08	
			iS		22 13 13	
		Indian Ocean (h = N).				
		M = 6.1 (Up,Ki).				
"	8	Ki	iP		23 22 53.6 C	
		Um	iP		23 23 12.5 C	
		Ud	iP		23 23 43.3	
		Japan (h = 70 km).				
"	9	Up	iP		03 00 22.1 C	
					micr	sec
			P	Z'	0.6	1.1
			Mx	E	0.9	16
			Mx	N	1.2	14
			Mx	Z	2.1	16
		Ki	iP		02 59 29.8 C	
					micr	sec
			P	Z'	0.5	1.0
			Mx	E	0.9	13
			Mx	N	1.4	14
			Mx	Z	1.4	15
		Sk	iP		03 00 06.1 C	
		Um	iP		02 59 54.5 C	
		Ud	iP		03 00 25.7 C	
		De	iP		03 00 47.0 C	
		Kamchatka (h = N).				
		m = 6.6, M = 5.3 (Up,Ki).				
"	9	Ki	eP		03 28 49	
"	9	Ki	iSn		09 54 29.5	
		Northwest USSR-Norway.				
		Explosion.				
"	9	Um	iSgl		11 25 07.7	
		Western USSR.				
		Explosion.				
"	9	Up	iSgl		12 20 23.1	
		Ki	iSgl		12 22 28.3	
		Sk	iSgl		12 22 08.3	
		(cont.)				
1974 Jan.	9	(cont.)				
		Um	iSgl		12 20 39.9	
		Ud	iSgl		12 21 25.1	
		Western USSR.				
		Explosion.				
"	9	Um	iSgl		12 33 04.3	
		Esthonia.				
		Explosion.				
"	9	Um	iP		13 14 47.4	
		Adriatic Sea.				
"	9	Um	iP		21 18 17.2	
		Iran (h = N).				
"	10	Ud	iPKP1		00 58 16.9	
		De	iPKP1		00 58 28.8	
"	10	Up	iP		02 47 37.4 C	
			ipP		02 47 48.1	
					micr	sec
			P	Z'	0.2	1.1
		Ki	iP		02 46 44.9 C	
					micr	sec
			P	Z'	0.1	1.1
			Mx	E	0.7	15
			Mx	N	0.9	15
			Mx	Z	1.1	15
		Um	iP		02 47 09.7 C	
			ipP		02 47 20.7	
		Ud	iP		02 47 42.0 C	
		Kamchatka.				
		h = 40 km (Up,Um).				
		m = 6.1 (Up,Ki).				
"	10	Up	iP		05 29 30.6 C	
			ipP		05 29 41.2	
					micr	sec
			P	Z'	0.3	1.0
			Mx	E	1.6	17
			Mx	N	1.7	16
			Mx	Z	2.3	17
		Ki	iP		05 28 38.0 C	
			ipP		05 28 48.5	
					micr	sec
			P	Z'	0.3	0.9
			Mx	E	1.1	15
			Mx	N	1.5	15
			Mx	Z	2.1	16
		Sk	iP		05 29 14.0	
		Um	iP		05 29 02.5 C	
			ipP		05 29 12.8	
		Ud	iP		05 29 34.6	
		De	iP		05 29 55.7	
		Kamchatka.				
		h = 40 km (Up,Ki,Um).				
		m = 6.4, M = 5.4 (Up,Ki).				

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

1974						
Jan.	10	Up	iP		09 07 06	
			i(PKP)		09 10 10.2	
			iPKP		09 10 18.5	C
			iPP		09 12 29	
			iSKP1		09 13 40.9	
					micr	sec
			PKP	Z'	0.9	1.6
			Mx	E	56	22
			Mx	N	110	22
			Mx	Z	180	22
		Ki	iP		09 06 35	
			iPKP		09 10 05.1	C
			iPP		09 11 39	
			iSKS		09 17 14.7	
			iPKKP1		09 20 01.1	
					micr	sec
			PKP	Z'	0.5	1.2
			Mx	E	70	22
			Mx	N	66	22
			Mx	Z	97	21
		Sk	iPKP		09 10 16.0	C
			eSKP1		09 13 42	
		Um	iP		09 06 51	
			i(PKP)		09 10 04.0	
			iPKP		09 10 11.3	C
			iPP		09 12 04	
		Ud	i(PKP)		09 10 11.2	
			iPKP		09 10 20.4	C
			iSKP1		09 13 43.4	
		De	i(PKP)		09 10 16.4	
			iPKP		09 10 26.6	C
			iSKP1		09 13 54.0	
		New Hebrides Islands				
		(h = 35 km).				
		M = 7.3 (Up,Ki).				
"	10	Ud	i(SKP1)		09 42 30.5	
"	10	Ud	iSKP1		10 15 07.3	
		New Hebrides Islands				
		(h = 55 km).				
"	10	Ki	iPKP		10 16 31.6	
		Um	iPKP		10 16 37.8	
		Ud	ePKP		10 16 47	
		New Hebrides Islands				
		(h = 45 km).				
"	10	Up	iSKP1		10 23 21.7	
					micr	sec
			SKP1	Z'	0.1	1.0
		Ki	i(PKP)		10 19 36.5	
			iPKP		10 19 42.1	
					micr	sec
			PKP	Z'	0.1	1.5
		Sk	iPKP		10 19 52.8	
		(cont.)				

1974					
Jan.	10	(cont.)			
		Um	i(PKP)	10 19 46.3	
			iPKP	10 19 51.3	
			iSKP1	10 23 10.2	
		Ud	i(PKP)	10 19 56.3	
			iPKP	10 20 01.4	
			i(SKP1)	10 23 19.5	
			iSKP1	10 23 24.9	
		De	i(PKP)	10 19 57.2	
			iPKP	10 20 04.3	
			i(SKP1)	10 23 30.7	
			iSKP1	10 23 35.8	
		New Hebrides Islands			
		(h = 70 km).			
"	10	Um	iP	10 41 08.9	
		Russia-China (h = 540 km).			
"	10	Up	iSn	11 39 38.1	
			iSgl	11 39 51.4	
		Ki	iSgl	11 42 28.9	
		Um	iSgl	11 40 27.1	
		Ud	i(S*)	11 40 44.7	
		De	eSgl	11 41 24	
		Esthonia.			
		Explosion.			
"	10	Ud	iP	11 57 55.8	
		Tyrrhenian Sea (h = 340 km).			
"	10	Up	iP	12 56 14.8	C
			ipP	12 56 27.9	
				micr	sec
			P	Z' 0.1	1.0
		Ki	iP	12 55 32.3	C
		Sk	iP	12 56 09.0	
		Um	iP	12 55 53.3	C
		Ud	iP	12 56 21.5	C
		De	iP	12 56 36.5	C
		Japan.			
		h = 50 km (Up).			
"	10	Ki	iP	16 24 30.9	
		Um	iP	16 24 48.9	
		Ud	iP	16 25 16.0	
		De	eP	16 25 29	
		Japan (h = 35 km).			
"	10	Um	iPKP1	16 28 50.1	
		Ud	iPKP1	16 29 03.3	
"	10	Ud	iP	16 43 09.9	
		Iran.			
"	10	Um	iPKP1	16 50 16.3	

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

1974							
Jan.	10	Up	eP		22 37 20		
					micr	sec	
			P	Z'	0.1	0.9	
		Ki	iP		22 37 17.8		
			i		22 37 22.5		
					micr	sec	
			P	Z'	0.1	1.0	
		Sk	iP		22 36 51.8		
		Um	iP		22 37 25.5		
		Ud	iP		22 37 02.7		
		De	eP		22 37 15		
		North Atlantic Ocean					
		(h = N).					
		m = 5.4 (Up,Ki).					
"	10	Ki	i(P)		23 12 53.7		
"	11	Ki	eP		02 04 48		
			i		02 04 55.3		
		Sk	eP		02 04 20		
		Um	iP		02 04 54.6		
		Ud	iP		02 04 33.6		
		North Atlantic Ocean					
		(h = N).					
"	11	Up	iP		02 11 19.4	C	
					micr	sec	
			P	Z'	0.2	1.0	
		Ki	iP		02 11 28.4	C	
					micr	sec	
			P	Z'	0.1	1.1	
		Sk	iP		02 11 44.8		
		Um	iP		02 11 17.6	C	
		Ud	iP		02 11 35.8	C	
		De	iP		02 11 32.3		
		Hindu Kush (h = 160 km).					
		m = 5.6 (Up,Ki).					
"	11	Um	iPKP		05 36 23.2		
		Argentina (h = 120 km).					
"	11	Up	iPKP		05 55 38.3		
			iSKPl		05 59 01.4		
					micr	sec	
			Mx	E	3.8	20	
			Mx	N	6.8	21	
			Mx	Z	13	21	
		Ki	iPKP		05 55 23.6		
					micr	sec	
			PKP	Z'	0.1	1.0	
			Mx	E	3.7	20	
			Mx	N	5.6	22	
			Mx	Z	6.8	21	
		Sk	iPKP		05 55 36.0		
		Um	iPKP		05 55 30.2		
		Ud	iPKP		05 55 40.1		
		(cont.)					

1974				
Jan.	11	(cont.)		
		Ud	iSKPl	05 59 04.4
			iSKP	05 59 13.6
		De	iPKP	05 55 46.5
			iSKPl	05 59 15.4
		New Hebrides Islands		
		(h = 15 km).		
		M = 6.3 (Up,Ki).		
"	11	Ki	iPKP	06 06 21.9
"	11	Up	iP	09 33 01.3
				micr sec
			P Z'	0.1 1.1
		Ki	iP	09 32 08.8
				micr sec
			P Z'	0.1 1.1
		Um	iP	09 32 33.5
		Ud	iP	09 33 05.4
		Kamchatka (h = N).		
		m = 5.9 (Up,Ki).		
"	11	Ki	iPn	11 57 28.8
			iPgl	11 57 36.7
			iSn	11 58 16.0
			iSgl	11 58 30.5
		Um	iSgl	12 00 05.3
		Northwest USSR-Norway.		
		Explosion.		
"	11	Um	eSgl	12 23 07
		Western USSR.		
		Explosion.		
"	11	Up	iSgl	13 24 56.3
		Um	iSgl	13 25 12.9
		Western USSR.		
		Explosion.		
"	11	Ki	iP	15 01 32.8
		Um	iP	15 01 48.0
		Ud	iP	15 02 17.0
		South of Japan (h = 20 km).		
"	11	Sk	iP	15 13 10.2
		South Atlantic Ocean		
		(h = N).		
"	11	Um	iP	16 08 07.6
		Ud	iP	16 08 30.2
		Volcano Islands (h = N).		
"	11	Ud	iP	21 19 48.3
		Aegean Sea (h = 45 km).		
"	11	Ud	iP	22 52 26.9
		Kirghiz SSR (h = 40 km).		

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

1974				
Jan.	11	Ki	ePKP	23 44 23
			New Hebrides Islands (h = N).	
"	12	Up	iRg	11 08 18.7
		Ud	iRg	11 08 05.3
			Central Sweden.	
"	12	Ki	iPn	12 31 54.8
			iSn	12 32 43.4
			iS*	12 32 57.9
		Um	eSgl	12 34 27
			Northwest USSR-Norway. Explosion.	
"	12	Ki	i(S*)	12 45 56.7
			Northwest USSR. Explosion.	
"	12	Ud	iPKPl	12 54 21.9
"	12	Up	iSgl	13 45 44.5
		Ki	iSgl	13 46 25.8
		Sk	eSgl	13 46 56
		Um	iSgl	13 45 05.0
		Ud	iSgl	13 46 41.9
		De	iSgl	13 47 22.2
			Lake Ladoga region. Explosion.	
"	12	Um	iP	20 12 55.5
			Panama (h = 35 km).	
"	13	Up	eSgl	05 35 30
		Ki	iSn	05 32 11.8
			iSgl	05 32 32.2
		Um	iSgl	05 33 27.6
			Northwest USSR. Explosion.	
"	13	Ki	iSn	07 08 51.6
			iSgl	07 09 13.7
			Northwest USSR. Explosion.	
"	13	Up	iSgl	07 16 41.2
		Ki	ePn	07 12 34
			ePgl	07 12 46
			iSn	07 13 32.2
			iS*	07 13 50.8
		Sk	eSgl	07 16 22
		Um	iSn	07 14 13.7
			iSgl	07 14 47.7
		Ud	iSgl	07 17 19.5
			Northwest USSR. Explosion.	

1974				
Jan.	13	Ki	iPKP	18 11 46.2
		Um	iPKP	18 11 49.1
			New Hebrides Islands (h = N).	
"	13	Up	iSgl	18 28 59.5
		Ki	iSgl	18 29 22.9
		Sk	iPgl	18 27 46.3
			iSgl	18 28 12.6
		Um	iPgl	18 27 30.5
			iSgl	18 27 48.6
		Ud	iPgl	18 28 14.1
			iSgl	18 29 04.4
			Ångermanland, Sweden, 63.5°N, 17.1°E. Origin time = 18 27 08.	
"	13	Ud	iP	21 42 23.1
			Atlantic Ocean (h = N).	
"	14	Up	iSgl	11 39 01.6
		Um	iSgl	11 39 20.1
		Ud	eSgl	11 40 02
		De	eSgl	11 40 37
			Western USSR. Explosion.	
"	14	Up	iSgl	13 55 39.2
		Sk	iSgl	13 57 37.0
		Um	iSgl	13 56 22.3
		Ud	iSgl	13 56 45.4
			Esthonia. Explosion.	
"	14	Ki	ePKP	16 35 40
		Um	iPKP	16 35 47.9
		Ud	ePKP	16 35 59
			iSKPl	16 39 31.9
			New Hebrides Islands (h = 5 km).	
"	14	Up	iP	20 42 30.5
	✓	Ki	iP	20 41 39.3
				micr sec
			P Z'	0.1 1.2
		Sk	iP	20 42 16.1
		Um	iP	20 42 03.1
		Ud	iP	20 42 34.7
		De	iP	20 42 54.7
			Kurile Islands (h = 15 km).	
"	14	Ki	iP	21 35 04.5
			Kamchatka.	
"	14	Ki	iPKP	23 50 47.8
		Ud	iPKP	23 51 03.9
		De	iPKP	23 51 08.8
			Solomon Islands (h = 55 km).	

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

1974 Jan.	15	Up	iPKP1		08	51	47.4
			iPKP2		08	51	53.1
					micr		sec
			PKP1	Z'	0.3		1.0
			PKP2	Z'	0.2		0.7
		Ki	i(PKP)		08	51	25.0
			iPKP		08	51	34.1
					micr		sec
			PKP	Z'	0.1		1.0
		Sk	iPKP1		08	51	40.4
		Um	iPKP1		08	51	34.8
		Ud	iPKP		08	51	46.1
			iPKP1		08	51	49.5
			iPKP2		08	51	56.5
		De	iPKP1		08	51	57.2
		Kermadec Islands (h = 110 km).					
"	15	Um	iSgl		13	03	03.7
		Ud	iSgl		13	03	25.5
		Esthonia. Explosion.					
"	15	Sk	iSgl		13	36	06.8
		Um	iSgl		13	34	40.4
		Western USSR. Explosion.					
"	15	Ud	iP		17	39	34.8
		Greece (h = 40 km).					
"	15	Ki	iP		19	12	53.0
		Um	iP		19	13	03.7
		Mariana Islands (h = 220 km).					
"	15	Ki	iP		19	51	13.6
		Sk	eP		19	50	48
		Um	iP		19	51	24.7
			i(pP)		19	51	30.7
		Ud	iP		19	51	12.8
			i(pP)		19	51	18.7
		Iceland (h = N).					
"	15 ✓	Up	iP		23	00	38.7
					micr		sec
			P	Z'	0.1		0.9
			Mx	N	5.1		19
		Ki	iP		23	00	16.3
					micr		sec
			P	Z'	0.1		1.0
			Mx	E	2.0		11
			Mx	N	2.8		15
			Mx	Z	2.0		12
		Sk	eP		23	00	46
		Um	iP		23	00	24.2
		Ud	iP		23	00	51.1
		Szechwan, China (h = N). m = 5.8, M = 5.7 (Up,Ki).					

1974 Jan.	16	Um	iPKP1		04	05	04.6
"	16	Up	iP		05	04	15.7
					micr		sec
			P	Z'	0.1		1.0
			Mx	N	1.1		15
		Ki	iP		05	03	52.5
					micr		sec
			P	Z'	0.1		1.3
			Mx	E	1.1		13
			Mx	N	1.0		12
			Mx	Z	0.9		10
		Um	iP		05	04	00.4
		Ud	iP		05	04	25.0
		De	iP		05	04	33.7
		Formosa (h = 60 km). m = 5.7, M = 5.4 (Up,Ki).					
"	16	Ud	iPKP1		07	31	02.3
		De	iPKP1		07	31	12.4
"	16	Ki	iP		09	56	51.2
		Mariana Islands (h = 120 km).					
"	16	Ki	iPKP		11	04	07.3
		New Hebrides Islands (h = 30 km).					
"	16	Up	iSgl		12	22	59.0
		Um	iSgl		12	23	09.5
		Ud	iSgl		12	24	00.8
		Western USSR. Explosion.					
"	16	Um	eP		19	51	37
		Ud	iP		19	52	09.3
"	17	Up	iP		02	56	19.4 D
			ipP		02	56	39.7
					micr		sec
			P	Z'	0.1		0.9
		Ki	iP		02	56	00.9 D
					micr		sec
			P	Z'	0.1		1.2
		Sk	eP		02	56	27
		Um	iP		02	56	07.0 D
		Ud	iP		02	56	29.2 D
		De	iP		02	56	35.2 D
		Luzon. h = 80 km (Up). m = 5.7 (Up,Ki).					
"	17	Up	iP		07	54	22.0 C
		Um	iP		07	54	20.1
		Ud	iP		07	54	38.3 C
		De	iP		07	54	34.4
		Pakistan (h = 100 km).					

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

1974 Jan.	17	Up	iP		08 50 02.7	C
					micr	sec
			P	Z'	0.2	1.0
		Ki	iP		08 49 17.3	
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		08 49 54.1	
		Um	iP		08 49 37.6	
		Ud	iP		08 50 09.3	C
		De	iP		08 50 26.8	C
		Kurile Islands (h = 80 km).				
		m = 5.9 (Up,Ki).				
"	17	Ud	iP		11 02 48.8	
"	17	Um	iSgl		12 24 31.8	
		De	iSgl		12 25 28.8	
		Esthonia.				
		Explosion.				
"	17	Up	iSgl		12 30 29.5	
		Um	iSgl		12 30 53.6	
		Western USSR.				
		Explosion.				
"	17	Up	iSn		12 31 07.7	
			iSgl		12 31 21.2	
		Ki	eSgl		12 33 11	
		Sk	eSgl		12 33 03	
		Um	iSgl		12 31 35.5	
		Ud	iSgl		12 32 22.0	
		De	iSgl		12 32 42.2	
		Western USSR.				
		Explosion.				
"	17	Um	iSgl		13 02 44.9	
		Western USSR.				
		Explosion.				
"	17	Ud	iPKP1		13 05 37.4	
		De	iPKP1		13 05 48.5	
"	17	Up	iP		13 05 49.4	C
		Ki	iP		13 05 39.9	C
			ipP		13 06 45.5	
			i(PP)		13 09 41.9	
		Um	i(PP)		13 09 43.2	
			iPP		13 09 54.0	
		Ud	iP		13 05 57.7	C
			i(PP)		13 10 13.3	
			iPP		13 10 22.3	
		De	eP		13 05 59	
		Bali Sea.				
		h = 270 km (Ki).				
"	17	Um	i(P)		14 46 25.0	
1974 Jan.	18	Ki	eP		01 25 39	
		Um	iP		01 25 43.0	
		Ud	iP		01 26 03.3	
		Mindanao (h = N).				
"	18	Up	iPKP2		07 13 06.8	
					micr	sec
			Mx	N	1.1	16
			Mx	Z	1.1	17
		Ki	iPKP2		07 13 14.7	
					micr	sec
			Mx	E	1.4	17
			Mx	N	1.8	18
			Mx	Z	2.1	19
		Southwest of Macquarie Islands (h = N).				
		M = 6.0 (Up,Ki).				
"	18	Um	iPKP1		10 39 24.3	
		New Zealand (h = N).				
"	18	Um	iP		11 02 25.6	
		Ud	iP		11 02 05.8	
		Turkey (h = 25 km).				
"	18	Ki	iPn		11 46 32.9	
			iSn		11 47 30.9	
			iSgl		11 47 55.1	
		Sk	i		11 50 04.7	
			iSgl		11 50 21.8	
		Um	iSn		11 48 10.0	
			i		11 48 25.8	
			iSgl		11 48 45.9	
		Northwest USSR.				
		Explosion.				
"	18	Ki	iSn		11 50 12.2	
		Sk	iSgl		11 53 06.5	
		Um	iSgl		11 51 28.3	
		Northwest USSR.				
		Explosion.				
"	18	Up	iSgl		13 47 12.4	
		Ki	iSgl		13 49 44.4	
		Sk	eSgl		13 49 04	
		Um	iSgl		13 47 45.3	
		Ud	iSgl		13 48 14.7	
		De	iSgl		13 48 40.8	
		Esthonia.				
		Explosion.				
"	18	Ud	iP		14 30 52.2	
		Greece.				
"	18	Up	iP		17 04 01.6	
		Ki	iP		17 04 03.8	C

(cont.)

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

1974
Jan. 18 (cont.)

Sk	iP	17 03 45.8	
Um	iP	17 04 06.6	C
	ipP	17 04 28.6	
Ud	iP	17 03 49.2	
De	iP	17 03 53.0	

Haiti.
h = 80 km (Um).

" 18

Up	iPgl	20 52 36.8	
	iSgl	20 52 50.2	
	iRg	20 52 52.5	
Sk	iSn	20 54 06.2	
	iSgl	20 54 22.8	
Um	iSgl	20 54 17.9	
Ud	iPgl	20 52 48.1	
	i	20 53 06.5	
	iSgl	20 53 10.9	
	iRg	20 53 17.4	
De	iSgl	20 54 34.4	

Gästrikland, Sweden,
60.5°N, 16.5°E.
Origin time = 20 52 20.
Explosion?

" 19

Up	iP	01 07 13.5	
Ki	iP	01 07 13.6	C
Um	iP	01 07 09.9	
Ud	iP	01 07 24.6	

Sumatra (h = 100 km).

" 19

Um	iP	04 22 50.3	

New Guinea (h = 80 km).

" 19

Um	iP	09 04 02.8	
Ud	iP	09 04 28.1	

Aleutian Islands (h = 60 km).

" 19

Ki	iP	10 40 17.2	

Ryukyu Islands (h = 120 km).

" 19

Up	iSgl	12 37 33.1	
Um	iSgl	12 37 41.0	
Ud	iS*	12 38 23.1	
	iSgl	12 38 31.8	

Western USSR.
Explosion.

" 19

Ki	iPn	12 46 50.5	
	iSn	12 47 38.0	
	iSgl	12 47 55.0	

Northwest USSR-Norway.
Explosion.

" 19

Um	iP	21 44 34.0	
Ud	iP	21 45 05.9	

1974
Jan. 20

Up	iPKP	05 32 20.8	
Ki	iPKP	05 32 06.5	
	ipPKP	05 32 20.0	
		micr	sec
	PKP Z'	0.1	1.0
Sk	iPKP	05 32 17.2	
	ipPKP	05 32 31.1	
Um	iPKP	05 32 12.3	
	ipPKP	05 32 25.9	
Ud	iPKP	05 32 21.9	
	ipPKP	05 32 35.7	
	iSKPl	05 35 43.9	
De	iPKP	05 32 29.4	
	ipPKP	05 32 42.3	
	iSKPl	05 35 53.6	

New Hebrides Islands.
h = 45 km (Ki,Sk,Um,Ud,De).

" 20

Ud	iPKPl	06 12 58.6	
De	iPKPl	06 13 10.1	

" 20

Ki	iSn	06 51 36.9	
Um	iSgl	06 52 51.1	

Northwest USSR.
Explosion.

" 20

Um	iP	15 59 29.3	

Japan (h = N).

" 20

Up	iP	20 15 44.3	C
Ki	iP	20 15 40.2	
		micr	sec
	P Z'	0.1	1.0
Sk	iP	20 16 01.0	
Um	iP	20 15 37.8	C
Ud	iP	20 15 57.6	C

India-Bangla Desh (h = N).

" 21

Ud	iP	00 18 31.5	

Dodecanese Islands
(h = 70 km).

" 21

Up	eP	00 55 00	
Ki	eP	00 55 05	
Um	ipP	00 55 07.9	
Ud	iP	00 55 10.6	
	ipP	00 55 20.9	
De	eP	00 55 08	

Sumatra.
h = 40 km (Ud).

" 21

Um	iSgl	12 43 16.7	

Western USSR.
Explosion.

" 21

Up	iP	14 20 54.5	

(cont.)

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

1974 Jan. 21 (cont.)
Ud iP 14 20 58.1
Unimak Island (h = N).

" 21 Ud iP 20 16 39.2
Tyrrhenian Sea (h = 130 km).

" 21 Um iP 20 48 18.2
Ud iP 20 47 46.5
North of Ascension Island (h = N).

" 21 Um iPKP 21 25 19.9
South Sandwich Islands (h = N).

" 21 Ud iP 23 01 28.9
Mexico (h = N).

" 22 Ki iP 06 15 37.0
micr sec
P Z' 0.2 1.4
Um iP 06 15 26.2
Ud iP 06 15 46.1
De iP 06 15 44.5
Tadzhik SSR (h = 50 km).

" 22 Ud eP 10 13 24
Mindanao (h = N).

" 22 Ud iP 11 14 23.2

" 22 Um iSgl 12 21 07.7
Western USSR.
Explosion.

" 22 Up iSn 12 27 12.0
iSgl 12 27 23.1
Um iSgl 12 27 56.6
Ud iSgl 12 28 27.0
De eSgl 12 28 48
iSg2 12 28 58.3
Esthonia.
Explosion.

" 22 Um iSgl 12 51 15.1
Ud iSgl 12 51 57.2
De eSgl 12 52 27
Western USSR.
Explosion.

" 22 Up iSgl 12 59 09.5
Um iSgl 13 00 02.9
De eSgl 13 00 37
Esthonia.
Explosion.

1974 Jan. 22 De i(P) 13 13 20.6

" 22 Up iP 13 38 36.6 C
micr sec
P Z' 0.6 1.4
Mx E 3.8 20
Mx N 4.3 20
Mx Z 7.2 21
Ki iP 13 37 41.7 C
micr sec
P Z' 0.3 1.0
Mx E 5.5 23
Mx N 3.9 20
Sk iP 13 38 18.6 C
Um iP 13 38 07.4 C
iPcP 13 38 58.7
Ud iP 13 38 39.5 C
De iP 13 39 02.0 C
Kamchatka (h = N).
m = 6.5, M = 5.8 (Up,Ki).

" 22 Um iSgl 14 44 34.2
Lake Ladoga region.
Explosion.

" 22 Ud iSgl 15 04 44.3
De iSgl 15 03 39.1

" 22 Ud iP 15 46 51.2
Hindu Kush.
Intermediate depth.

" 22 Ud iP 19 40 33.7

" 22 Up iP 21 22 27.6
Greece.

" 22 Up iSgl 21 51 57.7
Um iSgl 21 52 15.5
Ud iSgl 21 53 06.0
De eSgl 21 53 23
i 21 53 42.8
Western USSR.
Explosion?

" 22 Um iP 22 33 43.7
Lake Baikal.

" 22 Up iP 23 17 16.7 C
Ki eP 23 16 50
Sk eP 23 17 18
Um eP 23 17 00
i 23 17 12.7
Ud iP 23 17 25.9 C
De iP 23 17 35.6 C
Ryukyu Islands (h = 130 km).

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

1974 Jan.	23	Ki	iSn	08 08 16.8	
			iS*	08 08 30.0	
		Northwest USSR-Norway.			
		Explosion.			
"	23	Up	iSgl	10 25 52.5	
		Ki	iSgl	10 26 38.8	
		Sk	eSgl	10 27 06	
		Um	iSgl	10 25 13.8	
		Ud	iSgl	10 26 50.0	
		De	iSgl	10 27 34.9	
		Lake Ladoga region.			
		Explosion.			
"	23	Up	iSgl	14 00 50.9	
			iRg	14 00 54.5	
		Ud	iRg	14 01 07.9	
		Central Sweden.			
"	23	Up	iPKPl	14 09 42.3	
			i(SKPl)	14 12 28.5	
				micr	sec
			PKPl Z'	0.1	0.8
			(SKPl) Z'	0.1	0.9
		Ki	iPKP	14 09 33.7	
			iSKPl	14 12 22.2	
		Sk	e(PKP)	14 09 35	
			iPKP	14 09 39.0	
		Um	i(PKP)	14 09 30.9	
			iPKP	14 09 36.8	
			iSKPl	14 12 33.2	
		Ud	iPKPl	14 09 43.7	
			i	14 09 51.8	
		De	iPKP	14 09 54.4	
			iPKPl	14 09 55.4	
		Tonga-Kermadec Islands (h = 450 km).			
"	23	Ki	iP	18 19 29.9	
		Um	iP	18 19 26.4	
		Ud	iP	18 19 41.4	
		Sumatra (h = 190 km).			
"	23	Um	iPKP	22 02 25.1	
			i(pPKP)	22 03 11.7	
		Argentina (h = 120 km).			
"	23	Ud	iP	22 13 03.6	
"	23	Ud	iP	22 21 57.3	
"	24	Up	iP	09 45 02.0	
			ipP	09 45 10.9	
		Sk	eP	09 45 50	
		Um	iP	09 45 42.0	
			ipP	09 45 49.1	
		(cont.)			

1974 Jan.	24	(cont.)		
		Ud	iP	09 45 11.6
			ipP	09 45 19.1
		De	eP	09 44 37
		Greece.		
		h = 40 km (Um,Ud).		
"	24	Um	iSgl	10 41 44.5
		Esthonia.		
		Explosion.		
"	24	Ki	iP	11 11 58.3
		Um	iP	11 12 11.2
		Ud	iP	11 12 33.7
		Volcano Islands (h = N).		
"	24	Up	iSn	12 07 34.6
			iSgl	12 07 43.6
		Ki	iSgl	12 10 26.5
			i	12 10 36.0
		Um	iSgl	12 08 34.9
		Ud	iSgl	12 08 50.0
		De	iSgl	12 09 17.5
		Esthonia.		
		Explosion.		
"	24	Um	iSgl	12 17 53.5
		Ud	iSgl	12 18 42.2
		Western USSR.		
		Explosion.		
"	24	Up	iSgl	12 42 33.5
		Ki	iSgl	12 44 27.8
		Um	iSgl	12 42 47.6
		Ud	eSgl	12 43 35
		Western USSR.		
		Explosion.		
"	24	Up	iP	13 23 30.4
		Ki	iP	13 24 44.7
		Sk	iP	13 24 05.1
		Ud	iP	13 23 32.0
		De	iP	13 22 55.4
		Tyrrhenian Sea (h = 360 km).		
"	24	Up	iSgl	13 36 26.3
		Um	iSgl	13 36 46.2
		Western USSR.		
		Explosion.		
"	24	Um	iP	14 43 37.3
		Ud	iP	14 44 02.9
		Aleutian Islands (h = N).		
"	24	Up	iSgl	15 00 20.3
		Um	iSgl	15 02 17.9
		(cont.)		

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

1974
Jan. 24 (cont.)

	Ud	iPgl	14 59 37.1
		iSgl	14 59 58.5
		i	15 00 03.2
		iRg	15 00 09.5
	De	iSgl	15 00 09.8

Västergötland, Sweden,
58.5°N, 14.1°E.
Origin time = 14 59 10.
Explosion.

"	24	Ki	i(Sgl)	15 00 45.6
"	24	Up	ipP	18 53 33.0
		Ki	eP	18 52 21
		Sk	eP	18 52 48
			ipP	18 53 04.7
		Um	iP	18 52 51.3
			i	18 53 02.8
			ipP	18 53 05.8
		Ud	ipP	18 53 20.6
		De	ipP	18 53 46.7

Alaska. h = 60 km (Sk,Um).

"	24	Up	iP		19 23 54.1
			i		19 24 02.0
			ipP		19 24 08.0
			iPcP		19 24 22.8
			iS		19 32 55
					micr sec
			P	Z'	0.5 1.0
			pP	Z'	1.3 1.1
			Mx	E	11 21
			Mx	N	17 22
			Mx	Z	30 20
		Ki	iP		19 23 10.3
			i		19 23 11.7
			ipP		19 23 24.7
			iS		19 31 37
					micr sec
			P	Z'	0.4 1.1
			Mx	E	29 16
			Mx	N	15 17
			Mx	Z	27 17
		Sk	iP		19 23 46.1 C
			ipP		19 23 59.2
		Um	iP		19 23 30.1 C
			ipP		19 23 43.0
			iS		19 32 09
		Ud	iP		19 24 00.7 C
			ipP		19 24 13.6
		De	iP		19 24 17.7 C
			ipP		19 24 31.5

Japan.
h = 50 km (Up,Ki,Sk,Um,Ud,De).
m = 6.4, M = 6.5 (Up,Ki).

"	24	Up	iP	21 45 21.7
			i	21 45 29.7

1974
Jan. 24 Up iP 23 49 12.7
Ki iP 23 48 29.3
Um iP 23 48 48.7
i(pP) 23 49 05.0
Ud iP 23 49 20.8
Japan (h = 40 km).

"	25	Up	i(P)	01 35 56.6
"	25	Ki	iSn	08 16 40.3
			iSgl	08 16 55.2
		Um	iSgl	08 18 33.3

Northwest USSR-Norway.
Explosion.

"	25	Ki	iSn	10 07 45.1
		Um	iSgl	10 09 00.8

Northwest USSR.
Explosion.

"	25	Up	iP		10 15 33.5
					micr sec
			Mx	E	1.0 18
			Mx	N	1.0 19
			Mx	Z	1.2 18
		Ki	iP		10 14 50.0
					micr sec
			Mx	E	1.5 18
			Mx	N	1.3 17
			Mx	Z	1.7 17
		Sk	iP		10 15 25.5
		Um	iP		10 15 08.5
			ipP		10 15 21.5
		Ud	iP		10 15 40.7

Japan.
h = 50 km (Um).
M = 5.3 (Up,Ki).

"	25	Um	iSgl	12 19 18.2

Western USSR.
Explosion.

"	25	Um	iSgl	12 40 53.0

Western USSR.
Explosion.

"	25	Ud	i(Sgl)	12 45 18.7
"	25	Sk	i(P)	13 45 18.6
		Um	i(P)	13 45 48.5
"	25	De	iPKPl	14 30 00.6

Fiji Islands (h = 610 km).

"	25	Um	iPKPl	15 08 47.6
"	25	Up	iP	20 40 59.2 D

(cont.)

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

1974
Jan. 25 (cont.)

Up	ipP		20 41 33.5	
	iSKS		20 51 10	
			micr	sec
	P	Z'	0.2	0.9
	Mx	E	1.6	21
	Mx	N	2.1	17
	Mx	Z	2.0	21
Ki	iP		20 40 31.7	D
	iS		20 50 36	
	isP		20 51 27	
			micr	sec
	P	Z'	0.6	1.0
	Mx	E	1.7	19
	Mx	N	2.1	20
	Mx	Z	1.2	16
Sk	iP		20 40 56.9	D
	iPP		20 44 32.3	
Um	iP		20 40 43.4	D
	iSKS		20 50 53	
Ud	iP		20 41 05.7	D
De	iP		20 41 16.9	D
	ipP		20 41 51.8	
	iPP		20 45 09.6	

Mariana Islands.
h = 140 km (Up,De).
m = 6.3, M = 5.7 (Up,Ki).
M uncorrected for focal depth.

" 25 Ud iP 22 03 16.9

" 25

Um	iPKP		22 59 30.5
Ud	iPKP		22 59 39.7

Samoa Islands (h = 10 km).

" 25

Um	iP		23 07 37.5
Ud	iP		23 07 58.1

" 26

Up	iP		01 36 18.1	
			micr	sec
	P	Z'	0.1	1.1
Ki	iP		01 35 25.3	
Um	eP		01 35 51	
Ud	iP		01 36 22.1	
De	iP		01 36 43.1	

Kamchatka (h = N).

" 26

Up	iP		03 22 15.1
Ki	iP		03 21 21.6
Um	iP		03 21 47.8
	ipP		03 22 03.2
Ud	iP		03 22 14.1
De	iP		03 22 36.8

Aleutian Islands.
h = 55 km (Um).

1974
Jan. 26

Ud	iP		05 24 38.1

Turkey (h = 25 km).

" 26

Up	ePl		05 48 27	
	iS		05 58 54	
			micr	sec
	Mx	E	4.3	22
	Mx	N	3.8	18
	Mx	Z	8.5	18
Ki	iPl		05 48 09	
	eP2		05 48 18	
			micr	sec
	Mx	E	14	17
	Mx	N	9.0	21
	Mx	Z	14	17
Sk	iP2		05 48 19.7	
Um	iPl		05 48 20.3	
	iP2		05 48 30.4	
	iS		05 58 55	
De	iP2		05 48 40.2	

Mexico (h = N).
M = 6.2 (Up,Ki).
Pl and P2 probably derive from two consecutive shocks.

" 26

Ud	iPKPl		07 03 26.4
De	iPKPl		07 03 37.2

" 26 Ud i(pP) 10 31 41.1

Japan (h = 55 km).

" 26 Um iSgl 12 37 53.9

Northwest USSR.
Explosion.

" 26

Up	iSgl		13 14 08.0
Sk	eSgl		13 13 32
Um	iSgl		13 12 01.8

Northwest USSR-Finland.
Explosion.

" 26

Sk	eSgl		13 14 26
Um	iSgl		13 12 54.1

Northwest USSR-Finland.
Explosion.

" 26

Sk	eSgl		13 16 27
Um	iSgl		13 15 07.0

Northwest USSR-Norway.
Explosion.

" 26

Up	ipP		16 36 10.0
	iPcP		16 36 19.8
Ud	eP		16 36 02
	ipP		16 36 15.7

Japan.
h = 50 km (Ud).

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

1974 Jan.	27	Up	iP	07 10 56.1	
		Sk	ipP	07 11 04.3	
		Um	iP	07 10 34.2	
			ipP	07 10 47.5	
		Ud	iP	07 11 03.6	
			ipP	07 11 16.6	
		De	iP	07 11 18.0	
		Japan.			
		h = 50 km (Um,Ud).			
"	27	Up	iP	07 18 17.0	
			ipP	07 19 05.8	
		Ki	iP	07 17 48.2	
			ipP	07 18 35.8	
		Sk	iP	07 18 13.9	
		Um	iP	07 18 00.5	D
			i	07 18 31.0	
			ipP	07 18 48.8	
		Ud	iP	07 18 23.5	
			ipP	07 19 12.1	
		De	iP	07 18 34.7	D
		Mariana Islands.			
		h = 200 km (Up,Ki,Um,Ud).			
"	27	Ud	iPKP	07 52 00.1	
		Fiji Islands (h = 610 km).			
"	27	Up	iP	08 16 44.8	
		Ud	iP	08 16 55.7	
		Formosa (h = 40 km).			
"	27	Up	iP	08 28 36.0	
		Um	iP	08 28 19.9	
		Ud	iP	08 28 47.2	
		Formosa (h = 30 km).			
"	27	Up	iP	08 57 52.6	
			i	08 58 14.3	
		Um	iP	08 58 12.8	
		De	iP	08 57 37.6	
		North Atlantic Ocean			
		(h = N).			
"	27	Up	iSn	09 29 08.9	
			i	09 29 57.7	
			iSgl	09 30 14.5	
		Ki	iPn	09 25 58.5	
			iSn	09 26 56.8	
			iSgl	09 27 17.3	
		Sk	iPn	09 27 02.8	
			iSn	09 28 58.3	
			iSgl	09 29 51.5	
		Um	iPn	09 26 22.9	
			iPgl	09 26 38.9	
			iSn	09 27 36.9	
			i	09 27 51.6	
		(cont.)			

1974 Jan.	27	(cont.)			
		Um	iSgl	09 28 10.3	
		Ud	iPn	09 27 27.2	
			iSn	09 29 34.5	
			i	09 30 36.6	
			iSgl	09 30 42.1	
		De	iSgl	09 32 08.2	
			i	09 32 20.8	
		Northwest USSR.			
		Explosion.			
"	27	Ud	iP	10 54 10.9	
		Formosa (h = 35 km).			
"	27	Ud	i(Sgl)	12 07 08.2	
"	27	Up	iPKP	12 26 15.1	
		Ki	iPKP	12 26 07.3	
		Um	iPKP	12 26 12.6	
			ipPKP	12 26 28.4	
		Santa Cruz Islands.			
		h = 55 km (Um).			
"	27	Up	iP	21 11 40.0	
		Ki	iP	21 12 47.9	
		Sk	eP	21 12 19	
		Um	iP	21 12 11.9	
		Ud	iP	21 11 47.6	
		De	iP	21 11 14.9	
		Crete (h = 70 km).			
"	27	Ud	iPKPl	22 29 59.3	
		De	iPKPl	22 30 09.9	
		Fiji Islands (h = 600 km).			
"	27	Ud	iP	23 15 46.0	
		Aegean Sea.			
"	28	Up	eSKPl	02 22 12	
		Ki	iPKP	02 18 31.5	
		Um	iPKP	02 18 38.0	
		Ud	iSKPl	02 22 16.9	
		New Hebrides Islands			
		(h = 25 km).			
"	28	Up	ePKP	02 20 43	
			iSKPl	02 24 11.0	
		Ki	iPKP	02 20 28.8	
		Um	iPKP	02 20 35.9	
		Ud	iPKP	02 20 44.5	
			iSKPl	02 24 15.6	
		De	iPKP	02 20 54.1	
		New Hebrides Islands			
		(h = 25 km).			
"	28	Up	eP	02 26 26	
		(cont.)			

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

1974 Jan.	28	(cont.)				
		Ki	iP		02 26 00.9	
					micr	sec
			P	Z'	0.1	1.0
		Um	iP		02 26 10.9	
		Ud	iP		02 26 32.0	
		Mariana Islands (h = 60 km).				
"	28	Up	iP		03 44 28.1	
					micr	sec
			P	Z'	0.1	0.9
		Ki	iP		03 45 38.4	
					micr	sec
			P	Z'	0.1	1.3
		Sk	iP		03 44 53.7	
		Um	iP		03 45 06.4	
		Ud	iP		03 44 23.9	D
		De	iP		03 43 51.5	D
		Algeria (h = N).				
		m = 5.6 (Up,Ki).				
"	28	Ud	iPKPl		04 16 03.4	
		De	iPKPl		04 16 15.1	
		Tonga-Kermadec Islands				
		(h = 570 km).				
"	28	Ud	iP		05 38 29.2	
		Greece.				
"	28	Up	iPKPl		06 22 41.2	
		Um	i(PKP)		06 22 29.6	
			iPKP		06 22 39.1	
			iSKPl		06 25 20.8	
		Ud	iPKPl		06 22 43.3	
		De	iPKPl		06 22 54.1	
		Tonga-Kermadec Islands				
		(h = 590 km).				
"	28	Ud	iP		06 47 28.6	
"	28	Up	iP		06 48 18.2	
"	28	Up	iPKPl		08 47 22.2	
		Ud	iPKPl		08 47 25.0	
		De	iPKPl		08 47 35.1	
"	28	Up	iP		12 25 04.1	
		Ki	iP		12 24 33.7	
		Um	iP		12 24 47.6	
		Ud	iP		12 25 10.1	
		De	iP		12 25 21.2	
		Mariana Islands (h = 140 km).				
"	28	Ki	iSgl		12 48 49.2	
		Sk	iSgl		12 48 56.2	
		Um	iSn		12 49 02.2	
		(cont.)				

1974 Jan.	28	(cont.)				
		Um	iSgl		12 49 16.8	
		Ud	iSgl		12 50 43.8	
		Nordland, Norway,				
		66.5°N, 14.2°E.				
		Origin time = 12 47 22.				
		Explosion.				
"	28	Um	i(Sgl)		13 36 19.2	
"	28	Up	iSgl		13 36 45.4	
		Sk	eSgl		13 38 41	
		Um	iSgl		13 37 08.0	
		De	eSgl		13 38 21	
		Western USSR.				
		Explosion.				
"	28	Up	iSn		13 45 12.0	
			iSgl		13 45 23.9	
		Ki	iSgl		13 47 55.9	
		Sk	iSgl		13 47 16.4	
		Um	iSgl		13 45 59.3	
		Ud	iSn		13 46 01.1	
			iSgl		13 46 28.1	
		De	iSgl		13 46 54.3	
		Esthonia.				
		Explosion.				
"	28	Ud	iP		14 28 03.6	
		India (h = 40 km).				
"	28	Up	iP		20 13 48.7	
		Ki	iP		20 13 08.3	
		Um	iP		20 13 26.1	
		Ud	iP		20 13 56.6	
		De	eP		20 14 12	
		Japan (h = 55 km).				
"	29	Um	i(P)		11 13 53.3	
"	29	Up	iSgl		12 13 23.3	
		Sk	iSgl		12 15 16.5	
		Um	iSgl		12 13 41.2	
		Ud	iSgl		12 14 24.0	
		Western USSR.				
		Explosion.				
"	29	Um	iSgl		12 22 03.4	
		De	eSgl		12 22 57	
		Esthonia.				
		Explosion.				
"	29	Sk	iSgl		12 39 26.7	
		Um	iSgl		12 37 39.6	
		De	iSgl		12 40 02.0	
		Lake Ladoga region.				
		Explosion.				

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

1974 Jan.	29	De	i(P)		12 51 22.2	
"	29	Sk	iP		13 39 28.8	
			i		13 39 33.8	
		Ud	iP		13 38 59.8	
		Sicily.				
"	29	Up	iP		15 17 31.9	C
		Ki	eP		15 18 47	
		Sk	iP		15 18 15.3	C
		Um	iP		15 18 12.1	
		Ud	iP		15 17 40.0	
		De	iP		15 17 03.0	
		Greece (h = 30 km).				
"	29	Ud	i(P)		16 32 34.6	
"	29	Up	iPP		19 15 38.0	
					micr	sec
			PP	Z'	0.1	1.3
		Ki	iP		19 10 56.4	
			iPP		19 15 17.4	
					micr	sec
			P	Z'	0.1	1.0
		Sk	iPKP		19 15 23.3	
		Um	iP		19 11 00.8	
			iPKP		19 15 17.4	
			iPP		19 15 22.4	
		Ud	iP		19 11 18.5	
			iPKP		19 15 24.4	
		Banda Sea (h = 150 km).				
		m = 6.4 (Up,Ki).				
"	29	Up	iP		21 08 36.1	
"	29	Ki	iP		22 51 08.3	
		Um	iP		22 51 12.1	
			iPKP		22 55 28.8	
			iPP		22 55 33.6	
		Banda Sea (h = 150 km).				
"	30	Um	i(P)		00 01 13.0	
"	30	Up	iP		05 03 52.0	
		Ki	iP		05 03 36.8	
		Sk	eP		05 04 08	
		Um	iP		05 03 37.8	
		Ud	iP		05 04 08.7	
		Kazakh SSR.				
		Underground explosion.				
"	30	Up	iP		05 03 56.8	C
			iPn		05 05 02.8	
			iPP		05 05 15.1	
					micr	sec
			PP	Z'	0.1	1.0
		(cont.)				

1974 Jan.	30	(cont.)				
		Ki	iP		05 03 41.5	C
					micr	sec
			P	Z'	0.2	0.6
		Sk	iP		05 04 12.5	C
			iPP		05 05 35.4	
		Um	iP		05 03 42.1	
		Ud	iP		05 04 13.4	C
			iPn		05 05 25.8	
		De	iP		05 04 20.8	
		Kazakh SSR.				
		m = 6.0 (Up,Ki).				
		Underground explosion.				
"	30	Up	iSgl		09 54 27.6	
		Ki	eSgl		09 57 05	
		Um	iSgl		09 55 02.7	
		Ud	iSgl		09 55 34.2	
		Esthonia.				
		Explosion.				
"	30	Ud	iP		10 04 35.4	
"	30	Up	iP		10 07 28.3	
			i(PP)		10 11 50.8	
			iPP		10 11 57.1	
					micr	sec
			P	Z'	0.1	0.9
			PP	Z'	0.6	2.0
			Mx	E	6.1	21
			Mx	N	5.7	19
			Mx	Z	12	19
		Ki	iP		10 07 10.3	C
			i		10 07 14.6	
			i(PP)		10 11 17.3	
			iPP		10 11 33.7	
					micr	sec
			P	Z'	0.1	1.2
			i	Z'	0.3	1.4
			PP	Z'	0.6	2.0
			Mx	E	11	20
			Mx	N	12	19
			Mx	Z	8.4	18
		Sk	iP		10 07 31.6	
			i(PP)		10 11 55.0	
		Um	iP		10 07 15.7	
			i		10 07 20.8	
			i		10 07 35.0	
			iPP		10 11 44.2	
		Ud	iP		10 07 36.2	C
			i		10 07 40.2	
			i		10 07 55.6	
			i		10 12 22.7	
		De	iPKP		10 11 43.2	
		Aroe Islands (h = N).				
		m = 6.8, M = 6.5 (Up,Ki).				

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

1974							
Jan.	30	Um	iSgl		12 15 16.8		
		Western USSR.					
		Explosion.					
"	30	Up	iSgl		12 58 14.0		
		Sk	iSgl		13 00 14.1		
		Um	iSgl		12 58 35.4		
		Ud	iSgl		12 59 19.9		
		De	iSgl		12 59 44.9		
		Western USSR.					
		Explosion.					
"	30	Up	iSgl		14 45 01.6		
		Sk	eSgl		14 46 57		
		Um	iPgl		14 44 39.6		
			iSgl		14 45 41.5		
		Ud	iPn		14 44 40.3		
			i		14 45 06.5		
			iSgl		14 46 03.5		
		De	iPn		14 44 53.7		
			iSn		14 46 04.8		
			iSgl		14 46 37.3		
		Esthonia.					
		Explosion.					
"	30	Up	iSgl		14 52 19.0		
		Sk	iSgl		14 54 17.7		
		Um	iSgl		14 52 57.3		
		Ud	iPn		14 51 54.6		
			iSgl		14 53 19.8		
		De	iSgl		14 53 55.6		
		Esthonia.					
		Explosion.					
"	30	Up	iS*		15 57 19.6		
			iSgl		15 57 24.6		
		Ki	iPn		15 54 40.5		
			iPgl		15 54 42.9		
			iSgl		15 55 19.6		
			iRg		15 55 35.9		
					micr	sec	
			Sgl	Z'	0.1	0.5	
		Sk	iPgl		15 54 45.5		
			iSgl		15 55 26.3		
		Um	iPn		15 54 51.2		
			iPgl		15 54 58.6		
			iSn		15 55 33.2		
			iSgl		15 55 48.1		
		Ud	iSn		15 56 46.7		
			iSgl		15 57 14.3		
		De	iSgl		15 59 05.5		
		Nordland, Norway,					
		66.5°N, 14.3°E.					
		Origin time = 15 53 54.					
		Explosion.					
"	30	Ud	iP		18 17 57.2		

1974							
Jan.	31	Ud	iPKPl		05 40 26.5		
		De	iPKPl		05 40 37.2		
"	31	Up	iP		07 15 28.9		
			ipP		07 15 39.2		
					micr	sec	
			P	Z'	0.1	1.3	
			pP	Z'	0.2	1.0	
			Mx	E	3.6	12	
			Mx	N	4.2	16	
			Mx	Z	7.0	15	
		Ki	iP		07 14 56.8		
			ipP		07 15 08.7		
					micr	sec	
			P	Z'	0.1	1.0	
			pP	Z'	0.1	1.0	
			Mx	E	9.6	15	
			Mx	N	8.8	18	
			Mx	Z	7.4	15	
		Sk	eP		07 15 29		
			ipP		07 15 39.5		
		Um	iP		07 15 09.4		
			i		07 15 15.3		
			ipP		07 15 21.3		
		Ud	iP		07 15 38.0		
			ipP		07 15 49.1		
		De	iP		07 15 51.7		
			ipP		07 16 01.4		
		Japan.					
		h = 40 km (Up,Ki,Sk,Um,Ud,De)					
		m = 5.9, M = 6.2 (Up,Ki).					
"	31	Ud	iPKPl		08 49 57.3 D		
		De	iPKPl		08 50 08.0		
"	31	Up	i(P)		12 12 14.8		
"	31	Ki	iSKPl		15 30 59.7		
		Sk	iPKP		15 28 40.4		
			iSKPl		15 31 17.2		
		Um	iPKP		15 28 36.4		
			iSKPl		15 31 12.4		
		Ud	iPKP		15 28 42.5		
			iSKPl		15 31 26.8		
		De	iPKP		15 28 48.6		
		Fiji Islands (h = 580 km).					
"	31	De	i(P)		15 34 42.0		
"	31	Up	iP		20 06 22.5 C		
					micr	sec	
			P	Z'	0.3	1.0	
		Ki	iP		20 05 29.2 C		
					micr	sec	
			P	Z'	0.5	0.9	
		Sk	iP		20 05 59.3 C		

(cont.)

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

1974
Jan. 31 (cont.)

	Um	iP		20 05 56.3 C
	Ud	iP		20 06 21.9 C
	De	iP		20 06 44.7 C

Aleutian Islands (h = 35 km).
m = 6.5 (Up,Ki).

" 31	Up	iP		20 26 50.3
	Ki	iP		20 25 57.2 C
			micr	sec
		P	Z' 0.1	0.9
	Sk	iP		20 26 27.1
	Um	iP		20 26 23.8 C
	Ud	iP		20 26 49.5 C
	De	iP		20 27 11.9 C

Aleutian Islands (h = 45 km).

" 31	Up	iPKP		20 35 05.9
			micr	sec
		Mx	E 1.4	18
		Mx	N 1.8	20
		Mx	Z 1.9	20
	Ki		micr	sec
		Mx	E 1.8	20
		Mx	N 2.0	21
	Um	iPKP		20 34 58.6
	Ud	iPKP		20 35 07.4
	De	iPKP		20 35 12.7

Solomon Islands (h = 60 km).
M = 5.9 (Up,Ki).

" 31	Up	iPKP		23 48 52.1
		i		23 48 58.4
		iPP		23 50 13
		iSP		00 00 06
			micr	sec
		PKP	Z' 0.1	0.9
		Mx	E 30	21
		Mx	N 66	25
		Mx	Z 53	22
	Ki	iPKP		23 48 40.8
			micr	sec
		Mx	E 52	23
		Mx	N 51	23
		Mx	Z 21	21
	Sk	iPKP		23 48 50.9
		iPP		23 50 18.3
	Um	i(PKP)		23 48 39.0
		iPKP		23 48 45.8
		iPP		23 49 56.0
	Ud	i(PKP)		23 48 47.3
		iPKP		23 48 54.2
		iPP		23 50 25.0
	De	iPKP		23 48 59.8
		iPP		23 50 49.1

Solomon Islands (h = 35 km).
M = 7.2 (Up,Ki).

1974
Jan. 31

Ki	ePKP		23 56 39
Um	iPKP		23 56 42.4
Ud	iPKP		23 56 51.3
	i		23 57 00.7
De	iPKP		23 56 56.5
	i		23 57 04.8

Solomon Islands.
Origin time = 23 38 02.

Markus Båth
Klaus Meyer
Rutger Wahlström

September 23, 1975

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

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

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

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

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

F E B R U A R Y 1 - 28, 1974

1974 Feb.	1	Up	iP		00 05 55.1	D
					micr	sec
			P	Z'	0.4	1.4
		Ki	iP		00 07 06.0	
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		00 06 39.3	
		Um	iP		00 06 30.5	
		Ud	iP		00 06 06.4	
		De	iP		00 05 32.0	
		Turkey (h = 30 km).				
		m = 5.7 (Up,Ki).				
"	1	Um	iPKP		01 22 51.1	
		Ud	iPKP		01 23 00.3	
		De	iPKP		01 23 06.1	
		Solomon Islands (h = 50 km).				
		In the present series of				
		Solomon Islands earthquakes,				
		De at a distance of about				
		122° appears as our most				
		sensitive station.				
"	1	Ki	iP		03 27 17.9	
		Sk	iP		03 28 07.0	
		Um	iP		03 28 01.9	
"	1	Up	iPKP		03 31 19.2	
			i		03 31 24.5	
			i		03 31 29.4	
			iPKKP		03 41 58.7	
					micr	sec
			PKP	Z'	0.1	1.0
			Mx	E	47	27
			Mx	N	70	26
			Mx	Z	60	21
		(cont.)				

1974 Feb.	1	(cont.)				
		Ki	iPKP		03 31 12.5	
			iPKKP		03 42 16.9	
					micr	sec
			PKP	Z'	0.1	1.0
			Mx	E	75	20
			Mx	N	82	20
			Mx	Z	45	19
		Sk	iPKP		03 31 20.3	
			i		03 31 28.4	
		Um	i(PKP)		03 31 11.8	
			iPKP		03 31 15.6	
			iPKKP1		03 41 57.9	
		Ud	iPKP		03 31 23.8	
			iPKKP1		03 41 34.0	
		De	iPKP		03 31 28.3	
			iPKKP1		03 41 33.9	
		Solomon Islands (h = 40 km).				
		M = 7.4 (Up,Ki).				
"	1	Up	i(P)		03 45 39.4	
		Um	i(P)		03 45 21.7	
		Ud	i(P)		03 45 23.1	
"	1	Ud	iPKP		03 46 52.1	
		De	iPKP		03 46 57.8	
		Solomon Islands.				
"	1	Um	iPKP		03 50 27.5	
		De	iPKP		03 50 41.8	
		Solomon Islands.				
"	1	De	iPKP		03 51 53.0	
		Solomon Islands.				
"	1	De	iPKP		03 53 45.4	
		Solomon Islands.				

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

1974 Feb.	1	De	iPKP	03 54 53.4	
		Solomon Islands.			
"	1	De	iPKP	04 05 31.4	
		Solomon Islands.			
"	1	De	iPKP	04 30 26.7	
		Solomon Islands.			
"	1	De	iPKP	04 33 10.5	
		Solomon Islands.			
"	1	De	iPKP	04 33 42.1	
		Solomon Islands.			
"	1	Ud	iPKP	04 38 07.7	
		De	iPKP	04 38 13.6	
		Solomon Islands (h = N).			
"	1	De	iPKP	04 50 21.7	
		Solomon Islands.			
"	1	De	iPKP	05 13 34.4	
		Solomon Islands (h = N).			
"	1	De	iPKP	06 09 29.5	
		Solomon Islands.			
"	1	Um	iPKP	07 21 01.7	
		Ud	iPKP	07 20 59.3	
		De	iPKP	07 21 09.0	
		Solomon Islands (h = N).			
"	1	De	iPKP	08 17 55.4	
		Solomon Islands (h = N).			
"	1	Um	iPKP	08 30 52.9	
		Ud	iPKP	08 31 04.9	
		De	iPKP	08 31 08.4	
			i	08 31 14.6	
		Solomon Islands (h = 60 km).			
"	1	Um	iPKP	08 34 44.4	
		De	iPKP	08 34 59.8	
			i	08 35 09.3	
		Solomon Islands (h = N).			
"	1	De	iPKP	08 43 26.2	
		Solomon Islands.			
"	1	Up	iPKP	09 27 08.4	
		Um	iPKP	09 27 01.2	
		Ud	iPKP	09 27 10.6	
		De	iPKP	09 27 16.0	
		Solomon Islands (h = 50 km).			

1974 Feb.	1	De	iPKP	10 31 10.6	
		Solomon Islands (h = N).			
"	1	Ki	iPKP	11 07 21.1	
		De	iPKP	11 07 41.1	
			i	11 07 50.3	
		Solomon Islands (h = N).			
"	1	Ki	iPn	12 03 04.8	
			iSn	12 04 05.0	
			iSgl	12 04 28.4	
		Sk	iSgl	12 06 47.3	
		Um	iSn	12 04 43.3	
			iSgl	12 05 18.4	
		Ud	iSgl	12 07 49.8	
		De	i	12 09 20.1	
			iSgl	12 09 28.7	
		Northwest USSR.			
		Explosion.			
"	1	Up	iPKP	12 07 55.2	
		Tonga Islands (h = 110 km).			
"	1	Up	iP	12 13 50.8	
				micr	sec
			P Z'	0.1	0.9
		Ki	iP	12 13 49.8	
				micr	sec
			P Z'	0.2	1.0
		Sk	iP	12 14 03.4	
		Um	iP	12 13 47.4	
		Ud	iP	12 14 00.4	
		De	iP	12 13 59.5	
		Sumatra (h = 140 km).			
		m = 6.2 (Up,Ki).			
"	1	Up	i(P)	12 48 37.3	
"	1	Um	iSgl	12 57 49.4	
		Ud	iSgl	12 58 16.3	
		De	eSgl	12 58 42	
		Esthonia.			
		Explosion.			
"	1	De	iPKP	13 39 41.0	
			i	13 39 50.0	
		Solomon Islands (h = 55 km).			
"	1	Up	iP	13 59 06.6	
		Ud	eP	13 59 20	
"	1	Um	iSgl	14 09 11.8	
		Ud	iSgl	14 09 46.6	
		De	iSgl	14 10 10.9	
		Western USSR.			
		Explosion.			

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

1974 Feb.	1	Up	iP		15 15 10.2	C	
					micr		sec
			P	Z'	0.2		1.0
		Ki	iP		15 14 15.7	C	
			P	Z'	0.1		0.8
		Sk	iP		15 14 52.5		
		Um	iP		15 14 41.5		
		Ud	iP		15 15 13.4	C	
			ipP		15 15 27.9		
		De	iP		15 15 35.1	C	
			ipP		15 15 48.7		
		Kamchatka.					
		h = 50 km (Ud,De).					
		m = 6.0 (Up,Ki).					
"	1	De	iPKP		15 14 17.6		
		Solomon Islands (h = 40 km).					
"	1	De	iPKP		15 42 55.3		
		Solomon Islands (h = 50 km).					
"	1	Ud	iP		21 22 49.8		
"	1	Up	i(Sgl)		21 28 35.8		
"	1	Ud	iP		22 17 52.9		
"	1	De	iPKP		22 54 59.0		
		Solomon Islands.					
"	1	Um	iPKP		23 35 31.9		
		Ud	iPKP		23 35 42.4		
		De	iPKP		23 35 46.3		
		Solomon Islands (h = 45 km).					
"	2	De	iPKP		02 27 23.9		
		Solomon Islands (h = N).					
"	2	De	iPKP		02 38 04.6		
		Solomon Islands (h = 35 km).					
"	2	Up	iP		03 45 07.0		
		Ki	iP		03 45 34.0		
					micr		sec
			P	Z'	0.1		1.1
		Um	iP		03 45 24.4		
		De	iP		03 44 47.2		
		Azores Islands (h = N).					
"	2	Um	iP		05 17 45.8		
		Japan (h = 100 km).					
"	2	Um	iPKPl		06 20 06.3		
"	2	Sk	iP		07 20 03.8		
		Um	iP		07 20 18.5		
		Ud	eP		07 20 12		
		Mexico (h = 80 km).					

1974 Feb.	2	De	iPKP		08 17 17.8		
		Solomon Islands.					
"	2	Up	iPKP		08 46 27.1		
			iSKPl		08 49 31.6		
		Ki	iPKP		08 46 13.1		
		Sk	iPKP		08 46 23.4		
		Um	iPKP		08 46 18.2		
			iSKPl		08 49 17.9		
		Ud	i(PKP)		08 46 19.6		
			iPKP		08 46 29.2		
			iSKPl		08 49 38.5		
		De	iPKP		08 46 27.1		
			iSKPl		08 49 38.2		
		New Hebrides Islands (h = 270 km).					
"	2	Up	iPP		12 03 37.5		
			i		12 03 50.8		
					micr		sec
			Mx	E	1.3		17
			Mx	N	1.9		18
			Mx	Z	3.8		19
		Ki			micr		sec
			Mx	E	2.3		19
			Mx	N	3.2		19
			Mx	Z	2.3		18
		Um	iPP		12 03 13.7		
			iS		12 10 49		
		Ud	iPP		12 03 48.9		
			i		12 04 04.7		
		De	iPP		12 03 59.2		
			i		12 04 14.8		
		Aroe Islands (h = N).					
		M = 5.9 (Up,Ki).					
"	2	De	iPKP		15 54 14.3		
		Solomon Islands (h = N).					
"	2	Ud	iP		16 02 41.5		
"	2	Up	iP		16 05 19.1		
					micr		sec
			P	Z'	0.1		1.2
		Ki	iP		16 04 22.8		
					micr		sec
			P	Z'	0.1		1.1
		Sk	iP		16 04 49.6		
			ipP		16 05 00.7		
		Um	iP		16 04 51.9		
			ipP		16 05 03.1		
		Ud	iP		16 05 15.7		
			ipP		16 05 26.3		
		De	iP		16 05 39.9		
			ipP		16 05 51.2		
		Alaska.					
		h = 40 km (Sk,Um,Ud,De).					
		m = 5.7 (Up,Ki).					

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

1974
Feb. 2 Up iPKPl 19 54 53.2
Ud iPKPl 19 54 55.7
De iPKPl 19 55 08.8
Tonga-Kermadec Islands.

" 2 Up iP 20 09 27.7
i 20 09 43.3

		micr	sec
Mx	E	1.3	17
Mx	N	2.0	22
Mx	Z	2.4	20

Ki iP 20 09 26.2
i 20 09 39.5

		micr	sec
i	Z'	0.1	1.2
Mx	E	2.0	16
Mx	N	2.1	17
Mx	Z	2.8	20

Sk iP 20 09 40.8
iPP 20 13 34.2
Um iP 20 09 22.5
iPP 20 13 03.6
Ud iP 20 09 34.9
i 20 09 36.9
iPP 20 13 21.2
De iP 20 09 35.7
Sunda Strait (h = N).
M = 5.8 (Up,Ki).

" 2 Um iP 23 14 22.2
Japan (h = 40 km).

" 2 Um iP 23 51 22.8

" 3 Up iPKPl 03 36 22.5
Sk iPKPl 03 36 14.8
Um iPKPl 03 36 09.8
Ud iPKPl 03 36 23.9
De iPKPl 03 36 32.3
Tonga-Kermadec Islands.

" 3 Up iPKPl 04 29 44.7
Ud iPKPl 04 29 47.2
De iPKPl 04 29 57.7
Tonga-Kermadec Islands.

" 3 Ki iP 06 37 14.3
Um iP 06 36 53.3
Arabian Sea (h = N).

" 3 Ki iP 09 03 58.5
Um iP 09 03 37.0
Arabian Sea (h = N).

" 3 Up iP 10 20 54.5 D
ipP 10 21 05.0
iS 10 30 54
(cont.)

1974
Feb. 3 (cont.)
Up

		micr	sec
P	Z'	0.2	0.9
pP	Z'	0.4	1.1
Mx	E	2.2	15
Mx	N	3.1	16
Mx	Z	7.4	14

Ki iP 10 20 35.2 D
ipP 10 20 45.0

		micr	sec
P	Z'	0.2	0.9
pP	Z'	0.3	1.0
Mx	E	8.1	14
Mx	N	3.9	14
Mx	Z	6.1	13

Sk iP 10 20 59.5
ipP 10 21 09.9
Um iP 10 20 41.5 D
ipP 10 20 51.1
iS 10 30 29
Ud iP 10 21 04.7 D
ipP 10 21 14.9
De iP 10 21 11.4 D
ipP 10 21 21.5
Luzon.
h = 35 km (Up,Ki,Sk,Um,Ud, De).
m = 6.1, M = 6.1 (Up,Ki).

" 3 Sk iPKPl 10 25 47.1
Um iPKPl 10 25 40.4
Ud iPKPl 10 25 53.9
De iPKPl 10 26 05.8
Kermadec Islands.

" 3 Ud iP 15 06 01.9
De iP 15 05 42.2
Iran (h = 40 km).

" 3 Up

		micr	sec
Mx	E	1.2	20
Mx	N	1.1	20
Mx	Z	1.8	22

Ki

		micr	sec
Mx	E	2.1	18
Mx	N	1.6	17

Um iPKP 16 31 36.6
Solomon Islands (h = 45 km).
M = 5.8 (Up,Ki).

" 3 Um i(P) 18 19 06.8

" 3 Um iPP 19 04 06.6
Aroe Islands (h = N).

" 3 Up iPKP 20 41 00.1
ipPKP 20 41 12.7
(cont.)

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

1974 Feb.	3	(cont.)				
		Um	iPKP		20 40 53.1	
			ipPKP		20 41 04.6	
		Ud	iPKP		20 41 02.9	
			ipPKP		20 41 16.0	
		De	iPKP		20 41 08.1	
			ipPKP		20 41 21.0	
		Solomon Islands.				
		h = 45 km (Up,Um,Ud,De).				
"	4	Up	iP		03 34 24.0	
		Ki	iP		03 33 40.7	
		Sk	iP		03 34 16.7	
		Um	iP		03 34 00.0	C
		Ud	iP		03 34 30.8	
		De	iP		03 34 47.7	
		Japan (h = 220 km).				
"	4	Um	ePKP		09 29 13	
		Ud	ePKP		09 28 59	
		South Pacific Ocean (h = N).				
"	4	Um	i(Sgl)		10 45 23.2	
"	4	Up	iP		12 53 40.2	
"	4	Up	i(P)		14 50 09.0	
"	4	Up	iPKPl		17 13 06.9	
		Um	i(PKPl)		17 13 05.0	
		Ud	iPKPl		17 13 09.2	
"	4	Ud	iP		19 58 27.9	
"	4	Up	iPKP		20 29 24.9	
			i		20 29 34.5	
					micr	sec
			Mx	E	2.3	20
			Mx	N	3.6	20
			Mx	Z	5.1	22
		Ki	iPKP		20 29 16.5	
			i		20 29 22.7	
			iSP		20 39 30	
					micr	sec
			Mx	E	4.3	19
			Mx	N	2.8	20
			Mx	Z	3.8	20
		Sk	iPKP		20 29 28.5	
			i		20 29 36.2	
		Um	iPKP		20 29 17.0	
		Ud	iPKP		20 29 29.7	
			i		20 29 37.8	
		De	iPKP		20 29 32.8	
			i		20 29 41.9	
		Solomon Islands (h = 55 km).				
		M = 6.1 (Up,Ki).				
		(cont.)				

1974 Feb.	4	(cont.)				
		Double onsets, small and large, about 8 sec apart.				
"	4	Um	iPKP		21 17 40.1	
		Ud	iPKP		21 17 48.8	
		De	i(PKP)		21 17 45.1	
			iPKP		21 17 54.6	
		Solomon Islands (h = 55 km).				
"	4	Um	iPKP		21 43 36.6	
		De	iPKP		21 43 47.4	
		Solomon Islands (h = 55 km).				
"	4	Ud	iP		22 15 32.2	
		De	iP		22 15 20.1	
"	4	Ki	iP		23 21 24.0	
		Sk	eP		23 20 39	
		Ud	iP		23 20 05.3	
"	5	Um	i(PKP)		00 03 20.1	
			iPKP		00 03 30.5	
		Ud	iPKP		00 03 39.6	
		De	iPKP		00 03 45.2	
		Solomon Islands (h = 50 km).				
"	5	Um	iP		02 32 36.0	
		Ud	iP		02 32 10.6	
		De	iP		02 31 51.6	
		Turkey.				
"	5	Up	iP		02 35 02.7	
			ipP		02 35 19.6	
		Ki	iP		02 34 05.5	
			ipP		02 34 23.2	
		Sk	iP		02 34 33.5	
			ipP		02 34 51.3	
		Um	iP		02 34 34.1	
			ipP		02 34 52.4	
		Ud	iP		02 34 58.7	
		De	iP		02 35 24.0	
			ipP		02 35 41.4	
		Alaska.				
		h = 70 km (Up,Ki,Sk,Um,De).				
"	5	De	iP		06 46 47.9	
		Algeria (h = N).				
"	5	Sk	eSgl		12 16 33	
		Um	iSgl		12 15 09.3	
		Ud	iSgl		12 15 50.7	
		De	iSgl		12 16 15.5	
		Western USSR.				
		Explosion.				
"	5	Um	iP		12 19 35.8	

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

1974 Feb.	5	Um	iSgl	13 36 22.0	
			i	13 36 36.6	
		Esthonia.			
		Explosion.			
"	5	De	iPgl	14 38 03.7	
			iSgl	14 38 22.6	
			iRg	14 38 27.3	
"	5	Up	iP	15 10 24.2	C
		Ki	iP	15 11 30.8	
			i	15 11 45.3	
		Sk	iP	15 11 03.7	C
		Um	iP	15 10 56.6	
		Ud	iP	15 10 32.6	C
		De	iP	15 10 01.3	C
			iS	15 13 47.5	
		Dodecanese Islands			
		(h = 150 km).			
"	5	Up	iP	15 17 27.0	
		Sk	iP	15 17 39.0	
		Um	iP	15 17 36.0	
		De	iP	15 17 20.9	
"	5	Ki	iP	15 29 43.9	
		Sk	iP	15 29 47.7	
		Um	iP	15 29 05.5	
		Probably central Russia.			
"	5	Ud	iPKPl	17 15 04.0	
		Kermadec Islands (h = 310 km).			
"	5	Um	iP	18 29 08.6	
		Turkey (h = 40 km).			
"	5	Um	i(P)	21 32 01.4	
"	5	Up	iP	22 18 14.2	
		Ki	eP	22 17 58	
		Um	iP	22 18 04.3	
		Ud	iP	22 18 21.8	
		Molucca Passage (h = 110 km).			
"	5	Up	iSgl	22 35 17.8	
		Sk	eSgl	22 36 53	
		Um	iSgl	22 37 20.4	
		Ud	iSgl	22 35 02.1	
		De	iSgl	22 34 51.1	
		Västergötland, Sweden,			
		58.1°N, 14.0°E.			
		Origin time = 22 33 59.			
		Felt.			
"	6	Up	iP	03 01 52.4	
		Ki	iP	03 00 59.5	
		(cont.)			
1974 Feb.	6	(cont.)			
		Um	iP	03 01 24.4	
		Ud	iP	03 01 56.9	
		Kamchatka (h = N).			
"	6	Up	iP	04 15 00.7	
			i	04 15 10.0	
			iPP	04 17 40.6	
			iS	04 23 48	
			iP'P'	04 43 29.3	
				micr	sec
			P Z'	0.4	1.1
			i Z'	0.7	1.4
			Mx E	14	18
			Mx N	31	23
			Mx Z	26	19
		Ki	iP	04 14 06.9	
			iS	04 22 10	
			iP'P'	04 43 47.9	
				micr	sec
			P Z'	0.6	1.0
			Mx E	26	18
			Mx N	18	18
			Mx Z	18	19
		Sk	iP	04 14 36.8	
			i	04 14 44.0	
		Um	iP	04 14 34.1	
			iPP	04 17 07.4	
			iS	04 22 58	
			iP'P'	04 43 35.1	
		Ud	iP	04 14 59.2	
		De	iP	04 15 22.5	
		Unimak Island (h = 2 km).			
		m = 6.6, M = 6.5 (Up,Ki).			
"	6	Um	iP	07 03 17.4	C
		Japan (h = 70 km).			
"	6	Up	iP	08 26 42.8	
		Ki	iP	08 26 46.1	
		Sk	iP	08 26 30.1	
		Ud	iP	08 26 32.6	
		De	iP	08 26 33.8	
		Colombia (h = 160 km).			
"	6	Ki	iP	08 59 46.7	
		Kamchatka (h = N).			
"	6	Ud	iP	10 29 57.7	
		Formosa (h = 60 km).			
"	6	Um	iSgl	12 23 36.7	
		Ud	iSgl	12 24 17.7	
		Western USSR.			
		Explosion.			

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

1974 Feb.	6	Um	iSgl	12 54 13.9		
		Esthonia. Explosion.				
"	6	Ud	iP	16 17 54.4		
"	6	Up	iP	17 33 43.2	C	
				micr	sec	
			P	Z' 0.1	1.3	
		Ki	iP	17 33 51.2	C	
		Sk	iP	17 34 08.4	C	
		Um	iP	17 33 41.0	C	
		Ud	iP	17 33 59.8	C	
		De	iP	17 33 56.4		
		Afghanistan-USSR (h = 190 km).				
"	6	Sk	iP	17 48 08.6		
		Um	iP	17 48 18.1		
		Ud	iP	17 47 43.4		
		North of Ascension Island (h = N).				
"	6	Um	i(P)	18 38 28.5		
"	6	Ud	iP	19 44 30.3		
"	6	Um	iP	22 44 30.5		
		Pamir.				
"	7	Up	iPKPl	01 09 13.4		
		Sk	iPKPl	01 09 02.1		
			i	01 09 12.5		
		Um	iPKPl	01 08 55.3		
			i	01 09 03.8		
		Ud	iPKPl	01 09 13.6		
			i	01 09 19.7		
		Kermadec Islands.				
"	7	Up	iP	01 18 27.7		
		Ki	eP	01 18 34		
		Um	iP	01 18 25.1		
		Ud	iP	01 18 43.5		
		Afghanistan-USSR (h = 130 km).				
"	7	Um	eP	01 31 38		
		Ud	iP	01 31 15.5		
		South of Ascension Island (h = N).				
"	7	Ki	iP	02 12 39.9		
			i	02 12 53.6		
		Um	iP	02 13 00.9		
		Ud	iP	02 13 31.4		
		Kurile Islands.				
"	7	Um	iP	05 39 27.0		
		(cont.)				
1974 Feb.	7	(cont.)				
		Ud	iP	05 40 01.1		
		Japan (h = 50 km).				
"	7	Um	iP	08 52 08.5		
		Ud	iP	08 51 42.6		
		Turkey (h = 35 km).				
"	7	Up	iP	09 56 02.2	C	
				micr	sec	
			P	Z' 0.1	1.0	
		Ki	iP	09 55 43.9	C	
				micr	sec	
			P	Z' 0.1	1.2	
			Mx	E 1.1	20	
			Mx	N 1.2	21	
			Mx	Z 1.4	20	
		Sk	iP	09 56 07.6		
		Um	iP	09 55 48.9		
		Ud	iP	09 56 10.1	C	
		New Guinea (h = 30 km). m = 6.5 (Up,Ki).				
"	7	Um	i	12 21 07.5		
			iSgl	12 21 10.7		
		Ud	iSgl	12 21 51.9		
		De	iSgl	12 22 18.2		
		Western USSR. Explosion.				
"	7	Um	iP	12 44 33.8		
			i	12 45 03.7		
		Ud	iP	12 45 03.7		
		Japan (h = 90 km).				
"	7	Up	i	13 00 38.1		
			iSgl	13 00 45.2		
			i(Sg2)	13 00 50.4		
		Ki	iSgl	13 03 20.6		
		Sk	iSgl	13 02 38.9		
		Um	iSgl	13 01 19.3		
		Ud	iSgl	13 01 50.4		
		Esthonia. Explosion.				
"	7	Up	iP	16 00 02.5	D	
		Ki	iP	15 59 30.9	D	
		Sk	iP	15 59 59.5		
		Um	iP	15 59 44.2		
		Ud	iP	16 00 10.0		
		De	iP	16 00 21.7		
		Bonin Islands (h = 440 km).				
"	7	Ki	iP	16 35 37.3		
			ipP	16 35 55.1		
		Ud	iP	16 36 02.1		
		(cont.)				

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

1974 Feb.	7	(cont.)			
		Ud	ipP	16 36 19.8	
		Talaud Islands.			
		h = 60 km (Ki,Ud).			
"	7	Up	iP	18 22 11.0	
		Um	iP	18 21 57.0	
		Ud	iP	18 22 21.1	
"	7	Up	iP	19 14 46.6	
		Ki	iP	19 13 54.8	
		Um	iP	19 14 19.1	
		Ud	iP	19 14 51.2	
		Kurile Islands (h = 45 km).			
"	7	Um	iP	19 38 46.8	
		De	iP	19 38 21.0	
"	7	Ud	iPKP1	20 31 37.6	
		De	iPKP1	20 31 50.2	
"	8	Ki	iPn	10 08 28.2	
			iPg1	10 08 36.5	
			iSn	10 09 14.5	
			iSg1	10 09 27.4	
		Sk	iSg1	10 12 11.9	
		Um	iSn	10 10 24.2	
			iSg1	10 11 01.3	
		Northwest USSR-Norway.			
		Explosion.			
"	8	Um	iSg1	10 42 05.6	
		Lake Ladoga.			
		Explosion.			
"	8	Ud	iP	12 11 19.6	
		Kurile Islands (h = 60 km).			
"	8	Ki	iPn	12 57 04.2	
			i	12 57 46.6	
			eSn	12 58 03	
			iSg1	12 58 22.7	
		Sk	eSg1	13 00 50	
		Um	iSg1	12 59 14.5	
		Northwest USSR.			
		Explosion.			
"	8	De	iPKP1	13 44 27.2	
		Fiji Islands (h = 610 km).			
"	8	Up	iP	14 32 05.8 C	
				micr sec	
			P Z'	0.2 0.9	
		Ki	iP	14 31 11.5 C	
				micr sec	
			P Z'	0.3 0.9	
		Sk	iP	14 31 47.2 C	
		(cont.)			

1974 Feb.	8	(cont.)			
		Um	iP	14 31 37.2 C	
		Ud	iP	14 32 08.4 C	
		De	iP	14 32 30.6	
		Komandorsky Islands (h = N).			
		m = 6.3 (Up,Ki).			
"	8	Ki	iPKP	18 43 46.0	
		Um	i(PKP)	18 43 46.1	
			iPKP	18 43 54.0	
		Ud	iPKP	18 44 02.9	
		Loyalty Islands (h = N).			
"	8	Um	iP	20 34 31.9	
			iPcP	20 34 54.4	
		Japan (h = 50 km).			
"	8	Um	iP	22 08 29.9	
"	8	Um	iPKP	22 28 10.2	
		New Hebrides Islands			
		(h = 35 km).			
"	9	Up	Mx	01 07	
				micr sec	
			Mx E	1.4 18	
			Mx Z	1.9 18	
		Ki	Mx	01 06	
				micr sec	
			Mx N	1.0 16	
		South Pacific Ocean (h = N).			
		M = 6.0 (Up,Ki).			
"	9	Ud	iP	03 43 18.3	
		Molucca Passage (h = N).			
"	9	Ki	iP	04 16 20.6	
		Um	iP	04 16 06.8	
		Ud	iP	04 16 21.1	
		De	iP	04 16 13.4	
		Pakistan (h = N).			
"	9	Ud	iP	04 36 12.7	
"	9	Um	iP	05 03 07.3	
"	9	Up	iPKP1	07 29 55.6	
		Sk	iPKP1	07 29 48.3	
		Um	iPKP1	07 29 43.4	
		Ud	iPKP1	07 29 59.2	
		De	iPKP1	07 30 07.9	
		Kermadec Islands (h = 100 km).			
"	9	Up	i	08 09 53.5	
			iSg1	08 09 57.1	
		Sk	iSg1	08 10 59.9	
		Um	iSg1	08 10 39.7	
		(cont.)			

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

1974
Feb. 9 (cont.)
Ud iPgl 08 09 46.3
iSgl 08 10 13.1
Gästrikland-Hälsingland, Sweden, 61.2°N, 17.3°E.
Origin time = 08 09 12.

" 9 Up iP 08 40 30.7
Ki iP 08 40 12.8 D
micr sec
P Z' 0.2 1.0
Sk iP 08 40 36.9
Um iP 08 40 18.5 D
Ud iP 08 40 40.3 D
De iP 08 40 46.7
Luzon (h = 70 km).

" 9 Um iP 10 04 56.3

" 9 Ki iSn 12 49 30.9
i 12 49 42.7
Northwest USSR.
Explosion.

" 9 Um i(P) 15 19 27.1

" 9 Ud iP 17 16 29.9
Formosa (h = 60 km).

" 9 Up iP 18 32 51.5
Um iP 18 32 24.0
Ud iP 18 32 55.5
Kurile Islands (h = 55 km).

" 9 Um iP 18 48 36.9
Guatemala (h = 110 km).

" 10 De iPKP 02 34 09.3
Solomon Islands (h = 40 km).

" 10 Um iP 04 15 56.8
Ud iP 04 15 26.1
Northeast of Ascension Island (h = N).

" 10 Up iP 09 03 06.0
micr sec
P Z' 0.2 1.2
Ki iP 09 02 29.6
micr sec
P Z' 0.1 0.8
Sk iP 09 03 02.5
Um iP 09 02 45.1 D
Ud iP 09 03 13.9
De iP 09 03 28.1
Japan (h = 55 km).
m = 5.9 (Up,Ki).

1974
Feb. 10 Um iSgl 14 17 44.0
Ud iSgl 14 18 40.2

" 10 Ud iP 16 38 04.1
Pamir.

" 10 Up iP 16 39 47.7
Um iP 16 40 16.7
Ud iP 16 39 55.4
Zaire (h = N).

" 10 Ud iP 18 13 50.4

" 10 Ud iP 21 36 18.9
De iP 21 36 40.9
Aleutian Islands (h = N).

" 10 Um iP 21 42 52.1

" 10 Up iP 22 15 52.9
Ki iP 22 14 58.4
Sk iP 22 15 26.0
Um iP 22 15 27.4
Ud iP 22 15 50.7
De iP 22 16 17.4
Alaska (h = 60 km).

" 11 Up iP 00 24 13.6 C
Ki iP 00 23 55.1
Sk iP 00 24 17.6
Um iP 00 24 02.1
Ud iP 00 24 22.0 C
Mindanao (h = N).

" 11 Up iP 01 54 00.0
ipP 01 54 15.5
iPP 01 57 36.3
i 01 57 58.7
micr sec
P Z' 0.1 0.9
Ki iP 01 53 58.9 C
ipP 01 54 12.9
micr sec
P Z' 0.1 1.0
Sk iP 01 54 11.3
Um iP 01 53 56.7 C
ipP 01 54 11.0
Ud iP 01 54 09.3 C
ipP 01 54 24.6
i(PP) 01 57 41.0
Sunda Strait.
h = 55 km (Up,Ki,Um,Ud).
m = 6.2 (Up,Ki).

" 11 Um iP 03 55 33.0
Aleutian Islands (h = 80 km).

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

1974 Feb.	11	Um	iP	05 23 46.4	
		Ud	iP	05 24 11.5	
"	11	Up	iP	05 48 53.7	
		Um	iP	05 48 30.3	C
		Ud	iP	05 49 01.5	
		Japan (h = 110 km).			
"	11	Um	i(P)	08 29 34.6	
"	11	Um	iPKP1	09 11 50.8	
		Ud	iPKP1	09 12 01.9	
"	11	Up	iP	14 22 01.1	
		Ki	iP	14 22 04.5	
			ipP	14 22 15.2	
		Um	iP	14 21 58.3	
			ipP	14 22 09.5	
		Ud	iP	14 22 12.7	C
			ipP	14 22 23.1	
		Nicobar Islands.			
		h = 40 km (Ki,Um,Ud).			
"	11	Up	iP	17 12 48.7	
		Ki	iP	17 12 01.1	
		Sk	eP	17 12 36	
		Um	iP	17 12 23.3	
		Ud	iP	17 12 54.1	
		Kurile Islands.			
"	11	Up	iP	17 15 35.4	
		Ki	iP	17 16 03.2	
		Arabian Sea (h = N).			
"	11	Up	iP	21 57 59.0	
			ipP	21 58 09.3	
		Um	iP	21 57 41.5	
			ipP	21 57 53.2	
		Mariana Islands.			
		h = 40 km (Up,Um).			
"	12	Ki	iP	01 38 32.0	
		Um	iP	01 38 50.8	
		Japan (h = 180 km).			
"	12	Ki	iP	01 53 51.3	
		Ud	iP	01 54 21.3	
"	12	Up	iP	02 47 34.4	
		Ki	iP	02 47 05.5	
		Um	iP	02 47 17.9	
		Ud	iP	02 47 40.8	
		Mariana Islands (h = 290 km).			
"	12	Up	iP	10 00 10.6	
			ipP	10 00 31.2	
		(cont.)			

1974 Feb.	12	(cont.)			
		Up		micr	sec
			P	Z' 0.3	0.7
		Ki	iP	09 59 54.1	C
			ipP	10 00 14.2	
				micr	sec
			P	Z' 0.2	0.8
		Sk	iP	10 00 17.0	
		Um	iP	09 59 59.7	C
		Ud	iP	10 00 20.4	C
			ipP	10 00 41.1	
		De	iP	10 00 26.1	
		Mindoro.			
		h = 80 km (Up,Ki,Ud).			
		m = 6.3 (Up,Ki).			
"	12	Up	iSgl	14 30 04.4	
		De	iPgl	14 28 10.2	
			i	14 28 11.7	
			iSgl	14 28 26.1	
		Baltic Sea, south of Sweden,			
		55.7°N, 15.3°E.			
		Origin time = 14 27 50.			
		Explosion.			
"	13	Ud	iPKP1	00 32 58.2	
		De	iPKP1	00 33 10.4	
			i	00 33 21.8	
		Tonga Islands (h = N).			
"	13	Ud	iSgl	04 22 10.3	
"	13	Um	iSgl	12 13 30.3	
		Ud	iSgl	12 14 19.1	
		De	iSgl	12 14 41.2	
		Western USSR.			
		Explosion.			
"	13	Up	iSgl	12 45 01.2	
		Um	iSgl	12 45 35.3	
		Esthonia.			
		Explosion.			
"	13	Up	iSn	17 10 06.7	
			iSgl	17 10 20.0	
		Um	iSgl	17 10 52.8	
		Ud	iSgl	17 11 21.8	
		De	eSgl	17 11 46	
		Esthonia.			
		Explosion.			
"	13	Up	iP	21 33 56.5	
		Um	iP	21 33 32.4	
		Ud	iP	21 34 01.2	
		De	iP	21 34 19.8	
		Japan (h = 70 km).			

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

1974							
Feb.	13	Up	iP		23	51	27.3
			i(PP)		23	55	15.2
			iPP		23	55	23.5
					micr		sec
			PP	Z'	0.1		0.9
		Ki	iP		23	51	13.2 C
					micr		sec
			P	Z'	0.1		1.0
		Sk	iP		23	51	34.0
		Um	iP		23	51	17.4 C
			iPP		23	55	01.7
		Ud	iP		23	51	34.9
			i(PP)		23	55	29.4
		De	iP		23	51	39.9 C
			i		23	52	12.3
			iPP		23	55	48.2
		Celebes (h = 10 km).					
		m = 6.2 (Up,Ki).					
"	14	Up	iPKP1		02	26	33.5
		Um	iPKP1		02	26	21.9
		Ud	iPKP1		02	26	35.8
		De	iPKP1		02	26	46.6
		Tonga-Kermadec Islands.					
"	14	Up	iP		02	49	13.4
		Ud	iP		02	49	13.0
"	14	Um	iP		03	17	08.7
		Ud	eP		03	17	31
"	14	Up	iP		06	50	31.9 C
					micr		sec
			P	Z'	0.1		1.0
		Ki	iP		06	50	30.7
		Sk	iP		06	50	46.0
		Um	iP		06	50	27.7
		Ud	iP		06	50	42.1 C
		De	iP		06	50	40.9 C
		Sumatra (h = 35 km).					
"	14	Up	iP		06	51	22.7
					micr		sec
			P	Z'	0.1		1.1
		Ki	iP		06	51	22.6
					micr		sec
			P	Z'	0.1		1.2
		Sk	iP		06	51	37.7
		Um	iP		06	51	19.0
		Ud	iP		06	51	33.6
		De	iP		06	51	32.7
		Sumatra.					
		Origin time = 06 38 58.					
		m = 6.0 (Up,Ki).					
"	14	Um	iP		07	45	30.8

1974							
Feb.	14	Um	iP		08	01	10.5
		Haiti (h = 7 km).					
"	14	Up	eP		08	31	26
		Ki	iP		08	32	00.3
		Um	iP		08	31	40.0
		Indian Ocean (h = N).					
"	14	Um	iPKP1		10	13	36.4
"	14	Up	i(P)		10	42	16.5
			i		10	46	08.3
			iLg2		10	47	26.2
		Ki	iP		10	40	20.1
			iPP		10	40	28.0
			iS		10	41	59.5
		Sk	e		10	41	39
			i		10	45	46.5
		Um	iP		10	41	18.4
			iS		10	43	28.8
		Ud	iP		10	42	09.7
			i		10	46	34.8
			iLg2		10	47	33.4
		De	iP		10	42	51.6
		Svalbard.					
"	14	Up	iP		12	10	51.9
					micr		sec
			P	Z'	0.1		1.1
		Ki	iP		12	11	14.3
		Sk	iP		12	10	42.3
		Um	iP		12	11	06.3
		Ud	iP		12	10	38.6
		De	iP		12	10	32.9
		North Atlantic Ocean (h = N).					
"	14	Sk	iSg1		13	45	40.7
		Um	iSg1		13	43	52.1
		Lake Ladoga.					
		Explosion.					
"	14	Um	iSg1		14	05	30.1
		Western USSR.					
		Explosion.					
"	14	Up	iP		14	56	25.3
			iPP		14	56	36.0
		Ki	iP		14	55	05.6
			iSS		14	56	45.3
		Sk	iP		14	55	27.2 C
			iS		14	57	07.7
		Um	iP		14	55	46.7
		Ud	iP		14	56	15.3
		Norwegian Sea (h = N).					
"	14	Up	iS*		19	25	27.6
			iSg1		19	25	34.0
		(cont.)					

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

1974 Feb.	14	(cont.)			
		Ki	ePgl		19 22 53
			iSgl		19 23 29.5
					micr sec
			Sgl	Z'	0.1 0.5
		Sk	iPgl		19 22 55.6
			iSgl		19 23 35.9
		Um	iPgl		19 23 08.2
			iSn		19 23 42.7
			iSgl		19 23 57.2
		Ud	iSgl		19 25 23.4
		De	iSgl		19 27 16.9
		Nordland, Norway, 66.4°N, 14.3°E. Origin time = 19 22 04. Explosion.			
"	14	Um	iP		19 51 20.4
"	15	Um	iP		03 01 41.7
"	15	Up	ipP		04 03 54.9
		Ki	eP		04 03 26
			ipP		04 03 36.6
		Sk	ipP		04 04 02.8
		Um	iP		04 03 34.2
			ipP		04 03 45.0
		Ud	iP		04 03 57.4
			ipP		04 04 08.1
		Luzon-Formosa. h = 40 km (Ki,Um,Ud).			
"	15	Ki	iP		06 15 03.8
		Um	iP		06 15 33.2
		Alaska (h = 130 km).			
"	15	Up	iP		07 05 53.7
		Sk	iP		07 06 06.1
		De	iP		07 06 11.3
"	15	Ud	iP		07 39 25.9
		Iran.			
"	15	Up	iP		08 35 40.4
		Um	iP		08 35 27.3
		Ud	iP		08 35 54.6
		Ryukyu Islands (h = 45 km).			
"	15	Up	iSgl		11 16 05.3
		Ki	iPn		11 11 49.6
			iSn		11 12 51.3
			iSgl		11 13 14.2
		Sk	iSgl		11 15 38.9
		Um	iSgl		11 14 03.2
		Ud	iSgl		11 16 35.2
		De	iSgl		11 18 06.8
		Northwest USSR. Explosion.			

1974 Feb.	15	Sk	eSgl		13 00 43
		Um	i		12 58 32.7
			iSgl		12 59 13.0
		Ud	iSgl		12 59 56.5
		De	eSgl		13 00 21
		Western USSR. Explosion.			
"	15	Sk	iP		13 19 39.5
		Greece.			
"	15	Um	iSgl		13 29 24.7
		Ud	iSgl		13 30 05.8
		De	iSgl		13 30 31.7
		Western USSR. Explosion.			
"	15	Um	iSgl		14 53 05.7
		Lake Ladoga. Explosion.			
"	15	Ud	iP		22 04 37.0
"	15	Ud	iPKPl		23 33 30.5
		De	iPKPl		23 33 42.7
		Tonga-Kermadec Islands (h = 580 km).			
"	15	Ud	iP		23 49 24.9
"	16	Up	iP		00 40 38.1
		Ki	iP		00 40 22.8
		Sk	iP		00 40 36.8
		Um	iP		00 40 27.0
		Ud	iP		00 40 46.1
		Banda Sea (h = N).			
"	16	Um	iP		01 57 29.1
"	16	Up	iP		02 02 35.6 C
			ipP		02 02 42.7
			iS		02 11 56
					micr sec
			P	Z'	0.2 1.4
		Ki	iP		02 02 37.1 C
					micr sec
			P	Z'	0.2 1.2
		Sk	iP		02 02 54.2
		Um	iP		02 02 32.2 C
			ipP		02 02 39.6
			iS		02 11 52
		Ud	iP		02 02 47.7 C
			ipP		02 02 54.7
		De	iP		02 02 45.4 C
		Andaman Islands. h = 25 km (Up,Um,Ud). m = 6.1 (Up,Ki).			

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

1974
Feb. 16 Up iP 02 05 10.9
ipP 02 05 16.2
iS 02 14 29
micr sec
P Z' 0.2 1.0
Mx E 2.8 15
Mx N 8.6 18
Mx Z 4.8 18
Ki iP 02 05 11.8
ipP 02 05 18.6
iS 02 14 36
micr sec
P Z' 0.2 1.0
pP Z' 0.2 1.1
Mx E 7.6 17
Mx N 19 19
Mx Z 6.1 18
Sk iP 02 05 27.9
ipP 02 05 35.1
Um iP 02 05 07.1 C
ipP 02 05 13.9
iS 02 14 23
Ud iP 02 05 22.4 C
ipP 02 05 28.9
De iP 02 05 20.2 C
ipP 02 05 26.8
Andaman Islands.
h = 25 km (Up,Ki,Sk,Um,Ud, De).
m = 6.2, M = 6.1 (Up,Ki).

" 16 Up iP 02 15 40.8
Ki iP 02 15 41.8
Um iP 02 15 37.3
Ud iP 02 15 49.6
Andaman Islands.
Origin time = 02 04 17.

" 16 Up iP 02 25 47.9 C
ipP 02 25 54.4
Ki iP 02 25 48.6
Um iP 02 25 44.4
ipP 02 25 51.1
Ud iP 02 25 59.6
De iP 02 25 58.6
Andaman Islands.
h = 25 km (Up,Um).

" 16 Up iP 04 22 16.4
Ud iP 04 22 43.5

" 16 Um iP 04 52 27.0
Ud iP 04 52 51.9

" 16 Up iPKP1 05 58 46.5
iPKP2 05 58 53.3
(cont.)

1974
Feb. 16 (cont.)
Up i 05 59 18.5
ipPKP1 06 00 47.5
iPP 06 02 21.0
micr sec
PKP1 Z' 0.2 0.9
PKP2 Z' 0.4 1.0
Ki iPKP1 05 58 25.5
Sk iPKP1 05 58 40.8
ipPKP1 06 00 42.7
Um iPKP1 05 58 34.9
ipPKP1 06 00 34.6
Ud iPKP1 05 58 48.4
iPKP2 05 58 57.1
ipPKP1 06 00 47.0
De iPKP1 05 58 56.3
iPKP2 05 59 09.8
i 05 59 31.7
ipPKP1 06 00 57.6
Kermadec Islands.
h = 530 km (Up,Sk,Um,Ud,De).

" 16 Um iP 06 15 02.0
Ud iP 06 15 12.7
Iran.

" 16 Up iPn 07 31 59.9
Ki i(Pn) 07 32 27.4
Ud iP 07 32 07.2
i(Pn) 07 32 14.7
Caspian Sea.

" 16 Um i(P) 07 37 45.5

" 16 Um iSgl 09 50 01.2
Lake Ladoga.
Explosion.

" 16 Ki iPn 15 15 17.1
iSn 15 16 06.5
iSgl 15 16 20.8
Um iSgl 15 17 51.2
Northwest USSR-Norway.
Explosion.

" 16 Up iP 16 21 26.3
micr sec
P Z' 0.1 1.0
Ki iP 16 21 04.6
Sk iP 16 21 34.1
Um iP 16 21 11.6
Ud iP 16 21 36.2
De iP 16 21 43.9
Formosa (h = 120 km).

" 16 Um iP 19 04 22.1
Japan.
Intermediate depth.

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

1974 Feb.	17	Um	i(P)		02 05 42.8	
"	17	Up	iP		04 46 13.1	
			isP		04 46 33.1	
					micr	sec
			P	Z'	0.1	0.9
			sP	Z'	0.1	1.2
		Ki	iP		04 45 45.2	
			isP		04 46 04.1	
					micr	sec
			P	Z'	0.1	1.0
			sP	Z'	0.2	0.9
		Sk	iP		04 46 10.4	
			isP		04 46 30.4	
		Um	iP		04 45 57.4	
			ipP		04 46 11.9	
		Ud	iP		04 46 19.3	
		De	iP		04 46 30.6	
			isP		04 46 51.7	
		Mariana Islands.				
		h = 55 km (Up,Ki,Sk,Um,De).				
		m = 6.0 (Up,Ki).				
		sP is here in general more pronounced than pP.				
"	17	Up	iP		05 07 59.9	
			i		05 08 07.0	
		Sk	iP		05 08 39.8	
		Um	iP		05 08 38.9	
		Ud	iP		05 08 06.8	
		De	iP		05 07 30.5	
		Greece (h = N).				
"	17	Up	iP		06 18 41.6	
		Ud	iP		06 18 55.3	
"	17	Up	i(P)		07 16 40.6	
"	17	Ud	iP		07 24 00.0	
"	17	Ki	iP		08 44 14.8	
		Kurile Islands (h = 60 km).				
"	17	Up	iP		11 43 16.0	
		Ud	iP		11 43 24.3	
		Ionian Sea (h = 8 km).				
"	17	Ud	iP		12 04 45.4	
		Ionian Sea.				
"	17	Up	iP		12 20 11.8	
		Um	iP		12 21 03.2	
		Ud	iP		12 20 18.1	
		De	iP		12 19 43.3	
		Ionian Sea.				
"	17	Um	i(P)		15 11 30.4	
		Ud	i(P)		15 11 09.7	
1974 Feb.	17	Ud	iP		15 40 19.2	
"	17	Um	iP		19 14 43.2	
		Ud	iP		19 15 09.1	
		Formosa (h = 80 km).				
"	17	Up	iP		21 30 42.6	
		Ki	iP		21 29 49.2	
		Sk	iP		21 30 18.7	
		Um	iP		21 30 16.3	
		Ud	iP		21 30 41.2	
		De	iP		21 31 04.2	
		Unimak Island (h = N).				
"	18	Ud	iP		02 03 25.3	
		Tien-Shan.				
"	18	Um	iPKPl		06 31 53.0	
"	18	Ud	iPKPl		09 10 58.0	
		De	iPKPl		09 11 08.8	
"	18	Um	iP		10 10 41.9	
		Lake Tanganyika (h = 5 km).				
"	18	Up	iSgl		11 26 11.4	
		Ud	iSgl		11 25 43.1	
		De	iSgl		11 26 02.5	
		Västergötland, Sweden, 58.6°N, 13.5°E.				
		Origin time = 11 24 56.				
"	18	Um	iSgl		11 35 26.4	
		De	iSgl		11 36 35.6	
		Probably western USSR. Explosion.				
"	18	Um	iSgl		12 59 22.8	
"	18	Ki	iSgl		13 14 26.9	
		Sk	iSgl		13 13 46.4	
		Um	iSgl		13 12 28.4	
		Ud	iSn		13 12 30.6	
			iSgl		13 13 00.0	
		De	iSgl		13 13 28.0	
		Western USSR. Explosion.				
"	18	Up	i		13 38 10.6	
			i		13 38 22.1	
			i(Sgl)		13 38 24.2	
"	18	Up	iP		13 44 49.0	
		Um	iP		13 44 14.6	
		Ud	iP		13 44 49.0	
		Aleutian Islands (h = 140 km).				

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

1974 Feb.	18	Um	iP		18 29 44.4	
		Ud	iP		18 29 40.6	
		Turkey (h = 20 km).				
"	18	Up	eP		21 12 32	
		Ki	eP		21 11 57	
					micr	sec
			Mx	E	2.0	19
			Mx	N	1.4	20
		Um	iP		21 12 16.0	
		Ud	iP		21 12 46.1	C
		Japan (h = N).				
"	18	Um	iP		21 18 33.4	
		Ud	iP		21 19 00.8	
		Celebes Sea (h = 360 km).				
"	19	Up	iPP		01 42 31.0	
		Ki	ePP		01 42 02	
			i		01 42 08.3	
		Um	iPP		01 42 07.6	
		Ud	iP		01 38 09.0	
			iPP		01 42 37.1	
		De	i(PP)		01 42 30.0	
		Timor (h = N).				
"	19	Up	iP		02 14 16.3	
		Ki	iP		02 13 32.7	
		Sk	eP		02 14 15	
		Um	iP		02 13 51.7	
		Ud	iP		02 14 29.3	
		Lake Baikal region.				
"	19	Up	iP		03 42 58.1	
			ipP		03 43 04.1	
			i		03 45 31.6	
			iPP		03 46 14.5	
			iS		03 53 19	
					micr	sec
			P	Z'	1.2	2.1
			pP	Z'	1.1	1.6
			Mx	E	12	22
			Mx	N	38	21
			Mx	Z	17	19
		Ki	iP		03 42 38.9	
			ipP		03 42 45.8	
			iPP		03 45 56.3	
					micr	sec
			P	Z'	0.9	2.0
			pP	Z'	0.7	1.6
			Mx	E	25	23
			Mx	N	43	23
			Mx	Z	22	23
		Sk	iP		03 43 04.5	
			ipP		03 43 09.2	
			iPP		03 46 32.0	
		Um	iP		03 42 44.7	
		(cont.)				
1974 Feb.	19	(cont.)				
		Um	ipP		03 42 51.8	
			iS		03 53 01	
		Ud	iP		03 43 06.0	
			ipP		03 43 13.0	
		De	ipP		03 43 18.3	
		Luzon.				
		h = 25 km (Up,Ki,Sk,Um,Ud).				
		m = 6.7, M = 6.6 (Up,Ki).				
"	19	Up	iP		04 16 41.7	
			iPP		04 18 12.7	
		Ki	iP		04 16 51.1	
		Sk	iP		04 17 07.6	
		Um	iP		04 16 40.2	
			iPP		04 18 20.6	
		Ud	iP		04 16 58.5	
			iPP		04 18 35.8	
		De	iP		04 16 55.3	
		Hindu Kush (h = 90 km).				
"	19	Um	iP		07 58 36.8	
		Ud	iP		07 58 55.0	
		De	iP		07 58 53.5	
		Hindu Kush.				
		Intermediate depth.				
"	19	Sk	eSgl		09 53 23	
		Ud	iSgl		09 53 18.2	
		West coast of Norway,				
		60.6°N, 4.6°E.				
		Origin time = 09 50 54.				
		By combination with Bergen				
		and Kongsberg readings.				
"	19	Up	iSgl		10 56 24.4	
		Sk	iSgl		10 58 12.3	
		Um	i		10 56 28.0	
			iSgl		10 56 45.2	
		Ud	iSgl		10 57 26.5	
			i		10 57 34.8	
		Western USSR.				
		Explosion.				
"	19	Sk	iPgl		11 53 34.1	
			i		11 53 40.8	
			iSg2		11 53 45.2	
		Um	iSgl		11 55 26.2	
			iSg2		11 55 31.5	
		Ud	iSgl		11 54 45.2	
		Norway-Sweden border region,				
		near 67 3/4°N, 16 1/2°E.				
		Origin time = 11 53 20.				
"	19	Um	iSgl		12 12 46.4	
		Western USSR.				
		Explosion.				

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

1974 Feb.	19	Um	i	12 42 00.3	
			iSgl	12 42 07.3	
		Western USSR.			
		Explosion.			
"	19	Up	iSgl	13 01 18.9	
		Ki	iSgl	13 04 10.9	
		Sk	iSgl	13 03 15.3	
		Um	iSgl	13 02 07.7	
		Ud	iSgl	13 02 24.4	
		De	iSgl	13 02 47.1	
		Esthonia.			
		Explosion.			
"	19	Um	i(P)	13 19 12.2	
"	19	Um	iSgl	14 02 49.8	
		Lake Ladoga.			
		Explosion.			
"	19	Ud	i(P)	14 06 30.7	
"	19	Up	i(P)	14 39 49.5	
"	19	Up	iP	19 47 53.6	
		Um	iP	19 47 39.4 C	
		Ud	iP	19 48 00.7 C	
		Luzon (h = 45 km).			
"	19	Up	iP	20 35 46.3	
"	19	Up	iP	21 37 33.2	
		Ki	iP	21 37 42.2	
		Um	iP	21 37 29.6	
		Ud	iP	21 37 49.9	
		De	eP	21 37 46	
		Afghanistan-USSR (h = N).			
"	19	Ki	iP	22 07 33.8	
		Um	iP	22 07 59.9	
"	19	Up	iP	23 01 08.3	
		Ud	iP	23 01 09.3	
		Greece.			
"	19	Up	iP	23 47 06.6	
			ipP	23 47 24.6	
		Ki	ipP	23 48 31.2	
		Um	ipP	23 48 02.7	
		Ud	iP	23 47 14.4	
			ipP	23 47 34.6	
		De	iP	23 46 40.0	
			ipP	23 47 00.3	
		Greece.			
		h = 100 km (Up,Ud,De).			
"	20	Long-period microseisms (periods around 16-18 sec), especially clear on Um LP N.			
1974 Feb.	20	Ud	iPKP1	00 55 54.1	
			iPKP2	00 56 01.7	
		De	iPKP1	00 56 04.6	
		Tonga Islands (h = 60 km).			
"	20	Um	i(P)	02 38 20.1	
"	20	Ki	iPKP	03 21 25.5	
			iPKKP1	03 31 50.2	
		Um	iPKP	03 21 23.1 C	
			iPKKP1	03 31 54.1	
		Ud	iPKP	03 21 14.5	
			iPKKP2	03 32 16.3	
		De	iPKKP2	03 32 12.5	
		Argentina (h = 120 km).			
"	20	Um	iSgl	05 53 09.0	
		Ud	eSgl	05 53 35	
"	20	Ki	ePgl	07 03 52	
			i	07 04 10.2	
			iSgl	07 04 11.7	
		Origin time = 07 03 27.			
"	20	Ud	iP	08 25 08.4	
"	20	Up	eP	11 50 29	
			iPP	11 52 02.9	
		Ki	iP	11 50 30.8	
			ipP	11 50 37.5	
		Sk	iP	11 50 52.7	
			ipP	11 50 59.9	
			i	11 53 12.4	
		Um	iP	11 50 23.6	
			ipP	11 50 30.2	
		Ud	iP	11 50 46.2	
			ipP	11 50 52.8	
		De	iP	11 50 45.8	
			ipP	11 50 53.6	
		Kirghiz SSR.			
		h = 35 km (Ki,Sk,Um,Ud,De).			
"	20	Up	iSgl	12 29 35.7	
		Um	iSgl	12 30 03.6	
		Ud	iSgl	12 30 40.6	
		De	iSgl	12 31 03.6	
		Western USSR.			
		Explosion.			
"	20	Um	iSgl	12 35 23.5	
		Ud	iSgl	12 36 08.1	
		De	eS*	12 36 24	
			iSg2	12 36 41.9	
		Western USSR.			
		Explosion.			
"	20	Ki	iPgl	13 39 07.7	
			iSn	13 39 44.5	
		(cont.)			

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

1974 Feb.	20	(cont.)			
		Ki	iSgl	13 39 58.3	
		Um	iSn	13 40 26.1	
			i	13 40 42.1	
			iSgl	13 40 54.0	
		Probably northwest USSR.			
		Explosion.			
"	20	Ki	iP	16 22 53.2	
		Sk	iP	16 22 35.5	
			ipP	16 22 42.8	
		Um	iP	16 22 55.3	
			ipP	16 23 00.6	
		Ud	iP	16 22 39.3	
			ipP	16 22 45.2	
		Haiti.			
		h = 20 km (Sk,Um,Ud).			
"	21	Ki	iP	00 25 09.9	
		Um	iP	00 24 52.3	
		Atlantic Ocean (h = N).			
"	21	Ud	iPKPl	01 05 39.3	
		De	iPKPl	01 05 50.9	
"	21	Ki	iPKP	05 49 03.4	
		South Sandwich Islands			
		(h = 90 km).			
"	21	Um	iP	08 21 12.8	
		Mariana Islands (h = 45 km).			
"	21	Ki	iP	10 47 56.7	
		Mariana Islands (h = 170 km).			
"	21	Um	iSgl	12 11 58.6	
		Ud	iSgl	12 12 37.7	
		Western USSR.			
		Explosion.			
"	21	Um	iSgl	12 29 51.1	
		Western USSR.			
		Explosion.			
"	21	Ud	iP	12 56 18.7	
		Colombia (h = 70 km).			
"	21	Ud	iP	13 26 30.1	
"	21	Up	i(P)	13 59 40.2	
"	21	Um	iPKPl	14 12 42.6	
		Ud	iPKPl	14 12 56.4	
"	21	Um	iPP	17 39 23.4	
		Banda Sea (h = 170 km).			
"	21	Ki	iP	19 00 40.6	
		(cont.)			

1974 Feb.	21	(cont.)			
		Ki	i	19 00 52.9	
		Um	iP	19 00 47.1	
		Ud	iP	19 01 07.3	
		Samar (h = N).			
"	22	Up	iP	00 35 49.8	
		Ud	iP	00 36 16.2	
		Turkmen SSR.			
"	22	Up	iP	00 47 52.2	
			i	00 47 54.3	
			ipP	00 49 20.5	
			iS	00 56 54	
			isS	00 59 27	
				micr	sec
			P Z'	0.9	0.9
			Mx E	4.2	20
			Mx N	6.3	17
			Mx Z	6.8	17
		Ki	iP	00 47 17.1	
			i	00 47 19.7	
			ipP	00 48 44.1	
			iS	00 55 50	
			iScS	00 56 35	
			iP'P'	01 15 25.2	
				micr	sec
			P Z'	1.2	1.5
			Mx E	3.9	16
			Mx N	3.5	15
			Mx Z	5.1	17
		Sk	iP	00 47 49.7	
			i	00 47 52.7	
			ipP	00 49 15.9	
		Um	iP	00 47 32.0	
			i	00 47 34.2	
			iS	00 56 15	
			isS	00 58 49	
			iP'P'	01 15 14.0	
		Ud	iP	00 47 59.8	
			i	00 48 02.0	
			i	00 48 56.4	
			ipP	00 49 29.2	
			iS	00 57 05.8	
		De	iP	00 48 12.7	
			i	00 48 14.8	
			ipP	00 49 41.6	
			iPP	00 51 17.7	
			i(S)	00 57 34.8	
		Japan.			
		h = 380 km (Up,Ki,Sk,Um,Ud, De).			
		m = 6.5, M = 5.9 (Up,Ki).			
		M uncorrected for focal depth			
		Double P, small and large, separated by 2.4 sec in average.			

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

1974 Feb.	22	Up	iP		01 17 42.3	
			i		01 17 44.4	
					micr	sec
			P	Z'	0.1	1.0
		Um	iP		01 17 37.2	
		Ud	iP		01 17 43.3	
"	22	Up	iP		03 41 01.5	C
			iPn		03 41 58.1	
					micr	sec
			P	Z'	0.5	1.4
		Ki	iP		03 41 09.5	C
			ipP		03 41 34.9	
					micr	sec
			P	Z'	0.2	1.2
		Sk	iP		03 41 26.7	
		Um	iP		03 40 59.2	C
			ipP		03 41 23.0	
		Ud	iP		03 41 18.2	C
			ipP		03 41 40.9	
		De	iP		03 41 14.5	C
		Afghanistan-USSR.				
		h = 120 km (Ki,Um,Ud).				
		m = 5.9 (Up,Ki).				
"	22	Um	iSgl		05 56 08.0	
"	22	Up	iP		07 14 44.8	
		Ki	iP		07 15 02.4	
		Sk	iP		07 15 13.1	
		Um	iP		07 14 48.0	
		Ud	iP		07 15 00.3	
		De	iP		07 14 52.8	
		Pakistan (h = N).				
"	22	Um	iP		09 34 46.5	
		Ud	iP		09 35 05.3	
		De	iP		09 35 02.0	
		Hindu Kush.				
		Intermediate depth.				
"	22	Ud	iP		10 03 35.5	
"	22	Um	iSgl		12 21 35.2	
		Western USSR.				
		Explosion.				
"	22	Up	iP		13 44 16.0	
			i		13 44 30.2	
		Um	iP		13 44 56.0	
		Ud	iP		13 44 30.2	
		De	iP		13 43 56.1	
		Rumania (h = 150 km).				
"	22	Ud	iP		15 18 38.8	
"	22	Up	iP		15 31 32.2	
		Ionian Sea.				
1974 Feb.	22	Up	iP		20 57 50.2	
"	22	Ud	iP		22 35 25.6	
		Hindu Kush.				
		Intermediate depth.				
"	23	Up	iP		01 33 33.8	
					micr	sec
			P	Z'	0.1	0.9
		Sk	iP		01 34 22.2	
		Um	iP		01 34 15.1	
		Ud	iP		01 33 43.0	
		De	iP		01 33 05.5	
		Greece (h = 45 km).				
"	23	Up	iP		04 25 54.7	C
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		04 25 11.2	C
					micr	sec
			P	Z'	0.1	1.0
		Um	iP		04 25 30.3	C
		Ud	iP		04 26 01.4	C
		De	iP		04 26 18.2	C
		Japan (h = 60 km).				
		m = 5.8 (Up,Ki).				
"	23	Um	iPKPl		06 51 41.5	
"	23	Ud	iPKP		09 14 16.3	
		De	iPKP		09 14 27.5	
"	23	Ud	iPKPl		14 00 53.3	
"	23	Up	iP		21 00 07.1	
		Sk	iP		21 00 47.5	
		Um	iP		21 00 45.9	
		Ud	iP		21 00 13.6	
		Greece (h = N).				
"	23	Up	iP		21 02 52.7	
		Sk	iP		21 03 35.6	
		Um	iP		21 03 31.7	
		Ud	iP		21 03 00.2	
		Greece.				
"	24	Um	iP		04 36 11.6	
		Ud	eP		04 36 41	
		Japan (h = 20 km).				
"	24	Ki	iSn		06 27 36.9	
			iSgl		06 28 00.0	
		Um	iSn		06 28 16.8	
			iSgl		06 28 51.9	
		Ud	iSgl		06 31 21.4	
		Northwest USSR.				
		Explosion.				

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

1974 Feb.	24	Um	iP	06 28 28.4	
		Ud	iP	06 28 56.1	
		Tien-Shan.			
"	24	Um	iPKPl	08 26 39.9	
"	24	Up	e	09 29 45	
			iSgl	09 29 53.9	
		Ki	iPn	09 25 39.5	
			iSn	09 26 38.7	
			iSgl	09 26 57.5	
		Sk	iSgl	09 29 26.0	
		Um	iSn	09 27 16.1	
			iSgl	09 27 45.1	
		Ud	i(Sgl)	09 30 22.4	
		Northwest USSR.			
		Explosion.			
"	24	Ud	iP	09 45 33.1	
"	24	Up	iP	12 16 41.7	
		Ud	iP	12 16 38.1	
"	24	Um	iP	15 07 10.6	
		Ud	iP	15 07 36.3	
		De	iP	15 07 58.8	
		Aleutian Islands (h = 100 km).			
"	24	Up	iP	16 34 56.4	
"	24	Up	iP	19 21 04.1	
		Ki	iP	19 21 02.3	
		Um	iP	19 20 59.3	
		Ud	iP	19 21 16.5	
		De	iP	19 21 16.8	
		Sunda Strait (h = 90 km).			
"	24	Ud	iP	20 26 55.6	
		De	iP	20 26 37.5	
"	24	Up	iP	21 40 52.9	
		Ki	iP	21 40 57.8	
		Sk	iP	21 41 15.6	
		Um	iP	21 40 49.9	
		Ud	iP	21 41 08.4	
		De	iP	21 41 08.6	
		Himalaya (h = 45 km).			
"	24	Ud	iP	22 53 33.0	
"	25	Um	iP	01 44 22.0	
		Ud	iP	01 43 54.4	
		De	iP	01 43 35.7	
		Ascension Island (h = N).			
"	25	Up	iP	05 57 28.2 D	
			iPcP	05 57 51.8	
		(cont.)			

1974 Feb.	25	(cont.)			
		Up			micr sec
			P	Z'	0.1 1.1
			Mx	E	1.5 20
			Mx	N	1.9 18
			Mx	Z	2.4 18
		Ki	iP		05 56 42.2 D
					micr sec
			P	Z'	0.2 1.2
			Mx	E	3.7 19
			Mx	N	3.6 20
			Mx	Z	4.3 19
		Sk	iP		05 57 18.3
		Um	iP		05 57 03.2 D
			i		05 57 04.3
		Ud	iP		05 57 34.6 D
		De	iP		05 57 52.9 D
		Kurile Islands (h = 10 km).			
		m = 6.1, M = 5.6 (Up,Ki).			
"	25	De	iP		11 07 38.3
		Hindu Kush.			
		Intermediate depth.			
"	25	Up	iSgl		12 14 36.4
		Um	iSgl		12 14 59.5
		Ud	iSgl		12 15 43.1
		De	iSgl		12 16 08.7
		Western USSR.			
		Explosion.			
"	25	Ud	iP		12 18 09.2
		Japan (h = 330 km).			
"	25	De	iP		16 19 03.4
"	25	Up	iS		20 09 29.2
			i		20 09 35.0
		Ud	iS		20 08 54.3
			i		20 09 08.1
		De	iP		20 06 21.7
			i		20 06 29.2
			iS		20 08 16.9
			i		20 08 23.2
		United Kingdom (h = N).			
"	26	De	iPKPl		00 21 12.4
"	26	Sk	i(Sgl)		04 14 15.1
"	26	Um	iP		05 32 41.9
		South of Japan (h = 220 km).			
"	26	Up	iP		06 34 09.0 C
					micr sec
			P	Z'	0.2 0.7
		Ki	iP		06 33 15.0 C
		(cont.)			

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

1974 Feb.	26	(cont.)				
		Ki	iPcP	06 34 14.9		
				micr	sec	
			P Z'	0.1	0.9	
		Sk	iP	06 33 51.9		
			iPcP	06 34 35.3		
		Um	iP	06 33 40.4	C	
			iPcP	06 34 28.8		
		Ud	iP	06 34 12.5		
			iPcP	06 34 48.1		
		De	iP	06 34 34.2	C	
			iPcP	06 35 01.7		
		Kamchatka (h = 50 km).				
		m = 6.0 (Up,Ki).				
"	26	Ki	iP	10 08 20.9		
		Um	iP	10 08 29.9		
		Mariana Islands (h = 25 km).				
"	26	Ki	iP	10 11 38.8		
		Um	iP	10 11 48.9		
		Ud	iP	10 12 12.7		
		Mariana Islands (h = 45 km).				
"	26	Ki	iSn	11 00 56.5		
		Um	iSgl	11 02 45.8		
		Northwest USSR-Norway.				
		Explosion.				
"	26	Up	iP	11 18 22.3		
		Sk	eP	11 19 05		
		Um	iP	11 19 07.3		
		Ud	iP	11 18 32.2		
		De	eP	11 17 52		
			i	11 18 00.9		
		Ionian Sea (h = N).				
"	26	Um	iSgl	12 08 56.8		
		Ud	iSgl	12 09 28.1		
		De	iSgl	12 09 53.0		
		Esthonia.				
		Explosion.				
"	26	Um	i	12 10 19.6		
			iSgl	12 10 23.2		
		Ud	iSgl	12 11 10.2		
		De	iSgl	12 11 35.1		
		Western USSR.				
		Explosion.				
"	26	Um	i(P)	12 25 30.7		
"	26	Up	eP	14 24 42		
		Sk	eP	14 25 16		
		Ud	iP	14 24 45.7		
		De	iP	14 24 10.8		
		West of Crete (h = N).				

1974 Feb.	26	Up	iSgl	14 55 37.2		
			iSg2	14 55 45.2		
		Sk	iSgl	14 54 57.7		
		Ud	iSgl	14 54 35.3		
		De	iSgl	14 55 17.9		
		West coast of Norway,				
		60.0°N, 4.8°E.				
		Origin time = 14 52 19.				
		By combination with Bergen				
		readings.				
"	26	Ud	iP	17 18 21.8		
"	26	Up	iP	23 27 45.3		
		Off coast of Oregon (h = N).				
"	27	Um	iP	03 53 17.7		
		Ud	iP	03 53 24.6		
		De	iP	03 53 48.1		
		Off coast of Oregon				
		(h = 15 km).				
"	27	Up	iP	03 54 46.3		
			i	03 54 52.4		
		Um	iP	03 54 26.9		
			i	03 54 33.9		
		Ud	iP	03 54 39.8		
			i	03 54 45.9		
		De	iP	03 55 00.1		
		Off coast of Oregon				
		(h = N).				
		Double P, possibly a double				
		shock.				
"	27	Up	iP	03 56 56.4		
		Um	iP	03 56 39.5		
		Ud	iP	03 56 50.5		
		De	iP	03 57 11.5		
		Off coast of Oregon (h = N).				
"	27	Ud	iP	04 06 24.2		
"	27	Up	iP	04 40 12.2		
			i	04 40 18.7		
		Um	iP	04 40 38.1		
		Ud	iP	04 40 08.2		
		De	iP	04 39 49.7		
		Ascension Island (h = N).				
"	27	Up	iP	08 32 45.0		
		Greece-Bulgaria (h = 20 km).				
"	27	Ud	i	10 47 45.4		
			iSgl	10 47 48.4		
"	27	Up	iSgl	11 49 33.2		
		(cont.)				

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

1974
Feb. 27 (cont.)

Up	i	11 49 50.0	
Ud	iSgl	11 49 34.3	
	i	11 49 47.8	
De	iPgl	11 47 35.3	
	i	11 47 36.8	
	iSgl	11 47 52.4	
	iRg	11 47 59.1	

Baltic Sea, south of Sweden, 55.6°N, 15.3°E.
Origin time = 11 47 14.
Explosion.

" 27

Up	iSgl	12 11 35.4	
Um	iSgl	12 12 11.6	
Ud	iSgl	12 12 38.3	
De	iSgl	12 13 11.2	

Esthonia.
Explosion.

" 27

Up	iP		17 11 48.7	C
			micr	sec
	P	Z'	0.1	1.0
Ki	iP		17 11 14.5	C
			micr	sec
	P	Z'	0.2	1.4
Sk	iP		17 11 22.4	C
Um	iP		17 11 34.1	C
Ud	iP		17 11 40.7	C
De	iP		17 11 57.4	

Nevada.
m = 6.0 (Up,Ki).
Underground explosion.

" 27

Up	iP		18 14 16.0	D
	ipP		18 14 24.8	
	i(PP)		18 17 07.2	
	iPP		18 17 28.8	
			micr	sec
	P	Z'	0.4	1.0
Ki	iP		18 14 17.0	D
	ipP		18 14 26.1	
			micr	sec
	P	Z'	0.7	1.0
Sk	iP		18 14 30.9	D
	iPP		18 17 47.7	
Um	iP		18 14 13.5	D
	ipP		18 14 22.6	
	iPP		18 17 19.4	
Ud	iP		18 14 26.4	D
	ipP		18 14 36.8	
	i(PP)		18 17 28.7	
	iPP		18 17 42.3	
De	iP		18 14 24.5	D
	ipP		18 14 35.1	
	i(PP)		18 17 23.1	
	iPP		18 17 39.0	

(cont.)

1974
Feb. 27 (cont.)
Sumatra.
h = 35 km (Up,Ki,Um,Ud,De).
m = 6.7 (Up,Ki).
Clear cases of early PP, denoted (PP).

" 27

Ki	iPKP	20 56 51.6	
Um	iPKP	20 56 59.5	

Tonga Islands (h = N).

" 27

Um	i(P)	21 30 30.9	
Ud	iP	21 29 55.4	

" 27

Up	i(P)	21 40 40.6	

" 27

Ud	iPKPl	21 43 15.2	
De	iPKPl	21 43 26.0	

" 27

Up	iP	23 17 44.5	
De	iP	23 17 17.3	

" 27

Up	iP	23 18 06.8	
Sk	iP	23 18 47.4	
Ud	iP	23 18 04.5	

Sicily.

" 28

Ki	iP	00 50 55.7	
Ud	iP	00 51 11.2	

Burma.

" 28

Ud	iPKPl	05 06 14.6	
De	iPKPl	05 06 25.7	

Tonga-Kermadec Islands (h = N).

" 28

Um	iP	07 49 00.0	
Ud	eP	07 48 57	

" 28

Up	iSgl	10 28 41.9	
Um	iSgl	10 29 15.9	
Ud	iSgl	10 29 45.4	

Esthonia.
Explosion.

" 28

Up	iSgl	12 19 09.6	
Um	i	12 19 09.4	
	iSgl	12 19 22.7	
Ud	iSgl	12 20 07.3	
De	iSgl	12 20 27.5	

Western USSR.
Explosion.

" 28

Up	iP	13 44 49.7	
Um	iP	13 45 31.2	
Ud	iP	13 44 49.2	

Sicily.

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

1974 Feb.	28	Up	iPKP1		14 19 12.3		
			i		14 19 15.4		
			iPKP2		14 19 24.1		
					micr	sec	
			PKP2	Z'	2.9	2.8	
			Mx	E	3.2	21	
			Mx	N	3.6	20	
			Mx	Z	10	20	
		Ki	iPKP1		14 18 54.3		
			i		14 19 13.8		
					micr	sec	
			PKP1	Z'	4.5	3.0	
			Mx	E	7.2	22	
			Mx	N	9.5	23	
			Mx	Z	9.6	23	
		Sk	iPKP1		14 19 09.1		
		Um	iPKP1		14 19 02.9		
			i		14 19 13.4		
		Ud	iPKP1		14 19 16.3		
			iPKP2		14 19 29.3		
		De	iPKP2		14 19 43.2		
		New Zealand (h = 15 km).					
		M = 6.5 (Up,Ki).					
"	28	Up	iPKP1		14 25 12.8		
			iPKP2		14 25 26.4		
					micr	sec	
			PKP2	Z'	0.1	1.0	
		Ki	iPKP1		14 24 55.2		
					micr	sec	
			PKP1	Z'	0.3	1.7	
		Sk	iPKP1		14 25 09.7 C		
		Um	iPKP1		14 25 04.4 C		
		Ud	iPKP1		14 25 16.8		
			iPKP2		14 25 29.8		
		De	iPKP2		14 25 46.4		
		New Zealand (h = 30 km).					
"	28	Up	iRg		14 29 18.9		
		Ud	i		14 29 33.9		
			iRg		14 29 37.3		
		De	iSg1		14 30 09.8		
		Central Sweden.					
"	28	Um	iPKP1		14 57 54.4		
		De	iPKP2		14 58 34.3		
		New Zealand (h = N).					
"	28	Up	iP		15 10 42.9		
					micr	sec	
			P	Z'	0.1	1.0	
		Ki	iP		15 09 49.6		
		Sk	iP		15 10 20.3		
		Um	iP		15 10 14.9		
		Ud	iP		15 10 43.3		
		Aleutian Islands (h = 55 km).					

1974 Feb.	28	Up	iP		15 10 29.3		
		Ki	iP		15 10 04.5		
		Sk	iP		15 10 40.3		
		Um	iP		15 10 07.4		
		Mixing with preceding event makes identification difficult.					
"	28	Up	iP		16 09 25.6		
		Um	iP		16 09 00.4		
		Ud	iP		16 09 32.6		
		De	iP		16 09 48.1		
		Japan (h = 70 km).					
"	28	Um	iPKP		16 25 20.9		
		Ud	iPKP		16 25 30.5		
		Tonga Islands (h = 100 km).					
"	28	Ki	iP		17 43 55.2		
		Ud	iP		17 43 15.9		
		North Atlantic Ocean (h = N).					
"	28	Up	iP		19 30 14.9		
		Ki	iP		19 29 21.4		
		Sk	iP		19 29 51.3		
		Um	iP		19 29 47.7		
		Ud	iP		19 30 12.4		
		De	iP		19 30 36.9		
		Aleutian Islands (h = N).					
"	28	Up	iP		20 28 21.0		
		Ki	iP		20 28 17.1		
		Sk	iP		20 28 14.0		
		Um	iP		20 28 22.0		
			i		20 28 29.0		
		Ud	iP		20 28 11.8		
			i		20 28 18.6		
		De	iP		20 28 16.5		
			i		20 28 23.5		
		Costa Rica (h = 60 km).					
		Double P, 6.9 sec apart in average.					
"	28	Up	iP		20 32 55.4 C		
			iPP		20 36 27		
			iS		20 43 19		
					micr	sec	
			P	Z'	0.3	1.2	
			Mx	E	3.6	19	
			Mx	N	4.1	21	
			Mx	Z	9.5	20	
		Ki	iP		20 32 50.8 C		
			i		20 32 58.6		
					micr	sec	
			P	Z'	0.8	1.9	

(cont.)

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

1974

Feb.	28	(cont.)					
		Ki			micr	sec	
			Mx	E	12	16	
			Mx	N	9.2	17	
			Mx	Z	14	16	
		Sk	iP		20	32	40.1 C
			i		20	32	47.6
		Um	iP		20	32	55.8 C
			iPP		20	36	26
			iS		20	43	23
		Ud	iP		20	32	45.8 C
		De	iP		20	32	50.3 C
		Costa Rica (h = 45 km).					
		m = 6.5, M = 6.2 (Up,Ki).					
		Double P, 7.6 sec apart					
		in average.					
"	28	Um	iP		20	51	31.6
"	28	Um	iP		21	48	38.6
			i		21	48	48.1
		Ud	iP		21	48	28.2
		Costa Rica (h = 55 km).					
"	28	Up	iP		22	23	46.6
		Ki	iP		22	22	19.8
		Um	iP		22	23	05.7
			i		22	23	09.4
		Ud	iP		22	23	41.3
		Greenland Sea (h = N).					

Markus Båth

October 5, 1975

BOX 517
S-751 20 UPPSALA
SWEDEN

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

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

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

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

M A R C H 1 - 31, 1974

1974					
Mar.	1	Ud	iP	00 59 09.0	
"	1	Up	iSgl	01 57 36.6	
		Ki	iPgl	01 52 58.8	
			iSgl	01 53 32.8	
			iSg2	01 53 36.1	
				micr sec	
			Sg2 Z'	0.2 0.5	
		Sk	iSn	01 55 20.5	
			iSgl	01 55 59.4	
		Um	i(Pgl)	01 54 00.0	
			iSn	01 55 01.5	
			iSgl	01 55 33.2	
			iSg2	01 55 42.0	
		Ud	eSgl	01 57 43	
		Coast of north Norway, 70.2°N, 19.7°E. Origin time = 01 52 15. Solution checked with Tromsoe readings.			
"	1	Up	eP	03 11 18	
		Um	iP	03 12 03.0	
		Ud	iP	03 11 24.4	
		Albania (h = N).			
"	1	Up	iPKP1	04 43 18.4	
		Ki	iPKP1	04 43 00.1	
		Um	iPKP1	04 43 11.9	
		New Zealand (h = N).			
"	1	Up	iPKP2	04 45 57.9	
		Ki	iPKP1	04 45 27.0	
		Um	iPKP1	04 45 35.0	
		New Zealand (h = 15 km).			
"	1	Ud	iP	06 22 10.3	
		Iran (h = N).			

1974				
Mar.	1	Ki	iP	06 35 39.9
		Um	iP	06 36 07.9
		Ud	iP	06 36 33.4
		Aleutian Islands (h = 20 km		
"	1	Ud	iP	08 49 32.9
		Ionian Sea.		
"	1	Ki	iPn	10 57 34.0
			iSn	10 58 29.4
			iSgl	10 58 52.5
		Northwest USSR. Explosion.		
"	1	Ki	iSgl	11 08 37.5
		Um	iSgl	11 10 06.3
		Northwest USSR-Norway. Explosion.		
"	1	Ki	iSgl	11 09 10.6
		Um	iSgl	11 10 39.5
		Northwest USSR-Norway. Explosion.		
"	1	Ki	iSgl	11 25 25.8
		Northwest USSR. Explosion.		
"	1	Up	iSgl	11 38 44.2
		Ki	iSn	11 35 26.4
			iSgl	11 35 48.2
		Sk	iSgl	11 38 14.7
		Um	iSn	11 36 05.3
			i	11 36 21.4
			iSgl	11 36 40.0
		Ud	iSgl	11 39 15.6
		De	eSgl	11 40 49
		Northwest USSR. Explosion.		

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

1974
Mar. 1 Um iSgl 12 13 32.0
Western USSR.
Explosion.

" 1 Um iSgl 14 04 35.8
Lake Ladoga region.
Explosion.

" 1 Ki iP 16 13 48.1
Komandorsky Islands
(h = 30 km).

" 1 Up iPKPl 21 35 42.5
Sk ePKPl 21 35 37
Um iPKPl 21 35 32.1
Ud iPKPl 21 35 43.6
New Zealand.
Origin time = 21 15 48.

" 1 Ud iP 22 12 14.1
Hindu Kush.
Intermediate depth.

" 2 Up iPKP2 05 06 05.5

		micr	sec
PKP2	Z'	0.2	1.2

Ki iPKPl 05 05 34.7

		micr	sec
PKPl	Z'	0.1	1.5

Sk iPKPl 05 05 48.5
Um iPKPl 05 05 43.3
Ud iPKP2 05 06 10.0
New Zealand (h = 30 km).

" 2 Ki iPKPl 05 27 05.2
Sk ePKPl 05 27 11
Um iPKPl 05 27 04.1
New Zealand (h = 35 km).

" 2 Ud iP 09 09 19.8

" 2 Ki iSn 12 16 36.0
Northwest USSR.
Explosion.

" 2 Ki iPn 12 32 59.7
iPgl 12 33 09.7
iSn 12 33 48.7
iS* 12 34 02.0
Um i 12 35 12.5
iSgl 12 35 31.5
Northwest USSR-Norway.
Explosion.

" 2 Um iP 13 16 40.4
Ud iP 13 17 08.8
Japan (h = 380 km).

1974
Mar. 2 Um iPKPl 16 01 42.1
Ud iPKPl 16 01 54.4

" 2 Um iP 17 07 08.7
Guatemala (h = 45 km).

" 2 Up iPgl 17 16 38.5
iSgl 17 16 51.2
i 17 16 54.5
Sk iSgl 17 18 11.6
Um iSgl 17 18 01.0
Ud iPgl 17 16 55.4
iSn 17 17 18.5
iSgl 17 17 20.0
De iSgl 17 18 47.5
Gästrikland, Sweden,
60.8°N, 17.2°E.
Origin time = 17 16 23.

" 2 Um iPKPl 21 27 57.9

" 2 Ud iP 23 24 11.1

" 3 Ki iP 01 19 45.2
Sk iP 01 19 58.6
Um iP 01 20 27.4
i 01 20 57.3

" 3 Up iP 05 02 19.9 C
~~iAMP~~ 05 02 21.5
~~iSAMP~~ 05 02 29.0
ipP 05 02 33.8
iS 05 11 44

		micr	sec
il	Z'	0.3	1.3
i2	Z'	0.2	1.0
pP	Z'	0.5	1.2
Mx	E	6.9	25
Mx	N	6.6	24
Mx	Z	8.7	25

Ki iP 05 01 41.7 C
il 05 01 43.5
iS 05 10 35

		micr	sec
P	Z'	0.1	1.0
il	Z'	0.2	1.2
Mx	E	7.4	20
Mx	N	4.8	17
Mx	Z	5.7	18

Sk iP 05 02 14.4 C
il 05 02 16.1
ipP 05 02 28.2
Um iP 05 01 58.3 C
il 05 02 00.1
i2 05 02 06.8
iS 05 11 05
Ud iP 05 02 27.2 C
(cont.)

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

1974 Mar. 3 (cont.)

Ud	i1	05 02 28.9	
	i2	05 02 36.6	
	ipP	05 02 39.7	
De	iP	05 02 41.6	C
	i1	05 02 43.4	
	ipP	05 02 52.7	

Japan.
h = 45 km (Up,Sk,Ud,De).
m = 6.0, M = 6.0 (Up,Ki).
Multiple P-phases i1 and i2, in average 1.7 and 9.0 sec after the first onset.

" 3

Ki	iP	05 02 31.5	
Sk	iP	05 02 57.2	
Um	iS	05 09 54	
Ud	iP	05 02 52.9	
De	iP	05 02 49.7	

Tibet (h = N).
Records disturbed by preceding event.

" 3 Ki iSgl 06 50 02.2
Northwest USSR.
Explosion.

" 3 Ud iP 07 23 33.8

" 3

Ki	iP	07 50 10.7	
Sk	iP	07 50 17.8	
	iS	07 52 13.6	
Um	iP	07 50 45.5	
Ud	iP	07 51 03.3	

Jan Mayen region,
near 71 1/2°N, 8°W.
Origin time = 07 47 42.

" 3 Ud iP 11 49 04.9
California (h = N).

" 3 Ud iP 12 03 16.5
Kurile Islands (h = N).

" 3

Up	iPKP1		13 11 43.7	
	iPKP2		13 11 55.3	
			micr	sec
	PKP2	Z'	0.1	1.1
	Mx	N	1.1	20
	Mx	Z	1.5	19
Ki	iPKP1		13 11 25.2	
			micr	sec
	PKP1	Z'	0.2	1.5
	Mx	E	1.1	22
	Mx	N	1.3	22
	Mx	Z	1.2	20

(cont.)

1974 Mar. 3 (cont.)

Sk	iPKP1	13 11 39.3	C
	iPKP2	13 11 47.9	
Um	iPKP1	13 11 33.5	C
	iPKP2	13 11 40.8	
Ud	iPKP1	13 11 44.5	
	iPKP2	13 11 59.3	
De	iPKP1	13 11 51.6	

New Zealand (h = 6 km).
M = 5.9 (Up,Ki).

" 3

Ki	ePKP1	13 46 52	
Um	iPKP1	13 46 57.6	
	iPKP2	13 47 08.0	
Ud	iPKP1	13 47 09.1	

New Zealand (h = 10 km).

" 3

Up	iPKP2	14 00 11.3	
Ki	iPKP1	13 59 39.1	
Um	iPKP1	13 59 47.7	
Ud	iPKP2	14 00 15.8	

New Zealand (h = N).

" 3

Ki	ePKP1	14 09 49	
Sk	ePKP1	14 10 01	
Um	iPKP1	14 09 56.9	

Probably New Zealand.
Origin time = 13 50 11.

" 3

Up	iPKP		14 41 59.2	
			micr	sec
	Mx	E	2.1	22
	Mx	N	4.8	22
	Mx	Z	7.8	22
Ki	iPKP		14 41 42.7	
			micr	sec
	PKP	Z'	0.1	1.0
	Mx	E	4.1	21
	Mx	N	5.6	22
	Mx	Z	4.3	20
Sk	iPKP		14 41 53.5	
Um	iPKP		14 41 49.2	
Ud	i(PKP)		14 41 54.8	
	iPKP		14 42 01.5	
De	iPKP		14 42 07.4	

New Hebrides Islands
(h = 15 km).
M = 6.3 (Up,Ki).

" 3

Up	iP	16 26 41.4	
Ki	iP	16 24 56.0	
	eS	16 26 40	
Sk	iP	16 25 50.4	
Um	iP	16 25 51.1	
Ud	iP	16 26 37.6	
	i	16 26 42.0	
De	iP	16 27 18.2	

South of Svalbard (h = N).

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

1974 Mar.	3	Um	iPKP1		17 14 03.8	
"	3	Sk	iP		19 04 23.8	
"	3	Ud	iP		21 42 05.0	
		De	iP		21 41 33.6	
		Crete (h = N).				
"	4	Ki	eP		01 12 08	
		Um	iP		01 11 53.0	
		Azores Islands (h = N).				
"	4	Ud	iP		02 36 40.0	
"	4	Ki	iP		06 22 17.7	C
					micr	sec
			P	Z'	0.1	1.0
		Sk	eP		06 23 06	
		Um	iP		06 22 56.7	C
		Ud	eP		06 23 35	
		Arctic Ocean (h = N).				
"	4	Sk	iP		07 04 02.3	
		Ud	iP		07 04 28.3	
		Alaska (h = 35 km).				
"	4	Up	iS*		09 08 47.6	
			iSgl		09 08 53.9	
		Sk	eSgl		09 10 01	
		Um	iSgl		09 08 11.0	
		Ud	eSgl		09 09 46	
		De	iSgl		09 10 30.3	
		Lake Ladoga region.				
		Explosion.				
"	4	De	i(P)		11 45 39.9	
"	4	Up	iSgl		12 16 14.2	
		Ki	eSgl		12 18 06	
		Sk	iSgl		12 17 54.5	
		Um	iSgl		12 16 29.9	
			iRg		12 17 00.8	
		Ud	iSgl		12 17 11.9	
		De	iSn		12 16 54.6	
			iSgl		12 17 36.9	
		Western USSR.				
		Explosion.				
"	4	Um	iP		12 22 59.9	
"	4	Up	iPKP		12 57 06.1	
			iSKP1		13 00 08.1	
			iSKP2		13 00 19.5	
					micr	sec
			SKP2	Z'	0.1	1.4
		Ki	iPKP		12 56 58.2	
			iSKP1		12 59 43.9	
		(cont.)				

1974 Mar.	4	(cont.)				
		Ki			micr	sec
			SKP1	Z'	1.2	2.2
		Sk	ePKP		12 57 07	
			iSKP1		13 00 04.4	
		Um	iPKP		12 57 02.0	
			i		12 57 07.3	
			ipPKP		12 58 41.8	
			iSKP1		12 58 57.2	
		Ud	iPKP		12 57 08.9	
			iSKP1		13 00 11.7	
			iSKP2		13 00 22.1	
		De	iPKP		12 57 14.6	
		Fiji Islands.				
		h = 420 km (Um).				
"	4	Ki	iSg1		13 45 37.6	
		Um	eSg1		13 45 37	
		East-central Finland,				
		65.5°N, 29.3°E.				
		Origin time = 13 43 29.				
		Solution from Finnish				
		station readings.				
"	4	Sk	i(Sg1)		13 46 21.3	
"	4	Up	i(P)		13 50 53.0	
"	4	Um	i(Sg1)		14 10 07.9	
"	4	Ki	iP		14 11 22.1	
		Sk	eP		14 11 48	
		Kirghiz-Sinkiang (h = N).				
"	4	Ki	iP		14 55 09.1	
		Ud	iP		14 55 16.9	
		Hindu Kush.				
		Intermediate depth.				
"	4	Sk	iP		15 09 13.3	
		Um	iP		15 09 30.8	
		Guatemala (h = 80 km).				
"	4	Up	iP		15 15 27.8	
		Ki	iP		15 14 59.5	
		Sk	iP		15 15 25.2	
		Um	iP		15 15 12.0	
		Ud	iP		15 15 34.7	
		Mariana Islands (h = 360 km).				
"	4	Ki	iP		18 28 15.3	
		Off coast of Oregon (h = N).				
"	4	Um	iPKP1		21 24 30.3	
"	4	Up	iSg1		23 04 10.2	
		Sk	iSg1		23 02 43.9	
		(cont.)				

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

1974
Mar. 4 (cont.)
Ud iSgl 23 03 09.1
Western Norway,
near 61.8°N, 6.6°E.
Origin time = 23 01 06.
By combination with Bergen readings.

" 5 Ud iP 00 28 08.8
Hindu Kush.
Intermediate depth.

" 5 Up iP 03 22 53.1
Ud iP 03 23 06.1
i 03 23 32.1

" 5 Ki eSgl 09 45 05
Um iSgl 09 43 48.5
Lake Ladoga region.
Explosion.

" 5 Up iPKP1 11 11 51.7
micr sec
PKP1 Z' 0.1 1.4
Sk iPKP1 11 11 46.2
Um iPKP1 11 11 39.9
Ud iPKP1 11 11 52.8

" 5 Up iSn 12 10 05.4
iSgl 12 10 17.2
Sk iSn 12 11 34.1
eSgl 12 12 08
Um iSgl 12 10 50.7
Ud iSgl 12 11 20.8
De iSgl 12 11 46.5
Esthonia.
Explosion.

" 5 Up iSn 12 27 14.2
iSgl 12 27 26.5
Ki iSgl 12 30 00.3
Sk iSgl 12 29 16.4
Um iSgl 12 28 01.9
Ud iSn 12 28 02.8
iSgl 12 28 33.0
Esthonia.
Explosion.

" 5 Sk iP 12 38 39.7
Hindu Kush.
Intermediate depth.

" 5 Up iSgl 12 52 51.3
Ki eSgl 12 55 02
Um iSgl 12 53 15.9
Western USSR.
Explosion.

1974
Mar. 5 Sk iSgl 13 36 03.9
Ud iPgl 13 34 07.6
iSgl 13 35 01.5
South coast of Norway,
58.3°N, 6.7°E.
Origin time = 13 32 57.
By combination with Bergen and Kongsberg readings.

" 5 Ki eSgl 13 36 34
Um iSgl 13 37 42.9
Northwest USSR.
Explosion.

" 5 Um iP 15 06 53.2
Off Pacific coast of Central America (h = 35 km).

" 5 Um iP 17 01 14.1
Kurile Islands.

" 6 Ki iP 00 12 18.1
Sk e(pP) 00 13 25
Um iP 00 13 09.6
Ud iP 00 13 56.5
Svalbard (h = N).

" 6 Up iP 01 52 58.6
ipP 01 53 29.2
iPP 01 56 17
iS 02 03 07
iPKKP 02 10 55.6
micr sec
P Z' 0.1 1.1
pP Z' 0.4 1.3
PP Z' 1.1 2.0
Mx E 3.8 20
Mx N 2.5 20
Mx Z 8.3 24
Ki iP 01 52 49.9
ipP 01 53 21.8
iPP 01 56 07
iS 02 02 56
iPKKP 02 10 56.9
micr sec
P Z' 0.3 1.7
pP Z' 1.7 2.4
PP Z' 0.7 2.0
Mx E 6.7 19
Mx N 5.2 22
Mx Z 7.7 19
Sk iP 01 52 41.7
ipP 01 53 12.2
iPP 01 55 56.9
iPKKP 02 11 02.6
Um iP 01 52 56.3
(cont.)

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

1974 Mar.	6	(cont.)			
		Um	ipP	01 53 28.0	
			iPP	01 56 18	
			iPKKP	02 10 54.0	
			iS	02 03 06	
			iP'P'	02 19 02.1	
			i	02 19 29.1	
		Ud	iP	01 52 46.5	
			ipP	01 53 19.2	
			iPP	01 56 08.6	
			iPKKP	02 10 59.3	
		De	iP	01 52 52.6	
			ipP	01 53 24.7	
			iPP	01 56 15.7	
		Nicaragua.			
		h = 120 km (Up,Ki,Sk,Um,Ud, De).			
		m = 6.2, M = 6.1 (Up,Ki).			
		M uncorrected for focal depth.			
"	6	Up	iP	02 44 51.7	
		Ki	iP	02 45 36.3	
			ipP	02 45 42.4	
		Um	iP	02 45 15.5	
			ipP	02 45 22.4	
		Ud	iP	02 44 46.7	
			ipP	02 44 52.8	
		Ascension Island.			
		h = 25 km (Ki,Um,Ud).			
"	6	Um	iPKP	04 01 07.2	
		Ud	iPKP1	04 01 08.2	
		De	iPKP1	04 01 18.9	
"	6	Um	iPKP	04 38 17.8	
		New Hebrides Islands (h = 250 km).			
"	6	Ud	iP	05 05 26.2	
		Talaud Islands (h = 55 km).			
"	6	Ki	eP	05 19 22	
		Um	iP	05 19 09.1	
		North Atlantic Ocean (h = N).			
"	6	Um	iP	06 42 18.1	
		Ud	iP	06 42 50.8	
		Kurile Islands (h = N).			
"	6	Um	iPKP1	07 33 20.9	
"	6	Up	iSg1	10 41 15.2	
		Sk	iSg1	10 43 07.1	
		Um	iSg1	10 41 50.7	
		Ud	eSg1	10 42 22	
		De	iSg1	10 42 50.5	
		Esthonia.			
		Explosion.			

1974 Mar.	6	Um	i(Sg1)	10 43 12.5	
"	6	Up	iSg1	12 08 10.9	
		Um	iSg1	12 08 33.6	
		Western USSR.			
		Explosion.			
"	6	Up	iSn	12 37 52.2	
			iSg1	12 38 06.6	
		Um	iSg1	12 38 42.9	
		De	eSg1	12 39 40	
		Esthonia.			
		Explosion.			
"	6	Ki	iPn	12 40 43.7	
			iSn	12 41 39.0	
		Northwest USSR-Norway.			
		Explosion.			
"	6	Um	iSg1	12 43 40.1	
		Western USSR.			
		Explosion.			
"	6	Sk	e	12 53 33	
			eSg1	12 54 41	
		Um	iSg1	12 52 51.0	
		Lake Ladoga region.			
		Explosion.			
"	6	Ki	iPKP1	13 17 04.1	
		Um	iPKP1	13 17 12.2	
		New Zealand (h = N).			
"	6	Ud	iP	13 48 03.7	
"	6	Up	i(P)	15 02 18.3	
"	6	Um	iP	15 46 55.8	
"	6	Up	iSg1	17 47 03.0	
		Ki	i	17 44 47.8	
			iSg1	17 44 59.9	
				micr sec	
			Sg1 Z'	0.1 0.8	
		Sk	ePg1	17 44 26	
			iS*	17 45 04.2	
			iSg1	17 45 08.3	
		Um	iPg1	17 44 39.8	
			iSn	17 45 13.5	
			iSg1	17 45 28.1	
		Ud	iSg1	17 46 54.2	
		Nordland, Norway, 66.4°N, 14.5°E.			
		Origin time = 17 43 37.			
		Explosion.			
"	6	Um	iPKP1	18 30 48.9	

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

1974 Mar.	6	Up	iPP		19 47 50.0	
			iS		19 55 11	
					micr	sec
			PP	Z'	0.3	1.9
			Mx	E	4.9	23
			Mx	N	7.8	25
			Mx	Z	16	23
		Ki	iP		19 43 07.2	
			iPP		19 47 23.0	
					micr	sec
			PP	Z'	0.4	2.4
			Mx	E	7.7	19
			Mx	N	7.8	21
			Mx	Z	5.8	21
		Sk	e(PP)		19 47 35	
		Um	iP		19 43 12.1	
			iPP		19 47 31.2	
		Ud	iPP		19 48 08.8	
		De	ePP		19 48 19	

Banda Sea (h = 25 km).
m = 6.5, M = 6.4 (Up,Ki).

"	6	Ki	iPgl	20 41 12.1
			iSgl	20 41 42.4
		Sk	eSgl	20 43 17
		Um	iSgl	20 41 50.0

Swedish coast of northern Baltic Sea, 65.9°N, 23.1°E.
Origin time = 20 40 33.
Checked with Finnish station readings.

"	6	Up	iP	20 52 03.2
		Ki	iP	20 51 21.5
		Sk	iP	20 51 55.5
		Um	iP	20 51 39.8
			ipP	20 51 58.0
		Ud	iP	20 52 10.2
		De	iP	20 52 27.2

Japan.
h = 70 km (Um).

"	6	Up	i(P)	21 16 27.0

"	6	Ki	eP	21 42 58
		Sk	eP	21 43 28
		Um	iP	21 42 58.5

Kazakh-Sinkiang (h = N).

"	7	Ud	iP	03 56 11.6

Crete (h = N).

"	7	Up	iSgl	09 09 20.0
		Ud	iPgl	09 08 01.6
			iSgl	09 08 35.9
		De	iSgl	09 08 41.6

Off coast of Bohuslän, Sweden, 58.2°N, 10.7°E.
Origin time = 09 07 19.
Explosion.

1974 Mar.	7	Um	iSgl	10 38 23.1
		Ud	iSgl	10 38 54.2

"	7	Up	iSgl	11 00 03.6
		Sk	iSgl	11 01 49.0
		Um	iSgl	11 00 27.1
		Ud	iSgl	11 01 08.1
		De	iSgl	11 01 35.0

Western USSR.
Explosion.

"	7	Up	iSgl	11 10 09.0
		Sk	iSgl	11 12 11.7
		Um	iSgl	11 12 20.5
		Ud	iSgl	11 10 16.8
		De	iPgl	11 08 11.1
			iSgl	11 08 28.9

Baltic Sea, off coast of south Sweden, 55.4°N, 15.2°E.
Origin time = 11 07 49.
Explosion.

"	7	Up	iSgl	11 10 27.6
		Ud	iSgl	11 10 33.9
		De	iSgl	11 08 45.4

Same location as for the preceding event.
Origin time = 11 08 06.
Explosion.

"	7	Up	iP		11 42 35.8
			i		11 42 39.6
					micr sec
			P	Z'	0.1 1.0
			Mx	E	1.6 11
			Mx	N	2.9 10
			Mx	Z	2.9 11
		Ki	iP		11 43 04.1
			i		11 43 07.7
			iPP		11 44 16.4
					micr sec
			P	Z'	0.1 1.0
			Mx	E	4.5 12
			Mx	N	7.2 13
			Mx	Z	4.3 12
		Sk	iP		11 43 10.1
			i		11 43 13.8
			iPP		11 44 23.3
		Um	iP		11 42 43.1
			i		11 42 47.4
			iS		11 48 08
		Ud	iP		11 42 53.0
			i		11 42 56.7
		De	iP		11 42 41.0
			i		11 42 44.8

Iran-USSR (h = 20 km).
m = 5.7, M = 5.6 (Up,Ki).
Double P, in average 3.8 sec apart.

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

1974
Mar. 7 Up iSgl 12 14 59.0
Ki iSgl 12 16 57.0
Sk eSgl 12 16 42
Um iSgl 12 15 15.1
Ud iSgl 12 16 00.0
De iSgl 12 16 25.4
Western USSR.
Explosion.

" 7 Between 13 16 and 14 23, Up, Ud,De recorded a series of explosions off coast of Bohuslän, Sweden, 58.2°N, 10.7°E (cf Mar. 7 at 09 07 19).

" 7 De iPKP 22 09 56.1
Solomon Islands (h = N).

" 8 Up iP 01 56 39.3
Ki iP 01 56 51.8
micr sec
P Z' 0.1 1.1
Sk iP 01 57 06.4
Um iP 01 56 39.4
Ud iP 01 56 53.7
De eP 01 56 49
Afghanistan (h = N).

" 8 Um iP 02 19 56.2

" 8 Up iP 02 39 19.8
Ki eP 02 40 34
Sk iP 02 39 55.1
Um eP 02 39 55
Ud iP 02 39 24.4
iPP 02 40 07.6
De iP 02 38 52.2
Crete (h = 50 km).

" 8 Um iPKP1 04 32 20.2

" 8 Um iPn 05 27 48.2
iPg1 05 27 51.5
iSg1 05 28 21.5
Origin time = 05 27 13.

" 8 Up iPKP2 05 33 29.5
Sk ePKP1 05 33 17
Um iPKP1 05 33 13.1 D
Ud iPKP2 05 33 31.7
De iPKP2 05 33 45.9

" 8 Ki iP 08 54 36.4
Turkey-Iran.

" 8 Up iP 09 36 41.7
(cont.)

1974
Mar. 8 (cont.)
Up ipP 09 36 53.2
micr sec
Mx E 1.0 18
Mx N 0.8 19
Mx Z 2.0 19
Ki iP 09 36 08.6
ipP 09 36 20.3
micr sec
Mx E 0.9 18
Mx N 1.1 17
Mx Z 1.5 18
Sk iP 09 36 40.3
ipP 09 36 51.8
Um iP 09 36 22.7
ipP 09 36 33.8
Ud iP 09 36 49.8
ipP 09 37 01.4
De ipP 09 37 14.4
Japan.
h = 45 km (Up,Ki,Sk,Um,Ud).
M = 5.2 (Up,Ki).

" 8 Ki iSn 10 18 15.9
iSg1 10 18 40.1
Um i 10 19 12.2
iSg1 10 19 32.9
Northwest USSR.
Explosion.

" 8 Ki iSn 11 01 53.0
iSg1 11 02 07.9
Um iSn 11 03 10.8
iSg1 11 03 49.2
Northwest USSR-Norway.
Explosion.

" 8 Sk iP 12 30 58.6

" 8 Ud iP 12 35 50.9
De iP 12 35 17.4
Crete (h = N).

" 8 Um iPKP1 13 59 36.2

" 8 Up iP 19 26 51.0
Um iP 19 26 36.3

" 8 Um iP 21 33 24.8
ipP 21 33 36.2
South of Japan.
h = 40 km (Um).

" 9 Um i(P) 02 44 30.4

" 9 Ud iP 03 57 39.8
il 03 57 47.6
De il 03 57 16.3
Crete (h = 55 km).

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

1974
Mar. 9 Up eP 04 17 39
Ki eP 04 18 48
Sk iP 04 18 11.3
Um eP 04 18 11
Ud iP 04 17 39.9
i 04 18 01.7
De iP 04 17 08.4
Crete (h = 55 km).
Our western stations (Sk, Ud,De) show negative residuals, while our eastern stations (Ki,Um,Up) show zero-positive residuals, in relation to the NEIS solution (also for some preceding Crete earthquakes).

" 9 Ki ePKP1 05 29 29
Um iPKP1 05 29 31.3
i 05 29 40.7

" 9 Ud ePKP1 07 02 32

" 9 Ki iSn 13 12 40.1
Um i(Sn) 13 13 23.8
iSg1 13 14 03.4
Northwest USSR.
Explosion.

" 9 Ki iPKP 17 59 50.0
Um iPKP 17 59 56.6
New Hebrides Islands
(h = 290 km).

" 9 Um iSg1 19 08 42.7
Probably local explosion.

" 9 Um iSg1 19 31 47.4
Probably local explosion.

" 9 Up ePKP 20 33 15
Ki ePKP 20 33 03
Sk iPKP 20 33 10.8
Um iPKP 20 33 06.9
Ud iPKP 20 33 16.1
De iPKP 20 33 21.5
Solomon Islands (h = 50 km).

" 9 Up iPKP 20 36 53.7
iPP 20 38 10
micr sec
Mx E 5.8 20
Mx N 6.8 19
Mx Z 10 20
Ki iSP 20 47 07
micr sec
Mx E 12 20
Mx N 7.1 20
(cont.)

1974
Mar. 9 (cont.)
Ki micr sec
Mx Z 6.1 20
Sk ePKP 20 36 52
Um iPKP 20 36 45.2
Ud iPKP 20 36 55.9
De iPKP 20 37 00.7
Solomon Islands (h = N).
M = 6.5 (Up,Ki).
Surface waves (Mx) mixed with those of the preceding earthquake.

" 9 Um iP 21 00 09.6

" 9 Um iP 22 03 34.9

" 10 Ud iPKP1 00 16 28.4
De iPKP1 00 16 38.5
Fiji Islands (h = 590 km).

" 10 Up iP 00 23 47.7
Um iP 00 23 21.2
Ud iP 00 23 47.3 D
Aleutian Islands (h = 30 km).

" 10 Um iP 00 41 52.4

" 10 Ki iPKP1 06 44 14.9
Um iPKP1 06 44 24.0 D
New Zealand (h = N).

" 10 Um iPKP 08 06 08.2
Ud iPKP 08 06 18.2
Solomon Islands (h = 55 km).

" 10 Ki iP 10 08 49.1
Alaska (h = 120 km).

" 10 Up iP 12 42 31.2
Ki iP 12 43 47.0
Sk iP 12 43 14.2
Um iP 12 43 12.0
Ud iP 12 42 35.5
Greece.

" 10 Ud iP 16 16 23.4
Kurile Islands.

" 10 Ki iP 16 30 21.5
micr sec
Mx E 0.8 18
Mx N 0.5 17
Sk iP 16 30 09.1
Um iP 16 30 23.8
Ud iP 16 30 12.9
Ecuador (h = 45 km).

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

1974							
Mar.	10	Ud	eP		19	10	01
		Greece.					
"	10	Up	il		21	55	34.6
		Sk	il		21	56	11.9
		Um	il		21	56	13.4
		Ud	iP		21	55	35.3
			il		21	55	40.6
		Greece (h = 15 km).					
"	11	Ud	iP		01	31	33.7
"	11	Um	iPKP		05	52	34.4
		Ud	iPKP		05	52	25.6
		Scotia Sea (h = N).					
"	11	Up	iP		11	48	03.0
			ipP		11	48	43.4
			i		11	50	53.8
			iS		11	56	33
			iScS		11	57	39
			iP'P'		12	16	23.2
					micr		sec
			P	Z'	0.8		1.5
			pP	Z'	0.5		1.5
			Mx	E	1.6		17
			Mx	N	1.4		20
			Mx	Z	2.7		18
		Ki	iP		11	47	13.4 C
			ipP		11	47	52.8
					micr		sec
			P	Z'	0.3		1.4
			pP	Z'	0.2		1.3
			Mx	E	2.1		18
			Mx	N	2.8		20
			Mx	Z	2.6		21
		Sk	iP		11	47	49.3
		Um	iP		11	47	36.2 C
			ipP		11	48	15.8
			iS		11	55	43
			iScS		11	57	06
			iP'P'		12	16	35.7
			i		12	16	47.2
		Ud	iP		11	48	07.9 C
			ipP		11	48	48.6
		De	iP		11	48	27.2
			i		11	51	37.2
		Kurile Islands.					
		h = 160 km (Up,Ki,Um,Ud).					
		m = 6.2, M = 5.5 (Up,Ki).					
		M uncorrected for focal depth.					
"	11	Sk	eSgl		12	16	47
		Um	iSgl		12	15	14.0
		Western USSR.					
		Explosion.					
"	11	Up	iSgl		12	25	26.0
		(cont.)					

1974							
Mar.	11	(cont.)					
		Ki	iSn		12	26	30.4
			iSgl		12	27	19.4
		Sk	iSgl		12	27	12.0
		Um	iSgl		12	25	41.0
			iRg		12	26	16.1
		Ud	iSgl		12	26	25.9
		De	iSgl		12	26	51.6
		Western USSR.					
		Explosion.					
"	11	Um	iSgl		12	30	08.7
		Western USSR.					
		Explosion.					
"	11	Up	eP		13	02	03
		Ki	iP		13	02	12.2
		Um	iP		13	02	01.5
		Ud	iP		13	02	19.3
		Hindu Kush.					
		Intermediate depth.					
"	11	Ud	iPKPl		14	45	58.4
"	11	Um	iP		16	48	54.7
		Ud	iP		16	48	56.5
"	11	Ud	iP		16	54	10.5
		Ryukyu Islands.					
"	11	Up	iP		20	29	00.9 C
			i		20	29	04.7
		Ki	iP		20	29	37.6 C
		Sk	iP		20	29	35.9
		Um	iP		20	29	14.6
		Ud	iP		20	29	15.8 C
		De	iP		20	28	59.3 C
		Iran (h = 45 km).					
"	11	Ud	iP		20	53	24.6
		Japan (h = 50 km).					
"	12	Up	eP		01	52	26
		Ki	iP		01	53	05.0
		Um	iP		01	52	40.1
			i		01	52	47.9
		Ud	iP		01	52	41.2
		De	eP		01	52	24
		Iran (h = 35 km).					
"	12	Ud	iP		06	35	22.9
"	12	Up			micr		sec
			Mx	N	0.8		16
		Ki	iP		07	00	14.8
					micr		sec
			P	Z'	0.1		1.0
		(cont.)					

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

1974 Mar.	12	(cont.)				
		Ki			micr	sec
			Mx	E	1.1	13
			Mx	N	1.1	15
		Um	iP		06 59 51.3	
		Ud	iP		06 59 48.8	
		Turkey-Iran (h = 50 km).				
		M = 4.7 (Up,Ki).				
"	12	Ud	iPKPl		07 37 48.2	
"	12	Up	eP		08 42 03	
		Um	iP		08 41 34.5	
		Ud	iP		08 42 06.4	
		De	iP		08 42 23.9	
		Kurile Islands (h = 55 km).				
"	12	Um	iP		10 25 56.9	
		Alaska (h = 55 km).				
"	12	Up	iSn		11 48 43.4	
			iSgl		11 48 54.7	
		Ki	iSgl		11 51 25.1	
		Sk	iSgl		11 50 45.0	
		Um	iSgl		11 49 28.6	
		Ud	iSn		11 49 31.2	
			iSgl		11 49 57.5	
		De	iSgl		11 50 24.4	
		Esthonia.				
		Explosion.				
"	12	Up	iSgl		12 09 47.2	
		Sk	iSgl		12 11 37.4	
		Um	i		12 09 33.6	
			iSgl		12 10 10.0	
		Ud	iSgl		12 10 53.4	
		Western USSR.				
		Explosion.				
"	12	Um	iSgl		13 03 07.3	
		De	iSgl		13 03 49.6	
		Esthonia.				
		Explosion.				
"	12	Up	iP		13 55 22.9	
		Sk	iP		13 55 22.1	
		Um	iP		13 55 04.4	
		Ud	iP		13 55 31.7	
		De	iP		13 55 44.1	
		Japan (h = 80 km).				
"	12	Up	i		15 19 31.8	
			i(Sgl)		15 20 12.6	
		Ud	i		15 20 24.3	
			i(Sgl)		15 20 43.9	
		De	i		15 18 11.5	
			i(Sgl)		15 19 04.5	
"	12	Ud	iP		15 34 51.5	
1974 Mar.	12	Up	i(P)		16 22 56.4	
"	12	Sk	iP		18 10 09.9	
"	12	Up	iP		18 19 50.1	
			i		18 19 59.5	
					micr	sec
			P	Z'	0.1	1.1
		Ki	iP		18 19 24.4	
		Sk	iP		18 19 53.2	
			i		18 20 02.7	
		Um	iP		18 19 34.0	
		Ud	iP		18 19 59.0	
			i		18 20 08.8	
		Ryukyu Islands (h = 70 km).				
		Interpreting the second phase at Up,Sk,Ud as pP gives h = 35 km.				
"	12	Up	iP		18 26 44.5	
		Ki	iP		18 27 51.7 C	
		Sk	iP		18 27 23.5	
		Um	iP		18 27 16.9	
		Ud	iP		18 26 52.5 C	
		De	iP		18 26 19.2	
		Dodecanese Islands (h = 40 km				
"	12	Up	iP		23 29 56.4	
		Ki	iP		23 29 05.4	
		Um	iP		23 29 29.5	
			i		23 29 42.2	
		Ud	eP		23 30 01	
		Kurile Islands.				
"	13	Up			micr	sec
			Mx	N	0.8	19
			Mx	Z	0.7	18
		Um	iP		00 28 52.8	
		Ud	eP		00 29 10	
		Talaud Islands (h = 10 km).				
"	13	Up	iP		03 03 10.0	
		Ki	iP		03 02 50.8	
		Sk	eP		03 03 13	
		Ud	iP		03 03 18.0	
		Leyte-Samar (h = 100 km).				
"	13	Up	iP		06 56 57.9	
		Um	iP		06 56 53.6	
		Ud	iP		06 57 12.8	
		Nepal (h = 70 km).				
"	13	Up	ePKP		08 28 29	
		Um	ePKP		08 28 25	
		Ud	ePKP		08 28 31	
		De	iPKP		08 28 37.1	
			i		08 28 46.0	
		Solomon Islands (h = 55 km).				

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

1974 Mar.	13	Um	iP	08 32 30.5	
"	13	Up	iPKPl	08 49 58.0	
		Sk	ePKP	08 49 57	
		Um	iPKP	08 49 51.9	
		Ud	iPKPl	08 49 59.8	C
		De	iPKPl	08 50 10.6	C
		Tonga-Kermadec Islands (h = 490 km).			
"	13	Ud	iSgl	11 22 56.0	
		De	iSgl	11 23 15.5	
"	13	Up	iSgl	11 27 50.7	
		Sk	eSgl	11 29 41	
		Um	iSgl	11 28 10.7	
		Ud	iSgl	11 28 53.9	
		De	iSgl	11 29 13.6	
		Western USSR. Explosion.			
"	13	Um	iPKPl	11 31 40.7	D
"	13	Sk	iP	11 48 13.0	
		Um	iP	11 48 28.1	
		Ud	iP	11 48 20.4	
		De	iP	11 48 27.1	
		Guatemala (h = 90 km).			
"	13	Up	iSgl	12 14 36.0	
		Ki	iSgl	12 16 41.3	
		Sk	iSgl	12 16 17.0	
		Um	iS*	12 14 44.5	
			iSgl	12 14 52.0	
		Ud	iSgl	12 15 34.3	
		De	iSgl	12 15 59.9	
		Western USSR. Explosion.			
"	13	Ud	iSgl	12 50 28.5	
		De	iSgl	12 50 18.6	
"	13	Ud	iSgl	13 35 33.0	
		De	iSgl	13 34 42.1	
"	13	Ud	i	15 15 39.2	
			iSgl	15 16 01.3	
		De	ePgl	15 13 16	
			i	15 14 00.7	
			iSgl	15 14 07.4	
"	13	De	iPgl	15 46 25.2	
			iSgl	15 47 08.7	
"	13	Ki	iP	16 54 08.0	
		Um	eP	16 54 13	
		Ud	iP	16 54 34.8	
		Halmahera (h = N).			

1974 Mar.	13	Up	iSgl	17 14 35.0	
		Sk	eSgl	17 14 58	
		Ud	iPgl	17 13 13.1	
			iSgl	17 13 35.6	
			iRg	17 13 44.9	
		De	iSgl	17 14 33.1	
		Oslo Fjord, Norway, 59.5°N, 10.7°E. Origin time = 17 12 45. Checked with Kongsberg readings.			
"	13	Up	eP	17 26 11	
			i	17 26 31.1	
		Ki	iP	17 27 18.0	
		Sk	iP	17 26 48.5	
		Um	eP	17 26 44	
		Ud	iP	17 26 15.9	
			i	17 26 17.3	
			i	17 26 43.3	
		De	iP	17 25 44.5	
		Crete (h = 50 km).			
"	13	Up	iP	18 22 20.4	
		Ud	iP	18 22 27.7	
		De	iP	18 21 52.4	
		Greece.			
"	13	Up	iP	19 30 14.2	
		Um	eP	19 30 54	
		Ud	iP	19 30 22.6	
		Greece.			
"	13	Ud	iP	23 45 29.5	
"	13	Ud	iP	23 52 43.8	
"	13	Um	i(Sgl)	23 59 46.0	
"	14	Um	iP	00 43 38.1	
"	14	De	iP	01 29 06.3	
"	14	Um	i(Sgl)	02 15 11.5	
"	14	Um	iP	08 40 11.2	
		Ud	iP	08 40 38.6	
		De	iP	08 40 56.1	
		Aleutian Islands (h = N).			
"	14	De	iPKP	09 42 28.6	
		New Hebrides Islands (h = 180 km).			
"	14	De	iPKP	10 31 48.5	
		New Hebrides Islands (h = 1 km).			

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

1974					
Mar.	14	Ud	iP	11 04 04.3	
		Mindanao (h = 80 km).			
"	14	Um	i(P)	11 29 49.7	
"	14	Up	iSg1	12 17 21.8	
		Ki	iSg1	12 19 19.2	
		Sk	iSg1	12 19 09.5	
		Um	iSg1	12 17 36.0	
			iRg	12 18 04.8	
		Ud	iSg1	12 18 20.3	
		De	iSg1	12 18 43.7	
			iSg2	12 18 55.0	
		Western USSR.			
		Explosion.			
"	14	Up	iSg1	13 19 40.4	
		Um	iSg1	13 20 15.7	
		Ud	iSg1	13 20 44.5	
		De	iSg1	13 21 08.8	
		Esthonia.			
		Explosion.			
"	14	Ki	iSn	15 01 54.9	
			iSg1	15 02 12.5	
		Um	iSg1	15 03 38.6	
		Northwest USSR-Norway.			
		Explosion.			
		Checked with Tromsoe readings.			
"	14	De	i(P)	15 18 23.5	
"	14	Up	iPKP2	15 36 40.5	
		Um	iPKP1	15 36 23.8	
		Ud	iPKP1	15 36 35.4	
"	14	Ud	iPKP1	17 54 37.2	
		De	iPKP1	17 54 48.5	
"	14	Ud	iPKP1	19 55 00.5	
		De	iPKP1	19 55 11.4	
"	14	Up	iP	21 01 45.5	
		Sk	eP	21 02 28	
		Um	iP	21 02 27.7	
		Ud	iP	21 01 51.2	
			i	21 01 54.2	
		De	eP	21 01 14	
		Albania (h = N).			
"	14	Ud	iP	21 10 30.6	
		Japan (h = 270 km).			
"	14	Up	iPKP	21 18 01.3 D	
			iSKP1	21 21 23.6	
		(cont.)			

1974						
Mar.	14	(cont.)				
		Up	iSKP	21 21 35.8		
				micr	sec	
			PKP	Z' 0.1	1.4	
			Mx	E 2.1	22	
			Mx	N 2.8	22	
			Mx	Z 4.8	22	
		Ki	iPKP	21 17 47.5		
				micr	sec	
			PKP	Z' 0.1	1.0	
			Mx	E 2.0	21	
			Mx	N 1.8	20	
			Mx	Z 2.4	20	
		Sk	iPKP	21 17 58.1		
		Um	iPKP	21 17 53.8	D	
			iPP	21 19 41.5		
		Ud	iPKP	21 18 03.0	D	
			iSKP1	21 21 25.3		
		De	i(PKP)	21 17 55.9		
			iPKP	21 18 10.1	D	
			iSKP1	21 21 35.8		
			iSKP	21 21 41.1		
		New Hebrides Islands (h = 20 km).				
		M = 6.1 (Up,Ki).				
"	14	Ki	ePKP	21 54 24		
		Um	iPKP	21 54 31.0		
		New Hebrides Islands (h = N).				
"	14	Um	iP	22 22 06.6		
"	14	Ki	iPKP	23 12 17.6		
		Um	i(PKP)	23 12 21.4		
			iPKP	23 12 25.2		
		Ud	iPKP1	23 12 24.7		
		De	iPKP1	23 12 34.8		
		Fiji Islands (h = 540 km).				
"	15	Um	i(P)	02 29 26.0		
			i	02 30 09.0		
"	15	Sk	iSg1	09 05 38.1		
		Ud	iSg1	09 05 29.2		
		De	iSg1	09 06 30.5		
		West coast of Norway, 60.6°N, 5.2°E.				
		Origin time = 09 03 16.				
		By combination with Bergen and Kongsberg readings.				
"	15	Up	iSg1	09 23 51.7		
		Sk	iSg1	09 23 35.6		
		Um	iSg1	09 25 05.5		
		Ud	iSg1	09 22 51.5		
		(cont.)				

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

1974 Mar.	15	(cont.)			
		De	iSgl	09 23 40.5	
		South Norway, 59.7°N, 7.6°E.			
		Origin time = 09 21 20.			
		By combination with Bergen and Kongsberg readings.			
"	15	Ki	i(P)	10 03 12.0	
		Um	i(P)	10 04 02.0	
"	15	Up	iP	10 11 49.0	
		Ud	iP	10 11 59.4	
		Luzon.			
"	15	Up	iSgl	10 44 34.9	
		Ki	iSgl	10 47 09.5	
		Sk	eSgl	10 46 27	
		Um	iSgl	10 45 10.4	
		Ud	iSgl	10 45 42.9	
		De	iSgl	10 46 09.8	
		Esthonia.			
		Explosion.			
"	15	Um	i(Sgl)	13 25 04.0	
"	15	Ud	iPKPl	16 46 06.6	
		De	iPKPl	16 46 18.5 D	
"	15	Up	iP	21 24 41.3	
		Ki	iP	21 24 05.9	
		Sk	eP	21 24 38	
		Um	iP	21 24 21.6	
			i	21 24 33.3	
		Ud	iP	21 24 48.2	
		South of Japan (h = 30 km).			
"	15	Ki	eP	21 56 58	
		Um	iP	21 57 00.6	
		Ud	iP	21 57 24.9	
		Panay (h = N).			
"	15	Up	iP	22 22 16.1	
			ipP	22 22 28.8	
				micr sec	
			P Z'	0.1 1.1	
		Ki	iP	22 21 25.9	
		Sk	iP	22 22 05.3	
		Um	iP	22 21 49.0	
			ipP	22 22 01.5	
		Ud	iP	22 22 20.3	
			ipP	22 22 32.9	
		De	iP	22 22 42.7	
		Kurile Islands.			
		h = 45 km (Up,Um,Ud).			
"	16	De	iPKPl	04 13 56.8	
1974 Mar.	16	Sk	eP	04 30 15	
		Um	iP	04 30 32.7	
"	16	Ki	iSn	07 35 02.8	
			iS*	07 35 15.0	
		Um	iSgl	07 36 50.5	
		Northwest USSR-Norway.			
		Explosion.			
"	16	Up	iP	09 31 55.6	
			i	09 32 04.9	
		Ki	eP	09 31 22	
		Um	iP	09 31 35.0	
		Ud	iP	09 32 02.6	
		Bonin Islands (h = 10 km).			
"	16	Ki	iSgl	10 13 20.8	
		Um	iSn	10 13 49.1	
			i	10 14 03.0	
			iSgl	10 14 16.6	
		Northwest USSR-Finland.			
		Explosion.			
"	16	Ki	iSgl	10 13 52.9	
		Um	i	10 14 32.9	
			iSgl	10 14 48.4	
		Northwest USSR-Finland.			
		Explosion.			
"	16	Ki	iSn	12 46 50.2	
			iSgl	12 47 12.6	
		Um	iSn	12 47 35.8	
			i	12 47 49.7	
			iSgl	12 48 06.5	
		Probably northwest USSR.			
		Explosion.			
"	16	Up	iP	13 21 51.8	
		Ki	iP	13 20 58.6	
		Um	iP	13 21 24.3	
		Ud	iP	13 21 53.0	
			ipP	13 22 35.2	
		Aleutian Islands.			
		h = 170 km (Ud).			
"	16	Ud	i(P)	14 30 17.1	
"	16	Ud	i(Sg2)	15 17 13.0	
			iRg	15 17 15.7	
"	16	Ud	iPKPl	15 20 21.4	
		De	iPKPl	15 20 33.2	
		Tonga-Kermadec Islands (h = 160 km).			
"	16	Up	iP	16 09 23.4	
		Ki	iP	16 08 44.8	
		(cont.)			

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

1974 Mar.	16	(cont.)				
		Um	iP		16 09 06.2	
		Ud	iP		16 09 16.6	
		California (h = N).				
"	16	Um	iP		19 53 42.7	
"	16	Up	iRg		22 03 20.3	
		Ud	iRg		22 03 01.7	
		Central Sweden.				
"	17	Up	iP		00 03 26.9	
		Ud	iP		00 03 36.7	
		Kurile Islands (h = 100 km).				
"	17	Up	iP		01 30 45.4	D
		Ki	iP		01 29 59.1	D
		Um	iP		01 30 20.2	D
		Ud	iP		01 30 51.5	D
		De	iP		01 31 09.0	
		Kurile Islands (h = 110 km).				
"	17	Up	iP		04 09 33.4	D
			ipP		04 09 50.0	
			iPP		04 12 47.4	
					micr sec	
			P	Z'	0.4 1.3	
		Ki	iP		04 09 33.7	D
			ipP		04 09 49.6	
					micr sec	
			P	Z'	0.4 1.4	
		Sk	iP		04 09 47.8	
			ipP		04 10 04.6	
		Um	iP		04 09 30.3	D
			ipP		04 09 46.9	
		Ud	iP		04 09 43.6	D
			i		04 09 56.3	
			ipP		04 09 59.6	
		De	iP		04 09 42.2	D
			ipP		04 09 58.7	
		Sumatra.				
		h = 60 km (Up,Ki,Sk,Um,Ud, De).				
		m = 6.3 (Up,Ki).				
"	17	Up	iS*		06 48 32.6	
			iSgl		06 48 40.6	
					micr sec	
			Sgl	Z'	0.1 1.0	
		Ki	iPn		06 44 23.8	
			iSn		06 45 23.0	
			iS*		06 45 43.2	
					micr sec	
			S*	Z'	0.1 0.6	
		Sk	iSgl		06 48 10.6	
		Um	iSn		06 46 00.5	
			i		06 46 15.8	
			iS*		06 46 32.2	
		(cont.)				

1974 Mar.	17	(cont.)				
		Um	iSgl		06 46 39.2	
		Ud	iSn		06 48 13.5	
			iSgl		06 49 12.8	
		De	iSgl		06 50 41.1	
		Northwest USSR.				
		Origin time = 06 43 12.				
		Explosion.				
"	17	Ud	iP		07 40 06.6	
		Sudan (h = N).				
"	17	Ud	iPKP		11 30 34.6	
		Loyalty Islands (h = 15 km).				
"	17	Ud	iP		13 05 18.6	
"	17	Um	iP		13 36 49.9	
		Gulf of Aden (h = N).				
"	17	Up	iP		16 24 05.8	
		Ki	iP		16 23 38.1	
		Sk	iP		16 24 06.4	
		Um	iP		16 23 48.1	
		Ud	iP		16 24 14.6	D
		Ryukyu Islands (h = 70 km).				
"	17	Up	iP		19 07 11.3	
		Ki	iP		19 06 47.4	
		Sk	eP		19 07 14	
		Um	iP		19 06 55.1	
		Ud	iP		19 07 20.2	
		Formosa (h = 80 km).				
"	17	Sk	ePKPl		19 31 31	
		Um	iPKPl		19 31 27.0	
		Ud	iPKPl		19 31 39.2	
"	17	Ud	iPKPl		19 53 19.3	
		De	iPKPl		19 53 30.4	
"	18	Um	iPKP		04 57 38.4	
		South Sandwich Islands (h = N).				
"	18	Ki	iPn		05 00 10.2	
			iPgl		05 00 15.9	
			iSn		05 00 35.5	
			iSgl		05 00 45.3	
		Sk	e(Sgl)		05 02 22	
		Um	iSgl		05 02 13.5	
		Coast of northern Norway, 68.3°N, 15.0°E.				
		Origin time = 04 59 38.				
"	18	Ki	iPgl		05 37 40.0	
			iSgl		05 38 14.7	
		Um	iSgl		05 40 17.4	
		(cont.)				

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

1974 Mar. 18 (cont.)
Off coast of north Norway, 70.1°N, 17.3°E.
Origin time = 05 36 55.
By combination with Tromsoe and Finnish station readings.

" 18

Up	iP		10 48 42.9	
Ki	iP		10 48 06.7	
Um	iP		10 48 21.7	
Ud	iP		10 48 50.5	
De	iP		10 49 04.3	

Japan (h = 300 km).

" 18

Ud	iPKPl		10 58 54.9	
De	iPKPl		10 59 05.8	

Tonga-Kermadec Islands (h = 590 km).

" 18

Up	iPKP		11 15 26.0	
	i		11 15 44.9	
			micr	sec
	i	Z'	0.1	1.5
	Mx	E	1.4	18
	Mx	N	1.7	19
	Mx	Z	1.8	17
Ki	iPKP		11 15 10.4	
	i		11 15 29.1	
			micr	sec
	i	Z'	0.1	1.0
	Mx	E	2.4	21
	Mx	N	2.1	20
	Mx	Z	3.3	20
Um	iPKP		11 15 20.4	
	i		11 15 37.2	
	iPP		11 17 38.7	
Ud	iPKP		11 15 28.6	
	i		11 15 45.1	
De	iPKP		11 15 32.5	
	ipPKP		11 15 41.1	

Samoa Islands.
h = 30 km (De).
M = 5.9 (Up,Ki).
PKP is followed after in average 17.7 sec by a larger onset - another event in the same area?

" 18

Up	iSgl		12 36 30.8
Sk	eSgl		12 38 09
Um	iSgl		12 36 46.7
	iRg		12 37 18.3
Ud	iSgl		12 37 32.0
De	iSgl		12 38 03.2

Western USSR.
Explosion.

1974 Mar. 18

Up	iP		23 50 47.3	C
	ipP		23 51 23.8	
			micr	sec
	P	Z'	0.1	0.9
	pP	Z'	0.4	1.7
Ki	iP		23 50 19.5	
	ipP		23 50 55.5	
			micr	sec
	pP	Z'	0.3	1.9
Sk	iP		23 50 48.3	C
Um	iP		23 50 29.9	C
	ipP		23 51 05.9	
Ud	iP		23 50 56.5	C
	ipP		23 51 32.8	

East China Sea.
h = 140 km (Up,Ki,Um,Ud)
m = 5.7 (Up,Ki).

" 19

Um	iPKP		08 03 08.1
Ud	iPKP		08 03 19.3

Fiji Islands (h = 570 km).

" 19 Ud iP 08 54 16.9

" 19

Ki	iPn		09 28 47.7
	iSn		09 29 43.0
Um	iSn		09 30 41.8
	iSgl		09 31 20.6

Northwest USSR.
Explosion.

" 19 Um iP 10 38 30.2

" 19

Sk	eSgl		11 56 25
Ud	iSgl		11 56 12.6

Coast of southwest Norway, 60.6°N, 5.1°E.
Origin time = 11 53 58.
By combination with Bergen and Kongsberg readings.

" 19

Up	iP		12 12 25.3 D
Ki	iP		12 11 47.6
Sk	eP		12 12 20
Um	iP		12 12 03.8 D
Ud	iP		12 12 32.7

Japan (h = 60 km).

" 19 Um iSgl 12 12 31.7
Western USSR.
Explosion.

" 19 Um iSgl 12 22 13.6
Eastern Finland.
Explosion?

" 19 Up iP 12 44 37.4
(cont.)

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

1974
Mar. 19 (cont.)
Um iP 12 44 22.3
Ud iP 12 44 46.3
Formosa (h = 60 km).

" 19 Ud i(P) 14 00 19.9

" 19 Ki iP 17 14 03.7
Crete (h = N).

" 20 Up iP 04 02 33.1
Ki iP 04 01 59.4
Um iP 04 02 14.0
Ud iP 04 02 39.8
Japan (h = 110 km).

" 20 Ud iP 07 33 44.5

" 20 Up iP 07 58 25.1
Ud iP 07 58 37.3

" 20 Ki i(P) 08 23 25.5
Sk e(P) 08 23 43
Um i(P) 08 23 32.4

" 20 At 09 01 and 09 52 several explosions off coast of south Sweden are recorded at Up,Ud and De.

" 20 Ud iP 09 41 36.0

" 20 De i(Pg1) 10 23 28.3
i(Sg1) 10 23 43.3
Probably explosion off coast of south Sweden.

" 20 Up iSg2 11 18 19.9
Ki i(P*) 11 15 27.6
iPg1 11 15 29.5
i 11 15 52.8
iSg1 11 16 05.2
micr sec
Sg1 Z' 0.1 0.5
Sk iPg1 11 15 31.0
iSg1 11 16 09.3
Um iPg1 11 15 45.2
iSn 11 16 19.1
iSg1 11 16 33.1
Ud iSn 11 17 27.1
iSg1 11 17 58.7
De eSg2 11 20 01
Nordland, Norway,
66.3°N, 14.5°E.
Origin time = 11 14 42.
Explosion.

1974
Mar. 20 Um iSg1 12 21 56.1
Western USSR.
Explosion.

" 20 Um iSg1 12 57 46.2
Lake Ladoga region.
Explosion.

" 20 Up iPn 15 19 11.3
iSn 15 19 59.8
i 15 20 08.0
iS* 15 20 12.1
iSg1 15 20 15.4
i 15 20 22.3
Sk iSg2 15 22 41.6
Um iSg1 15 22 03.3
iSg2 15 22 14.9
Ud iSg1 15 20 56.1
De iPn 15 19 07.8
iPg1 15 19 16.6
iSg1 15 20 08.3
i 15 20 16.0
Coast of Latvia,
56.2°N, 20.6°E.
Origin time = 15 18 09.
Explosion.

" 20 Up iSg1 15 31 52.1
Sk iSg1 15 33 22.3
Um iSg1 15 33 55.0
Ud iPg1 15 31 08.1
iSg1 15 31 30.6
iRg 15 31 42.7
De iSg1 15 31 41.4
Västergötland, Sweden,
58.4°N, 14.0°E.
Origin time = 15 30 41.
Explosion.

" 20 De iP 15 38 21.6
Hindu Kush.
Intermediate depth.

" 20 Um iP 15 46 27.4
Aleutian Islands (h = 90 km).

" 20 Um iP 17 04 16.0
Ud iP 17 04 45.2
Japan-Kurile Islands.

" 20 Um iP 17 07 36.1
Mariana Islands (h = N).

" 20 Um iPKP1 17 43 43.5

" 20 Um iP 20 47 41.9
Japan.

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

1974 Mar.	20	Up	iP		22 12 48.8	
		Um	iP		22 12 27.6	
		Ud	iP		22 12 55.2	
		Japan (h = 80 km).				
"	20	Up	iP		23 43 42.4	
		Ud	iP		23 43 48.0	
			i		23 43 57.4	
		Greece (h = 110 km).				
"	21	Ud	iPKPl		00 30 02.6	
"	21	Up	iP		06 00 19.3	C
					micr	sec
			P	Z'	0.1	1.2
			Mx	N	0.7	15
			Mx	Z	1.1	16
		Ki	iP		05 59 40.1	C
					micr	sec
			P	Z'	0.1	1.0
			Mx	E	1.6	15
			Mx	N	1.3	17
		Sk	iP		06 00 13.2	
		Um	iP		05 59 57.5	C
			iS		06 08 59	
		Ud	iP		06 00 26.5	C
		De	iP		06 00 41.8	
		Japan (h = 45 km).				
		m = 5.7, M = 5.3 (Up,Ki).				
"	21	Ki	iPgl		12 13 26.1	
			iSn		12 14 04.3	
			iS*		12 14 17.4	
		Sk	iSgl		12 17 10.5	
		Um	iSgl		12 15 53.8	
		Northwest USSR-Norway.				
		Explosion.				
"	21	Up	iSgl		12 16 22.3	
		Ki	iSgl		12 18 26.6	
		Sk	eSgl		12 18 12	
		Um	iSgl		12 16 39.6	
			iRg		12 17 13.0	
		Ud	iSgl		12 17 21.6	
		De	iSgl		12 17 51.1	
		Western USSR.				
		Explosion.				
"	21	Up	iP		13 53 17.8	
		Ki	iP		13 54 00.1	
		Sk	eP		13 53 27	
		Um	iP		13 53 41.3	
		Ud	iP		13 53 11.0	
		Atlantic Ocean (h = N).				
"	21	Ud	iRg		14 03 40.9	
"	21	Ki	eSgl		14 41 24	
		(cont.)				

1974 Mar.	21	(cont.)				
		Northwest USSR.				
		Explosion.				
"	21	Ki	iSgl		17 39 37.7	
		Sk	iSgl		17 39 44.1	
		Um	iSn		17 39 51.9	
			iSgl		17 40 05.6	
		Nordland, Norway,				
		66.5°N, 14.1°E.				
		Origin time = 17 38 10.				
		Explosion.				
"	21	Up	iS*		17 55 26.3	
			iSgl		17 55 31.1	
		Ki	iSgl		17 56 10.5	
		Sk	eSgl		17 56 38	
		Um	iSgl		17 54 50.4	
		Ud	iSgl		17 56 27.1	
		De	eSgl		17 57 08	
		Lake Ladoga region.				
		Explosion.				
"	22	Ki	iP		01 34 05.1	
		Aleutian Islands (h = N).				
"	22	Up	iP		02 10 44.8	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		02 10 25.9	
		Um	iP		02 10 31.9	
			ipP		02 10 43.0	
		Ud	iP		02 10 54.3	
			ipP		02 11 06.3	
		De	iP		02 11 00.3	
			ipP		02 11 11.7	
		Luzon.				
		h = 45 km (Um,Ud,De).				
"	22	Up	iPKPl		03 54 13.7	
					micr	sec
			PKPl	Z'	0.1	1.0
		Sk	iPKPl		03 54 06.0	
		Um	iPKPl		03 54 01.0	
		Ud	iPKPl		03 54 15.1	
		De	iPKPl		03 54 24.4	
		Kermadec Islands (h = 55 km).				
"	22	Up	iP		05 56 02.9	
		Ki	iP		05 55 14.2	D
			i		05 55 27.1	
		Um	iP		05 55 41.8	D
		Ud	iP		05 56 06.2	D
		De	iP		05 56 29.7	D
		Unimak Island (h = N).				
"	22	Up	iP		07 14 51.4	
		Ki	eP		07 14 01	
		Sk	iP		07 14 31.3	
		Um	iP		07 14 28.8	
		Ud	iP		07 14 53.3	
			i		07 15 04.4	
		Unimak Island (h = N).				

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

1974 Mar.	22	Ki	iSn	09 01 16.9	
			iSgl	09 01 35.2	
		Um	iSgl	09 03 05.0	
		Northwest USSR-Norway.			
		Explosion.			
"	22	Ki	iP	09 07 13.3	
		Um	eP	09 07 22	
		Ud	iP	09 07 46.7	
		Formosa (h = 60 km).			
"	22	Sk	eSgl	09 23 14	
"	22	De	iPgl	10 19 10.4	
			iSgl	10 19 26.7	
		Probably explosion off coast of south Sweden.			
"	22	Ki	iPn	10 27 45.3	
			iSn	10 28 44.4	
			iSgl	10 29 06.2	
		Sk	iSgl	10 31 32.0	
		Um	iSn	10 29 24.2	
			i	10 29 39.3	
			iSgl	10 29 57.8	
		Northwest USSR.			
		Explosion.			
"	22	De	e(Pgl)	10 29 31	
			iSgl	10 29 49.5	
		Explosion off coast of south Sweden?			
"	22	Ki	ePn	10 31 06	
			iSn	10 32 05.5	
			iSgl	10 32 28.3	
		Sk	eSgl	10 34 52	
		Um	iSn	10 32 44.7	
			i	10 32 58.6	
			iSgl	10 33 17.5	
		Northwest USSR.			
		Explosion.			
"	22	Um	iSgl	12 18 48.1	
		De	eSgl	12 20 00	
		Western USSR.			
		Explosion.			
"	22	Up	iSn	12 23 02.8	
			iSgl	12 23 14.9	
		Ki	i	12 25 23.6	
			iSgl	12 25 51.9	
		Sk	iSgl	12 25 09.8	
		Um	iSgl	12 23 49.6	
		Ud	iSgl	12 24 19.5	
		De	eSn	12 24 11	
			iSgl	12 24 45.1	
		Esthonia.			
		Explosion.			

1974 Mar.	22	Up	iPKPl	14 32 11.9	
		Um	i(PKP)	14 32 00.4	
			iPKP	14 32 07.7	
		Ud	iPKPl	14 32 14.7	
		De	iPKPl	14 32 25.8	D
		Fiji Islands (h = 610 km).			
"	22	Up	iP	17 06 45.6	
		Ki	eP	17 08 02	
		Sk	iP	17 07 27.9	
		Um	iP	17 07 25.2	
			i	17 07 34.3	
		Ud	iP	17 06 52.1	
			i	17 06 57.9	
		De	iP	17 06 12.3	
		Greece-Albania (h = N).			
"	22	Up	iP	18 21 22.7	C
			i	18 21 28.0	
				micr	sec
			P Z'	0.1	0.7
			Mx E	0.8	11
			Mx N	1.7	12
			Mx Z	1.3	10
		Ki	iP	18 20 56.8	C
			i	18 21 01.8	
			iSS	18 29 15	
				micr	sec
			P Z'	0.1	0.8
			Mx E	2.2	12
			Mx N	3.6	16
			Mx Z	1.8	11
		Sk	iP	18 21 31.8	C
		Um	iP	18 21 03.4	C
			i	18 21 08.7	
			i	18 22 38.5	
			iPcP	18 23 13.2	
		Ud	iP	18 21 37.5	
			i	18 21 42.6	
		De	iP	18 21 47.9	C
		USSR-Mongolia (h = N).			
		m = 5.7, M = 5.4 (Up,Ki).			
		Double P, in average 5.2 sec apart. If the second phase is interpreted as pP, the focal depth is 25 km.			
"	22	Up	iP	19 14 22.2	
				micr	sec
			P Z'	0.1	1.1
			Mx E	0.7	14
			Mx N	1.5	17
			Mx Z	1.7	16
		Ki	iP	19 13 23.4	
			eS	19 15 36	
				micr	sec
			Mx E	1.1	15
			Mx N	2.0	15
		(cont.)			

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

1974 Mar.	22	(cont.)				
		Ki			micr	sec
			Mx	Z	0.6	10
		Sk	iP		19 13	25.5
			iS		19 15	38.2
		Um	iP		19 13	56.1
			i		19 14	03.6
		Ud	iP		19 14	05.3
		De	iP		19 14	45.1
		Jan Mayen (h = 20 km).				
		(M = 4.3, Up,Ki).				
"	22	Um	iP		20 49	41.1
"	22	Ud	iP		23 41	14.8
		De	iP		23 41	14.6
		Tien-Shan.				
"	23	Up	iPKP		01 46	53.7
		Ki	iPKP		01 47	09.5
		Sk	ePKP		01 47	01
		Um	iPKP		01 47	01.9
		Ud	iPKP		01 46	51.9
		South Sandwich Islands				
		(h = 60 km).				
"	23	Um	i(P)		02 37	23.7
"	23	Up	iP		07 02	15.5
		Ki	iP		07 01	27.2
		Sk	eP		07 02	02
		Um	iP		07 01	49.5
		Ud	iP		07 02	20.4
		De	eP		07 02	40
		Kurile Islands (h = N).				
"	23	Ud	iP		07 10	48.9
		North Atlantic Ocean				
		(h = N).				
"	23	Up	iP		07 15	00.3
		Ki	iP		07 15	02.1
			ipP		07 15	08.3
		Sk	iP		07 14	35.1
			ipP		07 14	42.2
		Um	iP		07 15	04.5
		Ud	iP		07 14	40.1
			ipP		07 14	46.2
		North Atlantic Ocean.				
		h = 30 km (Ki,Sk,Ud).				
"	23	Up	iP		07 25	11.1
					micr	sec
			Mx	E	0.9	18
			Mx	N	0.7	16
			Mx	Z	1.8	19
		Ki	iP		07 25	14.7
		(cont.)				

1974 Mar.	23	(cont.)				
		Ki			micr	sec
			P	Z'	0.1	1.5
			Mx	E	0.7	15
			Mx	N	0.4	14
		Sk	iP		07 24	45.6
			ipP		07 24	53.2
		Um	iP		07 25	16.4
		Ud	iP		07 24	53.2
			ipP		07 25	01.4
		De	iP		07 24	51.5
		North Atlantic Ocean.				
		h = 40 km (Sk,Ud).				
		M = 4.6 (Up,Ki).				
"	23	Up	i		10 16	39.3
			iLgl		10 30	12
					micr	sec
			Mx	E	0.9	12
			Mx	N	1.2	14
			Mx	Z	1.4	12
		Ki	e		10 16	25
					micr	sec
			Mx	E	1.2	12
			Mx	N	2.8	10
		Sk	e		10 17	02
		Ud	iP		10 16	12.7
			i		10 17	03.6
		De	iP		10 16	10.6
		Sinkiang.				
"	23	Ud	iP		11 16	24.6
"	23	Ud	iSKPl		12 02	18.6
		New Hebrides Islands				
		(h = 40 km).				
"	23	Ud	iP		12 07	50.2
			i		12 07	58.3
"	23	Ki	iPgl		12 25	43.5
			iSn		12 26	25.9
			iSgl		12 26	47.0
		Sk	eSgl		12 29	18
		Um	iSn		12 27	13.2
			iSgl		12 27	50.7
		Northwest USSR.				
		Explosion.				
"	23	Ki	iPn		13 13	19.0
			iPgl		13 13	27.9
			iSn		13 14	07.7
			iSgl		13 14	24.5
		Um	iSgl		13 15	53.6
		Northwest USSR-Norway.				
		Explosion.				

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

1974 Mar.	23	Ki	eSn		13 34 42	
			iSgl		13 35 02.5	
		Northwest USSR.				
		Explosion.				
"	23	Up	iSgl		13 45 52.1	
		Um	iSgl		13 45 30.4	
		Ud	e(Sgl)		13 47 01	
		Lake Ladoga region.				
		Explosion.				
"	23	Up	iPKP1		14 47 01.4	
			ipPKP1		14 49 09.0	
			iSKP1		14 49 52.6	
			iPKS		14 50 44	
			iSKKP		14 58 15.6	
					micr	sec
			PKP1	Z'	1.3	0.8
			SKP1	Z'	5.4	2.0
			Mx	E	5.6	22
			Mx	N	8.3	22
			Mx	Z	9.7	19
		Ki	i(PKP)		14 46 41.0	
			i(PKP)		14 46 43.6	
			iPKP		14 46 51.9	
			iSKP1		14 49 34.0	
			iSKS		14 53 14	
					micr	sec
			(PKP)	Z'	0.1	0.9
			PKP	Z'	0.5	1.0
			SKP1	Z'	4.1	1.8
			Mx	E	8.4	19
			Mx	N	16	21
		Sk	i(PKP)		14 46 54.1	
			iPKP		14 47 01.6	
			epPKP		14 49 06	
			iSKP1		14 49 49.3	
		Um	i(PKP)		14 46 48.0	
			i(PKP)		14 46 51.0	
			iPKP		14 46 58.0	
			ipPKP		14 49 04.5	
			iSKP1		14 49 44.4	
		Ud	iPKP1		14 47 03.7	C
			ipPKP1		14 49 09.4	
			iSKP1		14 49 56.8	
			iPKKP		14 56 09.9	
			iSKKP		14 58 13.9	
		De	iPKP		14 47 12.8	
			iPKP1		14 47 13.7	
			ipPKP1		14 49 15.4	
			iSKP1		14 50 05.2	
		Tonga-Kermadec Islands.				
		h = 550 km (Up,Sk,Um,Ud,De).				
		M = 6.7 (Up,Ki).				
		M uncorrected for focal depth.				

1974 Mar.	23	Ud	iPKP1		14 54 36.2	
		De	iPKP1		14 54 46.7	
		Tonga-Kermadec Islands.				
		Origin time = 14 36 08.				
"	23	Ud	iPKP1		14 55 21.3	
		De	iPKP1		14 55 31.8	
		Tonga-Kermadec Islands.				
		Origin time = 14 36 53.				
"	23	Up	iPKP1		15 00 05.5	
			i		15 00 18.3	
		Ud	iPKP1		15 00 07.9	
			i		15 00 20.0	
		De	ePKP1		15 00 18	
		Tonga-Kermadec Islands.				
		Origin time = 14 41 39.				
"	23	Ud	iPKP1		15 05 02.3	
"	23	Ud	iPKP1		15 12 06.4	
		De	ePKP1		15 12 17	
		Tonga-Kermadec Islands.				
		Origin time = 14 53 38.				
"	23	Up	iPKP1		15 12 33.6	
					micr	sec
			PKP1	Z'	0.1	0.7
		Ki	i(PKP)		15 12 14.7	
			iPKP		15 12 23.3	
					micr	sec
			PKP	Z'	0.1	1.1
		Sk	i(PKP)		15 12 27.2	
			iPKP		15 12 36.8	
			iSKP1		15 15 19.3	
		Um	i(PKP)		15 12 20.8	
			i(PKP)		15 12 22.1	
			iPKP		15 12 33.1	
			iSKP1		15 15 14.4	
		Ud	iPKP1		15 12 35.5	
		De	iPKP1		15 12 45.9	
		Tonga-Kermadec Islands				
		(h = 570 km).				
"	23	Up	iPKP1		15 19 26.8	
		Um	iPKP		15 19 24.7	
		Ud	iPKP1		15 19 29.0	
		De	iPKP1		15 19 39.7	
		Tonga-Kermadec Islands.				
		Origin time = 15 01 01.				
"	23	Um	iP		15 22 38.5	
"	23	Ud	i(PKP1)		15 23 27.1	
"	23	Ud	i(P)		15 24 15.9	

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

1974 Mar.	23	Ud	i(P)	15 26 14.4	
"	23	Up	iPKP1	15 30 48.7	D
		Ki	ePKP	15 30 39	
		Um	i(PKP)	15 30 36.2	
			iPKP	15 30 46.5	
		Ud	iPKP1	15 30 50.7	D
		De	iPKP1	15 31 01.3	
		Tonga-Kermadec Islands. Origin time = 15 12 22.			
"	23	Ud	iPKP1	15 37 41.6	
"	23	Ud	iPKP1	16 07 15.4	
		De	iPKP1	16 07 26.2	
		Tonga-Kermadec Islands. Origin time = 15 48 47.			
"	23	Ud	iPKP1	16 23 22.1	
		De	ePKP1	16 23 32	
		Tonga-Kermadec Islands. Origin time = 16 04 53.			
"	23	Up	iPKP1	18 32 02.1	
		Um	i(PKP)	18 31 56.2	
			iPKP	18 32 00.7	
		Ud	iPKP1	18 32 04.3	
		De	iPKP1	18 32 14.9	
		Tonga-Kermadec Islands (h = 530 km).			
"	23	Up	iP	19 32 02.4	
		Um	iP	19 31 38.1	
		Ud	iP	19 32 09.1	
		Japan (h = 80 km).			
"	23	Up	iPKP1	20 30 02.9	D
		Um	iPKP	20 30 01.2	
		Ud	iPKP1	20 30 05.1	D
		De	iPKP1	20 30 15.9	D
		Tonga-Kermadec Islands (h = 530 km).			
"	23	Up	iPKP	20 45 14.9	
				micr sec	
			Mx E	1.9 20	
			Mx N	2.9 20	
			Mx Z	4.3 20	
		Ki	ePKP	20 45 01	
			i	20 45 07.8	
				micr sec	
			Mx E	3.3 21	
			Mx N	2.5 20	
		Sk	e(PKP)	20 45 09	
			iPKP	20 45 11.1	
		Um	e(PKP)	20 45 03	
			iPKP	20 45 08.1	
		(cont.)			
1974 Mar.	23	(cont.)			
		Ud	iPKP	20 45 15.2	
		De	i(PKP)	20 45 19.3	
			iPKP	20 45 24.8	
		New Hebrides Islands (h = N). M = 6.2 (Up,Ki).			
"	23	Up	iPKP1	21 10 34.0	
		Ki	iPKP	21 10 23.7	
		Um	e(PKP)	21 10 23	
			iPKP	21 10 32.3	
			iSKP1	21 13 16.4	
		Ud	iPKP1	21 10 35.8	C
		De	iPKP1	21 10 46.8	C
		Tonga-Kermadec Islands (h = 520 km).			
"	23	Um	iP	21 51 55.9	
		Ud	iP	21 51 24.4	
		Atlantic Ocean (h = N).			
"	23	Ud	iP	22 03 32.6	
"	23	Um	iP	22 22 36.8	
"	23	Up	iP	22 26 19.3	C
			i	22 26 23.9	
				micr sec	
			P Z'	0.1 0.6	
		Ki	iP	22 26 02.4	
			i	22 26 06.4	
		Sk	iP	22 26 31.1	C
			i	22 26 36.2	
		Um	iP	22 26 05.1	C
			i	22 26 10.5	
		Ud	iP	22 26 32.8	C
			i	22 26 38.2	
		De	iP	22 26 39.0	
			i	22 26 44.4	
		Tsinghai, China (h = N). Double P, in average 5.2 sec apart.			
"	24	Um	iP	00 18 50.9	
		Ud	iP	00 19 20.9	
		Japan (h = 90 km).			
"	24	Up	ePKP	00 30 55	
		Um	iPKP	00 30 55.8	
			iSKP1	00 33 30.8	
		De	iPKP1	00 31 07.6	
		South of Fiji Islands (h = 600 km).			
"	24	Ud	iPKP	03 08 39.4	

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

1974							
Mar.	24	Up	iP			04 34 24.4	
			iPP			04 38 17.2	
			iSKS			04 44 50	
						micr	sec
			Mx	E		3.1	30
			Mx	N		1.6	18
			Mx	Z		5.6	30
		Ki	iP			04 33 58.5	
			iSKS			04 44 21	
			iS			04 44 43	
						micr	sec
			P	Z'		0.4	1.5
			Mx	E		2.0	19
			Mx	N		2.5	20
			Mx	Z		2.6	21
		Sk	iP			04 34 22.8	
		Um	iP			04 34 08.7	
			iSKS			04 44 34	
		Ud	iP			04 34 31.3	
			iPP			04 38 24.2	
			iSKS			04 45 02.1	
		De	eP			04 34 46	
			iSKS			04 45 14.4	
		Mariana Islands (h = 80 km).					
		M = 5.8 (Up,Ki).					
"	24	Up	ePKP			04 51 12	
		Um	ePKP			04 51 20	
		Ud	iPKP			04 51 08.2	
"	24	Up	iP			05 48 10.6	
			i			05 48 18.6	
"	24	Um	iP			06 45 07.8	
		Ud	iP			06 45 33.4	
"	24	Up	iPn			07 42 16.4	
			i			07 42 21.3	
		Um	iP			07 42 23.5	
		Ud	iP			07 42 28.7	
		Caucasus (h = N).					
"	24	Ki	iSn			08 19 39.8	
			iS*			08 19 57.7	
		Um	iSn			08 20 28.7	
			i			08 20 42.6	
			iSgl			08 21 03.8	
		Northwest USSR.					
		Explosion.					
"	24	Ki	iSn			08 30 29.9	
		Um	iSgl			08 31 54.5	
		Northwest USSR.					
		Explosion.					
"	24	Ki	iSn			08 30 43.1	
		(cont.)					

1974							
Mar.	24	(cont.)					
		Northwest USSR.					
		Explosion.					
"	24	Um	iPKP			10 27 19.3	
		Chile-Argentina (h = 100 km).					
"	24	Ud	iP			10 37 52.5	
"	24	Up	iP			14 25 36.8	
			i			14 25 38.4	
			iS			14 33 17	
						micr	sec
			P	Z'		0.2	0.9
			Mx	E		6.9	16
			Mx	N		6.4	18
			Mx	Z		16	16
		Ki	iP			14 25 35.7	
			i			14 25 37.5	
						micr	sec
			P	Z'		0.4	1.0
			Mx	E		10	14
			Mx	N		3.8	11
			Mx	Z		12	15
		Sk	iP			14 25 56.0	
			i			14 25 57.5	
		Um	iP			14 25 30.8	
			i			14 25 32.3	
			iS			14 33 06	
		Ud	iP			14 25 50.7	
			i			14 25 52.7	
		De	iP			14 25 51.0	
		Nepal (h = N).					
		m = 6.3, M = 6.1 (Up,Ki).					
		Double P, small and large,					
		in average 1.7 sec apart.					
"	24	Up	iP			16 27 14.6	
		Ki	iP			16 27 13.1	
		Sk	iP			16 27 33.6	
		Um	iP			16 27 08.6	
		Ud	iP			16 27 28.6	
		De	eP			16 27 29	
		Nepal (h = N).					
"	24	Ud	iP			19 13 44.2	
"	25	Um	iPKP			04 27 30.8	
		Ud	iPKP			04 27 38.0	
		Tonga-Fiji Islands (h = N).					
"	25	Up				micr	sec
			Mx	E		0.8	15
			Mx	N		1.8	15
			Mx	Z		1.7	16
		(cont.)					

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

1974
Mar. 25 (cont.)

Ki			micr	sec
	Mx	E	2.7	15
	Mx	N	2.9	17
	Mx	Z	3.0	15
Um	iP		07 49 52.3	

Mexico (h = 90 km).
M = 5.8 (Up,Ki).

" 25 Ki iP 08 34 39.7
Hindu Kush.
Intermediate depth.

" 25 Ud ePKP 12 03 35
Solomon Islands (h = 60 km).

" 25 Up iSgl 12 56 51.5
Sk iSgl 12 58 41.9
Um iSgl 12 57 15.4
Ud eSgl 12 57 56
Western USSR.
Explosion.

" 25 Sk eP 13 52 37
Um iP 13 52 09.6
Pakistan.

" 25 Ud iPKPl 14 01 21.2

" 25 Up iP 16 45 09.5
Um iP 16 45 05.3
Ud iP 16 45 18.9
Java (h = 90 km).

" 25 Um iP 17 03 45.5
il 17 03 53.3
Ud il 17 04 21.0
Japan (h = 60 km).

" 25 De iPKPl 17 41 04.7

" 25 Up iSgl 17 44 15.5
Sk eSgl 17 43 30
Ud iSgl 17 43 17.2
West coast of Norway,
60.6°N, 5.2°E.
Origin time = 17 41 05.
By combination with
Kongsberg readings.

" 25 Up iP 21 25 42.5
Ki iP 21 25 40.3
Sk iP 21 25 59.1
Um iP 21 25 37.2
i 21 25 54.7
Ud iP 21 25 55.1
De eP 21 25 56
Burma (h = N).

1974
Mar. 26 Ud iPKPl 00 27 11.3 C
De iPKPl 00 27 22.3 C

" 26 Ud iP 04 54 12.3
De iP 04 54 09.5
Pakistan (h = 45 km).

" 26 Ud eP 07 01 21
Greece (h = 110 km).

" 26 Ki iP 08 21 38.2
Um iP 08 22 04.9
Ud iP 08 22 30.6
Aleutian Islands (h = 40 km).

" 26 Um iP 08 38 18.5
Ud iP 08 38 49.6
Kurile Islands.

" 26 De iPgl 08 51 19.8
iSgl 08 51 35.2
Probably explosion off coast
of south Sweden.

" 26 Up iSgl 10 40 03.2
Sk iSgl 10 38 45.6
Um iSgl 10 40 36.1
Ud iS* 10 38 54.1
iSgl 10 39 00.7
De eSgl 10 40 05
Off west coast of Norway,
near 61°N, 4°E.
Origin time = 10 36 25.
By combination with Bergen
readings.

" 26 Up iSg2 12 17 44.0
Sk eSgl 12 19 27
Um iSgl 12 17 53.2
Ud iSgl 12 18 36.8
Western USSR.
Explosion.

" 26 Up iPgl 12 19 55.7
iSn 12 20 18.6
iSgl 12 20 22.3
Sk iSn 12 20 27.9
iSgl 12 20 31.7
Um iSgl 12 21 01.7
Ud iPgl 12 19 41.7
iSn 12 20 00.9
iSgl 12 20 01.9
Dalarna, Sweden,
61.4°N, 14.7°E.
Origin time = 12 19 16.

" 26 Up iSgl 12 30 47.8
(cont.)

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

1974 Mar.	26	(cont.)			
		Sk	eSgl	12 32 44	
		Um	iSgl	12 31 36.6	
		De	eSgl	12 32 16	
		Esthonia.			
		Explosion.			
"	26	Up	iSgl	12 47 51.0	
		Sk	eSgl	12 50 10	
		Um	iSgl	12 49 56.4	
		Ud	iSgl	12 48 39.5	
		De	iSgl	12 48 27.1	
		Near Gotland, Sweden, 57.9°N, 19.1°E.			
		Origin time = 12 46 46.			
		Explosion?			
"	26	Up	iP	14 17 49.6	
		Ud	iP	14 17 58.9	
"	26	Ud	iP	21 49 27.8	
"	26	Um	i(Sgl)	23 56 40.7	
"	27	De	ePKPl	01 07 14	
"	27	Up	iPKPl	03 26 57.5	D
			ipPKPl	03 27 08.2	
				micr sec	
			PKPl Z'	0.2 1.0	
		Ki	iPKP	03 26 44.5	
		Sk	iPKPl	03 26 48.8	
		Um	iPKPl	03 26 44.5	
			iPKP	03 26 52.0	
		Ud	iPKPl	03 26 59.1	D
			ipPKPl	03 27 09.3	
		De	iPKP	03 27 03.7	
			iPKPl	03 27 08.8	D
			ipPKPl	03 27 19.4	
		Kermadec Islands.			
		h = 35 km (Up,Ud,De).			
"	27	Um	i(P)	03 32 21.9	
"	27	De	iPKPl	03 45 34.2	
"	27	Um	i(P)	03 47 04.7	
"	27	Up	eP	08 20 00	
		Um	iP	08 19 59.7	
		Ud	iP	08 20 10.7	
"	27	Up	eP	09 16 38	
		Um	iP	09 16 13.1	
		Ud	iP	09 16 43.9	
		Japan (h = 55 km).			

1974 Mar.	27	Ud	iP	10 12 13.7	
"	27	Up	iSgl	12 17 43.8	
		Um	iSgl	12 18 19.6	
		Esthonia.			
		Explosion.			
"	27	Ud	iP	12 21 01.1	
		De	eP	12 20 51	
"	27	Ud	iP	13 16 54.3	
"	27	Up	i	13 22 32.0	
			iSgl	13 22 48.9	
		Sk	iSgl	13 22 52.1	
		Ud	i	13 21 45.9	
			iSgl	13 21 52.7	
		De	eSn	13 21 44	
			iSgl	13 22 07.0	
		Near south coast of Norway, 58.4°N, 6.6°E.			
		Origin time = 13 19 47.			
		By combination with Bergen and Kongsberg readings.			
"	27	Um	iPKPl	13 23 13.6	
		Ud	iPKPl	13 23 26.8	
"	27	Sk	i(Sg2)	14 47 12.1	
			iRg	14 47 14.5	
"	27	Ud	iP	14 48 33.1	
"	27	Um	iP	14 49 35.6	
			ipP	14 49 50.1	
		Ud	ipP	14 50 17.4	
		Japan.			
		h = 55 km (Um).			
"	27	Sk	eSgl	16 11 17	
		Um	iSgl	16 11 39.1	
"	27	Up	iP	16 12 18.6	
		Ki	eP	16 11 23	
		Ud	iP	16 12 19.8	
		Aleutian Islands (h = 45 km).			
"	27	Up	iP	16 39 52.9	D
			ipP	16 40 04.3	
			iPcP	16 40 12.6	
			iP'P'	17 07 54.6	
				micr sec	
			P Z'	0.8 1.1	
		Ki	iP	16 39 00.9	D
			ipP	16 39 11.8	
		(cont.)			

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

1974 Mar.	27	(cont.)				
		Ki		micr	sec	
			P	Z' 0.6	0.8	
		Sk	iP	16 39	33.0	D
			ipP	16 39	44.6	
		Um	iP	16 39	26.5	D
			ipP	16 39	37.5	
			iP'P'	17 08	06.9	
		Ud	iP	16 39	54.0	D
			iPcP	16 40	12.5	
		De	iP	16 40	15.7	D
			iPcP	16 40	33.6	
		Aleutian Islands.				
		h = 40 km (Up,Ki,Sk,Um).				
		m = 6.8 (Up,Ki).				
		The fact that the surface waves are very weak compared to the P waves could suggest greater depth, alternatively special source mechanism and/or special structure around the source.				
"	27	Up	iSgl	17 40	33.4	
		Ud	iSgl	17 40	36.4	
		De	iPgl	17 38	36.9	
			iSgl	17 38	52.0	
			iTSgl	17 39	13.0	
		Baltic Sea, south of Sweden, 55.7°N, 15.0°E.				
		Origin time = 17 38 18.				
		Explosion.				
		Well developed T-phase.				
"	27	Up	iSgl	17 40	42.9	
		De	iPgl	17 38	47.5	
			iSgl	17 39	01.9	
			iTSgl	17 39	23.8	
		From the same area as the preceding event.				
		Origin time = 17 38 29.				
		Explosion.				
		Well developed T-phase.				
"	27	Ud	iPKPl	17 58	26.1	
		De	iPKPl	17 58	36.8	
"	27	Up	iSgl	18 12	17.6	
		Sk	eSgl	18 14	11	
			iSg2	18 14	23.0	
		Um	iSgl	18 14	27.3	
		Ud	iPgl	18 11	25.3	
			iSgl	18 12	22.7	
		De	iPgl	18 10	19.8	
			iSgl	18 10	36.5	
		(cont.)				

1974 Mar.	27	(cont.)				
		Baltic Sea, south of Sweden, 55.5°N, 15.0°E.				
		Origin time = 18 09 59.				
		Explosion.				
"	27	Up	iSgl	18 12	25.5	
		Sk	eSgl	18 14	17	
		Ud	iPgl	18 11	29.7	
			iSgl	18 12	27.9	
		De	iPgl	18 10	27.1	
			iSgl	18 10	44.0	
		From the same area as the preceding event.				
		Origin time = 18 10 06.				
		Explosion.				
"	27	Ud	iP	19 04	05.1	
"	27	Ud	eP	19 50	18	
"	27	Up	i(P)	21 00	33.3	
"	28	Um	i(Sgl)	01 58	20.6	
"	28	Up	ePKPl	02 18	28	
		Um	i(PKP)	02 18	13.7	
			iPKP	02 18	26.7	
		Ud	iPKPl	02 18	28.7	
		De	iPKPl	02 18	38.6	
		Tonga-Fiji Islands (h = 290 km).				
"	28	Um	i(Sgl)	04 01	00.8	
"	28	Up	iPKP	04 18	18.3	
			i	04 18	27.3	
		Ud	ePKP	04 18	16	
		Scotia Sea (h = N).				
"	28	Ud	iP	04 26	28.3	
"	28	Um	iSgl	04 57	26.7	
			iRg	04 57	31.7	
"	28	Ud	iPKPl	05 17	26.6	
		De	iPKPl	05 17	33.7	
		Norfolk Island (h = N).				
"	28	Up	iPKPl	09 54	54.2	
		Ud	iPKPl	09 54	55.6	
"	28	Ud	iPKPl	10 53	09.7	
"	28	Up	iSgl	11 12	16.2	
		Sk	eSgl	11 14	05	
		(cont.)				

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

1974 Mar.	28	(cont.)			
		Um	iSn	11 12 34.4	
			iSgl	11 12 56.6	
		Ud	eSgl	11 13 16	
		De	eSn	11 13 17	
			iSgl	11 13 53.3	
		Esthonia.			
		Explosion.			
"	28	Ud	eP	11 19 30	
"	28	Up	iSgl	12 16 09.3	
			iSg2	12 16 17.4	
		Sk	eSgl	12 17 58	
		Um	iSgl	12 16 26.5	
		Ud	iSgl	12 17 09.3	
		De	iSgl	12 17 34.5	
		Western USSR.			
		Explosion.			
"	28	Um	iSgl	12 23 33.2	
		Western USSR.			
		Explosion.			
"	28	Ud	iSgl	14 29 38.2	
		De	iSgl	14 29 35.3	
		Skagerrak.			
		By combination with			
		Kongsberg readings.			
"	28	Up	iSgl	14 59 30.9	
		Ki	eSgl	15 01 46	
		Sk	iSgl	15 01 22.3	
		Um	iSgl	14 59 56.8	
		Ud	iSgl	15 00 34.3	
		De	iSgl	15 01 04.0	
		Esthonia.			
		Explosion.			
"	28	Up	eP	17 37 38	
			i	17 37 46.6	
		Queen Elizabeth Islands			
		(h = N).			
"	28	Up	iP	18 03 01.7	
		Aleutian Islands (h = 200 km).			
"	28	Up	iP	21 37 38.0	
			i	21 37 41.6	
		Sk	eP	21 38 15	
		Um	iP	21 38 16.2	
			i	21 38 20.6	
		Ud	iP	21 37 40.0	
			i	21 37 44.0	
		De	eP	21 37 06	
		Sicily (h = N).			

1974 Mar.	29	Um	i(Sgl)	00 11 51.5	
"	29	Um	i(Sgl)	00 23 50.5	
"	29	Um	iP	00 31 26.5	
		Japan (h = 40 km).			
"	29	Um	iPKPl	02 17 26.2	
"	29	Up	eP	02 46 32	
		Ud	eP	02 46 38	
		Japan (h = N).			
"	29	Up	eP	03 58 07	
		Ud	iP	03 58 08.8	
"	29	Um	iP	06 24 57.2	
		Ud	eP	06 25 23	
		Bonin Islands.			
"	29	Um	i(P)	07 54 05.6	
"	29	Ud	iRg	10 09 32.2	
"	29	Ki	iSgl	11 34 41.6	
		Sk	eSgl	11 37 14	
		Um	iSgl	11 35 35.0	
		Ud	iSgl	11 38 04.0	
		Northwest USSR.			
		Explosion.			
"	29	Up	iPn	12 52 28.9	
			iSn	12 53 13.0	
			iSgl	12 53 25.9	
		Ki	iS*	12 55 48.9	
			iSgl	12 55 55.7	
		Sk	iSgl	12 55 14.2	
		Um	iSgl	12 54 00.8	
		Ud	iSn	12 54 01.9	
			iS*	12 54 24.3	
			iSgl	12 54 28.2	
		De	iSgl	12 54 51.0	
		Esthonia.			
		Explosion.			
"	29	Up	ePKPl	13 15 49	
		Sk	iPKPl	13 15 44.5	
		Um	iPKPl	13 15 39.5	
		Ud	iPKPl	13 15 50.6	
"	29	Up	iSgl	13 26 35.1	
		Sk	iSgl	13 27 59.2	
		Um	iSgl	13 26 09.7	
		Ud	iSgl	13 27 35.4	
		De	iSgl	13 28 21.6	
		Lake Ladoga region.			
		Explosion.			

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

1974						
Mar.	29	Up	iSgl	13 29 14.7		
			iRg	13 29 23.7		
		Ud	iRg	13 29 07.9		
		Central Sweden.				
"	29	Up	iPKPl	13 44 30.4		
		Ud	iPKPl	13 44 33.3		
		Tonga-Kermadec Islands				
		(h = 540 km).				
"	29	Sk	eSgl	13 50 46		
		Um	iSgl	13 48 51.6		
		Western USSR,				
		61.5°N, 34.2°E.				
		Origin time = 13 45 22.				
		Explosion?				
		Solution from Helsinki				
		regional bulletin.				
"	29	Um	iSgl	15 05 00.5		
"	29	Sk	iSgl	15 18 22.5		
		Ud	iSgl	15 18 12.8		
		Southwest coast of Norway,				
		60.6°N, 5.4°E.				
		Origin time = 15 16 03.				
		By combination with Bergen				
		and Kongsberg readings.				
"	29	De	iPKPl	17 05 14.7		
		Tonga Islands (h = 70 km).				
"	29	Up	iP	20 53 34.3		
		Sk	iP	20 54 04.6		
		Um	iP	20 53 40.1		
		Ud	iP	20 53 50.9		
		Pakistan (h = N).				
"	29	Up	iRg	21 07 33.9		
		Ud	iRg	21 07 16.1		
		Central Sweden.				
"	29	Up	iP	22 00 56.5	D	
			ipP	22 01 11.6		
			iS	22 09 18		
			i(P'P')	22 29 47.4		
			iP'P'	22 30 00.4		
				micr	sec	
			P Z'	0.8	1.6	
			Mx N	0.6	18	
			Mx Z	1.1	20	
		Ki	iP	22 00 01.6	D	
				micr	sec	
			P Z'	0.3	0.9	
			Mx E	0.9	22	
			Mx N	1.7	22	
			Mx Z	1.2	20	
		(cont.)				

1974					
Mar.	29	(cont.)			
		Sk	iP	22 00 29.3	D
			iP'P'	22 30 10.5	
		Um	iP	22 00 29.7	D
			iS	22 08 26	
			iP'P'	22 30 07.8	
		Ud	iP	22 00 53.4	D
			iP'P'	22 29 55.5	
		De	iP	22 01 17.4	D
			ipP	22 01 33.6	
		Kodiak Island.			
		h = 55 km (Up,De).			
		m = 6.4, M = 5.1 (Up.Ki).			
"	29	Up	iRg	22 38 41.3	
		Ud	iRg	22 38 22.9	
		Central Sweden.			
"	30	Up	iP	00 40 18.7	
			iPn	00 40 34.1	
		Ud	iP	00 40 38.3	
		Caucasus.			
"	30	Um	iP	01 58 19.5	
"	30	Up	iPKPl	02 10 22.8	
		Um	i(PKP)	02 10 16.6	
			iPKP	02 10 21.4	
		Ud	iPKPl	02 10 25.0	C
		De	iPKPl	02 10 35.7	
		Tonga-Kermadec Islands			
		(h = 570 km).			
"	30	Up	iPKPl	02 16 10.4	
		Ki	iPKP	02 15 55.2	
"	30	Up	eP	03 05 01	
		Greece.			
"	30	Ud	iP	04 14 05.8	
"	30	Up	iP	04 24 36.5	
		Um	iP	04 24 34.6	
		Ud	iP	04 24 52.7	
		Hindu Kush.			
		Intermediate depth.			
"	30	Up	iPKPl	05 42 05.7	
		Ud	iPKPl	05 42 07.8	
		De	iPKPl	05 42 18.8	
"	30	Ud	eP	06 53 14	
"	30	Up	iP	08 36 11.5	
		Ki	iP	08 36 45.6	
		Um	iP	08 36 31.7	
		Ud	iP	08 36 01.1	
		Atlantic Ocean (h = N).			

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

1974 Mar. 30 Up iP 08 45 13.6
Ud iP 08 45 20.0
Kurile Islands (h = 55 km).

" 30 Up iSgl 09 56 25.8
Ki iSgl 09 57 10.0
Sk iSgl 09 57 41.7
Um iSgl 09 55 51.1
Ud iSn 09 56 38.1
iSgl 09 57 21.9
De iSgl 09 58 04.0
Lake Ladoga region.
Explosion.

" 30 Ud i(Sgl) 10 58 09.1

" 30 Ud eP 11 31 16
Japan (h = 45 km).

" 30 Up iSgl 12 12 32.0
Um iSgl 12 12 49.2
Ud iSgl 12 13 31.0
Western USSR.
Explosion.

" 30 Up iSn 13 15 36.2
iSgl 13 16 43.7
Ki i(Pn) 13 12 02.6
iPn 13 12 03.6
iPgl 13 12 13.2
iSn 13 12 52.9
iS* 13 13 05.0

		micr	sec
Pn	Z'	0.1	1.1
Sn	Z'	0.1	0.7
S*	Z'	0.1	0.8

Sk iSgl 13 15 54.4
Um ePn 13 12 42
iSn 13 14 00.0
i 13 14 15.3
iSgl 13 14 35.5
Ud iSn 13 15 53.0
iSgl 13 17 04.5
Northwest USSR-Norway.
Explosion?

" 30 Ki ePgl 13 43 05
iSn 13 43 46.3
iSgl 13 44 02.8
Um i 13 44 38.9
iSgl 13 44 54.0
Northwest USSR-Finland.
Explosion.

" 30 Up iP 16 07 37.8
Um iP 16 07 16.5
(cont.)

1974 Mar. 30 (cont.)
Ud iP 16 07 46.2
Japan (h = N).

" 30 Ki

		micr	sec
Mx	E	0.5	14
Mx	N	0.5	11

Sk iP 18 45 09.6
Ud iP 18 45 32.0
Iceland (h = N).

" 30 Up iP 19 14 28.9
Ki iP 19 14 12.1
Sk iP 19 13 43.5
Um iP 19 14 22.7
Ud iP 19 14 06.0
Iceland (h = N).

" 30 Ki iP 19 31 06.3
Ud iP 19 31 15.1
Sumatra (h = N).

" 30 Up iP 19 37 08.4
Ki

		micr	sec
Mx	E	0.8	17
Mx	N	0.7	17
Mx	Z	0.7	17

Um eP 19 36 53
i 19 37 08.3
Ud iP 19 37 15.3
Japan (h = 40 km).

" 30 Up eP 20 21 05
Ki

		micr	sec
Mx	N	0.5	12

Sk iP 20 20 19.0
Um iP 20 20 58.3
Ud iP 20 20 41.8
Iceland (h = N).

" 30 Sk iP 20 27 09.6
Ud iP 20 27 28.2

" 30 Ud iPKP 21 43 39.0

" 31 Ud eP 02 00 06

" 31 Between 02^h and 04^h, several local explosions are recorded at Um.

" 31 Ud iP 02 53 19.7

" 31 Up ePKP 05 08 07
iX 05 08 13.3
Ki eX 05 08 14
(cont.)

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

1974					
Mar.	31	(cont.)			
		Sk	eX	05 08 07	
		Um	iPKP	05 08 08.5	
		Ud	iPKP	05 08 02.7	
		Pacific Ocean (h = N).			
"	31	Up	iSg1	06 11 04.6	
		Ki	iSn	06 07 54.4	
			iSg2	06 08 22.5	
		Sk	iSg1	06 10 39.4	
		Um	iSn	06 08 33.9	
			i	06 08 48.2	
			iSg1	06 09 07.0	
		Ud	iSg1	06 11 38.8	
		Northwest USSR.			
		Explosion.			
"	31	Up	eP	07 01 59	
				micr	sec
			Mx E	0.8	16
			Mx N	0.8	17
			Mx Z	1.6	17
		Ki	iP	07 01 35.2	
				micr	sec
			Mx E	2.7	19
			Mx N	1.5	18
			Mx Z	2.1	19
		Um	iP	07 01 46.6	
			iSP	07 15 12	
		Ud	iP	07 02 06.6	
			i	07 02 12.2	
		New Guinea (h = N).			
		M = 5.7 (Up,Ki).			
"	31	Up	iSn	09 07 26.9	
			iSg1	09 08 22.4	
		Ki	iSn	09 05 05.9	
			i	09 05 21.9	
			iSg1	09 05 30.2	
			iSg2	09 05 35.5	
		Sk	eSn	09 07 00	
			iSg1	09 07 56.6	
		Um	iSn	09 05 46.9	
			i	09 06 01.6	
			iS*	09 06 14.7	
		Ud	iSn	09 07 43.9	
			i	09 08 13.5	
			i	09 08 46.4	
			iSg1	09 08 55.2	
		De	iSg1	09 10 19.9	
		Northwest USSR.			
		Explosion.			
"	31	Ud	ePKP1	10 22 45	
"	31	Ud	iSKP1	14 58 42.9	
		New Hebrides Islands			
		(h = 25 km).			
1974					
Mar.	31	Um	iP	15 21 22.4	
			ipP	15 21 35.0	
		Ud	iP	15 21 51.9	
			ipP	15 22 04.0	
		Japan.			
		h = 45 km (Um,Ud).			
"	31	Ud	iP	16 06 32.4	
		Uzbekh SSR.			
"	31	Ud	eP	19 50 51	
"	31	Ud	iPKP1	21 05 09.2	
"	31	Up	iP	21 22 14.1	
		Um	iP	21 22 37.8	
		Ud	iP	21 22 03.2	
			i	21 22 09.8	
		North Atlantic Ocean			
		(h = N).			
"	31	Up	iP	21 26 29.4	
		Ki	iP	21 26 22.8	
		Sk	iP	21 26 15.1	
		Um	iP	21 26 28.6	
		Ud	iP	21 26 20.1	
		De	iP	21 26 25.0	
		Nicaragua (h = 50 km).			

Markus Båth
Klaus Meyer
Rutger Wahlström

October 18, 1975

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

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

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

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

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

A P R I L 1 - 30, 1974

1974 Apr.	1	Up	iP		00 27 53.9	
			ipP		00 28 06.4	
			i		00 28 21.3	
		Ki	iP		00 29 04.4	
					micr	sec
			P	Z'	0.1	1.0
		Sk	iP		00 28 31.8	
			ipP		00 28 45.7	
		Um	iP		00 28 28.3	
		Ud	iP		00 28 00.1	
			i		00 28 10.3	
		De	iP		00 27 25.8	
		Crete.				
		h = 70 km (Up,Sk).				
"	1	Ki	iPgl		08 51 58.5	
			iSn		08 52 37.2	
			iS*		08 52 50.5	
		Um	iSgl		08 54 25.8	
		Northwest USSR-Norway.				
		Explosion.				
"	1	Up	iSgl		11 18 07.2	
		Um	iSgl		11 18 45.5	
		Ud	iSg2		11 19 18.9	
		De	iSg2		11 19 44.2	
		Esthonia.				
		Explosion.				
"	1	Um	iP		11 47 24.5	
		Ud	iP		11 47 31.8	
"	1	Um	iSgl		12 25 00.0	
		Western USSR.				
		Explosion.				
"	1	Up	iP		13 40 11.7	
		Um	iP		13 39 46.9	
		Ud	iP		13 40 17.7	
		Japan (h = 70 km).				
1974 Apr.	1	Ud	iP		15 36 11.1	
"	1	Up	iP		15 45 46.0	
		Ud	iP		15 45 51.4	
		Japan (h = 80 km).				
"	1	Up	iPKP		20 43 08.0	
			i		20 43 16.4	
		Ki	iPKP		20 43 23.9	
		Sk	iPKP		20 43 12.1	
		Um	iPKP		20 43 15.3	
		Ud	iPKP		20 43 05.9	
		South Sandwich Islands				
		(h = N).				
"	1	Up	iP		22 02 50.5	
			iPP		22 05 48.2	
					micr	sec
			P	Z'	0.1	1.1
			Mx	E	1.0	18
			Mx	N	1.1	16
			Mx	Z	1.1	16
		Ki	iP		22 02 17.2	
					micr	sec
			Mx	E	1.5	16
			Mx	N	1.5	15
			Mx	Z	1.4	15
		Sk	iP		22 02 47.7	
		Um	iP		22 03 31.2	
		Ud	iP		22 02 58.2	
		De	iP		22 03 13.4	
		South of Japan (h = 15 km).				
		M = 5.5 (Up,Ki).				
"	1	Ki	iP		23 29 48.6	
			i		23 29 52.7	
			iS		23 31 06.3	
			i		23 31 21.9	
		Sk	eP		23 30 10	
		(cont.)				

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

1974 Apr.	1	(cont.)			
		Sk	eS	23 31 49	
		Um	iS	23 32 24.2	
			i	23 32 45.5	
		Norwegian Sea, near 72°N, 5°E. Origin time = 23 28 03. Checked with Tromsoe and Finnish station readings.			
"	2	Ki	i(P)	00 05 51.2	
			iS	00 07 06.5	
			i	00 07 18.4	
		Sk	iP	00 06 08.2	
		Um	iP	00 06 26.9	
			iS	00 08 20.0	
			i	00 08 44.9	
		Norwegian Sea, near 72°N, 5°E. Origin time = 00 04 01. Checked with Tromsoe and Finnish station readings.			
"	2	Up	iP	03 35 30.5	
			i	03 36 06.3	
		Ki	iP	03 34 48.2	C
		Sk	iP	03 35 24.1	
		Um	iP	03 35 07.1	C
		Ud	iP	03 35 38.2	
		De	iP	03 35 54.1	
		Japan (h = 40 km).			
"	2	Up	iP	04 07 23.7	
			ipP	04 07 35.3	
		Ki	iP	04 06 56.8	
			ipP	04 07 10.5	
		Sk	epP	04 07 38	
		Um	iP	04 07 09.9	
			ipP	04 07 21.3	
		Ud	eP	04 07 29	
			ipP	04 07 42.4	
		Luzon. h = 45 km (Up,Ki,Um,Ud). The phase interpreted as pP has larger amplitudes than P.			
"	2	Up	iPKP	04 21 15.9	
		Ki	iPKP	04 21 06.3	
		Sk	iPKP	04 21 14.8	
		Um	iPKP	04 21 09.5	
		Ud	iPKP	04 21 19.3	
		De	iPKP	04 21 24.3	
		Solomon Islands (h = 45 km).			
"	2	Up	iPKPl	06 21 49.2	
		(cont.)			
1974 Apr.	2	(cont.)			
		Ud	iPKPl	06 21 52.0	
		De	iPKPl	06 22 02.7	C
		Tonga-Kermadec Islands (h = 500 km).			
"	2	Up	iP	07 20 36.9	
		Ki	iP	07 19 54.0	
		Sk	eP	07 20 29	
		Um	iP	07 20 13.1	
		Ud	iP	07 20 44.0	
		Japan (h = 70 km).			
"	2	Ki	iP	07 22 27.6	
			ipP	07 22 40.6	
		Sk	epP	07 23 05	
		Um	iP	07 22 38.2	
			ipP	07 22 49.9	
		Ud	ipP	07 23 13.5	
		Mariana Islands. h = 45 km (Ki,Um).			
"	2	Up	iP	08 10 05.3	
		Ki	iP	08 09 14.5	
		Um	iP	08 09 38.6	
		Ud	iP	08 10 10.8	
		Kurile Islands (h = N).			
"	2	Ud	i(Sgl)	08 48 34.1	
"	2	Ki	iSn	11 00 25.6	
		Northwest USSR-Norway. Explosion.			
"	2	Ud	iPgl	13 20 55.4	
			iSgl	13 21 15.0	
		Origin time = 13 20 31.			
"	2	Um	iPKP	19 55 04.1	
		Ud	iPKP	19 54 55.0	
		Argentina (h = 170 km).			
"	2	Up	iP	21 24 16.8	
		Ki	iP	21 24 45.4	
			i	21 24 51.5	
"	3	Up	iPKPl	00 39 03.7	
		Ud	iPKPl	00 39 06.0	
"	3	Sk	eP	01 30 13	
		Um	iP	01 30 01.8	
		Ud	iP	01 30 28.7	
"	3	Um	iP	02 03 13.0	
		Ud	iP	02 03 42.7	
		Japan (h = 35 km).			

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

1974 Apr.	3	Um	i(P)	03 18 24.9	
"	3	Up	iP	04 38 00.5	
		Um	iP	04 37 36.6	
		Ud	iP	04 38 07.7	
		Japan (h = 120 km).			
"	3	Up	eSgl	08 04 14	
		Ki	iPn	07 59 31.0	
			iPgl	07 59 39.8	
			iSn	08 00 17.1	
			iS*	08 00 27.7	
		Sk	eSgl	08 03 12	
		Um	iSgl	08 02 04.5	
		Ud	e	08 04 08	
		Northwest USSR-Norway.			
		Explosion.			
"	3	Up	iSgl	10 50 58.3	
		Ki	eSgl	10 53 34	
		Sk	eSgl	10 52 48	
		Um	iSgl	10 51 30.7	
		Ud	iSn	10 51 33.5	
			iSgl	10 51 59.9	
		De	eSgl	10 52 31	
		Esthonia.			
		Explosion.			
"	3	Up	iRg	11 51 06.6	
		Um	iSgl	11 53 02.3	
		Ud	iRg	11 51 21.7	
		De	iSgl	11 51 54.2	
		Västmanland, Sweden,			
		near 59 1/2°N, 16° E.			
		Near-surface event.			
"	3	Um	iSgl	12 10 05.0	
		De	iSgl	12 11 17.4	
		Western USSR.			
		Explosion.			
"	3	Um	iSgl	12 20 38.4	
		Western USSR.			
		Explosion.			
"	3	Ud	iSgl	12 51 07.6	
			iRg	12 51 15.7	
"	3	Ud	iRg	13 45 25.4	
"	3	Ki	iSgl	14 12 43.5	
		Um	iSgl	14 11 33.8	
		Lake Ladoga region.			
		Explosion.			
"	3	Up	iSgl	15 52 17.7	
		(cont.)			
1974 Apr.	3	(cont.)			
		Ki	i	15 52 42.8	
			iSgl	15 53 05.9	
		Sk	eSgl	15 53 32	
		Um	iSgl	15 51 40.9	
		Ud	iSgl	15 53 10.3	
			iSg2	15 53 20.1	
		De	iSgl	15 53 58.5	
		Lake Ladoga region.			
		Explosion.			
"	3	Ud	iP	18 04 09.6	
"	3	Up	i(P)	20 57 27.9	
		Sk	i(P)	20 57 52.9	
		Ud	i(P)	20 56 45.5	
"	4	Up	eP	03 14 13	
			ipP	03 14 23.9	
		Um	iP	03 13 48.3	
		Ud	iP	03 14 18.6	
			ipP	03 14 29.0	
		Kurile Islands.			
		h = 40 km (Up,Ud).			
"	4	Up	iP	03 17 50.9	
"	4	Up	iP1	04 27 25.0	
			iP2	04 27 31.9	
			iPP	04 28 59.1	
		Ki	iP1	04 27 36.7	
			iP2	04 27 39.1	
		Um	iP1	04 27 26.8	
			iP2	04 27 31.1	
		Ud	iP2	04 27 47.1	
		De	iP1	04 27 44.6	
			iP2	04 27 47.7	
		Tadzhik SSR (h = 20 km).			
		Double onsets, P1 smaller			
		and P2 larger.			
"	4	Up	iSgl	04 44 49.2	
		Sk	iSgl	04 46 41.8	
		Um	iSgl	04 45 31.3	
		Ud	iSgl	04 45 52.2	
		De	eSgl	04 46 26	
		Esthonia.			
		Explosion.			
"	4	Up	iSgl	04 49 08.7	
		Sk	eSgl	04 51 02	
		Um	iSgl	04 49 52.0	
		De	eSgl	04 50 49	
		Esthonia.			
		Explosion.			

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

1974 Apr. 4 Up iSn 05 01 24.9
iSgl 05 01 32.3
Sk iSgl 05 03 24.9
Um iSgl 05 02 15.4
Ud i 05 02 25.7
iSgl 05 02 37.0
De iPn 05 01 23.0
iSn 05 02 35.1
iSgl 05 03 08.8
Esthonia.
Explosion.

" 4 Ud iP 05 11 31.2
Talaud Islands (h = N).

" 4 Sk ipPKP 07 24 00.2
Um iPKP 07 23 07.8
Ud ipPKP 07 24 02.7
New Hebrides Islands
(h = 200 km).

" 4 Up iP 07 48 17.0 C
iPcP 07 48 34.3
micr sec
P Z' 0.1 1.0
Ki iP 07 47 37.1 C
micr sec
P Z' 0.1 1.0
Sk iP 07 48 10.8 C
Um iP 07 47 54.6 C
iPcP 07 48 18.8
Ud iP 07 48 23.8 C
De iP 07 48 39.1 C
Japan (h = 100 km).
m = 5.6 (Up,Ki).

" 4 Ki iSn 07 58 46.1
iS* 07 58 58.9
Northwest USSR-Norway.
Explosion.

" 4 Up iP 10 29 48.7
eLgl 10 34 05
Um iLg2 10 35 51.8
Ud iP 10 30 02.0 C
iLg2 10 34 52.8
De iP 10 29 18.1
Rumania (h = N).

" 4 Up eSgl 11 29 25
Ud iPgl 11 28 32.6
iSgl 11 28 51.7
i 11 28 54.2
iRg 11 29 01.0
De iPgl 11 28 50.9
iSgl 11 29 23.9
(cont.)

1974 Apr. 4 (cont.)
Lake Vener region, Sweden.
Origin time = 11 28 08.

" 4 Up iSgl 12 18 29.2
Sk eSgl 12 20 12
Um iSgl 12 18 42.4
Ud iSgl 12 19 29.3
De iSgl 12 19 54.1
Western USSR.
Explosion.

" 4 Up iSgl 12 26 09.4
Ki iSn 12 26 29.2
Sk iSgl 12 27 26.8
Um iSgl 12 25 39.4
Ud iS* 12 26 56.6
iSgl 12 27 07.9
De iSgl 12 27 50.8
Lake Ladoga region.
Explosion.

" 4 Ud iP 12 52 15.0
De iP 12 51 58.5

" 4 Up iP 12 54 49.5
Ki iP 12 54 37.5
i 12 55 13.2
Um iP 12 54 40.4
Ud iP 12 54 58.2
De iP 12 55 03.1
Celebes Sea (h = 35 km).

" 4 Up iSgl 13 13 21.6
Sk iSgl 13 15 14.6
Um iSgl 13 14 03.7
Ud iSn 13 14 03.3
De iPn 13 13 12.6
eSn 13 14 26
Esthonia.
Explosion.

" 4 Up iSgl 13 13 43.1
Um iSgl 13 14 25.4
Esthonia.
Explosion.

" 4 Up iSgl 13 46 14.3
Sk iSgl 13 48 08.1
Um iPgl 13 45 55.2
iSgl 13 46 55.5
Ud iSn 13 46 56.8
iSgl 13 47 26.2
De iPn 13 46 05.5
eSgl 13 47 45
Esthonia.
Explosion.

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

1974 Apr.	4	Up	iP	15 01 55.7	
			ipP	15 02 02.0	
		Ki	eP	15 02 35	
		Sk	eP	15 02 10	
		Um	iP	15 02 18.0	
			ipP	15 02 24.9	
		Ud	iP	15 01 50.8	
			ipP	15 01 58.3	
		De	iP	15 01 32.1	
			ipP	15 01 40.2	
		South of Ascension Island.			
		h = 25 km (Up,Um,Ud,De).			
"	4	Ud	iPKPl	18 38 02.7	
		De	iPKPl	18 38 13.9	
		Fiji Islands (h = 580 km).			
"	4	Um	iP	19 44 09.7	
			i	19 44 23.2	
		Japan (h = 80 km).			
"	4	Up	i(P)	20 53 24.8	
			i	20 53 28.1	
"	4	Up	iP	22 44 45.7	
		Ki	iP	22 44 19.7	
		Um	iP	22 44 29.8	
		Ud	iP	22 44 52.1	
		Mariana Islands (h = 200 km).			
"	4	De	iPKP	23 50 39.1	
		Solomon Islands (h = 55 km).			
"	5	Up	iP	01 43 45.8	
		Ud	iP	01 43 48.0	
		De	iP	01 43 57.9	
"	5	Up	iP	03 57 04.6	
				micr sec	
			P Z'	0.1 0.8	
		Ki	iP	03 57 00.3	
		Sk	iP	03 57 20.5	
		Um	iP	03 56 58.1 D	
			ipP	03 57 11.8	
		Ud	iP	03 57 17.7 D	
			ipP	03 57 31.3	
		De	iP	03 57 18.0	
		Burma.			
		h = 50 km (Um,Ud).			
"	5	Up	eP	05 05 07	
		Sk	eP	05 05 00	
		Ud	eP	05 04 58	
		De	eP	05 04 54	
		North Atlantic Ocean			
		(h = N).			
1974 Apr.	5	Up	iP	08 03 24.9	
			i	08 03 34.4	
		Ki	iP	08 02 58.2	
		Um	iP	08 03 05.7	
		Ud	iP	08 03 34.3	
		Formosa (h = 60 km).			
"	5	Up	iP	09 04 36.8	
		Ki	iP	09 03 43.8	
		Um	iP	09 04 05.7	
		Ud	iP	09 04 38.1	
		De	iP	09 04 58.7	
		Aleutian Islands (h = 80 km).			
"	5	Um	iSgl	11 15 55.9	
		De	iSgl	11 16 34.1	
		Esthonia.			
		Explosion.			
"	5	Up	iSgl	11 18 21.1	
		Um	iSgl	11 18 52.3	
		Ud	iSgl	11 19 25.9	
		Esthonia.			
		Explosion.			
"	5	Um	iSgl	12 12 15.7	
		Ud	iSgl	12 12 58.9	
		De	iS*	12 13 18.3	
			iSgl	12 13 26.5	
		Western USSR.			
		Explosion.			
"	5	Ki	iSn	12 40 32.6	
		Northwest USSR-Norway.			
		Explosion.			
"	5	Ud	i(Sgl)	12 49 22.0	
		De	i(Sgl)	12 49 10.7	
"	5	Um	iSgl	13 27 02.7	
		Lake Ladoga region.			
		Explosion.			
"	5	Um	iSgl	13 40 13.0	
		Lake Ladoga region.			
		Explosion.			
"	5	Up	iSgl	17 28 33.2	
		Ki	iPgl	17 25 51.5	
			iSgl	17 26 30.4	
				micr sec	
			Sgl Z'	0.1 0.6	
		Sk	iPgl	17 25 55.0	
			iS*	17 26 34.9	
			iSgl	17 26 37.1	
		Um	iPn	17 26 00.8	
		(cont.)			

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

1974
Apr. 5 (cont.)

Um	iPg1	17 26 08.1	
	iSn	17 26 43.1	
	iSg1	17 26 57.3	
Ud	i	17 27 59.8	
	iSg1	17 28 23.8	
De	iSg1	17 30 18.5	

Nordland, Norway,
66.5°N, 14.1°E.
Origin time = 17 25 01.
Explosion.
Unusually large for this explosion area.

" 5 Up iP 20 46 45.8
i 20 46 48.7

" 5 Up iP 21 54 48.8

" 6 Up iP 02 04 27.8 C
iS 02 13 02
iP'P' 02 33 05.8
i 02 33 18.6

		micr	sec
P	Z'	0.3	0.6
Mx	E	0.6	17
Mx	N	1.8	24
Mx	Z	2.7	27

Ki iP 02 03 33.5 C
iP'P' 02 33 29.7
i 02 33 39.7

		micr	sec
P	Z'	1.0	0.8
Mx	E	0.6	18
Mx	N	1.3	19

Sk iP 02 04 02.6 C
Um iP 02 04 01.1 C
iS 02 12 15
iP'P' 02 33 17.2
i 02 33 28.0
Ud iP 02 04 25.6 C
De iP 02 04 48.9 C
iP'P' 02 33 00.1
Alaska (h = 25 km).
m = 6.8, M = 5.2 (Up,Ki).
Double P onsets, a smaller phase with arrival times as given above, followed after 0.5 sec by a much larger onset.
Remarkably large difference m - M.

" 6 Up i(PKP) 02 30 50.5
iPKP 02 30 55.0
i(SKP1) 02 34 14.5
(cont.)

1974
Apr. 6 (cont.)

Up iSKP1 02 34 22.7
Ki i(PKP) 02 30 36.6
iPKP 02 30 41.2

		micr	sec
PKP	Z'	0.1	1.0

Sk i(PKP) 02 30 48.3
iPKP 02 30 52.0
Um i(PKP) 02 30 42.7
iPKP 02 30 47.2
Ud i(PKP) 02 30 52.6
iPKP 02 30 57.3
i(SKP1) 02 34 17.8
iSKP1 02 34 24.8
De i(PKP) 02 30 58.9
iPKP 02 31 03.5
i(SKP1) 02 34 27.6
iSKP1 02 34 34.8
New Hebrides Islands (h = 8 km).
Clear precursors not only to PKP but also to SKP1.

" 6 Up iP 02 38 00.3
Ki iP 02 37 06.3
Um iP 02 37 34.0
Ud iP 02 37 58.9
De iP 02 38 21.6
Alaska (h = N).

" 6 Ud iP 02 47 03.6
North Atlantic Ocean (h = N).

" 6 Up i(PKP) 03 02 34.7
iPKP 03 02 38.2
i(SKP1) 03 05 56.6
iSKP1 03 06 04.8

		micr	sec
Mx	E	0.7	24
Mx	N	1.1	21
Mx	Z	1.4	20

Ki i(PKP) 03 02 20.5
iPKP 03 02 24.3

		micr	sec
PKP	Z'	0.1	1.3
Mx	N	0.8	19

Sk i(PKP) 03 02 32.2
iPKP 03 02 35.5
Um i(PKP) 03 02 26.7
iPKP 03 02 30.5
Ud i(PKP) 03 02 36.3
iPKP 03 02 40.3
i(SKP1) 03 06 00.4
iSKP1 03 06 07.5
De i(PKP) 03 02 42.9
(cont.)

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

1974
Apr. 6 (cont.)

De	iPKP	03 02 46.9	
	i(SKPl)	03 06 11.1	
	iSKPl	03 06 18.4	

New Hebrides Islands
(h = 15 km).
M = 5.6 (Up,Ki).
Cf note to Apr. 6, 02 30.

" 6

Up	iPKP	03 04 45.4	
	iSKPl	03 08 17.6	
Um	i(PKP)	03 04 37.3	
	iPKP	03 04 42.2	
Ud	e(PKP)	03 04 45	
	iPKP	03 04 50.4	
	iSKPl	03 08 23.2	
De	e(PKP)	03 04 53	
	iPKP	03 04 58.3	
	i(SKPl)	03 08 22.1	
	iSKPl	03 08 29.5	

New Hebrides Islands.
Origin time = 02 45 35.

" 6

Up	iSKPl	03 27 01.6	
Um	i(PKP)	03 23 21.1	
	iPKP	03 23 26.2	
Ud	iPKP	03 23 31.1	
	iSKPl	03 27 05.6	
De	i(PKP)	03 23 37.7	
	iPKP	03 23 40.4	

New Hebrides Islands
(h = 35 km).

" 6

Up	iPKP	04 02 55.5	
Ki	iPKP	04 02 44.6	
Sk	ePKP	04 02 52	
Um	i(PKP)	04 02 46.2	
	iPKP	04 02 50.7	
Ud	iPKP	04 02 56.4	
	iSKPl	04 06 29.0	
De	i(PKP)	04 03 03.2	
	iPKP	04 03 07.1	
	i(SKPl)	04 06 31.2	
	iSKPl	04 06 38.7	

New Hebrides Islands
(h = 20 km).

" 6 √

Up	iP		04 06 40.7	C
	ipP		04 06 58.1	
	iS		04 15 07	
	iP'P'		04 35 18.1	
	i		04 35 21.7	
	i		04 35 33.9	
			micr	sec
	P	Z'	0.8	0.9
	Mx	E	0.8	20

(cont.)

1974
Apr. 6 (cont.)

Up			micr	sec
	Mx	N	2.6	24
	Mx	Z	3.0	24
Ki	iP		04 05 46.5	C
	ipP		04 06 03.7	
	iP'P'		04 35 40.9	
			micr	sec
	P	Z'	1.7	1.0
	Mx	E	0.9	18
	Mx	N	1.6	19
	Mx	Z	1.3	23
Sk	iP		04 06 15.2	C
	ipP		04 06 32.7	
	iPcP		04 06 56.2	
	iP'P'		04 35 32.8	
Um	iP		04 06 14.3	C
	ipP		04 06 31.3	
	iS		04 14 28	
	iP'P'		04 35 25.5	
	i		04 35 29.2	
	i		04 35 41.2	
Ud	iP		04 06 38.8	C
	ipP		04 06 56.1	
	iP'P'		04 35 19.9	
	i		04 35 36.5	
De	iP		04 07 02.1	C
	ipP		04 07 18.5	
	iP'P'		04 35 08.4	
	i		04 35 11.5	
	i		04 35 24.4	

Alaska.
h = 60 km (Up,Ki,Sk,Um,Ud, De).
m = 6.8, M = 5.4 (Up,Ki).
The P'P' group exhibits three clear onsets (Up,Um,De).
As for the Apr. 6, 02 04, Alaska earthquake, the m - M difference is remarkably large.

" 6

Up	iP	05 22 44.9	
Ki	iP	05 21 49.9	
		micr	sec
	P	Z' 0.1	1.2
Sk	iP	05 22 16.9	
Um	iP	05 22 17.8	
Ud	iP	05 22 41.2	
	i	05 23 01.2	
De	iP	05 23 05.5	

Kodiak Island (h = 55 km).

" 6

Up	iSKPl	05 29 50.5
Sk	iPKP	05 26 12.7
Um	i(PKP)	05 26 09.1
	iPKP	05 26 13.7

(cont.)

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

1974
Apr. 6 (cont.)

Ud	iSKP1	05 29 53.7	
De	iPKP	05 26 24.9	
	iSKP1	05 30 07.0	

(New Hebrides Islands).

" 6

Up	iPKP1	06 19 26.5	
Um	iPKP	06 19 26.6	
	iSKP1	06 22 02.5	
Ud	iPKP1	06 19 26.9	
De	iPKP1	06 19 37.9	

Fiji Islands (h = 580 km).

" 6

Up	iPKP	08 01 11.2	
	iSKP1	08 04 43.5	
Ki	iPKP	08 00 58.2	
Sk	iPKP	08 01 10.5	
Um	iPKP	08 01 04.0	
Ud	iPKP	08 01 13.4	
	iSKP1	08 04 45.0	
De	iPKP	08 01 20.1	
	iSKP1	08 04 58.1	

New Hebrides Islands
(h = 20 km).

" 6

Up	i(PKP)	08 10 30.1	
	iPKP	08 10 34.2	
	iSKP1	08 14 01.2	
Ki	i(PKP)	08 10 16.3	
	iPKP	08 10 20.7	
		micr	sec
	PKP Z'	0.1	0.9
Sk	i(PKP)	08 10 28.0	
	iPKP	08 10 31.7	
Um	i(PKP)	08 10 21.2	
	iPKP	08 10 25.7	
Ud	i(PKP)	08 10 32.8	
	iPKP	08 10 36.4	
	i(SKP1)	08 13 56.4	
	iSKP1	08 14 04.6	
De	i(PKP)	08 10 37.7	
	iPKP	08 10 41.3	
	i(SKP1)	08 14 07.3	
	iSKP1	08 14 14.7	

New Hebrides Islands
(h = 20 km).

" 6

Up	iSn	10 29 18.4	
	iSgl	10 29 25.9	
Um	iSgl	10 30 03.3	
Ud	iSgl	10 30 32.4	
De	iSgl	10 30 59.1	

Esthonia.
Explosion.

" 6

Um	i(Sgl)	11 05 42.1	

1974
Apr. 6

Um	i(P)	11 09 19.7	
Ud	i(P)	11 09 46.3	

" 6

Ki	iSn	12 07 13.6	
	iS*	12 07 31.1	
Sk	iSgl	12 10 15.4	
Um	iSn	12 07 58.7	
	i	12 08 15.4	
	iSgl	12 08 34.8	

Northwest USSR.
Explosion.

" 6

Up	iPKP2	12 36 49.7	
Ki	iPKP1	12 36 17.5	
	iPKP2	12 36 30.8	
Sk	iPKP2	12 36 51.9	
Um	iPKP2	12 36 38.3	
Ud	iPKP2	12 36 57.1	
De	iPKP2	12 37 01.7	

Auckland Islands (h = N).

" 6

Up	iP	12 44 43.7	
Ki	iP	12 44 29.2	
Ud	iP	12 44 56.6	
	iPcP	12 45 28.9	

Yunnan, China (h = N).

" 6

Up	iP	15 07 26.8	

Kurile Islands.

" 6

Ud	iP	20 18 41.9	

" 6

Up	iP	20 27 15.0	
		micr	sec
	P Z'	0.1	0.8
	Mx E	0.8	14
	Mx N	1.0	14
	Mx Z	1.5	14
Ki	iP	20 27 21.5	
		micr	sec
	P Z'	0.1	1.0
	Mx E	0.8	12
	Mx N	0.8	12
	Mx Z	1.0	12
Sk	iP	20 27 40.2	D
Um	iP	20 27 12.3	D
	iPP	20 28 44.3	
Ud	iP	20 27 31.5	D
	iPP	20 29 16.4	
De	iP	20 27 29.4	D
	ePP	20 29 12	

Tadzhik SSR (h = 80 km).
m = 5.7, M = 5.1 (Up,Ki).

" 6

Up	iSgl	20 40 58.8	
Sk	ePgl	20 38 44	

(cont.)

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

1974 Apr.	6	(cont.)			
		Sk	iSgl	20 39 11.8	
		Um	iSgl	20 41 05.9	
		Ud	ePgl	20 39 18	
			iSn	20 39 53.5	
			iSgl	20 40 09.5	
		Near coast of Norway,			
		62.9°N, 8.2°E.			
		Origin time = 20 38 10.			
		Checked with Bergen reading.			
"	6	Sk	iP	20 46 10.3	
		Ud	iP	20 47 05.8	
"	6	Ud	iP	21 06 17.2	
"	6	Ud	iP	21 10 04.6	
"	6	Ud	iP	21 33 01.1	
"	6	Up	iP	22 18 13.2	
			ipP	22 18 29.2	
		Um	iP	22 17 47.6	
		Ud	iP	22 18 18.8	
		De	eP	22 18 36	
		Kurile Islands.			
		h = 60 km (Up).			
"	7	Ud	iP	00 45 41.9	
		De	iP	00 46 05.9	
"	7	Up	iP	01 02 18.3	
		Ki	iP	01 03 29.9	
		Ud	iP	01 02 12.0	
		De	iP	01 01 40.3	
		Algeria (h = N).			
"	7	Ud	i(PKPl)	01 59 42.1	
		De	iPKPl	01 59 45.9	
"	7	Ud	iP	02 30 57.7	
"	7	Up	iPKPl	03 34 51.4	
			ipPKPl	03 35 36.0	
				micr sec	
			pPKPl Z'	0.1 1.0	
		Um	iPKPl	03 34 39.4	
		Ud	iPKPl	03 34 52.9 C	
			ipPKPl	03 35 39.2	
		De	iPKPl	03 35 02.5	
			ipPKPl	03 35 47.4	
		Kermadec Islands.			
		h = 180 km (Up,Ud,De).			
"	7	Ud	iP	04 25 15.0	

1974 Apr.	7	Up	iSgl	04 50 03.9	
		Ki	iSn	04 46 45.8	
			iSgl	04 47 08.7	
		Sk	iSgl	04 49 34.6	
		Um	iSn	04 47 26.5	
			i	04 47 43.4	
			iSgl	04 48 01.7	
		Ud	iSn	04 49 24.6	
			iSgl	04 50 34.8	
		De	iSgl	04 52 07.7	
		Northwest USSR.			
		Explosion.			
"	7	Up	iP	06 12 53.4	
		Um	iP	06 12 26.5	
		Ud	iP	06 12 57.6	
		Kurile Islands (h = N).			
"	7	Up	iP	06 30 55.6	
		Ki	iP	06 30 50.0	
		Um	iP	06 30 43.4	
		Ud	iP	06 31 08.6	
		Burma.			
"	7	Up	iP	06 44 09.6	
			i	06 44 22.2	
				micr sec	
			i Z'	0.1 1.3	
		Ki	iP	06 43 21.1	
		Um	iP	06 43 43.6	
		Ud	iP	06 44 14.7	
		Kurile Islands (h = 20 km).			
"	7	Up	iSn	09 03 40.8	
			eS*	09 04 28	
			iSgl	09 04 35.0	
		Ki	iPn	09 00 26.2	
			iSn	09 01 24.8	
			iSgl	09 01 45.8	
		Sk	iSgl	09 04 12.1	
		Um	iSn	09 02 03.0	
			i	09 02 15.5	
			iSgl	09 02 36.5	
		Ud	iSn	09 04 04.3	
			i	09 04 58.1	
			iSgl	09 05 12.3	
		De	iSgl	09 06 37.6	
			i	09 06 46.6	
		Northwest USSR.			
		Explosion.			
"	7	Up	iP	11 30 16.1	
		Ud	iP	11 30 17.6	
			i	11 30 28.6	
		De	eP	11 29 48	

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

1974 Apr.	7	Ki	iSgl		13 33 34.5				
		Northwest USSR.							
		Explosion.							
"	7	Up	iP		14 28 13.6				
			iPn		14 28 36.4				
			iS		14 32 37				
					micr	sec			
			Mx	E	2.8	15			
			Mx	N	2.5	13			
			Mx	Z	2.6	13			
		Ki	iP		14 29 21.4				
					micr	sec			
			Mx	E	3.6	18			
			Mx	N	5.0	12			
			Mx	Z	5.3	12			
		Sk	iP		14 28 50.9				
			ipP		14 28 59.2				
		Um	iP		14 28 45.6				
			iS		14 33 34				
		Ud	iP		14 28 19.6				
			ipP		14 28 28.0				
			iPn		14 28 46.2				
		De	iP		14 27 46.7				
			ipP		14 27 55.4				
		Crete.							
		h = 40 km (Sk,Ud,De).							
		M = 5.3 (Up,Ki).							
		Pn (Up,Ud) is rather unusual							
		for this epicenter location.							
"	7	Up	iP		16 15 49.5				
		Ki	iP		16 16 02.6				
		Sk	iP		16 16 15.6				
		Um	iP		16 15 50.7				
		Ud	iP		16 16 05.5				
			i		16 16 19.9				
		De	iP		16 15 58.9				
		Pakistan (h = 45 km).							
"	7	Up	iP		17 50 56.3				
		Um	iP		17 50 42.8				
		Ud	iP		17 51 09.0				
		De	iP		17 51 14.3				
		Yunnan, China (h = N).							
"	8	Um	iSgl		13 10 17.4				
		Ud	iSgl		13 11 08.5				
		De	eSgl		13 11 34				
		Western USSR.							
		Explosion.							
"	8	De	iP		17 40 18.3				
		Aegean Sea.							
		Intermediate depth.							
"	8	Ud	iP		17 54 59.9	C			
1974 Apr.	8	Up	i		17 59 02.0				
		De	i(Pgl)		17 58 25.3				
			i(Sgl)		17 59 16.1				
"	8	Ud	iPKPl		18 23 06.5				
"	8	Up	epP		22 19 47				
		Ki	iP		22 19 33.1				
		Um	ipP		22 19 41.0				
		Ud	eP		22 19 42				
		De	epP		22 19 53				
		Sumatra (h = N).							
"	9	Ki	iP		01 19 09.3				
		Ud	iP		01 19 18.2				
		Sumatra (h = N).							
"	9	Ud	iP		04 45 26.3				
			i		04 45 32.4				
"	9	Um	iSgl		12 17 01.1				
		Western USSR.							
		Explosion.							
"	9	Up	iSgl		13 00 36.1				
		Sk	iSgl		13 02 34.8				
		Um	iSgl		13 01 25.1				
		De	iSgl		13 02 03.9				
		Esthonia.							
		Explosion.							
"	9 ✓	Up	iP		13 22 02.7	C			
			i		13 22 13.1				
			iPcP		13 22 29.5				
					micr	sec			
			P	Z'	0.1	0.7			
		Ki	iP		13 21 15.6	C			
					micr	sec			
			P	Z'	0.2	1.0			
		Sk	iP		13 21 51.5	C			
		Um	iP		13 21 37.1	C			
			ipP		13 22 13.2				
		Ud	iP		13 22 08.7	C			
			iPcP		13 22 34.8				
		De	iP		13 22 26.8	C			
		Kurile Islands.							
		h = 150 km (Um).							
		m = 5.9 (Up,Ki).							
"	9	Um	i(Sgl)		13 48 01.5				
"	9	Ud	iP		15 27 30.5				
			i		15 27 37.8				
"	9	Up	i(P)		15 35 09.9				
"	9	Um	iPKPl		15 56 28.0				

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

1974 Apr.	9	Up	iP		17 43 40.1	
			iPcP		17 43 43.2	
			ipP		17 43 52.5	
					micr	sec
			pP	Z'	0.1	0.9
		Ki	iP		17 43 11.4	
			ipP		17 43 22.8	
		Sk	eP		17 43 43	
		Um	iP		17 43 23.8	
			iPcP		17 43 27.5	
			ipP		17 43 36.1	
		Ud	iP		17 43 47.3	
			ipP		17 43 59.0	
		De	iP		17 43 58.5	
			ipP		17 44 10.2	
		Mariana Islands.				
		h = 45 km (Up,Ki,Um,Ud,De).				
"	9	Up	iP		21 02 07.2	
		Ki	iP		21 01 13.8	
		Um	iP		21 01 41.0	
		Ud	iP		21 02 08.4	
		Aleutian Islands (h = 35 km).				
"	10	Ki	iP		01 38 20.6	
		Um	iP		01 38 47.6	
		Ud	iP		01 39 12.8	
		Aleutian Islands (h = 15 km).				
"	10	Um	iPKPl		05 27 43.1	
"	10	De	iPKPl		05 39 44.7	
"	10	Um	iSgl		06 01 40.2	
		Gulf of Bothnia,				
		64.9°N, 24.7°E.				
		Explosion.				
		Solution from Helsinki				
		regional bulletin.				
"	10	Um	iSgl		06 47 09.3	
		Same location and kind as				
		the preceding event.				
"	10	Um	iP		06 51 06.9	
		Andaman Islands (h = N).				
"	10	Um	iSgl		09 56 52.5	
		Same location and kind as				
		the event at 06 01.				
"	10	Um	iSgl		10 57 16.5	
		Western USSR.				
		Explosion.				
"	10	Ki	iSgl		14 02 03.5	
		Um	iSgl		14 00 28.1	
		Lake Ladoga.				
		Explosion.				
1974 Apr.	10	Um	iSgl		14 05 47.3	
		Lake Ladoga region.				
		Explosion.				
"	10	Up	iPgl		14 08 47.5	
			iSgl		14 09 06.9	
			iRg		14 09 14.9	
		Ud	iPgl		14 08 55.4	
			iSgl		14 09 21.1	
		De	iSgl		14 09 34.4	
			iRg		14 09 48.4	
		Östergötland, Sweden,				
		58.7°N, 16.0°E.				
		Origin time = 14 08 23.				
		Explosion?				
"	10	Um	iP		22 03 10.7	C
		Ud	iP		22 03 29.9	C
"	10	Up	iP		22 55 35.5	
			ipP		22 56 05.9	
			iS		23 05 48	
					micr	sec
			pP	Z'	0.1	1.2
			Mx	E	1.3	22
			Mx	N	1.7	30
			Mx	Z	3.0	22
		Ki	iP		22 55 24.1	
			i		22 55 40.8	
					micr	sec
			P	Z'	0.1	1.5
			Mx	E	1.2	23
			Mx	N	1.9	23
			Mx	Z	3.6	30
		Sk	iP		22 55 15.5	
			i		22 55 36.1	
			ipP		22 55 47.9	
		Um	iP		22 55 32.7	
			i		22 55 39.2	
			isP		22 56 13.6	
			iS		23 05 49	
		Ud	iP		22 55 25.3	
			ipP		22 55 55.6	
		De	iP		22 55 32.2	
			i		22 55 57.9	
		Guatemala.				
		h = 120 km (Up,Sk,Ud).				
		m = 5.6, M = 5.4 (Up,Ki).				
		M uncorrected for focal				
		depth.				
"	10	Up	iP		23 11 39.7	
					micr	sec
			P	Z'	0.1	1.2
			Mx	E	0.9	16
			Mx	N	0.8	17
			Mx	Z	1.5	16
		Ki	iP		23 11 16.5	
		(cont.)				

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

1974 Apr.	10	(cont.)					
		Ki			micr	sec	
			P	Z'	0.1	1.4	
			Mx	E	0.9	13	
			Mx	N	0.7	16	
			Mx	Z	0.7	13	
		Sk	eP		23 11 44		
		Um	iP		23 11 27.3		
			i		23 11 32.4		
		Ud	iP		23 11 49.1		
			i		23 11 57.1		
		De	iP		23 11 59.0		
		Formosa (h = 55 km).					
		m = 5.6, M = 5.4 (Up,Ki).					
"	11	Up	iPKPl		03 29 11.4		
		Sk	iPKPl		03 29 06.7		
		Ud	iPKPl		03 29 18.4		
		De	iPKPl		03 29 27.3		
"	11	Ki	iP		07 03 10.5		
		Um	iP		07 03 36.4		
		Ud	iP		07 04 01.7		
		Aleutian Islands (h = N).					
"	11	Up	iSn		11 40 36.7		
			iSgl		11 40 47.4		
		Ki	iSgl		11 43 16.7		
		Sk	iSgl		11 42 40.3		
		Um	iSgl		11 41 20.1		
		Ud	iSn		11 41 22.4		
			iSgl		11 41 47.5		
		De	iSgl		11 42 15.8		
		Esthonia.					
		Explosion.					
"	11	Um	iSgl		13 20 17.3		
		De	iSgl		13 21 25.4		
		Western USSR.					
		Explosion.					
"	11	Sk	iPKPl		19 58 41.3		
		Um	iPKPl		19 58 41.6		
"	11	Ud	iP		21 09 53.8		
		Iran (h = 25 km).					
"	11	Up	iP		21 48 51.1	C	
			i		21 48 54.9		
			iPcP		21 49 14.4		
					micr	sec	
			P	Z'	0.2	0.9	
			i	Z'	0.1	0.7	
		Ki	iP		21 48 07.6	C	
			i		21 48 10.1		
		(cont.)					

1974 Apr.	11	(cont.)					
		Ki			micr	sec	
			P	Z'	0.1	1.0	
			i	Z'	0.1	1.0	
		Sk	iP		21 48 42.8	C	
			i		21 48 45.6		
		Um	iP		21 48 27.1	C	
			i		21 48 30.6		
		Ud	iP		21 48 58.1	C	
			i		21 49 02.1		
		De	iP		21 49 14.9		
			i		21 49 19.0		
		Japan (h = 80 km).					
		m = 5.9 (Up,Ki).					
		Double P phases suggest two events of the same magnitude, apparently with a slight shift in epicenter location.					
"	11	Um	iP		22 57 53.1		
		Ud	iP		22 58 19.1		
"	12	Ud	iP		01 18 21.4		
"	12	Ud	iP		06 49 04.4		
"	12	Ki	iPn		11 18 44.5		
			iSgl		11 19 48.9		
		Northwest USSR-Norway.					
		Explosion.					
"	12	Ki	iSn		11 31 50.7		
			iS*		11 32 10.0		
		Um	iSgl		11 33 06.9		
		Northwest USSR.					
		Explosion.					
"	12	Sk	iPKP		12 35 01.2		
		New Hebrides Islands (h = 240 km).					
"	12	Up	iP		17 58 16.4		
			i		17 58 17.2		
					micr	sec	
			P	Z'	0.1	1.0	
		Ki	iP		17 57 53.2		
			i		17 57 54.0		
					micr	sec	
			P	Z'	0.1	1.0	
		Sk	eP		17 58 17		
			i		17 58 17.8		
		Um	iP		17 58 02.6		
		Ud	iP		17 58 23.7		
			i		17 58 24.6		
		De	iP		17 58 33.2		
		(cont.)					

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

1974 Apr.	12	(cont.) Philippine Sea (h = N). m = 6.0 (Up,Ki). Double P, a small compression followed after 0.8 sec by a larger dilatation.			
"	12	Sk	iP	18 37 07.8	
		Ud	iP	18 37 10.4	
		Colombia (h = 150 km).			
"	12	Ud	iP	19 32 36.7	
"	12	Up	iPKPl	19 35 26.4	
		Um	iPKPl	19 35 15.6	
		Ud	iPKPl	19 35 28.1	
		De	iPKPl	19 35 37.4	
			i	19 35 43.3	
"	12	Up	iP	19 50 23.1	
		Ki	iP	19 49 38.7	
		Um	iP	19 49 58.5	
		Ud	iP	19 50 27.3	
			i	19 50 29.7	
		Japan (h = 80 km).			
"	12	Up	iX	20 26 30.0	
		Ud	eP	20 26 26	
			iX	20 26 38.3	
		De	iP	20 25 53.6	
		Crete (h = 100 km).			
"	12	Up	iP	21 45 32.0	
			i	21 45 46.2	
		Ud	iP	21 45 31.4	
"	12	Ki	i(P)	23 38 16.5	
"	12	Um	i(P)	23 39 58.5	
"	13	Up	iP	00 39 58.1	
		Sk	iP	00 40 22.4	
		Um	iP	00 39 56.7	
		Ud	iP	00 40 14.8	
		De	iP	00 40 11.0	
		Hindu Kush. Intermediate depth.			
"	13	Ud	iP	01 02 46.0	
		Japan (h = 60 km).			
"	13	Um	i(Sgl)	01 10 25.5	
"	13	Um	iPKPl	03 36 04.4	
		Ud	iPKPl	03 36 11.6	
		De	iPKPl	03 36 23.0	
1974 Apr.	13	Ud	iP	04 40 36.0	
"	13	Up	iP	05 09 57.3	
		Sk	iP	05 09 54.3	
		Um	iP	05 09 30.8	
		Ud	iP	05 10 08.2	
		De	iP	05 10 25.5	
		Lake Baikal (h = N).			
"	13	Ki	iPP	09 07 44.2	
		Sk	iPP	09 08 05.0	
		Um	iP	09 06 08.8	
		Ud	iP	09 06 30.8	
		De	iP	09 06 33.5	
		Kazakh SSR (h = 35 km).			
"	13	Ki	iSn	12 32 34.3	
			iSgl	12 32 55.1	
		Sk	iSgl	12 35 36.9	
		Um	iSgl	12 33 59.4	
		Northwest USSR. Explosion.			
"	13	Ki	iPn	13 04 34.8	
			iSn	13 05 24.4	
			iSgl	13 05 42.1	
		Um	eSgl	13 07 05	
		Northwest USSR-Norway. Explosion.			
"	13	Ki	iSgl	15 00 51.8	
		Um	iSgl	15 01 48.5	
		Northwest USSR-Finland. Explosion.			
"	13	Up	iP	15 42 38.0	
		Ki	iP	15 42 38.6	
		Sk	iP	15 42 59.8	
		Um	iP	15 42 31.9	
		Ud	iP	15 42 54.1	
		De	iP	15 42 53.1	
		Kashmir-Sinkiang (h = 110 km).			
"	13	Up	eSgl	18 12 13	
		Um	iSgl	18 11 48.3	
		Ud	iSgl	18 13 13.9	
		Lake Ladoga region. Explosion.			
"	13	Um	iPKPl	18 31 15.9	
"	13	Up	iP	20 19 27.3	
		Ki	iP	20 18 31.7	
		Sk	eP	20 19 09	
		Um	iP	20 18 58.0	
		Ud	iP	20 19 29.8	
		Kamchatka (h = N).			

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

1974 Apr.	14	Ud	iP		01	41	27.9
"	14	Ud	iP		01	48	53.7
"	14	Up	eP		04	17	57
		Ud	iP		04	17	54.2
"	14	Up	iSgl		05	19	43.9
		Ki	iSn		05	16	26.5
			iSgl		05	16	51.0
		Um	iS*		05	17	36.8
			iSgl		05	17	44.9
		Ud	iSgl		05	20	12.3
		Northwest USSR.					
		Explosion.					
"	14	Um	iP		07	04	20.7
		Ud	iP		07	04	52.5
		Kurile Islands.					
"	14	Up	iP		07	07	30.0
			ipP		07	08	00.5
					micr		sec
			pP	Z'	0.1		1.3
		Ki	iP		07	07	21.3
			ipP		07	07	50.1
					micr		sec
			pP	Z'	0.1		1.3
		Sk	iP		07	07	12.8
			ipP		07	07	41.6
		Um	iP		07	07	27.6
			ipP		07	07	58.1
		Ud	iP		07	07	21.1
			ipP		07	07	51.0
		De	iP		07	07	27.6
			epP		07	07	57
		Guatemala.					
		h = 110 km (Up,Ki,Sk,Um,Ud, De).					
		m = 5.6 (Up,Ki).					
"	14	Up	iP		07	20	50.1
		Um	iP		07	20	42.3
		Ud	iP		07	21	03.4
		Burma.					
"	14	Um	iP		07	53	01.1
		Ud	iP		07	53	18.6
			i		07	53	25.5
"	14	Um	iP		08	41	25.8
		Ud	iP		08	41	41.9
"	14	Ki	iP		09	34	44.2
		Ud	iP		09	35	15.4
"	14	Ud	eP		10	50	49
			i		10	50	59.3

1974 Apr.	14	Up	iP		10	55	25.1
					micr		sec
			P	Z'	0.1		1.1
			Mx	E	0.8		14
			Mx	N	0.5		12
			Mx	Z	1.7		13
		Ki	iP		10	54	55.1
					micr		sec
			P	Z'	0.1		1.0
			Mx	E	0.6		13
			Mx	N	0.7		13
			Mx	Z	0.7		13
		Sk	ipP		10	55	34.6
		Um	iP		10	55	07.6
			ipP		10	55	18.0
		Ud	iP		10	55	33.7
		De	iP		10	55	44.2
		Ryukyu Islands.					
		h = 40 km (Um).					
		m = 5.9, M = 5.3 (Up,Ki).					
"	14	Sk	iP		11	35	40.6
		De	iP		11	34	47.6
		Crete (h = 2 km).					
"	14	Up	iPKP		11	35	04.6
		Sk	iPKP		11	35	08.9
		Ud	iPKP		11	35	16.3
		New Guinea (h = 100 km).					
		PKP at Ud is practically simultaneous with P for the preceding event, whence a reliable separation is not possible.					
"	14	Up	iP		11	50	15.3
			ipP		11	50	25.2
					micr		sec
			P	Z'	0.1		1.1
			Mx	E	0.8		14
			Mx	N	0.6		13
			Mx	Z	1.2		13
		Ki	iP		11	49	46.6
			ipP		11	49	54.7
					micr		sec
			P	Z'	0.1		1.0
			Mx	Z	0.5		12
		Sk	iP		11	50	15.6
		Um	iP		11	49	57.8
			ipP		11	50	05.7
		Ud	iP		11	50	23.7 C
			ipP		11	50	32.5
		De	iP		11	50	34.3 C
		Ryukyu Islands.					
		h = 30 km (Up,Ki,Um,Ud).					
		m = 5.9, M = 5.3 (Up,Ki).					

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

1974
Apr. 14 Ud iP 12 07 48.6
Dodecanese Islands (h = 45 km).

" 14 Up iP 12 20 58.0
ipP 12 21 19.9
Ki iP 12 20 22.4
Um iP 12 20 35.2
ipP 12 20 58.8
Ud iP 12 21 05.3
ipP 12 21 27.3
South of Japan.
h = 80 km (Up,Um,Ud).

" 14 Up iP 13 53 05.4
Ud eP 13 53 14
i 13 53 31.0

" 14 Ki iP 15 51 45.2
Um iP 15 52 14.6
Ud iP 15 52 44.6
De iP 15 53 10.6
Eastern Siberia (h = N).

" 14 Up iP 17 26 33.5
ipP 17 26 40.9
Ki iP 17 26 04.4
ipP 17 26 12.6
Um iP 17 26 08.7
Ud iP 17 26 43.0
ipP 17 26 49.9
Ryukyu Islands.
h = 30 km (Up,Ki,Ud).

" 14 Up iP 23 33 39.9
Ki iP 23 32 58.2
Um iP 23 33 17.0
Ud iP 23 33 47.5 C
De iP 23 34 03.7
Japan (h = 40 km).

" 15 Sk iP 02 38 49.5
Ud iP 02 39 10.5
Eastern Siberia (h = N).

" 15 Up iP 03 55 58.8
ipP 03 56 13.2

		micr	sec
P	Z'	0.1	0.8
Mx	E	0.8	16
Mx	N	0.9	17
Mx	Z	1.4	20

Ki iP 03 55 38.4

		micr	sec
P	Z'	0.1	1.0

Sk iP 03 56 06.7
(cont.)

1974
Apr. 15 (cont.)
Um iP 03 55 45.2
ipP 03 55 59.4
Ud iP 03 56 08.6
ipP 03 56 21.5
De eP 03 56 16
Luzon.
h = 50 km (Up,Um,Ud).
m = 5.8 (Up,Ki).

" 15 Up iP 05 49 54.2 C
Ki iP 05 49 33.2
Um iP 05 49 40.9
Ud iP 05 50 03.8
ipP 05 50 19.0
Luzon.
h = 55 km (Ud).

" 15 Up iPKPl 11 32 31.7
Ud iPKPl 11 32 33.6

" 15 Ki iP 12 13 46.5
Talaud Islands (h = 20 km).

" 15 Up i 12 17 31.8
iSgl 12 18 28.6
i 12 18 45.4
Sk ePn 12 16 05
iSn 12 17 07.6
Um iSn 12 18 24.6
i 12 18 41.6
i 12 18 57.0
iSgl 12 19 15.0
iSg2 12 19 27.2
Ud iPn 12 16 00.5 C
iSn 12 16 59.7
i(TSn) 12 17 44.3
De iSn 12 17 34.8
Off coast of southwest Norway, 60.2°N, 3.2°E.
Origin time = 12 14 42.
Solution checked with Bergen and Kongsberg readings.

" 15 Um eSgl 12 44 30
Ud eSgl 12 45 20
Western USSR.
Explosion.

" 15 Ud iP 13 00 22.1

" 15 Up iP 15 46 51.2
Um iP 15 47 06.5
Ud iP 15 46 57.2
Malagasay (h = N).

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

1974 Apr.	15	Ki	iP	16 36 47.6
		Sk	iP	16 37 10.7
		Um	iP	16 37 13.0
		Ud	iP	16 37 35.4
		De	iP	16 37 55.5
		Alaska (h = 7 km).		
"	15	Up	iP	21 53 02.4
		Um	iP	21 53 46.6
		Italy (h = N).		
"	16	Ud	iSKP1	00 53 00.6
"	16	Ud	iP	01 03 38.9
"	16	Ud	iP	01 54 27.4
"	16	Ud	eP	02 22 40
"	16	Up	iP	05 21 44.9
		Ki	iP	05 21 33.1
		Um	iP	05 21 40.8
		Mexico (h = 120 km).		
"	16	Up	iP	05 59 54.9
		Ki	iP	05 59 38.1
		Sk	iP	06 00 10.5
		Um	iP	05 59 39.5
		Ud	iP	06 00 11.4
		De	iP	06 00 18.9
		Kazakh SSR.		
		Origin time = 05 53 00.		
		Underground explosion?		
"	16	Ki	iPn	11 02 19.9
			i	11 03 06.0
			iSn	11 03 08.2
		Sk	eSn	11 04 37
		Um	iSn	11 04 34.4
		Ud	i	11 05 34.9
			eSn	11 06 01
		Norwegian Sea,		
		71.4°N, 15.4°E.		
		Origin time = 11 01 17.		
		By combination with Tromsoe and Finnish station readings.		
"	16	Up	iP	11 24 18.0
"	16 √	Up	iP	11 35 12.2 C
			i	11 35 14.0
			ipP	11 35 42.2
			iX	11 35 52.9
				micr sec
			P Z'	0.1 0.9
		Ki	iP	11 34 55.1 C
			iX	11 35 34.7
		(cont.)		

1974 Apr.	16	(cont.)		
		Ki		micr sec
			P Z'	0.1 0.8
		Sk	iP	11 35 17.7
			i	11 35 19.4
			ipP	11 35 48.9
			iX	11 35 58.6
		Um	iP	11 34 58.9 C
			i	11 35 00.7
			iX	11 35 39.3
		Ud	iP	11 35 21.5 C
			i	11 35 23.4
			ipP	11 35 51.2
			iX	11 36 01.7
		De	iP	11 35 27.0
			iX	11 36 07.1
		Mindoro.		
		h = 120 km (Up,Sk,Ud).		
		m = 5.6 (Up,Ki).		
		Double P, 1.8 sec apart in average.		
		X is probably P of another event in the same location, 40.3 sec later.		
"	16	Up	eSgl	12 03 13
		Um	iSgl	12 03 45.9
		Ud	eSgl	12 04 11
		Esthonia.		
		Explosion.		
"	16	Up	iSgl	13 00 40.2
		Sk	iSgl	13 02 37.9
		Um	iSgl	13 01 32.8
		Ud	iSgl	13 01 44.6
		Esthonia.		
		Explosion.		
"	16	Up	iP	13 11 28.0
"	16	Up	i(P)	18 17 19.9
		Ki	iP	18 16 35.8
		Um	iP	18 17 01.9
		Ud	iP	18 17 30.9
		Aleutian Islands (h = 40 km).		
"	16	Ud	iP	18 34 49.7
"	16	Up	iPKP2	18 38 00.4
		Ki	iPKP	18 37 23.6
		Um	iPKP	18 37 30.8
			iPKP2	18 37 38.3
		Ud	iPKP2	18 38 08.2
		New Zealand (h = N).		
"	16	Ud	iP	22 28 36.0
		Hindu Kush.		

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

1974 Apr.	16	Ud	iP		22 28 59.3	
		Could instead be pP to the preceding event.				
"	16	Um	eP		22 43 28	
		Ud	iP		22 42 55.2	
"	16	Sk	i(P)		23 51 39.6	
		Ud	iP		23 52 01.2	
		De	iP		23 52 28.7	
"	17	Up	iP		00 40 09.6	
			i		00 40 11.9	
			iS		00 46 27	
					micr	sec
			P	Z'	0.1	1.5
			Mx	E	1.0	20
			Mx	N	2.1	23
			Mx	Z	1.7	21
		Ki	iP		00 40 35.4	
			i		00 40 40.1	
					micr	sec
			P	Z'	0.1	1.1
			Mx	E	1.1	15
			Mx	N	2.2	22
			Mx	Z	1.1	19
		Sk	iP		00 39 59.6	
			i		00 40 02.9	
		Um	iP		00 40 26.8	
			i		00 40 31.3	
			iS		00 46 59	
		Ud	iP		00 39 55.9	
		De	iP		00 39 49.9	
			i		00 39 51.8	
			i		00 40 13.1	
		North Atlantic Ocean (h = N).				
		m = 5.6, M = 5.2 (Up,Ki).				
		Double P, characteristic for Atlantic earthquakes recorded at our stations.				
"	17	Sk	eP		00 50 16	
		Um	iP		00 50 10.6	
		Ud	iP		00 50 38.1	
		De	iP		00 51 00.2	
		Aleutian Islands (h = 45 km).				
"	17	Up	iP		01 34 57.8	
		Um	iP		01 35 42.5	
		Ud	iP		01 35 02.1	
		De	iP		01 34 16.4	
		Rumania (h = N).				
"	17	Um	iP		01 56 45.8	
			ipP		01 57 01.2	
		Ud	iP		01 57 14.4	
		(cont.)				

1974 Apr.	17	(cont.)				
		Japan.				
		h = 55 km (Um).				
"	17	Um	iP		03 49 19.5	
		Ud	iP		03 49 50.3	
		Kurile Islands (h = 45 km).				
"	17	Up	iP		04 26 50.3	
		Ud	iP		04 26 53.5	
"	17	Ud	iPKP1		04 28 40.2	
"	17	Sk	eP		05 56 03	
		Ud	iP		05 56 18.9	
		Kurile Islands (h = N).				
"	17	Ud	iP		06 26 09.9	
		Kurile Islands (h = N).				
"	17	Up	iP		06 28 18.0	
		Ud	iP		06 28 25.7	
		Kurile Islands (h = N).				
"	17	Up	iSn		11 43 49.7	
			iSg1		11 44 00.8	
		Ki	iSg1		11 46 35.0	
		Sk	iSg2		11 46 02.6	
		Um	iSg1		11 44 35.9	
		Ud	iSn		11 44 37.7	
			iSg1		11 45 06.0	
		De	eSn		11 44 59	
			iSg1		11 45 31.6	
		Esthonia.				
		Explosion.				
"	17	Um	iSg1		12 10 47.3	
		Ud	iSg1		12 11 30.3	
		Western USSR.				
		Explosion.				
"	17	Up	iSg1		12 52 33.0	
		Um	iSg1		12 54 32.3	
		Ud	iSg1		12 53 08.3	
		De	iSg1		12 53 08.9	
		Off coast of Östergötland, Sweden, 58.3°N, 17.5°E.				
		Origin time = 12 51 45.				
		Explosion.				
"	17	Up	iPg1		14 49 27.5	
			iSg1		14 49 42.7	
			iRg		14 49 48.1	
		Ud	iSg2		14 49 22.6	
			iRg		14 49 25.2	
		Central Sweden.				
		Origin time = 14 49 09.				
		Near-surface event.				

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

1974 Apr.	17	Up	iP		15 34 58.4	
		Ki	iP		15 34 41.6	
					micr	sec
			P	Z'	0.1	1.1
		Sk	iP		15 35 02.5	
			i		15 35 07.4	
		Um	iP		15 34 46.5	
			i		15 34 51.9	
		Ud	iP		15 35 05.1	
			i		15 35 10.6	
			i		15 38 10.7	
		De	eP		15 35 15	
		Molucca Passage (h = N).				
		Double P, 5.3 sec apart, of which De has recorded only the second one.				
"	17	Up	iP		18 35 51.8	
			iS		18 42 30	
					micr	sec
			P	Z'	0.1	1.5
			Mx	E	0.9	18
			Mx	N	0.8	18
			Mx	Z	1.1	16
		Ki	iP		18 36 42.0	
			i		18 36 46.6	
					micr	sec
			P	Z'	0.1	1.0
			Mx	E	1.1	20
			Mx	N	0.9	13
			Mx	Z	0.5	13
		Sk	iP		18 36 26.6	
		Um	iP		18 36 14.4	
			iPcP		18 37 40.7	
			iS		18 43 18	
		Ud	iP		18 36 01.9	
		De	iP		18 35 38.4	
		Red Sea (h = N).				
		m = 5.7, M = 5.1 (Up,Ki).				
"	17	Ud	iP		18 52 14.2	
"	17	Ud	iPKPl		19 49 22.1	
"	17	Up	iPKPl		19 50 14.6	
		Ud	iPKPl		19 50 16.5	
"	17	Up	iRg		19 57 02.5	
		Ud	iSg2		19 56 34.8	
			iRg		19 56 38.3	
		Central Sweden.				
		Near-surface event.				
"	18	Up	iP		01 31 55.0	
		Ki	iP		01 31 56.4	
		(cont.)				
1974 Apr.	18	(cont.)				
		Sk	iP		01 31 40.1	
		Um	iP		01 31 58.9	
		Ud	iP		01 31 49.6	
		De	iP		01 31 44.3	
		Colombia (h = 25 km).				
"	18	Ud	iPKP		07 54 46.4	
		De	iPKP		07 54 52.3	
		Solomon Islands (h = 90 km).				
"	18	De	iPKPl		08 24 04.4	
		Fiji Islands (h = 540 km).				
"	18	Ud	iSgl		09 11 09.1	
		Near Bergen, Norway.				
		Origin time = 09 08 57.				
		By combination with Bergen readings.				
"	18	Ki	iPKP		09 18 36.7	
		South Sandwich Islands (h = N).				
"	18	Ud	i(Sgl)		09 23 19.1	
"	18	Ud	iP		10 21 20.8	
		De	iP		10 20 48.8	
		Crete (h = N).				
"	18	Up	iP		10 41 33.1	
		Ki	iP		10 40 35.7	
			i		10 40 51.9	
		Sk	eP		10 41 13	
		Um	iP		10 41 01.7	
		Ud	iP		10 41 35.3	
		De	iP		10 41 59.3	
		Kamchatka (h = 45 km).				
"	18	Um	iSgl		12 10 12.7	
		Western USSR.				
		Explosion.				
"	18	Ud	iPgl		12 14 11.7	
			iSgl		12 14 31.7	
			i		12 14 34.7	
			iRg		12 14 43.6	
		De	iSgl		12 14 51.0	
		Västergötland, Sweden, 58.6°N, 13.5°E.				
		Origin time = 12 13 47.				
		Explosion.				
"	18	Up	iSgl		15 01 13.2	
		Sk	i		15 00 43.6	
		(cont.)				

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

1974 Apr.	18	(cont.)			
		Sk	iSgl	15 00 49.8	
		Um	iSgl	15 02 02.5	
		Ud	iPgl	14 59 47.6	
			i	15 00 08.0	
			iSgl	15 00 10.8	
			iRg	15 00 21.1	
		De	iSgl	15 01 43.9	
		Southeastern Norway, 60.8°N, 10.6°E.			
		Origin time = 14 59 18.			
"	18	Sk	iP	19 24 33.4	
		Um	iP	19 24 17.8	
		Ud	iP	19 24 46.4	
		Japan (h = 60 km).			
"	18	Ki	ePKP	21 25 15	
		Um	iPKP	21 25 13.2	
		Ud	ePKP	21 25 06	
		Southeast Pacific Ocean (h = N).			
"	18	Ki	iP	21 34 36.4	
			i	21 34 51.0	
		Kurile Islands.			
"	19	Ki	iP	03 41 03.2	
		Ud	iP	03 42 01.8	
"	19	Ki	iPKP	07 04 39.0	
		Ud	iPKPl	07 04 44.5	
		De	iPKPl	07 04 56.1	
"	19	Up	iPKPl	07 23 28.7 D	
			i	07 24 10.1	
			iSKPl	07 26 14.6	
				micr sec	
			PKPl Z'	0.1 0.7	
			SKPl Z'	0.1 1.2	
		Ki	i(PKP)	07 23 06.1	
			iPKP	07 23 18.9	
			ipPKP	07 25 42.0	
			iSKPl	07 25 51.6	
				micr sec	
			PKP Z'	0.1 1.2	
			SKPl Z'	0.7 2.3	
		Sk	i(PKP)	07 23 21.1	
			iPKP	07 23 22.2	
			iSKPl	07 26 10.1	
		Um	i(PKP)	07 23 16.2	
			i	07 23 17.3	
			iPKP	07 23 23.0	
			ipPKP	07 25 48.7	
			iSKPl	07 26 04.9	
		Ud	iPKPl	07 23 31.4 D	
			iSKPl	07 26 17.5	
		De	iPKP	07 23 40.6	
		(cont.)			

1974 Apr.	19	(cont.)			
		De	iPKPl	07 23 41.7 D	
			ipPKPl	07 26 01.9	
			iSKPl	07 26 25.3	
		Tonga-Kermadec Islands.			
		h = 650 km (Ki,Um,De).			
"	19	Up	iPKPl	08 21 33.6	
		Ki	iPKP	08 21 24.4	
			eSKPl	08 23 59	
		Sk	iPKP	08 21 26.6	
			iSKPl	08 24 14.2	
		Um	iPKP	08 21 21.5	
			iSKPl	08 24 09.7	
		Ud	iPKPl	08 21 35.9 D	
		De	iPKPl	08 21 46.6 D	
			iSKPl	08 24 30.2	
		Tonga-Kermadec Islands (h = 600 km).			
"	19	Um	iP	11 06 26.8	
"	19	Ud	iP	11 19 30.2	
		Hindu Kush.			
		Intermediate depth.			
"	19	Um	iSgl	12 17 59.4	
		Western USSR.			
		Explosion.			
"	19	Ki	i	12 18 11.6	
			iSgl	12 18 20.3	
		Um	iSgl	12 19 13.1	
		Northwest USSR.			
		Explosion.			
"	19	Um	iSgl	12 34 57.7	
		Western USSR.			
		Explosion.			
"	19	Um	iSgl	14 27 14.5	
		Ud	iSgl	14 27 53.5	
		Western USSR.			
		Explosion.			
"	19	Up	iPn	15 29 53.9	
			iSgl	15 30 44.6	
		Ki	iSgl	15 33 21.7	
		Sk	iSn	15 32 04.1	
			iSgl	15 32 40.8	
		Um	iPgl	15 30 23.4	
			iSgl	15 31 24.0	
		Ud	iPn	15 30 21.9	
			iSn	15 31 24.8	
			iSgl	15 31 51.1	
		De	iPn	15 30 34.9	
			iPgl	15 30 55.2	
		(cont.)			

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

1974 Apr.	19	(cont.)				
		De	iSn	15 32 45.8		
			iS*	15 32 16.7		
			iSgl	15 32 20.5		
		Gulf of Finland,				
		59.7°N, 23.9°E.				
		Origin time = 15 29 03.				
"	19	Up	iP	18 30 12.7		
		Ki	iP	18 29 35.8		
		Sk	eP	18 30 09		
		Um	iP	18 29 51.3		
		Ud	iP	18 30 20.2		
		Japan (h = 130 km).				
"	19	Up	iP	22 36 29.0		
		Um	iP	22 36 14.9		
		Ud	iP	22 36 38.4		
"	20	Up		micr	sec	
			Mx	E 0.6	20	
			Mx	N 0.5	20	
			Mx	Z 0.8	20	
		Ki		micr	sec	
			Mx	E 0.9	22	
			Mx	N 1.0	21	
		Um	i	03 29 44.5		
		Ud	iPKP	03 29 36.6		
		De	iPKP1	03 29 37.6		
		Loyalty Islands (h = N).				
		M = 5.6 (Up,Ki).				
"	20	Up	iP	04 39 33.3		
			i	04 39 42.0		
		Ki	iP	04 39 13.6		
		Um	iP	04 39 20.3		
		Ud	iP	04 39 41.8		
		Philippine Islands (h = N).				
"	20	Up	iP	08 00 54.4		
			i	08 00 59.2		
		Ki	iP	08 00 55.1		
		Um	iP	08 00 51.5		
		Ud	iP	08 01 06.0		
		De	iP	08 01 03.2		
		Nicobar Islands (h = N).				
"	20	Ud	iP	08 33 12.8		
		De	iP	08 33 37.7		
		Aleutian Islands (h = 40 km).				
"	20	Up		micr	sec	
			Mx	E 0.8	20	
			Mx	N 1.0	22	
			Mx	Z 1.4	21	
		(cont.)				

1974 Apr.	20	(cont.)				
		Ki		micr	sec	
			Mx	E 0.9	20	
			Mx	N 1.0	19	
			Mx	Z 0.9	19	
		Ud	iPKP	08 46 40.5		
		Loyalty Islands (h = N).				
		M = 5.7 (Up,Ki).				
"	20	Up	iP	08 48 05.3		
"	20	Ki	i(P)	10 44 05.9		
			i	10 44 11.0		
			i	10 44 23.5		
"	20	Ki	iSn	12 20 50.9		
			iSgl	12 21 10.5		
		Um	eSgl	12 22 12		
		Northwest USSR.				
		Explosion.				
"	20	Up	iSgl	14 51 39.5		
		Ki	iSn	14 48 30.1		
			iSgl	14 48 45.8		
		Sk	iSgl	14 51 11.0		
		Um	iSgl	14 49 40.4		
		Ud	e	14 51 25		
			iSgl	14 52 08.0		
		Northwest USSR-Finland.				
		Explosion.				
"	20	Ud	iPKP1	14 58 53.8		
"	20	Up	iP	15 02 17.5		
"	20	Ki	eP	16 09 30		
		Ud	iP	16 09 53.6		
"	20	Up	iP	16 13 55.3	C	
			iPcP	16 14 17.2		
				micr	sec	
			P	Z' 0.1	1.0	
		Ki	iP	16 13 12.0	C	
			ipP	16 13 25.7		
				micr	sec	
			P	Z' 0.1	0.9	
		Sk	iP	16 13 47.0		
		Um	iP	16 13 31.3	C	
			ipP	16 13 47.1		
		Ud	iP	16 14 02.1	C	
			iPcP	16 14 24.3		
		De	iP	16 14 18.8	C	
		Japan.				
		h = 55 km (Ki,Um).				
		m = 5.8 (Up,Ki).				
"	20	Ud	iPKP1	16 19 14.0		

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

1974 Apr.	20	Up	iP		17 49 28.5	
		Ki	iP		17 48 34.5	
		Ud	iP		17 49 27.7	
		Aleutian Islands (h = 40 km).				
"	20	Ud	iP		19 59 52.8	
"	20	Up	eP		23 25 15	
		Ud	iP		23 25 24.1	
"	21	Ud	eP		00 40 23	
"	21	Um	iPKP		01 01 15.2	
		Ud	iPKP1		01 01 23.2	
		De	iPKP1		01 01 34.6	
		Fiji Islands (h = 670 km).				
"	21	Up	iPKP		01 12 47.2	
					micr	sec
			Mx	E	1.0	21
			Mx	N	1.2	22
			Mx	Z	2.3	21
		Ki			micr	sec
			Mx	E	1.1	22
			Mx	N	1.4	20
			Mx	Z	1.2	20
		Um	iPKP		01 12 46.9	
			i		01 13 01.9	
			iSKP1		01 16 13	
		Ud	ePKP		01 12 52	
		De	iPKP1		01 12 57.5	
			i		01 13 05.7	
		Loyalty Islands (h = N).				
		M = 5.8 (Up,Ki).				
"	21	Up	iP		01 35 44.1	
			iPcP		01 36 06.4	
		Ki	iP		01 34 58.8	
		Um	iP		01 35 18.8	
		Ud	iP		01 35 50.0	
		De	iP		01 36 07.3	
		Kurile Islands (h = 60 km).				
"	21	Up	iP		02 18 47.3	
			ipP		02 18 55.3	
					micr	sec
			pP	Z'	0.1	1.0
		Ki	iP		02 18 01.4	
			ipP		02 18 10.0	
					micr	sec
			P	Z'	0.1	1.5
			pP	Z'	0.1	1.0
		Sk	iP		02 18 36.4	
			ipP		02 18 45.9	
		Um	iP		02 18 22.0	
			ipP		02 18 30.8	
		(cont.)				

1974 Apr.	21	(cont.)			
		Ud	iP		02 18 53.5
			ipP		02 19 02.4
		De	iP		02 19 11.8
			ipP		02 19 20.3
			iPcP		02 19 36.1
		Okhotsk Sea.			
		h = 30 km (Up,Ki,Sk,Um,Ud, De).			
		m = 5.9 (Up,Ki).			
"	21	Um	iP		04 05 26.0
		Ud	iP		04 04 54.2
		Italy.			
"	21	Up	iP		04 56 13.3
		Ki	iP		04 55 25.2
		Um	iP		04 55 56.0
		Ud	iP		04 56 14.1
		De	iP		04 56 32.7
		Queen Elisabeth Islands (h = 30 km).			
		All our stations exhibit large positive residuals (+5 to +15 sec) in relation to the NEIS solution.			
"	21	Up	i(P)		06 13 21.9
"	21	Up	iPKP2		07 15 22.0
		Ud	iPKP2		07 15 20.1
			i		07 15 29.7
		Macquarie Islands (h = N).			
"	21	Up	iSg1		09 27 51.9
		Ki	iPn		09 23 44.0
			iSn		09 24 40.8
			iSg1		09 25 01.7
		Sk	i		09 26 13.7
			iSg1		09 27 28.3
		Um	iSn		09 25 23.3
			i		09 25 38.1
			iS*		09 25 51.7
			iSg1		09 25 56.8
		Ud	iSn		09 27 20.8
			iSg1		09 28 21.5
			iSg2		09 28 36.6
		De	eSg1		09 29 50
		Northwest USSR.			
		Explosion.			
"	21	Ki	iSn		09 31 53.9
		Northwest USSR.			
		Explosion.			
"	21	Up	i		11 09 22.5
		(cont.)			

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

1974							
Apr.	21	(cont.)					
		Up	iSn		11 09 46.0		
			i		11 10 07.7		
			iSgl		11 10 19.7		
					micr	sec	
			Sgl	Z'	0.1	0.7	
		Ki	eSn		11 10 35		
			iSgl		11 11 17.2		
		Sk	iPn		11 07 56.1		
			i		11 07 59.2		
			iPgl		11 08 03.6		
			iSn		11 08 35.0		
			i		11 08 42.2		
			iSgl		11 08 47.1		
		Um	i(Pn)		11 08 36.4		
			iPn		11 08 46.9		
			i		11 09 41.9		
			i		11 10 07.3		
			iSgl		11 10 30.5		
		Ud	i(Pn)		11 08 06.8		
			iPn		11 08 11.9		
			iPgl		11 08 23.4		
			i		11 08 45.3		
			iSn		11 09 06.4		
			i		11 09 17.5		
			iSgl		11 09 24.3		
		De	iSn		11 10 07.3		
			i		11 10 21.5		
			i		11 10 46.7		
			iSgl		11 10 50.6		

Off coast of west Norway, 62.5°N, 5.7°E.
Origin time = 11 07 03.
The appearance of double Pn (and Sn) is probably related to the detailed structure of the Moho discontinuity (for a discussion, see R. Wahlström, Seismolog. Inst., Uppsala, Rep. No. 3-75, 1975).

"	21	Up	iP		15 18 41.4	D	
			ipP		15 19 32.4		
					micr	sec	
			P	Z'	0.1	1.2	
		Ki	iP		15 18 17.2	D	
			ipP		15 19 04.7		
					micr	sec	
			P	Z'	0.1	0.9	
		Sk	iP		15 18 45.0		
		Um	iP		15 18 25.7	D	
			ipP		15 19 13.5		
		Ud	iP		15 18 50.7	D	
			ipP		15 19 42.0		
		De	eP		15 19 00		
			i		15 19 07.3		

(cont.)

1974							
Apr.	21	(cont.)					
		Formosa.					
		h = 200 km (Up,Ki,Um,Ud).					
		m = 5.5 (Up,Ki).					
"	21	Up	i(P)		16 40 23.5		
"	21	Up	iPKPl		19 29 45.5		
		Um	iPKPl		19 29 34.2		
		Ud	iPKPl		19 29 47.8	C	
		De	iPKPl		19 29 58.0		
"	21	Up	ePKPl		23 08 26		
		Ki	iPKPl		23 07 56.6		
		Um	iPKPl		23 08 12.7		
		Ud	iPKPl		23 08 26.7		
"	21	Ud	iP		23 19 30.5		
		Kurile Islands.					
		Intermediate depth.					
"	22	Up	iP		00 40 20.4		
			i		00 40 24.5		
					micr	sec	
			Mx	E	0.9	18	
			Mx	N	3.4	19	
			Mx	Z	2.0	14	
		Ki	iP		00 39 53.3	C	
			i		00 39 57.3		
					micr	sec	
			P	Z'	0.1	0.8	
			Mx	E	0.9	15	
			Mx	N	0.9	15	
			Mx	Z	0.5	13	
		Sk	eP		00 40 27		
		Um	iP		00 40 03.0	C	
			i		00 40 07.4		
		Ud	iP		00 40 30.6	C	
			i		00 40 34.9		
		De	iP		00 40 41.3	C	
			i		00 40 45.8		
		Eastern China (h = N).					
		M = 5.3 (Up,Ki).					
		Double P, 4.3 sec apart.					
"	22	Up	iP		01 50 06.9	C	
		Ki	iP		01 50 05.9	C	
		Sk	iP		01 50 23.2		
			ipP		01 50 34.4		
		Um	iP		01 50 02.4	C	
			ipP		01 50 13.8		
		Ud	iP		01 50 19.3	C	
			isP		01 50 36.3		
		De	iP		01 50 18.0	C	
		Andaman Islands.					
		h = 40 km (Sk,Um,Ud).					

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

1974 Apr.	22	Ud	iP	01 57 50.5	
"	22	Up		micr sec	
			Mx Z	0.6 21	
		Um	iPKP	02 24 38.8	
		De	iPKPl	02 24 49.0	
		Loyalty Islands (h = 40 km).			
"	22	Up	iP	02 40 33.3	
			iPcP	02 40 52.7	
		Ki	iP	02 39 40.0	
			iPcP	02 40 08.8	
		Ud	iP	02 40 32.0	
			iPcP	02 40 52.2	
		De	eP	02 40 57	
			iPcP	02 41 11.5	
		Aleutian Islands (h = 70 km).			
"	22	Up	iP	03 25 40.9	
		Ki	iP	03 26 46.3	
		Sk	iP	03 26 19.2	
		Um	iP	03 26 11.4	
		Ud	iP	03 25 48.6 D	
		De	iP	03 25 17.9	
		Crete (h = 70 km).			
"	22	Um	eP	04 32 59	
		Ud	iP	04 33 24.0	
		Aleutian Islands (h = 45 km).			
"	22	Up	iP	04 41 56.3	
		Ki	iP	04 41 03.0	
		Sk	iP	04 41 34.3	
		Um	iP	04 41 29.8	
		Ud	iP	04 41 55.4	
		De	iP	04 42 18.4	
		Aleutian Islands (h = 30 km).			
"	22	Up	eSgl	08 24 06	
		Ki	iPgl	08 21 28.4	
			i	08 21 50.5	
			iSgl	08 22 05.5	
		Sk	iPgl	08 21 31.2	
			iSgl	08 22 12.0	
		Um	iPgl	08 21 44.4	
			iSn	08 22 19.5	
			iSgl	08 22 33.7	
		Ud	iSgl	08 23 59.9	
		Nordland, Norway, 66.5°N, 14.4°E.			
		Origin time = 08 20 40.			
		Explosion.			
"	22	Ki	ePn	09 44 40	
			iSn	09 45 26.5	
			iSgl	09 45 41.8	
		(cont.)			
1974 Apr.	22	(cont.)			
		Um	iSgl	09 47 13.3	
		Northwest USSR-Norway.			
		Explosion.			
"	22	Up	eSgl	12 13 25	
		Sk	eSgl	12 15 06	
		Um	iSgl	12 13 41.8	
		De	eSgl	12 14 48	
		Western USSR.			
		Explosion.			
"	22	Up	iP	12 34 26.5	
		Ud	iP	12 34 30.5	
"	22	Ki	iPn	12 54 09.3	
			iPgl	12 54 18.4	
			iSn	12 54 57.9	
			iSgl	12 55 13.9	
		Northwest USSR-Norway.			
		Explosion.			
"	22	Ki	iSgl	14 12 58.7	
		Sk	iSgl	14 13 01.4	
		Um	iSn	14 13 11.7	
			iSgl	14 13 26.6	
		Ud	iSgl	14 14 56.8	
		Nordland, Norway, 66.5°N, 13.9°E.			
		Origin time = 14 11 28.			
		Explosion.			
"	22	Up	iSn	14 19 10.1	
			iSgl	14 19 23.6	
		Ki	eSgl	14 21 49	
		Sk	iSgl	14 21 13.5	
			i	14 21 19.5	
		Um	iSgl	14 19 57.6	
		Ud	iSn	14 19 58.8	
			iSgl	14 20 24.6	
		De	iSgl	14 20 52.1	
		Esthonia.			
		Explosion.			
"	22	Ki	iP	15 37 40.8	
		Ud	iP	15 36 57.2	
			i	15 37 05.2	
		De	iP	15 36 56.1	
		North Atlantic Ocean (h = N).			
"	22	Ud	iSgl	15 39 41.7	
		De	iPgl	15 38 15.7	
			iSgl	15 38 40.2	
			iRg	15 38 50.9	
		Origin time = 15 37 44.			

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

1974					
Apr.	22	Ki	iP	16 09 54.0	
		Kurile Islands.			
"	22	Up	iP	18 03 22.0	
		Sk	iP	18 04 04.0	
		Um	iP	18 04 01.5	
		Ud	iP	18 03 28.9	
		De	iP	18 02 53.0	
		Greece (h = 70 km).			
"	22	Up	iP	19 15 29.1	
		Ki	iP	19 14 48.0	
		Um	iP	19 15 05.9	
		Ud	iP	19 15 36.2	
		Japan (h = 70 km).			
"	22	Up	iP	20 59 51.1	
		Ki	iP	20 59 14.8	
		Um	iP	20 59 29.5	
		Ud	iP	20 59 58.4	
		Japan (h = 60 km).			
"	23	Up	i	08 02 00.4	
			i(Sgl)	08 02 31.4	
		Sk	i	08 04 05.3	
		De	e	08 03 02	
"	23	Um	iPKPl	08 41 26.2	
		Ud	iPKPl	08 41 39.5	
		De	iPKPl	08 41 53.5	
		Kermadec Islands (h = N).			
"	23	Sk	iP	11 53 47.2	
		Guatemala-Mexico (h = 180 km).			
"	23	Um	iSgl	11 54 54.8	
		Esthonia.			
		Explosion.			
"	23	Up	iP	12 03 23.6	
		Sk	eP	12 03 18	
		Um	iP	12 03 02.1	
		Ud	iP	12 03 31.4	
		De	iP	12 03 46.2	
		Japan (h = 60 km).			
"	23	Sk	i(P)	12 04 41.5	
"	23	Um	iSgl	12 49 16.2	
			i	12 49 21.9	
		Western USSR.			
		Explosion.			
"	23	Up	iP	17 49 23.9	
		Ki	eP	17 49 55	
		Um	eP	17 49 38	
		(cont.)			

1974					
Apr.	23	(cont.)			
		Um	i	17 49 52.1	
		Ud	iP	17 49 22.0	
		Atlantic Ocean (h = N).			
"	23	Um	iP	18 55 42.4	
		Ud	iP	18 55 10.6	
			i	18 55 17.4	
		De	i(P)	18 55 16.2	
"	23	Ki	iP	19 35 54.3	
		Um	iP	19 35 31.4	
		Ud	iP	19 35 33.7	
		De	iP	19 35 17.2	
		Iran (h = N).			
"	23	Up	i(P)	19 57 12.3	
"	24	Ud	iPKP	01 27 28.1	
		De	iPKP	01 27 35.8	
		Tonga Islands (h = 310 km).			
"	24	Up	iP	03 05 16.7	
		Ki	iP	03 05 43.2	
			i	03 05 49.4	
		Sk	eP	03 05 48	
		Um	iP	03 05 24.0	
			i	03 05 34.7	
		Ud	iP	03 05 25.3	
			i	03 05 30.6	
		De	iP	03 05 10.3	
			i	03 05 15.9	
		Iran (h = 60 km).			
"	24	Um	iP	07 00 40.1	
"	24	Um	iP	07 01 19.4	
		Poland.			
"	24	Up	iP	09 22 11.5	C
		Ki	iP	09 22 03.3	
		Um	iP	09 21 58.8	C
		Ud	iP	09 22 20.5	
		De	iP	09 22 22.1	C
		Sumbawa Island (h = 70 km).			
"	24	Um	iSgl	12 16 56.7	
		Western USSR.			
		Explosion.			
"	25	Um	iP	00 07 07.7	
		Ud	iP	00 07 34.9	
		Kurile Islands (h = 60 km).			
"	25	Ki	iP	00 14 40.1	
				micr sec	
			P Z'	0.1 1.0	
		(cont.)			

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

1974 Apr.	25	(cont.)				
		Sk	iP	00 14 18.8		
		Um	iP	00 14 14.6		
		Ud	iP	00 13 55.5		
		Uganda (h = N).				
"	25	Up	iP	05 19 11.1		
		Ki	iP	05 19 47.6		
		Um	iP	05 19 27.3		
		Ud	iP	05 19 30.8		
		Iran.				
"	25	Ki	iS*	09 38 39.6		
			iSgl	09 38 45.1		
		Northwest USSR.				
		Explosion.				
"	25	Ki	iP	10 50 48.9		
		Ud	iP	10 51 13.3		
		Halmahera (h = 50 km).				
"	25	Um	iSgl	12 25 43.1		
		Ud	iSgl	12 26 28.8		
		Western USSR.				
		Explosion.				
"	25	Up	iSgl	13 56 30.6		
		Um	iSgl	13 56 52.8		
		Western USSR.				
		Explosion.				
"	25	Up	iP	16 00 20.3		
		Ki	iP	15 59 48.1		
			ipP	15 59 59.8		
		Um	iP	16 00 00.6		
		Ud	iP	16 00 28.4		
			ipP	16 00 38.8		
		De	iP	16 00 40.0		
		Ryukyu Islands.				
		h = 40 km (Ki,Ud).				
"	25	Ud	iP	16 58 30.0		
			i	16 58 38.1		
		De	iP	16 58 01.3		
"	26	Up	iP	00 03 48.1		
"	26	Up	ipP	02 29 14.7		
		Ki	iP	02 28 12.6		
			ipP	02 28 28.4		
		Sk	epP	02 29 05		
		Um	iP	02 28 36.0	C	
			ipP	02 28 49.7		
		Ud	iP	02 29 06.9	C	
			ipP	02 29 20.3		
		Kurile Islands.				
		h = 50 km (Ki,Um,Ud).				

1974 Apr.	26	Um	i(P)	02 31 56.5		
"	26	Up	i	06 39 45.7		
			iSgl	06 39 56.2		
		Ki	iSgl	06 40 40.1		
		Sk	eSgl	06 41 05		
		Um	iSgl	06 39 14.8		
		De	iSgl	06 41 33.3		
		Lake Ladoga region.				
		Explosion.				
"	26	Um	i(P)	07 14 01.0		
"	26	Um	i(P)	08 21 59.3		
"	26	Up	eP	09 05 05		
"	26	Up	iSgl	10 02 44.4		
		Ki	i(Pn)	09 58 05.1		
			iPn	09 58 09.1		
			i	09 58 11.2		
			iPgl	09 58 12.6		
			iSn	09 58 42.7		
			iSgl	09 58 48.0		
				micr	sec	
			Pgl	Z'	0.1	0.5
			Sn	Z'	0.4	0.3
			Sgl	Z'	0.7	0.5
		Sk	e(Pgl)	09 59 35		
			i	10 00 37.5		
			i(S*)	10 01 01.3		
			iSgl	10 01 06.5		
		Um	i	09 59 26.3		
			iSn	10 00 06.6		
			iS*	10 00 37.4		
			iSgl	10 00 44.9		
		Ud	i	10 02 14.1		
			iSgl	10 02 51.9		
		De	iSgl	10 04 39.0		
		Off coast of north Norway, 70.2°N, 18.1°E.				
		Origin time = 09 57 27.				
		By combination with Tromsoe and Finnish station readings.				
"	26	Ki	iSgl	10 24 44.2		
		Northwest USSR-Norway.				
		Explosion.				
"	26	Ki	iSn	10 33 35.6		
			iSgl	10 33 57.4		
		Um	i	10 34 32.7		
			iSgl	10 34 47.7		
		Northwest USSR.				
		Explosion.				
"	26	Ki	iSn	10 34 43.0		
		(cont.)				

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

1974 Apr.	26	(cont.)			
		Ki	iS*	10 35 02.4	
		Sk	e(S*)	10 37 22	
			iSg2	10 37 47.9	
		Um	iSn	10 35 22.7	
			iSgl	10 35 57.1	
		Ud	iSgl	10 38 31.4	
		Northwest USSR.			
		Explosion.			
"	26	Up	iP	12 07 12.8	
		Um	iP	12 07 04.8	
			i	12 07 10.4	
		De	iP	12 07 24.6	C
"	26	Sk	eSgl	13 56 19	
		Um	iSgl	13 54 34.4	
		Lake Ladoga region.			
		Explosion.			
"	26	Sk	iP	14 17 19.0	
		Ud	iP	14 16 46.0	
"	26	Up	iP	18 16 36.8	
		Ki	iP	18 17 26.0	
			i	18 17 39.0	
		Sk	iP	18 17 11.1	
		Um	iP	18 16 58.5	
		Ud	iP	18 16 48.2	
		Red Sea (h = N).			
"	26	Um	i(P)	19 13 40.8	
		Tanimbar Islands (h = N).			
"	26	Up	iP	22 36 13.3	
		Ud	iP	22 36 13.6	
		De	eP	22 35 43	
		Greece.			
"	26	Up	iP	23 07 44.4	C
			i	23 07 46.2	
		Ki	iP	23 07 54.7	C
			ipP	23 08 24.3	
			iPP	23 09 32.6	
		Sk	iP	23 08 11.1	C
			ipP	23 08 40.9	
			iPP	23 10 02.4	
		Um	iP	23 07 43.8	C
			i	23 08 04.9	
			ipP	23 08 13.3	
		Ud	iP	23 08 01.2	C
			ipP	23 08 30.9	
			iPP	23 09 42.5	
		De	iP	23 07 57.3	
		Hindu Kush.			
		h = 140 km (Ki,Sk,Um,Ud).			

1974 Apr.	27	Ud	iPKPl	02 27 59.5	C
"	27	Ki	iP	04 38 05.8	
		Um	i(P)	04 38 26.0	
		Ud	iP	04 39 08.9	
"	27	Up	iSgl	06 15 12.2	
		Ud	iPgl	06 14 11.1	
			iSgl	06 14 32.4	
		Origin time = 06 13 44.			
"	27	Up	iSKS	06 26 01	
			iS	06 27 05	
		Um	iSKS	06 26 05	
			iS	06 27 07	
		Peru (h = 110 km).			
"	27	Up	iPKPl	07 44 25.5	D
			ipPKPl	07 44 39.7	
			iPP	07 47 40	
			i	07 55 18.1	
				micr	sec
			PKPl Z'	1.5	1.2
			Mx E	0.9	18
			Mx N	1.7	19
			Mx Z	2.2	20
		Ki	i(PKP)	07 44 03.2	
			iPKP	07 44 12.9	
			ipPKP	07 44 26.3	
			iPP	07 46 56	
			iSKPl	07 47 44	
				micr	sec
			PKP Z'	0.2	1.4
			Mx E	2.0	19
			Mx N	1.6	17
			Mx Z	1.9	18
		Sk	iPKPl	07 44 17.3	
			iPKP	07 44 22.3	
			iPP	07 47 16.2	
		Um	iPKPl	07 44 14.7	
			iPKP	07 44 19.8	
			iPP	07 47 14.1	
			iSKPl	07 47 51	
			i	07 55 29.2	
		Ud	iPKPl	07 44 27.1	D
			ipPKPl	07 44 41.2	
			iPP	07 47 44.0	
		De	iPKP	07 44 33.9	
			iPKPl	07 44 38.1	D
			ipPKPl	07 44 51.3	
			i	07 55 38.8	
		Tonga-Kermadec Islands.			
		h = 45 km (Up,Ki,Ud,De).			
		M = 6.0 (Up,Ki).			
"	27	Up	iPKPl	08 03 30.6	
		(cont.)			

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

1974
Apr. 27 (cont.)

Up	ipPKPl	08 03 42.0	
Ud	iPKPl	08 03 32.3	
	ipPKPl	08 03 43.4	
De	ipPKPl	08 03 54.1	

Tonga-Kermadec Islands.
h = 40 km (Up,Ud).
Origin time = 07 44 00.

" 27

Up	iPKPl	08 59 37.5	
	i	08 59 43.9	
Sk	iPKPl	08 59 32.1	
Um	iPKPl	08 59 27.1	D
Ud	iPKPl	08 59 39.6	D
	i	08 59 46.4	
De	ePKP	08 59 45	

Probably Tonga-Kermadec Islands.
Origin time = 08 40 07.

" 27

Up	iPKPl	09 05 59.3	
Ud	iPKPl	09 06 00.8	

" 27

Up	iP	09 27 44.4	
	ipP	09 28 22.2	
Ki	iP	09 27 47.5	
Sk	iP	09 28 07.4	
Um	iP	09 27 39.6	
	ipP	09 28 18.5	
Ud	iP	09 28 00.4	
	ipP	09 28 38.9	

Tadzhik-Sinkiang.
h = 190 km (Up,Um,Ud).

" 27

Up	iP	10 11 16.2	D
	ipP	10 11 23.8	
		micr sec	
	P Z'	0.1 1.0	
Ki	iP	10 10 21.0	D
	ipP	10 10 27.8	
Sk	iP	10 10 57.9	
Um	iP	10 10 46.6	
Ud	iP	10 11 19.8	
De	iP	10 11 43.1	

Kamchatka.
h = 25 km (Up,Ki).

" 27

Ud	iPKPl	10 13 34.9	

" 27

Up	iPKPl	10 21 19.8	
Ki	iPKP	10 21 09.6	
	iSKPl	10 23 52.3	
Sk	iSKPl	10 24 07.6	
Um	iSKPl	10 24 03.0	
Ud	iPKPl	10 21 21.9	
	iSKPl	10 24 14.7	

(cont.)

1974
Apr. 27 (cont.)

De	iPKPl	10 21 32.1	

Tonga-Kermadec Islands (h = 520 km).

" 27

Up	iPKPl	10 30 46.0	
Ki	iPKP	10 30 38.9	
Ud	iPKPl	10 30 48.3	

" 27

Ki	iSn	12 05 53.0	
	i	12 06 06.7	
	iSgl	12 06 15.6	
Um	iSn	12 06 37.3	
	iSgl	12 07 15.6	

Northwest USSR.
Explosion.

" 27

Um	iSgl	12 20 04.8	

Western USSR.
Explosion.

" 27

Ud	iPKPl	14 39 07.3	

" 27

Up	iPKPl	15 19 32.6	
Ud	iPKPl	15 19 33.4	

" 27

Um	iP	17 31 19.2	
Ud	iP	17 31 50.2	

Kurile Islands (h = 80 km).

" 27

Ud	iP	18 04 45.1	

" 27

Up	iPKPl	19 30 10.2	
Ud	iPKPl	19 30 10.6	

" 27

Up	iPKPl	19 31 09.7	
	ipPKPl	19 31 20.3	
Um	iPKP	19 31 05.1	
Ud	iPKPl	19 31 11.1	
	ipPKPl	19 31 21.3	

" 27

Up	iPKPl	21 09 28.0	
Ud	iPKPl	21 09 30.0	

" 27

Up	ePKPl	21 26 29	
Um	iPKPl	21 26 13.2	
	i	21 26 17.3	
Ud	iPKPl	21 26 26.5	

" 28

Up	eP	01 00 59	
Ki	iP	01 01 59.6	
Um	iP	01 01 25.3	
Ud	iP	01 01 11.6	

Turkey (h = N).

" 28

Ud	iPKP	03 49 21.5	

Fiji Islands (h = 280 km).

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

1974 Apr.	28	Up	e	07 53 10				
			iSgl	07 53 16.9				
		Ki	iPn	07 49 02.3				
			iSn	07 50 00.1				
			iS*	07 50 18.1				
		Sk	e	07 52 11				
			iSgl	07 52 48.2				
		Um	iSn	07 50 40.5				
			iSgl	07 51 13.4				
		Ud	iSn	07 52 38.4				
			iS*	07 53 35.9				
			iSgl	07 54 46.7				
		De	iSgl	07 55 28.4				
		Northwest USSR. Explosion.						
"	28	Up	iPn	12 54 58.4				
			i	12 55 23.3				
			iSn	12 56 32.5				
			i	12 56 46.3				
			iSgl	12 57 28.3				
				micr	sec			
			Sgl	Z'	0.3	0.7		
		Ki	iPn	12 53 21.7			D	
			i	12 53 33.3				
				micr	sec			
			Pn	Z'	1.7	0.5		
			i	Z'	4.2	0.5		
		Sk	iPn	12 54 13.5				
			iPgl	12 54 31.0				
			iSn	12 55 11.2				
			iSgl	12 55 44.3				
		Um	iPn	12 54 08.7			D	
			i	12 54 21.7				
			iPgl	12 54 26.6				
			iSn	12 55 03.8				
			iSgl	12 55 36.4				
		Ud	iPn	12 54 56.8				
			i	12 54 58.3				
			i	12 55 04.7				
			i	12 55 17.3				
			iPgl	12 55 28.7				
			iSn	12 56 32.2				
			i	12 56 44.1				
			iSgl	12 57 28.6				
		De	iPn	12 55 45.3				
			iSn	12 57 52.8				
			i	12 58 37.9				
			iSgl	12 59 17.6				
		Near coast of north Norway, 68.9°N, 17.3°E. Origin time = 12 52 54. Checked with Norwegian and Finnish station readings.						

1974 Apr.	28	Ud	iP	16 05 08.7
"	28	Um	iP	16 26 34.7
"	28	Sk	iP	16 35 39.3
		De	iP	16 34 36.2
		Crete (h = N).		
"	28	De	iPKPl	17 19 33.7
		Loyalty Islands (h = 30 km).		
"	28	Ud	iP	18 34 05.7
"	28	Up	iP	19 03 56.6
		Ki	iP	19 03 33.3
		Um	iP	19 03 41.6
		De	eP	19 04 14
		Formosa (h = N).		
"	28	Ud	iP	21 04 40.8
			i	21 05 01.5
"	28	Up	iPKPl	21 34 39.2
"	28	Um	iP	23 32 11.2
		Celebes (h = 80 km).		
"	29	Um	iP	00 05 20.4
		Ud	iP	00 05 20.0
"	29	Up	iP	02 03 45.4
		Hindu Kush (h = 130 km).		
"	29	Um	iP	08 39 10.4
		Bonin Islands (h = 500 km).		
"	29	Um	iSgl	12 24 56.1
		Western USSR. Explosion.		
"	29	Ud	iP	13 31 30.2
		Tadzhik SSR.		
"	29	Um	i(Sgl)	15 36 24.7
"	29	Um	iP	16 26 10.8
		Ud	iP	16 26 21.5
		Off coast of Oregon (h = N).		
"	29	Up	iP	20 10 52.9
			ipP	20 11 01.4
			iPP	20 11 41.8
		Ki	iP	20 11 54.4 C

(cont.)

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

1974 Apr.	29	(cont.)					
		Ki			micr	sec	
			P	Z'	0.1	1.0	
		Sk	iP		20 11	31.9	C
			ipP		20 11	40.9	
		Um	iP		20 11	21.3	
			ipP		20 11	29.2	
			iPP		20 12	36.1	
		Ud	iP		20 11	02.9	C
			ipP		20 11	11.0	
		De	iP		20 10	35.2	
			ipP		20 10	43.7	
		Egypt.					
		h = 40 km (Up,Sk,Um,Ud,De).					
"	29	Ki	i(P)		21 39	36.5	
		Um	iP		21 39	36.7	
		Ud	iP		21 40	02.3	
			i		21 40	10.0	
		Mindoro (h = 150 km).					
"	29	Up	iP		22 33	32.5	
		Ki	iP		22 33	34.9	
		Sk	iP		22 33	18.5	
			i(pP)		22 33	37.3	
		Um	iP		22 33	36.2	
		Ud	iP		22 33	23.0	C
		De	iP		22 33	25.1	
		Colombia (h = 90 km).					
"	29	Up	iP		22 47	45.6	
		Ki	iP		22 48	30.5	
		Ud	iP		22 48	01.4	
		De	iP		22 47	41.7	
		Iran-Iraq (h = N).					
"	30	Ki	iP		01 11	14.6	
			iPcP		01 12	03.2	
		Um	iP		01 11	27.9	
		Ud	iP		01 12	11.8	
		Kurile Islands (h = 50 km).					
"	30	Up	iP		02 38	05.4	
		Ki	iP		02 37	21.1	
		Sk	eP		02 37	56	
		Um	iP		02 37	40.8	
		Ud	iP		02 38	11.6	
		Japan (h = 50 km).					
"	30	Up	iP		03 06	06.5	
"	30	Up	eP		03 33	41	
		Ki	iP		03 33	12.5	C
		Sk	iP		03 33	39.2	
		Um	iP		03 33	23.8	
		(cont.)					

1974 Apr.	30	(cont.)					
		Ud	iP		03 33	48.1	
		Mariana Islands (h = N).					
"	30	Ki	iSn		07 29	16.2	
			iSgl		07 29	39.5	
		Sk	iSgl		07 32	10.9	
		Um	iSgl		07 30	34.6	
		Northwest USSR.					
		Explosion.					
"	30	Up	iP		07 34	49.4	
			ipP		07 35	01.3	
		Ki	iP		07 34	28.4	D
			ipP		07 34	40.1	
		Sk	ipP		07 35	06.6	
		Um	iP		07 34	35.2	D
			ipP		07 34	48.0	
		Ud	iP		07 34	59.0	
		Luzon.					
		h = 45 km (Up,Ki,Um).					
"	30	Um	iPKPl		08 23	24.2	
"	30	Um	iP		08 46	49.6	
"	30	Up	iSgl		11 56	41.1	
			i		11 56	43.8	
		Ud	iPgl		11 56	34.5	
			e		11 56	40	
			iSgl		11 56	55.0	
			iRg		11 57	01.7	
		De	eSgl		11 57	37	
		Södermanland-Närke, Sweden, 59.2°N, 16.0°E.					
		Origin time = 11 56 08.					
		Explosion?					
"	30	Ki	iPn		12 31	47.0	
			iPgl		12 31	56.1	
			iSn		12 32	35.3	
		Northwest USSR-Norway.					
		Explosion.					
"	30	Ki	iPn		12 38	28.6	
			iPgl		12 38	36.8	
			iSn		12 39	15.1	
			iS*		12 39	27.8	
		Sk	iSgl		12 42	12.7	
		Um	iSgl		12 41	02.5	
		Ud	iSgl		12 43	33.9	
		Northwest USSR-Norway.					
		Explosion.					
"	30	Up	iSgl		12 47	59.8	
		(cont.)					

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

1974					
Apr.	30	(cont.)			
		Sk	eSgl	12 49 44	
		Um	i	12 48 02.8	
			iSgl	12 48 14.6	
		Ud	iSgl	12 48 56.4	
		De	iSgl	12 49 21.6	
		Western USSR.			
		Explosion.			
"	30	Up	iP	12 50 55.7	
"	30	Up	iP	14 21 53.0	
		Ki	iP	14 21 36.0	
		Sk	iP	14 22 12.7	
		Um	iP	14 21 34.6	
		De	iP	14 22 23.5	
"	30	Ud	iP	16 16 16.2	
"	30	Um	iP	19 21 18.0	
"	30	Up	iPKPl	19 49 23.9	
		Ud	iPKPl	19 49 24.2	
		De	iPKPl	19 49 35.6	C
		Fiji Islands (h = 550 km).			
"	30	Up	iP	19 58 46.8	
			ipP	19 59 01.4	
		Ki	iP	19 57 52.9	
			ipP	19 58 08.1	
		Um	iP	19 58 19.3	
			ipP	19 58 34.0	
		Ud	iP	19 58 45.5	
			ipP	19 59 00.2	
		De	iP	19 59 09.7	
			ipP	19 59 24.2	
		Aleutian Islands.			
		h = 55 km (Up,Ki,Um,Ud,De).			
"	30	Ki	iPKP	20 14 38.0	
		New Hebrides Islands			
		(h = 160 km).			
"	30	Up	iP	21 43 22.5	
		Afghanistan-USSR (h = 150 km).			

Markus Båth
Rutger Wahlström

November 10, 1975

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

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

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

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

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

M A Y 1 - 31, 1974

1974						
May	1	Up	iP		00 42 26.5	
		Ki	iP		00 41 39.3	
		Sk	eP		00 42 15	
		Um	iP		00 42 00.4	
		Kurile Islands (h = 180 km).				
"	1	Up	iPKP1		05 17 29.2	
			ipPKP1		05 17 42.0	
					micr sec	
			PKP1	Z'	0.2 1.0	
		De	iPKP1		05 17 41.1	
			ipPKP1		05 17 54.4	
		Tonga-Kermadec Islands.				
		h = 45 km (Up,De).				
"	1	Up	iPKP1		05 37 52.0	
			ipPKP1		05 38 03.9	
		Ud	iPKP1		05 37 53.5	
			ipPKP1		05 38 05.8	
		De	iPKP1		05 38 03.6	
			ipPKP1		05 38 13.9	
		Tonga-Kermadec Islands.				
		h = 40 km (Up,Ud,De).				
		Origin time = 05 18 21.				
"	1	Ud	iPKP1		05 39 53.8	
"	1	Up	iP		05 59 42.5	
		Um	iP		05 59 42.1	
"	1	Um	iPKP		11 49 46.5	
"	1	Ud	iPKP1		12 43 47.7	
		De	iPKP1		12 43 57.8	
"	1	Up	iPKP		13 02 37.8	
		Ki	ePKP		13 02 53	
		(cont.)				

1974						
May	1	(cont.)				
		Ki	i		13 02 59.7	
		Um	iPKP		13 02 46.0	
		Ud	iPKP		13 02 36.0	
		South Sandwich Islands				
		(h = 35 km).				
"	1	Up	iP		15 34 40.2	D
			iPP		15 38 22.9	
					micr sec	
			P	Z'	0.2 0.9	
		Ki	iP		15 34 12.7	D
					micr sec	
			P	Z'	0.5 1.0	
		Sk	iP		15 34 37.4	D
			iPP		15 38 16.9	
		Um	iP		15 34 24.0	D
			iPP		15 37 52.9	
		Ud	iP		15 34 46.2	D
			iPP		15 38 33.7	
		De	iP		15 34 57.0	D
		Mariana Islands (h = 460 km).				
		m = 6.1 (Up,Ki).				
"	1	Ud	iP		15 51 53.0	
		Greece.				
"	1	Up	iPKP1		18 54 18.3	
		Ud	iPKP1		18 54 20.3	C
		De	iPKP1		18 54 30.9	C
		Tonga-Kermadec Islands				
		(h = 520 km).				
"	1	Ki	iPKP		19 32 16.3	
		South Sandwich Islands				
		(h = N).				
"	1	Um	iPKP1		19 39 00.4	
		Ud	iPKP1		19 39 12.4	

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

1974						
May	1	Up	iP		22 06 43.8	
		Ki	iP		22 05 49.7	
		Um	iP		22 06 15.4	
		Ud	iP		22 06 47.3	
		De	iP		22 07 11.1	
		Kamchatka (h = N).				
"	2	Up	iP		04 16 32.6	
		Ki	eP		04 15 57	
					micr	sec
			Mx	E	0.7	17
			Mx	N	0.7	16
			Mx	Z	1.0	18
		Sk	iP		04 16 29.4	
		Um	iP		04 16 10.9	
		Ud	iP		04 16 39.4	
		Japan (h = 40 km).				
"	2	Um	eP		05 45 35	
		Ud	iP		05 46 03.9	
		Japan (h = N).				
"	2	Up	iP		05 47 10.2	
		Ki	iP		05 46 32.7	
					micr	sec
			Mx	E	1.2	18
			Mx	N	0.9	18
			Mx	Z	1.1	19
		Sk	iP		05 47 07.9	
		Um	iP		05 46 48.6	
		Ud	iP		05 47 16.8	
		Japan (h = 15 km).				
"	2	Um	iP		06 01 38.2	
"	2	Up	iPKP1		07 44 08.0	
		Ud	iPKP1		07 44 09.5	
		De	iPKP1		07 44 23.2	
"	2	Ki	iSg1		07 46 14.2	
		Sk	i		07 46 17.2	
			iSg1		07 46 19.9	
		Um	iSg1		07 46 41.4	
		Nordland, Norway,				
		66.5°N, 14.1°E.				
		Origin time = 07 44 45.				
		Explosion?				
"	2	Ki	iP		10 50 11.0	
		Um	iP		10 50 37.7	
		Ud	iP		10 51 03.4	
		Aleutian Islands (h = 130 km).				
"	2	Up	iP		13 21 44.4	
		Ki	iP		13 21 41.1	
		(cont.)				

1974						
May	2	(cont.)				
		Um	iP		13 21 40.0	
		Ud	iP		13 21 54.1	
		De	iP		13 21 51.8	
		Sunda Strait (h = 90 km).				
"	2	Ki	i(P)		14 17 33.3	
		Ud	iP		14 18 19.8	
		De	iP		14 18 41.6	
		Aleutian Islands (h = 55 km).				
"	2	Ud	i(P)		14 32 26.6	
"	2	Ud	iP		15 06 25.1	
		De	iP		15 06 23.7	
		Tadzhik SSR.				
"	2	Up	iSg1		15 20 51.2	
		Sk	iSg1		15 20 52.2	
		Ud	iSn		15 19 36.8	
			iSg1		15 19 54.3	
		Southern Norway.				
"	2	Up	iPKP1		17 18 10.0	
		Ud	iPKP1		17 18 10.3	
		De	iPKP1		17 18 22.2	
		Tonga-Kermadec Islands				
		(h = 170 km).				
"	2	Ud	iP		17 21 09.2	
		De	iP		17 21 27.2	
"	2	Up	iPKP1		18 01 07.9	
		Ud	iPKP1		18 01 09.3	
		De	iPKP1		18 01 19.6	
"	2	Ud	iPKP1		18 26 30.4	
			i		18 26 34.2	
"	2	Up	iP		21 44 17.9	
					micr	sec
			Mx	N	0.8	19
			Mx	Z	0.7	20
		Ki	iP		21 43 40.1 D	
		Sk	iP		21 44 11.7	
		Um	iP		21 43 56.4 D	
		Ud	iP		21 44 25.6 D	
		De	iP		21 44 39.4	
		Japan (h = N).				
"	2	Ud	iP		21 56 33.6	
		Aleutian Islands (h = 45 km).				
"	2	Up	iP		22 46 48.7 C	
					micr	sec
			P	Z'	0.1	0.9
		(cont.)				

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

1974 May	2	(cont.)				
		Ki	iP		22 45 56.0	C
					micr	sec
			P	Z'	0.1	0.8
		Um	iP		22 46 20.9	C
		Ud	iP		22 46 52.2	C
		De	iP		22 47 13.0	C
		Kamchatka (h = 60 km).				
		m = 5.9 (Up,Ki).				
"	2	Up	iPKPl		23 13 12.4	
			i		23 13 19.5	
		Ud	iPKPl		23 13 14.0	
			i		23 13 21.8	
		De	iPKPl		23 13 24.2	C
			i		23 13 28.3	
"	3	Um	iPKPl		00 18 48.4	
"	3	Um	iP		01 48 25.3	
"	3	Ud	iP		04 55 54.9	
"	3	Ki	iP		08 09 14.1	
		Guatemala (h = 55 km).				
"	3	Ud	iP		11 38 42.7	
		Luzon (h = 45 km).				
"	3	Um	iSgl		12 18 26.4	
		Western USSR-Finland.				
		Explosion.				
"	3	Up	iPKP		12 37 26.3	
			i		12 37 28.7	
		Ki	iPKP		12 37 12.8	
			i		12 37 14.6	
		Sk	ePKP		12 37 24	
			i		12 37 25.6	
		Um	iPKP		12 37 18.9	
			i		12 37 20.9	
		Ud	iPKP		12 37 28.7	
			i		12 37 30.7	
		De	iPKP		12 37 35.8	
			i		12 37 37.5	
		New Hebrides Islands				
		(h = 50 km).				
		Double PKP, smaller and larger, in average 2.0 sec apart.				
"	3	Up	iP		14 09 23.7	
			ipP		14 09 54.8	
		Ki	eP		14 09 35	
		(cont.)				

1974 May	3	(cont.)				
		Ud	iP		14 09 39.2	
			ipP		14 10 12.4	
		De	iP		14 09 35.7	
			ipP		14 10 08.0	
		Hindu Kush.				
		h = 160 km (Up,Ud,De).				
"	3	Um	iP		22 46 19.8	
		Japan (h = N).				
"	3	Um	iP		22 51 44.0	
		Ud	iP		22 52 12.1	
		Japan (h = 15 km).				
"	4	Up	ePKPl		05 23 50	
			i		05 24 00.7	
		Ud	iPKPl		05 23 52.4	
			i		05 24 01.7	
"	4	Up	iPKPl		05 25 06.4	
		Ud	iPKPl		05 25 08.5	
"	4	Up	iP		08 12 34.2	
		Ki	iP		08 11 41.0	
			i		08 11 49.2	
		Sk	iP		08 12 08.2	
			i		08 12 16.5	
		Um	iP		08 12 08.7	
			i		08 12 16.6	
		Ud	iP		08 12 32.0	
			i		08 12 39.3	
		De	iP		08 12 54.2	
			i		08 13 03.4	
		Kodiak Island (h = 10 km).				
		Double onsets, in average 8.2 sec apart.				
"	4	Ki	iP		08 56 46.3	
			i		08 56 54.5	
		Sk	iP		08 57 13.2	
		Ud	iP		08 57 37.3	
		Kodiak Island (h = 2 km).				
"	4	Sk	iP		09 19 20.5	
		Kodiak Island (h = 70 km).				
"	4	Up	iPKPl		09 28 29.5	D
			iSKPl		09 31 22.3	
					micr	sec
			PKPl	Z'	0.2	0.8
			SKPl	Z'	0.1	1.0
		Ki	iPKP		09 28 10.5	
			iSKPl		09 31 00.6	
		(cont.)				

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

1974 May 4 (cont.)

Ki			micr	sec
	SKP1	Z'	0.1	0.9
Sk	iPKP1		09 28 21.9	
	iSKP1		09 31 17.0	
Um	iPKP1		09 28 17.5	
	iSKP1		09 31 10.9	
Ud	iPKP1		09 28 31.7	D
	iSKP1		09 31 23.5	
De	iPKP		09 28 39.9	
	iPKP1		09 28 42.3	D

Tonga-Kermadec Islands (h = 550 km).

" 4

Ud	eP		11 04 13

Japan (h = 60 km).

" 4

Ki	iSn		12 20 54.1
	iSg1		12 21 13.7
Um	iSn		12 21 45.8
	iSg1		12 22 19.2

Northwest USSR.
Explosion.

" 4

Um	iSg1		12 43 49.4

Western USSR.
Explosion.

" 4

Up	i(PKP)		13 05 21.8	
	iPKP		13 05 31.5	
	iSKP1		13 08 04.5	
	iPKS1		13 08 58	
			micr	sec
	PKP	Z'	0.1	0.9
	SKP1	Z'	0.1	1.1
Ki	iPKP		13 05 17.0	
			micr	sec
	PKP	Z'	0.3	0.9
Sk	i(PKP)		13 05 19.6	
	iPKP		13 05 28.3	
	i(SKP1)		13 07 47.3	
	iSKP1		13 07 52.7	
Um	i(PKP)		13 05 09.6	
	i(PKP)		13 05 17.6	
	iPKP		13 05 23.8	
	iPP		13 07 27	
	iSKP1		13 07 41.8	
	iPKS1		13 08 39	
Ud	i(PKP)		13 05 21.0	
	iPKP		13 05 33.2	
	iSKP1		13 08 05.7	
De	i(PKP)		13 05 27.2	
	iPKP		13 05 40.4	
	iSKP1		13 08 16.9	

New Hebrides Islands (h = 600 km).
Very clear examples of PKP precursors, denoted (PKP).

1974 May 4

De	iP		15 19 07.3

Algeria (h = N).

" 4

Ki	iP		18 06 54.5	
	ipP		18 07 04.2	
			micr	sec
	pP	Z'	0.2	1.7
Sk	iP		18 06 42.8	
	ipP		18 06 52.7	
Um	iP		18 06 59.0	
	ipP		18 07 08.1	
Ud	iP		18 06 47.9	C
	ipP		18 06 57.1	

Panama.
h = 35 km (Ki,Sk,Um,Ud).

" 4

Ud	iP		19 15 07.3

Pamir.

" 4

Up	iP		20 02 02.3
	ipP		20 02 12.7
Ki	iP		20 01 45.3
Um	ipP		20 01 59.6
Ud	ipP		20 02 23.0

Mindoro.
h = 40 km (Up).

" 4

Up	iP		22 07 46.4	
			micr	sec
	P	Z'	0.1	1.1
Ki	iP		22 06 53.5	
	ipP		22 07 04.7	
			micr	sec
	P	Z'	0.1	1.1
Um	iP		22 07 18.5	
	ipP		22 07 29.3	
Ud	iP		22 07 50.6	
	ipP		22 08 02.2	

Kamchatka.
h = 40 km (Ki,Um,Ud).
m = 5.9 (Up,Ki).

" 4

Up	iP		22 15 18.7
Ki	iP		22 15 56.7
Sk	iP		22 16 00.9
Um	iP		22 15 32.8
Ud	iP		22 15 33.6
De	iP		22 15 17.0

Iran (h = 45 km).

" 4

Ki	iP		23 57 13.4
	ipP		23 57 25.5
Um	eP		23 57 21
Ud	iP		23 57 39.0
	ipP		23 57 51.2

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

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

1974
May 5 Um iP 00 15 39.8
Ud iP 00 15 58.6
Afghanistan-USSR (h = 150 km).

" 5 Up iP 06 09 30.0
micr sec
P Z' 0.1 0.8
Mx E 1.0 17
Mx N 1.1 16
Mx Z 1.8 19
Ki iP 06 09 06.7
micr sec
P Z' 0.2 1.0
Mx E 0.9 15
Mx N 0.8 17
Mx Z 0.7 14
Sk iP 06 09 34.5
Um iP 06 09 15.0
Ud iP 06 09 40.1
De iP 06 09 47.9
Formosa (h = 25 km).
m = 6.1, M = 5.4 (Up,Ki).

" 5 De eP 06 14 14
Algeria (h = 30 km).

" 5 Up micr sec
Mx E 0.9 22
Mx N 1.2 22
Mx Z 1.4 20
Ki iPKP 08 36 52.2
micr sec
Mx E 0.8 19
Mx N 1.0 21
Mx Z 1.0 21
Sk iPKP 08 37 04.3
Um iPKP 08 36 57.6
Ud iPKP 08 37 08.3
New Hebrides Islands
(h = N).
M = 5.7 (Up,Ki).

" 5 Up iSn 10 24 20.6
iSgl 10 24 32.9
Sk eSgl 10 26 26
Um iSgl 10 25 06.6
Ud iSgl 10 25 37.0
Esthonia.
Explosion.

" 5 Up iPKP 11 46 33.1
Um iPKP 11 46 24.7
Ud iPKP 11 46 34.0
New Hebrides Islands
(h = 600 km).

1974
May 5 Up iSgl 12 28 12.0
Um iSgl 12 28 28.1
Western USSR.
Explosion.

" 5 Um iP 13 14 04.6
Mariana Islands (h = 200 km).

" 5 Up iSgl 13 58 09.3
Um iSgl 13 58 30.9
Ud iSgl 13 59 13.3
Western USSR.
Explosion.

" 5 Up iP 14 30 33.7 C
ipP 14 30 45.1
micr sec
P Z' 0.2 1.2
Mx E 0.7 18
Mx N 0.8 18
Mx Z 0.8 19
Ki micr sec
Mx E 1.2 16
Mx N 0.7 18
Mx Z 1.0 17
Sk iP 14 30 27.2 C
ipP 14 30 39.2
Um iP 14 30 11.6 C
Ud iP 14 30 41.0 C
ipP 14 30 52.4
De iP 14 30 56.1 C
Japan.
h = 45 km (Up,Sk,Ud).
M = 5.3 (Up,Ki).

" 5 Ud iP 16 38 30.5
Kurile Islands.

" 5 Up iP 19 21 19.6
iPcP 19 21 45.9
ipP 19 21 54.6
Sk iP 19 21 09.0
iPcP 19 21 39.5
Um iP 19 20 54.2
ipP 19 21 29.7
Ud iP 19 21 25.0
ipP 19 21 59.6
Kurile Islands.
h = 140 km (Up,Um,Ud).

" 5 Up ePgl 19 41 41
iSgl 19 42 34.0
i 19 42 41.7
Sk eSgl 19 43 09
i 19 43 19.6
Um iSgl 19 44 13.0
(cont.)

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

1974 May	5	(cont.)			
		Ud	iPgl	19 41 08.9	
			iSgl	19 41 42.8	
			i	19 41 50.6	
		De	iSn	19 41 46.5	
			iSgl	19 41 54.3	
		Skagerrak, 58.4°N, 10.1°E.			
		Origin time = 19 40 25.			
"	6	Ud	iP	01 16 24.4	
		Nepal (h = N).			
"	6	Ud	iP	06 36 36.5	
		Mindanao (h = 90 km).			
"	6	Ki	eP	10 38 35	
		Um	iP	10 38 42.8	
		Ud	iP	10 38 54.6	
		Talaud Islands (h = 40 km).			
"	6	Up	iP	10 44 49.0	
				micr	sec
			Mx E	0.8	17
			Mx N	2.0	22
			Mx Z	1.5	18
		Ki	iP	10 44 50.1 C	
				micr	sec
			Mx E	1.8	18
			Mx N	1.4	20
			Mx Z	1.5	18
		Sk	iP	10 45 04.5 C	
		Um	iP	10 44 46.1	
		Ud	iP	10 44 59.7	
		De	iP	10 44 57.4 C	
		Sumatra (h = N).			
		M = 5.6 (Up,Ki).			
		Surface waves (Mx) mixed with those of the preceding earthquake.			
"	6	Up	iSn	11 23 59.2	
			iSgl	11 24 11.0	
		Ki	iSgl	11 26 46.4	
		Sk	iSgl	11 26 03.0	
		Um	iSgl	11 24 46.0	
		Ud	iSgl	11 25 14.6	
		De	iSgl	11 25 39.1	
		Esthonia.			
		Explosion.			
"	6	Ki	iPKP	11 57 23.5	
		Um	iPKP	11 57 28.6	
		Tonga Islands (h = 15 km).			
1974 May	6	Sk	iSgl	12 14 42.9	
		Um	iSgl	12 13 12.8	
			iRg	12 13 46.3	
		Ud	iSgl	12 13 56.4	
		Western USSR.			
		Explosion.			
"	6	Ki	iP	13 53 44.5	
		Sk	iP	13 54 10.5	
		Ud	iP	13 54 07.5	
		Sinkiang, China.			
"	6	Ki	iP	22 41 36.1	
		Sk	iP	22 42 10.6	
		Um	iP	22 41 49.6	
		Northeast China (h = N).			
"	6	Ki	iP	22 45 33.2	
		Sk	iP	22 46 07.0	
		Um	iP	22 45 45.4	
		Northeast China (h = N).			
"	7	Up	i(PKPl)	00 02 45.2	
		Um	iPKPl	00 02 26.6	
		Ud	iPKPl	00 02 39.4	
"	7	Ki	iP	01 56 17.4	
		Sk	iP	01 56 45.5	
		Um	iP	01 56 26.4	
		Ud	iP	01 56 51.4	
		Formosa (h = 35 km).			
"	7	Ki	iPKP	02 44 14.2	
		Um	iPKP	02 44 21.3	
		Ud	iPKP	02 44 29.6	
		Fiji Islands (h = N).			
"	7	Up	iP	03 15 41.3	
				micr	sec
			Mx E	1.9	20
			Mx N	3.6	20
			Mx Z	13	24
		Ki	iP	03 16 02.5	
				micr	sec
			Mx E	3.0	19
			Mx N	5.9	21
			Mx Z	4.7	20
		Sk	eP	03 15 33	
		Um	iP	03 15 56.8	
		Ud	iP	03 15 24.5	
			i	03 15 28.2	
		North Atlantic Ocean (h = N).			
		M = 5.8 (Up,Ki).			
		Surface waves (Mx) mixed with those of the preceding earthquake.			

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

1974 May	7	Um	iPKPl	03 49 22.0
"	7	Ki	iPgl	09 04 56.6
			iSn	09 05 34.3
			iS*	09 05 47.2
		Sk	eSgl	09 08 35
		Um	iSgl	09 07 19.1
		Northwest USSR-Norway.		
		Explosion.		
"	7	Um	iP	12 07 22.1
		Panama (h = N).		
"	7	Ud	iP	12 19 06.1
		Samar (h = 100 km).		
"	7	Sk	eSgl	12 24 43
		Um	iSgl	12 23 16.0
		Ud	iSgl	12 23 58.8
		Western USSR.		
		Explosion.		
"	7	Ki	iSgl	13 05 00.4
		Um	iSgl	13 02 55.9
		Esthonia.		
		Explosion.		
"	7	Um	i(Sgl)	13 14 18.9
"	7	Up	iSgl	14 38 35.8
		Um	iSgl	14 39 10.9
		Ud	eSgl	14 39 36
		Esthonia.		
		Explosion.		
"	7	Ud	iP	18 58 11.6
"	7	Ki	iP	21 13 47.7
		Ud	iP	21 14 39.2
		Kurile Islands (h = N).		
"	8	Ki	iP	04 35 58.8
		Sk	iP	04 36 31.9
		Alaska (h = 10 km).		
"	8	Up	iP	08 02 37.7
		Ki	iP	08 03 11.8
		Sk	iP	08 03 08.9
		Um	iP	08 02 51.1
		Arabian Sea (h = N).		
"	8	Ud	iP	09 04 21.9
		Japan (h = 80 km).		
"	8	Up	iP	11 09 48.4
		Ki	iP	11 09 02.4
		Ud	iP	11 09 54.7
		(cont.)		

1974 May	8	(cont.)		
		Ud	iPP	11 12 44.4
		Okhotsk Sea (h = 450 km).		
"	8	Up	iSgl	11 27 10.5
		Ki	iPn	11 22 54.6
			iSn	11 23 53.4
			iSgl	11 24 17.7
		Sk	iSn	11 25 47.5
			iSgl	11 26 41.6
		Um	iSn	11 24 34.0
			i	11 24 47.9
			iSgl	11 25 06.9
		Ud	iSn	11 26 34.5
			iSgl	11 27 42.9
		De	iSgl	11 29 17.2
		Northwest USSR.		
		Explosion.		
"	8	Up	iPKP	11 39 02.8
			ipPKP	11 39 18.1
		Ki	iPKP	11 39 17.1
			ipPKP	11 39 33.4
		Sk	iPKP	11 39 10.1
			ipPKP	11 39 26.0
		Um	iPKP	11 39 10.3
			ipPKP	11 39 25.9
		Ud	iPKP	11 39 01.3
			ipPKP	11 39 17.4
		South Sandwich Islands.		
		h = 55 km (Up,Ki,Sk,Um,Ud).		
"	8	Ud	iPKP	12 10 39.4
		Fiji Islands (h = 630 km).		
"	8	Ki	iPn	12 32 20.0
			iSn	12 33 08.2
			iSgl	12 33 24.2
		Northwest USSR-Norway.		
		Explosion.		
"	8	Ki	iPn	12 32 45.6
			iPgl	12 32 55.3
			iSn	12 33 33.5
			iSgl	12 33 50.4
		Um	iSgl	12 35 19.9
		Northwest USSR-Norway.		
		Explosion.		
"	8	Up	iSgl	12 44 32.5
		Ki	iSgl	12 46 45.7
		Sk	eSgl	12 46 21
		Um	iSgl	12 44 57.3
		De	iSgl	12 46 05.0
		Western USSR.		
		Explosion.		

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

1974 May	8	Ki	iP	15 24 47.4	
		Um	iP	15 25 11.9	
		Ud	iP	15 25 44.6	
"	8	Ki	i(P)	16 10 28.0	
		Sk	i(P)	16 10 29.8	
"	8	Ki	iP	16 44 46.1	
		Mindanao (h = 45 km).			
"	8	Ki	iSgl	20 38 36.4	
		Sk	iS*	20 38 39.6	
			iSgl	20 38 44.0	
		Um	iPgl	20 38 15.6	
			iSn	20 38 50.0	
			iSgl	20 39 03.3	
		Nordland, Norway, 66.4°N, 14.5°E. Origin time = 20 37 13. Explosion.			
"	8	Up	eP	22 17 31	
		Ud	iP	22 17 45.7	
		De	iP	22 17 44.7	
"	8	Up	iP	22 36 12.1	
		Ki	iP	22 35 56.2	
		Sk	iP	22 36 17.0	
		Um	iP	22 36 01.3	
		Ud	iP	22 36 20.2	
			ipP	22 36 41.4	
		De	iP	22 36 25.9	
		Molucca Passage. h = 80 km (Ud).			
"	8	Up	iP1	23 45 03.3	
			iP2	23 45 04.9	
			iP3	23 45 08.1	
			iP4	23 45 26.9	
			iPP	23 47 53.1	
			iS	23 54 35	
				micr sec	
			P2 Z'	0.1 0.8	
			P3 Z'	0.3 1.2	
			P4 Z'	1.2 1.7	
			PP Z'	0.8 2.2	
			Mx E	35 17	
			Mx N	71 15	
			Mx Z	47 16	
		Ki	iP1	23 44 27.6	
			iP2	23 44 28.8	
			iP3	23 44 31.4	
			iP4	23 44 49.7	
			iPP	23 46 53.4	
			iS	23 53 22	
		(cont.)			

1974 May	8	(cont.)			
		Ki		micr	sec
			P3 Z'	0.2	0.9
			P4 Z'	0.4	1.7
			PP Z'	1.0	2.3
			Mx E	100	20
			Mx N	120	19
			Mx Z	36	17
		Sk	iP1	23 44 59.7	
			iP2	23 45 01.2	
			iP3	23 45 04.2	
			iP4	23 45 22.3	
			iPP	23 47 47.2	
		Um	iP1	23 44 42.4	
			iP2	23 44 43.9	
			iP3	23 44 47.1	
			iP4	23 45 05.5	
			iPP	23 47 14.6	
		Ud	iP1	23 45 11.1	
			iP2	23 45 12.6	
			iP3	23 45 15.8	
			iP4	23 45 34.6	
		De	iP1	23 45 25.4	
			iP2	23 45 26.5	
			iP3	23 45 29.2	
			iP4	23 45 48.0	
			iPP	23 48 15.6	
		Japan (h = 2 km). m = 6.3 (P3), 6.6 (P4), M = 7.2 (Up,Ki). Multiple onsets (in average P2-P1 = 1.4 sec, P3-P1 = 4.4 sec, P4-P1 = 22.9 sec): multiple event, alternatively some depth phase (pP).			
"	8	Ki	iP	23 50 04.5	
		Um	iP	23 50 16.3	
		Japan.			
"	9	Ud	iP	03 04 13.6	D
			i	03 04 37.8	
		Pamir.			
"	9	Up	iPKP1	05 35 20.4	
		Sk	iPKP1	05 35 13.1	
		Um	iPKP1	05 35 07.2	
		Ud	iPKP1	05 35 21.7	
		De	iPKP1	05 35 29.8	
			i	05 35 43.9	
		Kermadec Islands.			
"	9	Ki	iP	05 35 19.9	
			ipP	05 35 30.4	
		Sk	eP	05 35 55	
		Um	iP	05 35 45.3	
		(cont.)			

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

1974 May	9	(cont.)			
		Ud	iP	05 36 16.8	
			ipP	05 36 28.7	
		Kamchatka.			
		h = 40 km (Ki,Ud).			
"	9	Um	iP	06 07 00.5	
		South of Java (h = N).			
"	9	Up	iPgl	09 30 49.5	
			iSgl	09 31 08.9	
			iRg	09 31 14.8	
		Sk	e	09 33 01	
			iSgl	09 33 24.6	
		Um	iSgl	09 33 00.6	
		Ud	iPgl	09 31 19.1	
			iSn	09 31 54.9	
		De	iSgl	09 32 23.7	
		Baltic Sea, 58.8°N, 19.4°E.			
		Origin time = 09 30 25.			
		Explosion?			
"	9	Ki	iP	09 44 50.1	
		Sk	iP	09 44 31.2	
		Um	iP	09 44 52.2	
		Mona Passage (h = 30 km).			
"	9	Um	iSgl	12 19 41.2	
		Western USSR-Finland.			
		Explosion.			
"	9	Up	iPKPl	13 40 50.7	
		Ud	iPKPl	13 40 52.2	
			i	13 40 57.9	
			i	13 41 05.6	
		De	iPKPl	13 41 02.0	
			i	13 41 15.8	
"	9	Up		micr	sec
			Mx E	1.2	20
			Mx N	1.9	21
			Mx Z	2.4	20
		Ki	iP	13 40 59.6	
			i	13 41 10.6	
				micr	sec
			P Z'	0.1	1.0
			Mx E	1.5	18
			Mx N	0.8	19
			Mx Z	1.2	16
		Sk	eP	13 41 19	
		Um	iP	13 41 04.5	
			i	13 41 12.3	
			iSKS	13 51 30	
			iS	13 52 14	
		(cont.)			

1974 May	9	(cont.)			
		Ud	iP	13 41 23.3	
			i	13 41 32.9	
		Molucca Passage (h = 20 km).			
		M = 5.6 (Up,Ki).			
"	9	Ki	iP	13 44 17.2	
		Sk	iP	13 44 36.2	
		Ud	iP	13 44 35.9	
"	9	Ki	i(P)	16 20 09.6	
"	9	Up	iPKP	16 27 00.7	
		Ki	iPKP	16 26 46.9	
		Sk	iPKP	16 27 00.3	
		Um	iPKP	16 26 55.6	
		Ud	iPKP	16 27 02.2	
		De	iPKP	16 27 12.1	
		Loyalty Islands (h = 35 km).			
"	9	Up	iP	17 07 37.0	
		Ki	iP	17 08 44.9	
		Sk	iP	17 08 23.3	
		Ud	iP	17 07 47.3	
			i	17 07 51.4	
		De	iP	17 07 19.7	
		Dodecanese Islands (h = N).			
"	9	Ud	iP	18 33 50.1	
"	9	Sk	i(P)	19 15 42.3	
"	10	Up	iSKS	00 21 32	
			iSP	00 24 27	
				micr	sec
			Mx E	3.8	18
			Mx N	2.9	20
			Mx Z	6.0	21
		Ki	iPKP	00 15 17.2	
			i	00 15 23.1	
				micr	sec
			Mx E	3.3	19
			Mx N	4.6	20
			Mx Z	3.8	18
		Um	iPKP	00 15 06.2	
			iSKS	00 21 46	
			iSP	00 25 14	
		Ud	iPP	00 15 19.4	
		Prince Edward Island (h = N).			
		M = 6.2 (Up,Ki).			
"	10	Ud	iP	01 51 55.1	
"	10	Up	iPKP	02 23 00.5	C
			iPKPl	02 23 05.1	D
		(cont.)			

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

1974						
May	10	(cont.)				
		Up	iPKP2		02 23 10.3	
					micr	sec
			PKP1	Z'	0.3	0.9
			PKP2	Z'	0.4	0.8
		Ki	iPKP1		02 22 41.4	
			i		02 22 50.2	
					micr	sec
			PKP1	Z'	0.1	1.0
		Sk	iPKP		02 22 57.2	C
			iPKP1		02 22 59.1	D
		Um	iPKP1		02 22 53.3	D
		Ud	iPKP		02 23 01.8	C
			iPKP1		02 23 07.0	D
			iPKP2		02 23 13.1	C
		De	iPKP		02 23 06.2	C
			iPKP1		02 23 14.9	D
			iPKP2		02 23 26.6	C

Kermadec Islands (h = 230 km).
The clear distribution of C and D (PKP C, PKP1 D, PKP2 C) suggests an interesting effect of source mechanism.

"	10	Up	iP		05 37 27.0	
			ipP		05 37 36.2	
					micr	sec
			Mx	E	0.7	15
			Mx	N	0.4	12
			Mx	Z	1.0	15
		Ki	iP		05 36 57.5	C
			ipP		05 37 06.6	
					micr	sec
			Mx	E	0.5	13
			Mx	N	0.7	17
			Mx	Z	0.5	13
		Sk	iP		05 37 26.5	
			ipP		05 37 36.8	
		Um	iP		05 37 09.2	C
			ipP		05 37 18.3	
		Ud	iP		05 37 35.2	
			ipP		05 37 45.6	

Ryukyu Islands.
h = 35 km (Up,Ki,Sk,Um,Ud).
M = 5.3 (Up,Ki).

"	10	Um	iP		06 30 56.1	
			ipP		06 31 20.2	
		Ud	iP		06 31 27.0	
		De	iP		06 31 42.3	

Japan.
h = 100 km (Um).

"	10	Um	iP		07 54 41.7	

South of Japan (h = 380 km).

1974						
May	10	Up	i(PP)		08 30 49.4	
			iPP		08 30 57.6	
			iSP		08 40 13	
					micr	sec
			PP	Z'	0.1	1.3
			Mx	E	0.8	17
			Mx	N	1.2	22
			Mx	Z	3.8	23
		Ki	iP		08 26 14.0	
			i(PP)		08 30 26.7	
			iPP		08 30 37.7	
					micr	sec
			P	Z'	0.1	1.3
			PP	Z'	0.1	1.3
			Mx	E	3.7	21
			Mx	N	3.4	22
			Mx	Z	3.4	19
		Sk	iP		08 26 09.1	
			i(PP)		08 30 23.1	
			iPP		08 30 27.2	
		Um	iP		08 26 22.5	
			i(PP)		08 30 33.3	
			ePP		08 30 56	
		Ud	i(PP)		08 30 32.8	
			iPP		08 30 42.3	

Eastern Pacific Ocean (h = N).
m = 6.4, M = 5.8 (Up,Ki).

"	10	Um	iSg1	12 18 29.5	

Western USSR-Finland.
Explosion.

"	10	Up	iP	13 53 52.1	
			iPP	13 55 14.0	
		Ki	iP	13 54 26.4	
			iPn	13 55 44.6	
			iPP	13 55 56.7	
		Ud	iP	13 54 08.5	
			i	13 54 13.7	
		De	eP	13 53 57	

Iran (h = 70 km).

"	10	Um	iP	18 08 58.5	
		Ud	iP	18 09 23.2	
		De	iP	18 09 45.7	

"	10	Up	iP1		19 35 49.7	
			iP2		19 35 51.0	
			iP3		19 35 53.1	
			iP4		19 36 00.8	
			iS		19 44 25	
					micr	sec
			P2	Z'	0.1	0.9
			P3	Z'	0.2	0.6
			P4	Z'	1.1	1.3

(cont.)

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

1974
May 10 (cont.)

Up			micr	sec
	Mx	E	15	18
	Mx	N	75	21
	Mx	Z	30	14
Ki	iP2		19 35 34.3	
	iP3		19 35 36.5	
	iP4		19 35 43.7	
	iS		19 43 57	
			micr	sec
	P3	Z'	0.4	0.9
	P4	Z'	0.5	1.0
	Mx	E	55	13
	Mx	N	180	21
	Mx	Z	40	12
Sk	iP2		19 36 00.8	
	iP3		19 36 03.4	
	iP4		19 36 10.5	
Um	iP2		19 35 38.2	
	iP3		19 35 40.5	
	iP4		19 35 47.7	
	iS		19 44 04	
Ud	iP1		19 36 02.1	
	iP2		19 36 03.1	
	iP3		19 36 05.4	
	iP4		19 36 14.0	
	iS		19 44 55.8	
De	iP2		19 36 10.4	
	iP3		19 36 13.4	
	iP4		19 36 20.4	

Szechwan, China (h = 10 km).
m = 6.6 (P3), 6.8 (P4),
M = 7.0 (Up,Ki).
Multiple onsets (in average P2-P1 = 1.2 sec, P3-P1 = 3.6 sec, P4-P1 = 11.1 sec); of May 8 at 23 45.

" 10 Up iP 19 44 48.2
Um iP 19 44 36.2
Szechwan, China.

" 10 Up eP 19 48 16
Um iP 19 48 06.6
Ud iP 19 48 29.9

" 11 Up eP 00 57 15
i 00 57 18.1
i(PP) 01 00 35.1
iSKS 01 07 50
iS 01 08 33

		micr	sec
P	Z'	0.1	1.1
Mx	E	4.7	22
Mx	N	3.8	23
Mx	Z	9.8	23

(cont.)

1974
May 11 (cont.)

Ki	iP	00 56 59.8	
	i	00 57 03.0	
	iSKS	01 07 34	
	iS	01 08 06	
		micr	sec
	P	Z' 0.1	1.2
	i	Z' 0.6	1.3
	Mx	E 10	25
	Mx	N 5.3	18
	Mx	Z 9.2	24
Sk	iP	00 57 20.4	
	i	00 57 23.5	
Um	iP	00 57 04.8	
	i	00 57 08.1	
	iSKS	01 07 40	
	iS	01 08 16	
Ud	iP	00 57 24.2	
	i	00 57 27.2	
	i(PP)	01 00 32.8	
De	eP	00 57 30	
	i(PP)	01 00 59.9	

Molucca Passage (h = N).
m = 6.6, M = 6.3 (Up,Ki).
Double P, in average 3.2 sec apart.
Clear cases of early PP, denoted (PP).

" 11 Up iPP 01 14 24.9
Ki iP 01 10 10.6
iPP 01 14 04.3

		micr	sec
P	Z'	0.1	1.4
Sk	iP	01 10 34.4	
	i(PP)	01 13 52.0	
	i	01 14 17.4	
Um	iP	01 10 15.4	
	iPP	01 14 01.5	
Ud	iP	01 10 34.6	
	i(PP)	01 13 48.3	
	i	01 14 16.4	

Molucca Passage (h = N).

" 11 Up iP 02 37 50.7
i 02 38 04.1
Ki iP 02 37 49.6
Um iP 02 37 47.7
i 02 38 01.6
Ud iP 02 37 59.9
Sunda Strait (h = 90 km).
Interpreting the second, clear phase at Up,Um as pP yields h = 50 km only.

" 11 Up iP 03 27 10.4
Ki iP 03 26 53.4
(cont.)

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

1974
May 11 (cont.)

Ud	iP	03 27 18.7	

Talaud Islands (h = N).

" 11

Up	eP	05 39 29	
Um	iP	05 39 17.1	
Ud	iP	05 39 40.9	

Szechwan, China (h = N).

" 11

Up	iP	06 27 12.0	
	i	06 27 29.7	
	iPP	06 30 48.2	
		micr	sec
	P	Z' 0.6	1.0
	PP	Z' 0.1	1.0
	Mx	E 2.3	20
	Mx	N 3.4	19
	Mx	Z 4.3	21
Ki	iP	06 26 43.0	
	i	06 26 59.9	
		micr	sec
	P	Z' 0.8	1.1
	Mx	E 6.1	21
	Mx	N 5.2	19
	Mx	Z 7.1	20
Sk	iP	06 27 09.1	
	iPP	06 30 40.3	
Um	iP	06 26 55.4	
	i	06 27 13.0	
	iS	06 37 36	
Ud	iP	06 27 17.8	
De	iP	06 27 30.1	
	i	06 27 46.8	
	iPP	06 31 17.8	

Mariana Islands (h = 6 km).
m = 6.8, M = 6.0 (Up,Ki).
After in average 17.2 sec, P is followed by another clear onset (Up,Ki,Um,De).

" 11

Up	eP	09 22 04
Ki	iP	09 21 47.0
Sk	eP	09 21 12
Um	iP	09 21 58.0
Ud	iP	09 21 37.1

Iceland (h = 15 km).

" 11

Up	iP	09 49 47.7
Ki	iP	09 49 34.9

Szechwan, China (h = N).

" 11

Ki	iPn	10 18 55.3
	iSn	10 19 49.8
Um	iSgl	10 21 39.0

Northwest USSR-Norway.
Explosion.

1974
May 11

Up	iP	10 42 53.8	
Ud	iP	10 43 06.5	

" 11

Up	ePKP	13 19 50	
		micr	sec
	Mx	E 1.0	21
	Mx	N 1.3	23
	Mx	Z 2.0	19
Ki	iPKP	13 20 07.4	
	i	13 20 11.8	
		micr	sec
	PKP	Z' 0.2	1.6
	Mx	E 1.5	18
	Mx	N 1.8	20
	Mx	Z 1.9	18
Sk	ePKP	13 19 53	
Um	ePKP	13 20 03	

South Atlantic Ocean (h = N).
M = 5.8 (Up,Ki).

" 11

Up	iP	14 41 48.6
Um	eP	14 41 28

South of Japan (h = 10 km).

" 11

Ki	iP	15 52 49.1

Molucca Passage (h = N).

" 11

Up	iP	18 16 44.8
Ki	iP	18 16 30.3
Um	iP	18 16 33.5
Ud	iP	18 16 58.4

Szechwan, China.

" 11

Up		micr	sec
	Mx	N 0.7	20
	Mx	Z 0.9	22
Ud	iPKP	18 24 49.8	

New Hebrides Islands (h = 5 km).

" 11

Up	iP	19 21 18.2
Ki	iP	19 20 24.2
Sk	iP	19 20 51.6
Um	iP	19 20 52.3 C
Ud	iP	19 21 15.6 C
De	iP	19 21 38.7

Kodiak Island (h = 25 km).

" 11

Up	iP	21 06 47.9	
		micr	sec
	Mx	E 1.0	21
	Mx	N 1.9	26
	Mx	Z 2.7	24
Ki	iP	21 06 31.8	
	iSKS	21 17 03	

(cont.)

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

1974 May 11	(cont.)					
	Ki			micr	sec	
		P	Z'	0.1	1.0	
		Mx	E	2.0	21	
		Mx	N	1.8	20	
		Mx	Z	2.1	21	
	Sk	iP		21 06 52.5		
	Um	iP		21 06 37.2		
		iSKS		21 17 08		
		iS		21 17 44		
	Ud	iP		21 06 56.2		
	Molucca Passage (h = N).					
	M = 5.6 (Up,Ki).					
" 11	Up	iP		23 55 38.7		
	Ki	eP		23 55 46		
	Um	iP		23 55 36.4		
	Ud	iP		23 55 53.9		
	Pakistan (h = 40 km).					
" 12	Up	iP		00 25 57.7		
		iS		00 30 02.6		
	Ki	iP		00 27 04.5		
	Sk	eP		00 26 37		
	Um	iP		00 26 33.6		
	Ud	iP		00 26 06.3		
		isS		00 31 16.8		
	De	iP		00 25 35.2		
		iS		00 29 24.5		
	Dodecanese Islands (h = 160 km).					
" 12	Up	iP		02 18 48.3		
	Sk	iP		02 19 11.4		
	Um	iP		02 18 57.0		
	Ud	iP		02 18 58.8		
	Indian Ocean (h = N).					
" 12	Up	iP		03 01 01.1		
	Ki	iP		03 00 43.9		
	Sk	iP		03 01 10.4		
	Um	iP		03 00 49.1		
	Ud	iP		03 01 11.9		
	Szechwan, China (h = N).					
" 12	Um	iP		04 23 40.1		
	Japan (h = 45 km).					
" 12	Up	i		10 24 08.1		
		iPP		10 24 11.1		
				micr	sec	
		PP	Z'	0.1	1.5	
	Ki	ePP		10 24 46		
	Sk	iP		10 19 51.5		
	Um	iPP		10 24 26.6		
		iSKS		10 30 29		
	(cont.)					

1974 May 12	(cont.)					
	Ud	iP		10 19 45.8		
		e		10 23 55		
		iPP		10 23 58.5		
	De	iPP		10 23 49.5		
	Chile (h = 110 km).					
" 12	Um	iSgl		11 33 22.6		
	Esthonia.					
	Explosion.					
" 12	Up	iPKP		12 06 36.1		
	Ki	iPKP		12 06 51.7		
				micr	sec	
		Mx	E	0.7	20	
		Mx	N	0.9	23	
		Mx	Z	1.4	24	
	South Sandwich Islands					
	(h = N).					
" 12	Up	eP		12 10 29		
	Ki	eP		12 10 09		
	Sk	eP		12 10 36		
	Um	iP		12 10 14.6		
	Ud	iP		12 10 31.7		
	Molucca Passage (h = N).					
" 12	Ki	eP		12 14 01		
	Um	eP		12 14 06		
	Ud	eP		12 14 25		
	Molucca Passage (h = N).					
" 12	Up	iSgl		12 27 32.0		
	Ki	eSgl		12 29 35		
	Um	iSgl		12 27 49.6		
	Ud	iSgl		12 28 33.1		
	De	eSgl		12 28 56		
	Western USSR.					
	Explosion.					
" 12	Ki	iP		12 45 31.0		
	Molucca Passage (h = N).					
" 12	Ud	iP		12 46 48.2		
	Kurile Islands.					
" 12	Up	iP		16 31 41.5		
	Ki	iP		16 31 24.7		
	Um	iP		16 31 28.6		
	Ud	iP		16 31 53.7		
	Szechwan, China (h = N).					
" 12	Up	iP		19 22 19.0		
	Um	iP		19 21 55.0		
	Ud	iP		19 22 26.0		
	Japan (h = 140 km).					

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

1974						
May	12	Ki	iP		20 12 25.6	
		Ud	iP		20 12 49.7	
		Molucca Passage (h = N).				
"	12	Ki	eP		20 17 01	
		Ud	eP		20 17 20	
		Molucca Passage (h = N).				
"	12	Up	eP		20 30 54	
		Ki	iP		20 30 36.6	
		Um	iP		20 30 40.6	
		Ud	iP		20 30 59.3	
		Molucca Passage (h = N).				
"	12	Up	iP		22 12 10.6	
		Ki	iP		22 12 12.4	
		Um	iP		22 12 05.1	
		Ud	iP		22 12 27.4	
		De	iP		22 12 26.9	
		Sinkiang, China (h = 180 km).				
"	13	Ud	iP		01 37 59.1	
"	13	Ki	iP		01 51 55.5	
		Kurile Islands (h = 180 km).				
"	13	Up	iP		02 23 24.1	
			ipP		02 25 34.0	
					micr	sec
			P	Z'	0.1	1.0
		Ki	iP		02 23 07.2	
			ipP		02 25 16.6	
					micr	sec
			P	Z'	0.2	1.1
		Sk	iP		02 23 28.9	
		Um	iP		02 23 12.8	
			ipP		02 25 22.0	
			iS		02 33 02	
		Ud	iP		02 23 32.6	
			ipP		02 25 42.7	
		De	iP		02 23 39.8	
		Leyte.				
		h = 600 km (Up,Ki,Um,Ud).				
		m = 5.7 (Up,Ki).				
"	13	Up	iP		05 21 24.5	
			ipP		05 21 38.2	
		Ki	iP		05 20 29.6	
			ipP		05 20 42.1	
		Sk	iP		05 20 58.2	
			ipP		05 21 12.2	
		Um	iP		05 20 57.2	
			ipP		05 21 10.5	
		Ud	iP		05 21 21.9	
		Alaska.				
		h = 50 km (Up,Ki,Sk,Um).				

1974						
May	13	Ud	iP		07 37 44.7	
		Hindu Kush.				
		Intermediate depth.				
"	13	Um	iPKP		12 11 36.8	
		Ud	iPKP		12 11 48.3	
		De	iPKP		12 11 55.5	
		Solomon Islands (h = N).				
"	13	Up	iSgl		12 13 07.4	
		Ki	eSgl		12 15 02	
		Sk	eSgl		12 14 51	
		Um	iSgl		12 13 24.6	
		Ud	iSgl		12 14 08.2	
		De	iSgl		12 14 34.2	
		Western USSR.				
		Explosion.				
"	13	Ud	iPKPl		12 54 12.0	
		De	iPKPl		12 54 21.2	C
		Fiji Islands (h = 600 km).				
"	13	Up	iP		17 47 52.5	C
			i		17 48 07.8	
			ipP		17 48 35.8	
			isP		17 48 56.6	
					micr	sec
			P	Z'	0.7	1.1
		Ki	iP		17 48 01.2	C
			ipP		17 48 45.5	
					micr	sec
			P	Z'	0.6	1.2
		Sk	iP		17 48 17.8	C
		Um	iP		17 47 50.6	C
			ipP		17 48 33.7	
		Ud	iP		17 48 09.1	C
			ipP		17 48 52.8	
			isP		17 49 13.0	
		De	iP		17 48 05.1	C
			ipP		17 48 48.9	
			isP		17 49 08.7	
		Hindu Kush.				
		h = 210 km (Up,Ki,Um,Ud,De).				
		m = 6.0 (Up,Ki).				
"	13	Up	iP		19 07 44.9	
			i(PP)		19 11 06.5	
			iPP		19 11 26.9	
			iSKS		19 18 14	
					micr	sec
			Mx	E	0.9	19
			Mx	N	1.7	19
			Mx	Z	1.8	15
		Ki	iP		19 07 43.1	
			ipP		19 07 53.6	
		(cont.)				

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

1974 May	13	(cont.)				
		Ki	iSKS		19 18 14	
			iS		19 18 50	
					micr	sec
			P	Z'	0.2	1.8
			Mx	E	2.9	15
			Mx	Z	2.0	13
		Sk	eP		19 07 58	
		Um	iP		19 07 41.6	
			ipP		19 07 51.0	
			iPP		19 11 24.8	
			iS		19 18 43	
		Ud	iP		19 07 54.1	
			ipP		19 08 03.3	
			iPP		19 11 49.9	
		De	iP		19 07 51.7	
			iPP		19 11 47.4	
		Sumatra.				
		h = 35 km (Ki,Um,Ud).				
		M = 5.8 (Up,Ki).				
"	13	Ki	iP		19 43 53.4	
			ipP		19 44 01.2	
					micr	sec
			pP	Z'	0.1	1.3
		Um	iP		19 43 50.5	
			ipP		19 43 58.9	
		Ud	eP		19 44 02	
			ipP		19 44 10.8	
		Sumatra.				
		h = 30 km (Ki,Um,Ud).				
"	13	Up	eP		20 16 01	
		Ki	iP		20 15 42.0	
		Um	iP		20 15 47.2	
		Ud	iP		20 16 06.3	
		Molucca Passage (h = N).				
"	13	Ki	eP		20 20 43	
		Um	iP		20 20 46.8	
		Molucca Passage (h = N).				
"	13	Up	iP		21 29 34.0	
		Ki	iP		21 29 43.6	
		Um	iP		21 29 32.5	
		Ud	iP		21 29 50.3	
		Hindu Kush (h = 230 km).				
"	14	Sk	iPKP		06 28 28.3	
		Um	iPKP		06 28 23.0	
		Solomon Islands (h = N).				
"	14	Up	iP		08 20 18.6 D	
		Ki	iP		08 19 29.1 D	
		Um	iP		08 19 52.3 D	
		Ud	iP		08 20 24.0 D	
		De	iP		08 20 43.4	
		Okhotsk Sea (h = 520 km).				

1974 May	14	Up	iSgl		08 36 47.4
		Ki	iSgl		08 40 50.8
		Sk	e		08 37 28
			iSgl		08 39 09.6
		Um	iPgl		08 36 51.1
			i		08 37 05.0
			iSgl		08 38 35.2
		Ud	ePgl		08 36 11
			iS*		08 37 24.4
			iSgl		08 37 31.4
		De	eSgl		08 36 32
		Near coast of Lithuania, near 56°N, 20°E.			
		Origin time = 08 34 33.			
		Explosion?			
"	14	Up	iP		08 50 01.5
		Japan (h = 330 km).			
"	14	Up	iPKPl		11 40 54.6
		Ud	iPKPl		11 40 56.0
"	14	Um	iSgl		12 05 07.5
		Esthonia.			
		Explosion.			
"	14	Um	iP		12 11 45.0
		Japan (h = 60 km).			
"	14	Up	iSgl		12 12 40.1
		Ki	iSgl		12 14 40.2
		Um	iSgl		12 12 54.4
		Ud	iSgl		12 13 37.4
		De	iSgl		12 14 00.4
		Western USSR.			
		Explosion.			
"	14	Ki	iP		13 20 26.8
		Um	iP		13 20 32.5
		Ud	iP		13 20 51.5
		Molucca Passage (h = 40 km).			
"	14	Sk	iSgl		14 01 01.7
		Um	iSgl		14 00 26.4
"	14	Up	iP		14 18 21.3
		Ki	iP		14 17 27.1
		Sk	iP		14 17 57.8
			iPcP		14 18 36.5
		Um	iP		14 17 54.9 C
			iPcP		14 18 34.9
		Ud	iP		14 18 19.9 C
		De	iP		14 18 43.2
		Unimak Island (h = 25 km).			
"	14	Um	i(Sgl)		16 15 09.4

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

1974 May	14	Um	iP	20 38 19.5	
			i	20 38 33.0	
		Japan (h = 30 km).			
"	15	Up	iP	00 20 48.2	C
		Ki	iP	00 20 50.3	C
				micr sec	
			P Z'	0.1 0.6	
		Sk	iP	00 21 11.4	C
		Um	iP	00 20 43.6	C
		Ud	iP	00 21 04.3	C
		De	eP	00 21 03	
		Kashmir-Sinkiang (h = 60 km).			
"	15	Um	iP	00 47 56.8	
		Japan (h = 330 km).			
"	15	Up	iP	04 01 28.4	D
		Sk	iP	04 01 45.5	D
			i	04 01 52.6	
		Um	iP	04 01 21.4	D
		Ud	iP	04 01 42.2	D
		India (h = 30 km).			
"	15	Um	i	04 09 45.5	
		Ud	i(SKP)	04 10 13.1	
"	15	Ki	iP	04 47 12.2	
		Sk	iP	04 46 40.8	
		Ud	iP	04 46 38.2	
		North Atlantic Ocean (h = N).			
"	15	Ud	iP	05 45 10.7	
		North Atlantic Ocean (h = N).			
"	15	Ki	iP	07 32 20.7	
		Ud	iP	07 31 47.7	
		North Atlantic Ocean (h = N).			
"	15	Ud	iP	07 34 08.7	
		North Atlantic Ocean (h = N).			
"	15	Ki	iP	07 39 49.0	
			ipP	07 39 55.5	
		Ud	iP	07 39 15.7	
			ipP	07 39 21.9	
		North Atlantic Ocean.			
		h = 25 km (Ki,Ud).			
"	15	Ki	iP	08 04 37.7	
			ipP	08 04 43.8	
		Ud	iP	08 04 04.1	
			ipP	08 04 09.8	
		North Atlantic Ocean.			
		h = 20 km (Ki,Ud).			

1974 May	15	Ki	iP	09 04 27.0	
		Ud	iP	09 03 52.5	
		North Atlantic Ocean (h = N).			
"	15	Ki	iSn	09 17 23.2	
			iSgl	09 17 37.8	
		Northwest USSR-Norway.			
		Explosion.			
"	15	Ki	iP	10 29 40.3	
		Ud	iP	10 29 05.7	
		North Atlantic Ocean (h = N).			
"	15	Ud	iP	10 42 18.9	
		North Atlantic Ocean (h = N).			
"	15	Ki	iP	10 43 30.9	
		Sk	eP	10 43 00	
		Um	iP	10 43 20.1	
		Ud	iP	10 42 57.1	
		De	iP	10 42 51.7	
		North Atlantic Ocean (h = N).			
"	15	Ud	iP	10 56 45.0	
"	15	Ki	iP	11 17 40.8	
		Sk	iP	11 17 09.2	
		Ud	iP	11 17 06.8	
		North Atlantic Ocean (h = N).			
"	15	Up	iSgl	11 23 09.1	
		Ki	eSgl	11 25 45	
		Sk	eSgl	11 25 03	
		Um	iSgl	11 23 44.9	
		Ud	iSgl	11 24 13.4	
		De	eSgl	11 24 45	
		Esthonia.			
		Explosion.			
"	15	Up	iPKPl	11 32 21.2	
		Ud	iPKPl	11 32 23.5	
"	15	Ud	iP	12 43 18.7	
"	15	Up	iP	13 14 59.3	C
				micr sec	
			P Z'	0.1 1.0	
		Ki	iP	13 14 06.1	C
				micr sec	
			P Z'	0.2 0.9	
		Sk	iP	13 14 36.3	C
		Um	iP	13 14 32.9	C
		Ud	iP	13 14 58.5	C
		De	iP	13 15 21.0	C
			ipP	13 15 32.9	

(cont.)

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

1974					
May	15	(cont.)			
		Aleutian Islands.			
		h = 45 km (De).			
		m = 6.1 (Up,Ki).			
"	15	Ki	iP	13 46 43.8	
		Sk	eP	13 46 12	
		Ud	iP	13 46 09.1	
		North Atlantic Ocean (h = N).			
"	15	Ki	iP	13 53 43.9	
		Sk	iP	13 53 14.0	
		Ud	iP	13 53 10.7	
		North Atlantic Ocean (h = N).			
"	15	Ki	iP	14 08 48.4	
		Sk	eP	14 08 17	
		Ud	iP	14 08 15.8	
		De	eP	14 08 09	
		North Atlantic Ocean (h = N).			
		In general, P Z' exhibit			
		relatively long periods in			
		this sequence of North			
		Atlantic earthquakes.			
"	15	Ki	iP	15 01 38.0	
		Ud	iP	15 01 03.9	
		North Atlantic Ocean (h = N).			
"	15	De	i	15 52 10.5	
			i	15 52 15.7	
			iSgl	15 52 36.6	
"	15	Ki	iP	17 00 29.8	
		Ud	eP	16 59 57.6	
"	15	De	i	17 13 04.0	
			i	17 13 08.7	
			iSgl	17 13 31.4	
"	15	Ki	iP	17 23 13.2	
		Sk	iP	17 22 42.2	
		Ud	iP	17 22 39.6	
		North Atlantic Ocean.			
"	15	De	i	17 56 34.0	
			iSgl	17 56 59.4	
"	15	Up	iPKP	18 58 55.2	
			ipPKP	18 59 27.7	
		Ki	iPKP	18 59 10.5	
			ipPKP	18 59 42.6	
			iSKP1	19 02 35.3	
				micr sec	
			PKP Z'	0.1 1.0	
		(cont.)			

1974					
May	15	(cont.)			
		Sk	ePKP	18 59 00	
		Um	iPKP	18 59 04.0	
			ipPKP	18 59 35.6	
		Ud	iPKP	18 58 53.6	
			ipPKP	18 59 25.8	
		South Sandwich Islands.			
		h = 120 km (Up,Ki,Um,Ud).			
"	15	Up	iP	19 10 32.5 C	
			iS	19 19 09	
				micr sec	
			P Z'	0.2 1.0	
			Mx E	21 20	
			Mx N	55 21	
			Mx Z	84 21	
		Ki	iP	19 09 41.0 C	
			iS	19 17 35	
				micr sec	
			P Z'	0.6 1.0	
			Mx E	32 19	
			Mx N	36 23	
			Mx Z	22 22	
		Sk	iP	19 10 18.1 C	
		Um	iP	19 10 05.8 C	
			iS	19 18 21	
			i(P'P')	19 39 15.3	
		Ud	iP	19 10 37.0 C	
		De	iP	19 10 57.6 C	
			i(P'P')	19 38 58.9	
		Kurile Islands (h = 55 km).			
		m = 6.3, M = 6.7 (Up,Ki).			
"	15	Up	iP	19 38 46.5	
		Ki	iP	19 39 07.0	
		Sk	iP	19 38 35.8	
		Um	iP	19 38 58.8	
			i	19 39 06.8	
		Ud	iP	19 38 31.9	
		De	iP	19 38 31.7	
		North Atlantic Ocean (h = N).			
"	15	Ki	iP	22 31 12.2	
			ipP	22 31 19.0	
		Sk	iP	22 30 40.8	
		Ud	iP	22 30 38.0	
		North Atlantic Ocean.			
		h = 25 km (Ki).			
"	16	Up	iPKP1	01 27 33.6	
		Sk	ePKP1	01 27 28	
		Um	iPKP1	01 27 23.3	
			i	01 27 43.5	
		Ud	iPKP1	01 27 35.4	
"	16	Up	iP	03 09 53.0 C	
		(cont.)			

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

1974
May 16 (cont.)

Up	iPn		03 11 00.5	
	iPP		03 11 11.7	
			micr	sec
	P	Z'	0.1	0.9
Ki	iP		03 09 37.5	C
	iPn		03 10 36.9	
			micr	sec
	P	Z'	0.2	0.5
Sk	iP		03 10 09.1	C
	iPP		03 11 31.6	
Um	iP		03 09 37.9	C
	i		03 10 27.4	
	iPn		03 10 39.3	
Ud	iP		03 10 09.3	C
	iPn		03 11 22.3	
De	iP		03 10 16.2	C
	iPP		03 11 41.6	

Kazakh SSR.
Underground explosion.
m = 6.0 (Up,Ki).

" 16

Ki	iP	05 22 42.3
Sk	eP	05 23 14
Um	eP	05 23 05
Ud	iP	05 23 35.3
De	iP	05 23 58.3

Aleutian Islands (h = N).

" 16

Ki	iP	08 11 33.5
Sk	iP	08 11 52.1
Um	iP	08 11 24.3
Ud	iP	08 11 44.0
De	iP	08 11 41.0

Pamir.
Intermediate depth.

" 16

Um	iP	09 05 46.3
Ud	i(P)	09 04 59.8

" 16

Um	i(Sgl)	09 52 20.2

" 16

Up	iPKPl	10 32 51.9
Ud	iPKPl	10 32 53.6

" 16

Ud	iPgl	13 07 30.7
	iSgl	13 07 58.3
	iRg	13 08 10.6
De	iSgl	13 08 03.0

Bohuslän, Sweden,
58.3°N, 11.9°E.
Origin time = 13 06 55.

" 16

Sk	iP	13 15 00.4
Ud	iP	13 15 21.4

State of Washington
(h = 55 km).

1974
May 16

Up	iSgl	13 20 48.5
Sk	eSgl	13 22 44
Um	iSgl	13 21 08.1
Ud	eSgl	13 21 52

Western USSR.
Explosion.

" 16

Up	eP		15 12 47	
			micr	sec
	Mx	E	0.5	13
	Mx	N	0.5	13
	Mx	Z	0.5	13
Ki			micr	sec
	Mx	E	0.4	10
	Mx	N	0.2	8
Sk	eP		15 13 24	
Ud	iP		15 12 52.0	
De	iP		15 12 20.0	

Dodecanese Islands (h = N).
M = 4.5 (Up,Ki).

" 16

Up	iP	16 15 16.2
Ki	iP	16 15 24.4
Sk	iP	16 15 42.1
Um	iP	16 15 14.6
Ud	iP	16 15 32.8
De	iP	16 15 29.8

Afghanistan-USSR (h = 240 km).

" 16

Ki	iP	17 25 25.7
Ud	iP	17 24 52.0

North Atlantic Ocean.
Origin time = 17 15 53.

" 16

Ud	iP	17 30 44.3

" 16

Up	iPgl	18 19 42.3
	iSgl	18 19 59.7
	i	18 20 02.2
	iRg	18 20 06.9
Um	iSgl	18 20 44.2
Ud	iSgl	18 20 17.3

Hälsingland, Sweden,
61.2°N, 17.0°E.
Origin time = 18 19 17.
Explosion?

" 16

Up	eSgl	18 56 35
Ki	eSgl	18 54 31
Sk	eS*	18 54 34
	iSgl	18 54 39.2
Um	iSn	18 54 44.3
	iSgl	18 54 58.0
Ud	iSgl	18 56 24.1

Nordland, Norway,
66.5°N, 14.3°E.
Origin time = 18 53 03.
Explosion.

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

1974
May 16 Up iP 20 11 27.6 D
iPP 20 14 41.0
iS 20 20 55

		micr	sec
P	Z'	0.4	0.9
PP	Z'	0.5	1.5
Mx	E	0.5	16
Mx	N	0.8	17
Mx	Z	0.7	20

Ki iP 20 10 56.6 D
iS 20 19 57

		micr	sec
P	Z'	0.4	1.0
Mx	E	0.7	16
Mx	N	0.7	16

Sk iP 20 11 24.7 D
iPP 20 14 36.7
Um iP 20 11 10.0 D
iPP 20 14 13.4
iS 20 20 21.2
Ud iP 20 11 34.3 D
iPP 20 14 52.4
De iP 20 11 46.2 D
ipP 20 13 42.6
iPP 20 15 13.1
Bonin Islands.
h = 530 km (De).
m = 5.9, M = 5.3 (Up,Ki).
M uncorrected for focal depth.

" 16 Um iP 20 25 07.9

" 16 Sk iP 20 30 00.1
Ud iP 20 29 55.2

" 16 Ki iP 21 33 21.1
Ud iP 21 32 47.1
North Atlantic Ocean (h = N).

" 16 Ud iP 22 17 34.4

" 16 Up iP 22 25 06.4
Um iP 22 25 04.3
Ud iP 22 25 22.6
Hindu Kush.
Intermediate depth.

" 16 Up eP 23 20 23
i 23 20 41.1

		micr	sec
Mx	E	1.1	19
Mx	N	1.1	20
Mx	Z	2.7	20

Ki eP 23 20 26
(cont.)

1974
May 16 (cont.)
Ki

		micr	sec
Mx	E	3.3	18
Mx	N	2.4	17

Sk eP 23 20 17
Um iP 23 20 28.3
i 23 20 41.3
iS 23 30 56
Ud eP 23 20 17
i 23 20 31.3
Nicaragua (h = 35 km).
M = 5.7 (Up,Ki).

" 17 Up iP 02 35 41.6
Ud iP 02 35 48.6

" 17 Um iP 03 45 48.4
Ud iP 03 46 14.0

" 17 Up epPKP 04 10 40
Ki ipPKP 04 10 26.5
Sk ipPKP 04 10 39.7
Um ePKP 04 10 17
ipPKP 04 10 32.7
Solomon Islands.
h = 55 km (Um).

" 17 Up iP 10 29 41.5
Kurile Islands.

" 17 Up eSgl 12 23 01
Ki ePgl 12 18 58
iSn 12 19 45.3
iS* 12 20 04.1
Sk iSgl 12 22 33.7
Um iSn 12 20 23.9
iSgl 12 21 00.8
Ud iSgl 12 23 30.1
Northwest USSR.
Explosion.

" 17 Ki iSn 12 21 49.9
Sk eSgl 12 24 40
Um eSgl 12 23 05
Northwest USSR.
Explosion.

" 17 Up iP 13 52 37.7 C
ipP 13 53 23.8

		micr	sec
P	Z'	0.4	0.9

Ki iP 13 52 46.3 C
ipP 13 53 30.9

		micr	sec
P	Z'	0.3	0.6

(cont.)

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

1974
May 17 (cont.)

Sk	iP		13 53 03.4	C
Um	iP		13 52 35.9	C
	ipP		13 53 20.1	
Ud	iP		13 52 53.9	C
	ipP		13 53 39.4	
De	iP		13 52 50.5	C
	ipP		13 53 34.8	

Hindu Kush.
h = 220 km (Up,Ki,Um,Ud,De).
m = 5.9 (Up,Ki).

" 17

			micr	sec
Up	iP		14 31 45.5	
	P	Z'	0.1	1.1
	Mx	E	0.6	12
	Mx	N	0.7	14
	Mx	Z	0.6	14
Ki	iP		14 31 26.1	
	iS		14 34 47	
	P	Z'	0.2	1.5
	Mx	E	1.5	16
	Mx	N	1.3	13
	Mx	Z	1.0	17
Sk	iP		14 30 58.3	
	i		14 31 03.8	
Um	iP		14 31 37.4	
Ud	iP		14 31 24.1	
	i		14 31 27.2	
De	iP		14 31 49.5	

Iceland (h = N).
m = 5.0, M = 4.4 (Up,Ki).

" 17 √

			micr	sec
Up	iP		15 35 46.4	
	ipP		15 36 14.5	
	isP		15 36 28.4	
	iSKS		15 46 12	
	iS		15 47 14	
	pP	Z'	0.1	1.2
	Mx	E	0.9	22
	Mx	N	0.8	22
	Mx	Z	0.9	22
Ki	iP		15 35 51.3	
	ipP		15 36 20.9	
	iSKS		15 46 21	
	pP	Z'	0.1	1.0
	Mx	E	2.5	23
	Mx	N	0.9	13
	Mx	Z	1.4	15
Sk	iP		15 35 36.8	
	ipP		15 36 05.3	
Um	iP		15 35 53.0	

(cont.)

1974
May 17 (cont.)

Um	ipP		15 36 20.7
	iSKS		15 46 20
	iS		15 47 26
Ud	iP		15 35 36.9
	ipP		15 36 06.1
	isP		15 36 19.5
De	iP		15 35 36.1
	ipP		15 36 04.3

Peru.
h = 110 km (Up,Ki,Sk,Um,Ud, De).
M = 5.6 (Up,Ki).
M uncorrected for focal depth.
pP and sP are considerably larger than P.

" 17

			micr	sec	
Up	iP		17 23 42.8		D
	P	Z'	0.2	0.9	
	Mx	E	4.8	17	
	Mx	N	8.3	18	
	Mx	Z	17	14	
Ki	iP		17 23 16.1		D
	P	Z'	0.1	0.9	
	Mx	E	8.3	14	
	Mx	N	7.2	13	
	Mx	Z	6.6	14	
Sk	iP		17 23 45.2		D
Um	iP		17 23 26.2		D
Ud	iP		17 23 52.0		D
De	iP		17 24 01.7		D

Ryukyu Islands (h = 20 km).
m = 6.1, M = 6.3 (Up,Ki).

" 17

Up	iP		19 53 19.3
	i		19 53 22.9
Ki	eP		19 54 00
	i		19 54 07.3
	iPP		19 55 44.0
Sk	eP		19 53 59
Um	iP		19 53 34.0
	i		19 53 39.4
Ud	iP		19 53 35.6
	i		19 53 39.0
De	iP		19 53 20.6
	i		19 53 24.7

Iran (h = N).
Double P phases, suggesting a double event with a slight shift in epicenter.

" 17

Up	iSgl		20 30 32.4
	iRg		20 30 36.0

(cont.)

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

1974
May 17 (cont.)

	Um	iPgl	20 31 05.6
		iSgl	20 31 59.5
	Ud	iRg	20 30 21.2
	De	eSgl	20 31 56

Dalarna, Sweden,
60.4°N, 15.3°E.
Origin time = 20 29 55.
Near-surface event.

" 17	Up	iP	20 37 29.1
	Ki	iP	20 36 57.5
	Um	iP	20 37 11.3
	Ud	iP	20 37 36.0

Bonin Islands (h = 510 km).

" 17	Up	iP		21 08 19.7	C
		ipP		21 08 54.9	
		iSKS		21 18 39	
		iS		21 19 19	
		iSP		21 20 37	
				micr	sec
		P	Z'	0.4	1.1
		Mx	E	0.8	17
		Mx	N	1.3	18
		Mx	Z	1.7	21
	Ki	iP		21 08 16.9	C
		ipP		21 08 53.5	
		iSKS		21 18 31.1	
		i		21 18 50.6	
		iSP		21 20 42.7	
				micr	sec
		P	Z'	0.7	1.0
		Mx	E	1.6	17
		Mx	N	2.6	17
		Mx	Z	1.4	15
	Sk	iP		21 08 32.8	C
		ipP		21 09 07.9	
		i		21 20 53.1	
		iSP		21 21 08.4	
	Um	iP		21 08 16.1	C
		ipP		21 08 51.6	
		iSKS		21 18 34	
		iS		21 19 10	
	Ud	iP		21 08 28.9	C
		ipP		21 09 04.1	
		i		21 18 27.8	
	De	iP		21 08 28.3	C
		ipP		21 09 03.0	
		i		21 18 26.4	
		iSP		21 20 55.7	

Java.
h = 140 km (Up,Ki,Sk,Um,Ud, De).
m = 6.7, M = 5.7 (Up,Ki).
M uncorrected for focal depth.

1974
May 17

	Um	iP	21 31 56.6
		i	21 32 06.6

South of Bali Island (h = N).

" 17	Sk	iP	21 38 15.5
	Um	iP	21 38 27.8
	De	iP	21 38 35.4
" 17	Up	iP	21 38 29.8
	Ud	iP	21 38 46.0
	De	iP	21 38 28.3

Separation between this event and the preceding one questionable, especially for Up and De.

" 17	Ud	iP	21 51 17.2
" 17	Up	e(PKP)	23 25 07
		iPKP1	23 25 21.1
		ipPKP1	23 27 23.9
			micr sec
		PKP1 Z'	0.4 1.0
	Ki	ePKP	23 25 10
		iSKP1	23 27 55.4
			micr sec
		SKP1 Z'	0.1 1.0
	Sk	iPKP	23 25 17.7
	Um	e(PKP)	23 25 08
		iPKP	23 25 15.2
		iSKP1	23 28 06.7
	Ud	iPKP1	23 25 21.3 C
	De	iPKP1	23 25 32.9 C
		iPKP2	23 25 37.5
		ipPKP1	23 27 35.0

Tonga-Kermadec Islands.
h = 540 km (Up,De).

" 17	Up	iPKP1	23 37 27.3
	Ud	iPKP1	23 37 29.8
	De	iPKP1	23 37 39.7
" 18	Up	iP	02 43 46.2 C
	Ki	iP	02 44 00.6
	Sk	iP	02 44 12.9
	Um	iP	02 43 48.3 C
	Ud	iP	02 44 01.6 C
	De	iP	02 43 54.7

India.
Underground explosion.

" 18	Ki	iPgl	10 51 05.3
		iSn	10 51 39.2
		iSgl	10 51 54.9

Northwest USSR-Norway.
Explosion.

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

1974 May	18	Ki	iSn	11 56 44.2		
			iSgl	11 57 01.6		
		Northwest USSR-Norway.				
		Explosion.				
"	18	Up	iPKPl	12 17 38.4		
		Ki	ePKP	12 17 21		
		Sk	iPKPl	12 17 32.3	C	
		Um	iPKPl	12 17 28.2	C	
		Ud	iPKP	12 17 34.3		
			iPKPl	12 17 40.3	C	
		De	iPKP	12 17 41.1		
			iPKPl	12 17 48.4	C	
		Kermadec Islands (h = 45 km).				
"	18	Ki	iSgl	12 23 11.3		
		Northwest USSR.				
		Explosion.				
"	18	Ud	iPKPl	14 17 17.7		
"	18	Up	eP	18 57 07		
			i	18 57 16.1		
		Ud	iP	18 57 17.7		
			i	18 57 25.2		
"	18	Um	iP	19 44 45.7		
		Ud	eP	19 45 14		
"	18	Ud	eP	20 05 33		
"	18	Up	i(P)	20 06 23.7		
		Ud	iP	20 06 38.5		
		Pamir.				
"	18	Up	iP	20 40 15.7		
		Um	iP	20 39 55.5		
		Ud	iP	20 40 23.0		
"	18	Ud	iP	23 00 11.8		
"	18	Up	eP	23 44 11		
			iS	23 47 41		
				micr	sec	
			Mx	E	0.5	14
			Mx	N	0.7	15
		Ki	iP	23 43 50.8		
				micr	sec	
			Mx	E	0.5	12
			Mx	N	0.7	13
			Mx	Z	0.5	12
		Sk	iP	23 43 23.0		
			i	23 43 25.6		
		Um	iP	23 44 02.5		
			i	23 44 04.7		
		(cont.)				

1974 May	18	(cont.)				
		Ud	iP	23 43 50.4		
		De	iP	23 44 13.8		
		Iceland.				
		M = 4.3 (Up,Ki).				
"	19	Um	iPKPl	03 15 07.0		
"	19	Ud	iP	03 34 50.6		
"	19	Up	iS*	04 37 31.1		
			iSgl	04 37 38.9		
		Ki	iPn	04 33 22.0		
			iSn	04 34 20.1		
			iSgl	04 34 41.5		
		Sk	iSgl	04 37 07.6		
		Um	iSn	04 35 00.9		
			i	04 35 14.8		
			iSgl	04 35 34.1		
		Ud	iPn	04 34 50.3		
			eSn	04 36 56		
			iSgl	04 38 05.4		
		De	eSgl	04 39 45		
		Northwest USSR.				
		Explosion.				
"	19	Ki	iSn	06 32 24.1		
		Um	iSgl	06 33 40.7		
		Northwest USSR.				
		Explosion.				
"	19	Ud	iP	08 27 04.2		
"	19	Up	iPn	15 58 33.1		
			i	15 58 39.8		
			iSgl	16 00 27.1		
		Sk	eS*	16 00 44		
			iSgl	16 00 49.7		
		Um	iSgl	16 02 04.5		
		Ud	ePn	15 58 09		
			i	15 59 04.5		
			iSn	15 59 11.2		
			iSgl	15 59 34.1		
		North Sea, 56.6°N, 6.0°E.				
		Origin time = 15 56 51.				
		By combination with Bergen and Kongsberg readings.				
"	19	Ki	iP	19 01 41.7		
		Ud	iP	19 02 34.1		
		Alaska (h = N).				
"	19	Up	iP	22 06 25.2		
			ipP	22 06 42.3		
			iS	22 10 42.6		
		(cont.)				

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

1974							
May	19	(cont.)					
		Up	iScP		22 13 33.7		
					micr	sec	
			pP	Z'	0.1	1.0	
			Mx	E	0.4	9	
			Mx	N	0.4	10	
			Mx	Z	0.5	9	
		Ki	iP		22 07 32.6		
			iS		22 12 44.1		
					micr	sec	
			P	Z'	0.1	0.7	
			Mx	E	0.6	14	
			Mx	N	0.5	13	
			Mx	Z	0.5	13	
		Sk	iP		22 07 04.5		
			iScP		22 13 47.1		
		Um	iP		22 06 57.9		
		Ud	iP		22 06 33.2		
		Crete.					
		h = 90 km (Up).					
		m = 5.6, M = 4.5 (Up,Ki).					
		M uncorrected for focal depth.					
"	20	Up	iP		00 24 57.7		
			ipP		00 25 09.6		
		Ki	iP		00 24 05.0	C	
			ipP		00 24 16.0		
		Um	iP		00 24 29.6		
			ipP		00 24 40.7		
		Ud	iP		00 25 01.5		
		Kamchatka.					
		h = 40 km (Up,Ki,Um).					
"	20	Up	iSn		09 06 30.0		
			iSgl		09 07 06.0		
		Ki	iPn		09 04 12.3		
			iPgl		09 04 15.8		
			iSgl		09 04 54.1		
		Sk	iPn		09 04 17.0		
			iSgl		09 05 07.1		
		Um	iPn		09 04 30.7		
			iPgl		09 04 37.8		
			iSn		09 05 16.8		
			iSgl		09 05 32.8		
		Ud	iSn		09 06 18.7		
			i		09 06 36.3		
			iSgl		09 06 52.3		
		De	eSgl		09 08 52		
		Coast of Nordland, Norway,					
		66.8°N, 13.7°E.					
		Origin time = 09 03 26.					
"	20	Up	iP		10 51 15.6	D	
			ipP		10 51 21.3		
		(cont.)					

1974							
May	20	(cont.)					
		Up			micr	sec	
			P	Z'	0.1	0.9	
		Ki	iP		10 51 55.5	D	
		Sk	iP		10 51 47.8	D	
		Um	iP		10 51 32.1		
			ipP		10 51 38.5		
		Ud	iP		10 51 27.3	D	
			ipP		10 51 32.8		
		De	iP		10 51 08.3		
		Gulf of Aden.					
		h = 25 km (Up,Um,Ud).					
"	20	Um	iSgl		13 25 56.9		
		Western USSR.					
		Explosion.					
"	20	Um	i(Sgl)		13 29 59.2		
"	20	Up	iP		17 47 24.3		
		Ki	iP		17 47 31.1		
		Sk	iP		17 47 48.7		
		Um	iP		17 47 21.8		
		Ud	iP		17 47 40.4	C	
		De	iP		17 47 37.4		
		Kashmir (h = N).					
"	20	Up	iP		18 54 16.1		
		Ki	iP		18 53 22.5		
		Um	iP		18 53 48.4		
		Ud	iP		18 54 18.2		
		De	iP		18 54 39.9		
		Aleutian Islands (h = 40 km).					
"	20	Up	iP		19 35 02.0		
"	20	Ud	iP		20 12 33.4		
		Kurile Islands.					
"	20	Up	iP		20 22 29.1		
		Um	iP		20 22 27.2		
		Ud	iP		20 22 45.0		
		De	iP		20 22 43.4		
		Afghanistan-USSR (h = 240 km).					
"	21	Up	iP		00 45 59.7		
		Ki	iP		00 45 43.7		
		Um	iP		00 45 49.2		
		Ud	iP		00 46 08.4		
		De	iP		00 46 13.8		
		Mindanao (h = 80 km).					
"	21	Up	iPKP		02 21 46.7		
			iSKP1		02 25 03.8		
		Ki	iPKP		02 22 00.8		
			iSKP1		02 25 06.6		
		(cont.)					

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

1974
May 21 (cont.)

				micr	sec
Ki		SKP1	Z'	0.1	1.4
Um		iPKP		02 21 54.0	
Ud		iPKP		02 21 44.1	

South Sandwich Islands
(h = 160 km).

" 21	Up	iPKP1	05 05 56.7
		iSKP1	05 08 47.4
	Ki	iPKP	05 05 49.8
		iSKP1	05 08 24.3

			micr	sec
	SKP1	Z'	0.1	1.4

Sk	iSKP1	05 08 40.7
Um	iPKP	05 05 55.2
	iSKP1	05 08 35.8
Ud	iPKP1	05 05 57.7
	iSKP1	05 08 49.0
De	iPKP	05 06 08.6
	iPKP1	05 06 09.9
	iSKP1	05 08 58.1

Tonga-Kermadec Islands
(h = 570 km).

" 21	Up	iP	07 45 53.9

Germany.

" 21	Up	iP	08 10 46.9
	Sk	iP	08 10 59.3
	Um	iP	08 10 39.2
	Ud	iP	08 10 56.2

Java (h = 90 km).

" 21	Up	iSgl	09 28 09.4
	Ud	iSgl	09 28 13.8
	De	iPgl	09 26 09.5
		iSgl	09 26 25.2

Baltic Sea, south of Sweden,
55.5°N, 15.0°E.
Origin time = 09 25 50.
Explosion.

" 21	Up	iSgl	09 37 10.0
	Ud	iSgl	09 37 13.8
	De	iPgl	09 35 10.7
		iSgl	09 35 28.5

Baltic Sea, south of Sweden,
55.5°N, 15.0°E.
Origin time = 09 34 50.
Explosion.

" 21	Up	iPgl	09 41 07.9
		iSgl	09 41 35.6
	Ud	eSgl	09 42 27

(cont.)

1974
May 21 (cont.)

De	iPgl		09 41 29.7
	eSgl		09 42 15

Near Gotland, Sweden.
Origin time = 09 40 31.
Underwater explosion.

" 21	Um	i(P)	10 44 01.2
" 21	Up	iSn	11 49 47.1
		iSgl	11 49 58.1
	Ki	iSgl	11 52 31.0
	Sk	iSgl	11 51 47.0
	Um	iSgl	11 50 34.1
	Ud	iSn	11 50 35.2
		iSgl	11 51 02.4
	De	iSgl	11 51 32.2

Esthonia.
Explosion.

" 21	Up	iSgl	12 09 02.1
	Sk	eSgl	12 10 50
	Um	iSgl	12 09 20.7
		iRg	12 09 54.6
	Ud	iSgl	12 10 04.3
	De	iSgl	12 10 32.7
		iSg2	12 10 43.4

Western USSR.
Explosion.

" 21	Sk	iP	12 14 05.0
	Um	iP	12 14 27.7
	Ud	iP	12 14 07.0
" 21	Up	iSgl	12 46 43.7
	Um	iSgl	12 46 54.5
		eRg	12 47 32
	Ud	iSgl	12 47 36.7
	De	eSgl	12 48 10

Western USSR.
Explosion.

" 21	Up	iSgl	13 02 15.4
	Sk	iSgl	13 04 16.0
	Um	iSgl	13 03 06.9
	De	iSgl	13 03 46.2

Esthonia.
Explosion.

" 21	Up	iSgl	14 51 04.5
	Um	iSgl	14 51 19.0

Probably western USSR.
Explosion.

" 21	Up	iSgl	14 55 33.4

(cont.)

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

1974
May 21 (cont.)
Um iSgl 14 57 33.4
Ud iSgl 14 56 19.2
De eSgl 14 56 41
Off coast of Södermanland, Sweden, 58.9°N, 17.7°E.
Origin time = 14 55 02.
Explosion.

" 21 Up iPgl 14 55 39.1
iSgl 14 55 53.1
iRg 14 55 59.7
Um iSgl 14 57 54.0
Ud iSgl 14 56 38.5
De iPn 14 56 11.9
iSgl 14 56 58.2
Off coast of Södermanland, Sweden, 58.9°N, 17.7°E.
Origin time = 14 55 22.
Explosion.

" 21 Up iSgl 15 09 22.4
Ud iSn 15 08 09.4
iS* 15 08 20.6
iSgl 15 08 27.0
Coast of south Norway, 58.2°N, 6.4°E.
Origin time = 15 06 17.
By combination with Bergen and Kongsberg readings.

" 21 Ki iPgl 15 34 33.5
i 15 34 49.6
iSgl 15 34 52.1
Um iPgl 15 35 19.0
i 15 35 48.5
iSn 15 35 55.4
Swedish Lapland.
Origin time = 15 34 10.

" 21 Up eP 16 10 33
Ki iP 16 10 33.8
Sk iP 16 10 02.5
Um iP 16 10 36.9
Ud iP 16 10 16.4
De iP 16 10 29.9
North Atlantic Ocean (h = N).

" 21 Up iPgl 16 49 28.5
iSgl 16 49 54.4
Um iSgl 16 51 58.4
Ud iPgl 16 49 55.2
iSgl 16 50 37.8
i 16 50 45.3
De iPn 16 49 43.0
(cont.)

1974
May 21 (cont.)
De iPgl 16 49 49.0
iSgl 16 50 28.2
Near Gotland, Sweden, 58.0°N, 18.4°E.
Origin time = 16 48 58.
Underwater explosion.

" 21 Up ePgl 16 52 12
iSn 16 52 38.6
iSgl 16 52 50.0
i 16 52 51.3
Ki iSgl 16 56 36.4
Sk ePgl 16 52 50
iSn 16 53 41.0
iSgl 16 54 04.8
i 16 54 20.1
Um eSn 16 54 09
i 16 54 28.7
i 16 54 40.0
i 16 54 43.2
iSgl 16 54 44.4
Ud iPgl 16 51 51.6 C
i 16 51 54.0 D
iSgl 16 52 15.8
i 16 52 17.4
De iPgl 16 51 52.4 D
iSgl 16 52 17.8
Västergötland, Sweden, 58.3°N, 12.8°E.
Origin time = 16 51 21.
Felt.
By combination with Bergen and Kongsberg readings.

" 21 Up iP 19 23 24.3
Um iP 19 23 15.3
Ud iP 19 23 33.7

" 22 Um iP 06 31 05.0

" 22 Up iP 07 45 03.6
Ud iP 07 45 07.2
Greece (h = 130 km).

" 22 Ud iSgl 10 15 37.0
De iPgl 10 13 18.0
eSgl 10 13 50

" 22 Ki iPgl 10 53 01.6
iSn 10 53 39.7
iSgl 10 53 55.0
Northwest USSR-Norway.
Explosion.

" 22 Up iSgl 12 09 15.0
(cont.)

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

1974 May	22	(cont.)				
		Ki	eSgl	12	11	13
		Ud	iSgl	12	10	12.8
		De	iSgl	12	10	44.1
		Western USSR.				
		Explosion.				
"	22	Up	iSn	12	12	08.9
			iSgl	12	12	16.5
		Ki	eSgl	12	14	55
		Sk	iSgl	12	14	14.0
		Ud	iSgl	12	13	22.9
		De	iSgl	12	13	49.4
		Esthonia.				
		Explosion.				
"	22	Up	iPKPl	17	51	21.2
		Ud	iPKPl	17	51	23.6 C
"	22	Up	iPKPl	19	28	12.5
		Ud	iPKPl	19	28	14.8 C
		De	iPKPl	19	28	25.4 C
"	22	Up	iRg	21	15	56.0
		Ud	iRg	21	15	42.7
		Central Sweden.				
"	22	Ki	eP	21	58	48
"	23	Ki	iP	02	19	03.4
			i	02	19	07.1
		Ud	iP	02	19	18.4
		De	eP	02	19	19
		Sinkiang, China (h = N).				
"	23	Ud	eP	02	22	19
"	23	Up	iP	05	28	00.3 C
		Ki	iP	05	27	07.8
		Um	iP	05	27	32.9
		Ud	iP	05	28	00.8
		Aleutian Islands (h = 35 km).				
"	23	Up	iPKPl	07	03	08.3
			i	07	03	15.5
			i	07	03	30.5
				micr		sec
			Mx N	0.8		19
			Mx Z	1.1		20
		Ki	iPKP	07	02	50.8
				micr		sec
			Mx E	0.9		20
			Mx N	1.1		20
			Mx Z	1.2		20
		Sk	iPKPl	07	03	01.9
		(cont.)				

1974 May	23	(cont.)				
		Um	iPKPl	07	02	56.2
		Ud	iPKPl	07	03	10.0
		De	iPKPl	07	03	19.6
			ipPKPl	07	03	36.2
		Kermadec Islands.				
		h = 60 km (De).				
		M = 5.7 (Up,Ki).				
"	23	Ki	eP	09	25	53
			i	09	26	01.9
		Ud	eP	09	26	21
		Mindanao (h = 70 km).				
"	23	Ki	iP	09	32	33.0
		Ud	iP	09	31	59.9
		North Atlantic Ocean (h = N).				
"	23	Up	iSgl	09	41	44.0
		Ki	iSgl	09	43	52.9
		Sk	iSgl	09	43	33.6
		Um	iS*	09	41	57.7
			iSgl	09	42	05.8
		Ud	iSgl	09	42	44.9
		De	iSgl	09	43	11.3
		Western USSR.				
		Explosion.				
"	23	Um	i(P)	09	47	58.9
"	23	Up	iP	11	17	38.2
				micr		sec
			P Z'	0.1		1.4
		Ki	iP	11	17	58.0
			ipP	11	18	04.9
		Sk	iP	11	17	25.1
		Um	eP	11	17	50
		Ud	iP	11	17	23.7
			ipP	11	17	30.5
		De	iP	11	17	19.9
		North Atlantic Ocean.				
		h = 25 km (Ki,Ud).				
"	23	Up	iSgl	12	21	15.1
		Ki	eSgl	12	23	12
		Um	iSgl	12	21	30.1
		Ud	iSgl	12	22	14.0
		De	iSg2	12	22	47.5
		Western USSR.				
		Explosion.				
"	23	Um	i(P)	12	41	11.0
"	23	Up	iSgl	13	47	11.3
		Ki	iSgl	13	48	20.3
		(cont.)				

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

1974
May 23 (cont.)

Sk	iSgl	13	48 28.6
Um	iSgl	13	46 42.2
Ud	e	13	47 17
	eSgl	13	48 08
De	eSgl	13	48 57

Lake Ladoga region.
Explosion.

" 23

Up	iP	13	50 19.6
Ki	eP	13	49 45
Um	iP	13	50 04.1
Ud	iP	13	50 11.2
De	iP	13	50 27.5

Nevada (h = 5 km).

" 23

Up	iSgl	14	14 48.3
Ki	eSgl	14	15 05
Um	iSgl	14	14 14.3

East of Lake Ladoga.
Explosion?

" 23

Up	iSgl	15	18 13.1
Ki	eSgl	15	18 56
Um	iSgl	15	17 32.6
Ud	eSgl	15	19 10

Lake Ladoga region.
Explosion.

" 23

Ki	iP	15	55 49.1

(Greece).

" 23

Up	iP	19	55 22.8
Ki	iP	19	56 48.0
Sk	iP	19	56 06.5
Um	iP	19	56 07.2
Ud	iP	19	55 26.6

Yugoslavia (h = N).

" 23

Ki	iP	20	58 20.6
Um	iP	20	59 03.6
Ud	iP	20	59 39.8

Greenland Sea.

" 24

Up	iP	01	35 11.2
Ud	iP	01	35 12.9
De	iP	01	34 36.4

" 24

Up	iP	09	33 15.8
Um	iP	09	32 54.5
	i	09	33 08.1
Ud	iP	09	33 22.3
	i	09	33 35.8

Japan (h = 15 km).
The P arrivals are 8-9 sec late compared to the NEIS (cont.)

1974
May 24 (cont.)
solution. Moreover, interpreting the second phase at Um,Ud as pP gives h = 50 km.

" 24

Ud	eP	09	43 40

Greece.

" 24

Sk	i(Sgl)	10	05 38.7
Ud	iSgl	10	03 41.4
De	iPgl	10	01 24.1
	iSgl	10	02 13.0

" 24

Ki	iPn	10	53 00.8
	iSn	10	54 00.8
	iS*	10	54 19.4
Um	i	10	54 53.1
	iSgl	10	55 13.0
Ud	iSgl	10	57 44.6

Northwest USSR.
Explosion.

" 24

Ki	iPn	11	05 45.3
	iSn	11	06 33.4
	iS*	11	06 47.2
Um	iSgl	11	08 19.5

Northwest USSR-Norway.
Explosion.

" 24

Ki	eSgl	12	36 14
Um	eSgl	12	34 26
Ud	iSgl	12	35 13.3

Western USSR.
Explosion.

" 24

Ki	eSgl	13	02 56
Um	iSgl	13	01 29.0
Ud	iSgl	13	02 53.6

Lake Ladoga region.
Explosion.

" 24

Ki	eSgl	13	29 39
Sk	iSgl	13	30 01.2
Um	iSgl	13	28 10.9
Ud	iSgl	13	29 35.9

Lake Ladoga region.
Explosion.

" 24

Up	iP	20	37 02.2
Ki	iP	20	36 08.4
Sk	iP	20	36 45.1
Um	iP	20	36 33.4
Ud	iP	20	37 05.7
De	iP	20	37 27.2
	i	20	37 37.9

Kamchatka (h = N).

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

1974				
May	24	Ud	iP	21 32 33.5
		Turkey.		
"	24	Ud	iPKPl	22 12 55.6
"	24	Ki	iP	22 39 16.7
		Ud	iP	22 40 08.8
		Alaska (h = 130 km).		
"	24	Ud	iP	23 58 21.0
"	25	Ki	ePgl	01 34 32
			eSn	01 35 13
			iSgl	01 35 29.7
		Northwest USSR-Finland.		
		Explosion?		
"	25	Up	iPKP	04 37 25.8
			i	04 37 38.6
		Ki	ePKP	04 37 39
		Um	iPKP	04 37 33.3
		Ud	iPKP	04 37 23.4
		South Sandwich Islands		
		(h = 100 km).		
"	25	Ud	iP	06 18 39.0
"	25	Up	iP	09 42 59.7
			ipP	09 43 10.0
		Ki	iP	09 42 29.9
		Sk	iP	09 42 59.7
		Um	eP	09 42 42
			ipP	09 42 51.7
		Ud	iP	09 43 08.2
			ipP	09 43 17.9
		De	iP	09 43 19.4
		Ryukyu Islands.		
		h = 35 km (Up,Um,Ud).		
"	25	Um	iSgl	11 52 50.1
		Western USSR-Finland.		
		Explosion.		
"	25	Ud	iP	12 08 25.5
		West of Gibraltar (h = N).		
"	25	Ki	iSn	12 56 28.4
		Um	iSgl	12 57 49.5
		Northwest USSR.		
		Explosion.		
"	25	Ki	iSn	14 30 58.1
			iSgl	14 31 15.3
		Um	iSn	14 31 43.0
			iSgl	14 32 09.3
		(cont.)		

1974				
May	25	(cont.)		
		Northwest USSR-Finland.		
		Explosion.		
"	25	Ud	eP	15 38 16
		Japan (h = 60 km).		
"	25	Um	i(P)	15 40 51.4
"	25	Ki	iP	15 55 33.6
		Ud	iP	15 55 02.3
		North Atlantic Ocean (h = N).		
"	25	Up	iP	16 17 40.1
		Ki	iP	16 17 33.9
		Um	iP	16 17 33.5
		Ud	iP	16 17 53.6
			ipP	16 18 17.2
		Burma.		
		h = 90 km (Ud).		
"	25	Ud	iPKPl	16 41 48.5
		De	iPKPl	16 42 00.4
		Tonga-Kermadec Islands		
		(h = 550 km).		
"	25	Up	iP	19 06 31.2
		Ki	iP	19 06 12.9
		Um	iP	19 06 18.9
		Ud	iP	19 06 41.1
			ipP	19 06 51.7
		Luzon.		
		h = 40 km (Ud).		
"	25	Up	iP	20 17 48.6
		Ki	iP	20 17 00.5
		Sk	iP	20 16 56.3
		Um	iP	20 17 25.8
		Ud	iP	20 17 34.0
		De	iP	20 18 08.1
			i	20 18 19.7
		Greenland (h = N).		
"	25	Up	iPKPl	21 11 40.1
		Um	iPKP	21 11 28.8
			iSKPl	21 14 12.4
		Ud	iPKPl	21 11 42.6
			iSKPl	21 14 24.2
		De	iPKPl	21 11 52.6
		Tonga-Kermadec Islands		
		(h = 680 km).		
"	25	Ud	iP	21 31 35.7
		Aegean Sea.		
"	25	Ud	iP	22 35 02.7
		Japan (h = 40 km).		

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

1974							
May	26	Up	iPKP		01	51	27.3
			iSKP1		01	54	53.2
					micr		sec
			PKP	Z'	0.2		1.8
			SKP1	Z'	0.1		1.5
			Mx	E	1.5		20
			Mx	N	2.6		18
			Mx	Z	4.1		20
		Ki	iPKP		01	51	13.3
			iPP		01	53	03
					micr		sec
			PKP	Z'	0.1		1.2
			Mx	E	2.6		20
			Mx	N	2.8		20
			Mx	Z	2.4		20
		Sk	iPKP		01	51	24.0
		Um	iPKP		01	51	19.3
			iSKP1		01	54	41.4
		Ud	iPKP		01	51	29.4
			iPP		01	54	00.4
			iSKP1		01	54	58.3
		De	iPKP		01	51	33.5
			iSKP1		01	55	05.4
		New Hebrides Islands					
		(h = 15 km).					
		M = 6.1 (Up,Ki).					
"	26	Up	iPKP		01	56	01.7
			ipPKP		01	56	09.1
			iSKP1		01	59	35.7
		Ki	iPKP		01	55	46.6
			ipPKP		01	55	54.6
		Um	iPKP		01	55	52.7
			ipPKP		01	55	58.6
		Ud	ipPKP		01	56	11.4
		De	iPKP		01	56	08.7
			ipPKP		01	56	14.9
		New Hebrides Islands.					
		h = 25 km (Up,Ki,Um,De).					
		Origin time = 01 36 45.					
"	26	Up	ipPKP		02	34	48.3
		Ki	iPKP		02	34	24.5
			ipPKP		02	34	32.6
		Um	iPKP		02	34	32.4
			ipPKP		02	34	40.9
		De	iPKP		02	34	48.3
		New Hebrides Islands.					
		h = 25 km (Ki,Um).					
"	26	Up	iP		03	51	27.4
		Ud	iP		03	51	40.8
"	26	Ki	iPKP		05	56	41.8
		New Hebrides Islands					
		(h = 15 km).					

1974							
May	26	Up	iPKP		06	05	51.0
			iPKP1		06	05	53.0
			iSKP1		06	08	42.4
			i		06	08	52.9
					micr		sec
			SKP1	Z'	0.2		1.2
		Ki	i(PKP)		06	05	30.2
			i		06	05	45.6
			iSKP1		06	08	18.5
					micr		sec
			SKP1	Z'	0.5		2.3
		Sk	i(PKP)		06	05	42.5
			iSKP1		06	08	34.8
		Um	i(PKP)		06	05	39.7
			iPKP		06	05	45.9
			iSKP1		06	08	30.3
		Ud	iPKP		06	05	52.1
			iPKP1		06	05	54.0
			iSKP1		06	08	43.8
		De	iPKP1		06	06	04.7 D
			iSKP1		06	08	52.4
		Fiji Islands (h = 570 km).					
"	26	Ki	iPKP		06	07	27.6
					micr		sec
			PKP	Z'	0.1		1.6
		Um	iPKP		06	07	34.1
		Ud	iPKP		06	07	42.2
		New Hebrides Islands.					
		Origin time = 05 48 26.					
"	26	Ki	iPKP		06	11	38.6
		Sk	iPKP		06	11	51.4
		Ud	iPKP		06	11	56.4
		New Hebrides Islands					
		(h = 55 km).					
"	26	Ki	eSn		06	39	15
		Um	iSg1		06	40	38.7
		Northwest USSR.					
		Explosion.					
"	26	Up	iSg1		07	00	28.8
		Ki	iSn		06	57	10.9
			iSg1		06	57	34.2
		Um	i		06	58	03.4
			iSg1		06	58	22.9
		Ud	iSg1		07	00	53.9
		Northwest USSR.					
		Explosion.					
"	26	Ki	iPKP		07	34	44.2
		Um	iPKP		07	34	50.4
		Ud	iPKP		07	35	01.0
		New Hebrides Islands					
		(h = 25 km).					

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

1974							
May	26	Ki	iPKP		08 33 50.9		
		Sk	iPKP		08 34 04.9		
		New Hebrides Islands					
		(h = 10 km).					
"	26	Up	iPKP		08 55 46.4		
		Ki	iPKP		08 55 30.1		
		Um	iPKP		08 55 38.9		
		New Hebrides Islands					
		(h = 10 km).					
"	26	Ki	iPKP		09 11 57.9		
		Sk	iPKP		09 12 08.9		
		New Hebrides Islands					
		(h = N).					
"	26	Ki	iPKP		10 21 42.2		
		Um	iPKP		10 21 47.9		
		De	iPKP		10 22 04.2		
		New Hebrides Islands					
		(h = 25 km).					
"	26	Up	iPKP		11 43 27.1		
		Ki	iPKP		11 43 15.0		
		Ud	iPKP		11 43 30.1		
		New Hebrides Islands					
		(h = 20 km).					
"	26	Up	iP		12 54 00.3		
		Ki	iP		12 53 38.4		
		Formosa (h = 20 km).					
"	26	Up	iP		13 11 49.5		
			ipP		13 12 02.6		
			i		13 12 10.3		
		Ki	eP		13 13 01		
		Sk	ipP		13 12 43.4		
		Um	iP		13 12 35.4		
		Ud	iP		13 11 54.2		
			i		13 12 02.2		
			ipP		13 12 07.3		
		Greece.					
		h = 70 km (Up,Ud).					
"	26	Up	iP		13 19 49.7		
		Ud	iP		13 19 55.2		
		Kurile Islands.					
"	26	Up	iP		20 52 14.4		
		Um	iP		20 51 52.9		
			ipP		20 52 05.6		
		Ud	iP		20 52 21.8		
		Japan.					
		h = 45 km (Um).					
"	26	Ki	i(P)		23 23 52.0		

1974							
May	27	Ud	iP		03 34 33.9	C	
		Tadzhik SSR (h = 240 km).					
"	27	Up	iP		04 51 59.2	C	
			i		04 52 51.3		
					micr	sec	
			i	Z'	0.1	1.1	
			Mx	E	3.2	21	
			Mx	N	6.8	21	
			Mx	Z	14	22	
		Ki	iP		04 51 06.1		
					micr	sec	
			Mx	E	5.5	20	
			Mx	N	6.5	22	
			Mx	Z	5.8	22	
		Sk	iP		04 51 44.1		
			iPcP		04 52 28.2		
		Um	iP		04 51 31.7		
			i		04 51 58.8		
			iPcP		04 52 14.9		
		Ud	iP		04 52 03.2		
			iPcP		04 52 33.9		
		De	iP		04 52 24.8		
		Kurile Islands (h = 45 km).					
		M = 5.9 (Up,Ki).					
"	27	Up	iP		05 13 55.6		
			ipP		05 14 06.8		
			i		05 14 14.9		
		Ki	iP		05 13 39.7		
			ipP		05 13 50.9		
					micr	sec	
			pP	Z'	0.1	1.2	
		Sk	iP		05 13 35.2		
			i		05 14 13.7		
		Um	iP		05 13 49.6		
		De	iP		05 13 55.2		
		Mexico.					
		h = 40 km (Up,Ki).					
"	27	Ud	iP		07 45 06.5		
"	27	Up	iP		10 50 02.2		
			i		10 50 05.9		
					micr	sec	
			Mx	E	1.2	20	
			Mx	N	1.6	22	
			Mx	Z	2.2	20	
		Ki	iP		10 49 47.2		
			i		10 49 51.7		
					micr	sec	
			Mx	E	3.0	18	
			Mx	N	2.3	18	
			Mx	Z	2.3	18	
		Sk	iP		10 50 04.4		
		(cont.)					

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

1974						
May	27	(cont.)				
		Um	iP		10 49 57.8	
		Ud	iP		10 50 13.7	
		Mindanao (h = 35 km).				
		M = 5.7 (Up,Ki).				
"	27	Up	iSn		12 17 25.7	
			iSgl		12 17 37.7	
		Ki	iSgl		12 20 10.4	
		Um	iSgl		12 18 10.9	
		Ud	i(S*)		12 18 37.2	
			iSgl		12 18 40.8	
		De	iSgl		12 19 06.9	
		Esthonia.				
		Explosion.				
"	27	Up	iP		12 28 54.6	
		Ki	iP		12 29 16.2	
		Ud	iP		12 28 42.0	
		De	iP		12 28 36.2	
		North Atlantic Ocean				
		(h = N).				
"	27	Ud	iP		13 32 48.4	
			i		13 32 56.4	
"	27	Ud	iP		13 49 20.9	
"	27	Up	iSgl		13 58 40.2	
		Ki	eSgl		14 00 51	
		Sk	eSgl		14 00 37	
		Um	iSgl		13 59 01.9	
		Western USSR.				
		Explosion.				
"	27	Up	iP		14 11 45.3 C	
			ipP		14 11 49.8	
			iPcP		14 12 29.8	
					micr	sec
			P	Z'	0.1	1.3
			pP	Z'	0.1	1.0
		Ki	iP		14 10 49.8 C	
			ipP		14 10 55.0	
					micr	sec
			P	Z'	0.2	1.0
			pP	Z'	0.2	1.0
		Sk	iP		14 11 15.7 C	
			ipP		14 11 20.7	
		Um	iP		14 11 18.4 C	
			ipP		14 11 23.4	
		Ud	iP		14 11 40.9 C	
			ipP		14 11 46.4	
			iPcP		14 12 26.6	
		De	iP		14 12 05.6 C	
			ipP		14 12 10.7	
		(cont.)				

1974						
May	27	(cont.)				
		Alaska.				
		h = 20 km (Up,Ki,Sk,Um,Ud,				
		De).				
		m = 5.9 (Up,Ki).				
"	28	Um	iP		00 16 30.9	
		Japan (h = 310 km).				
"	28	Up	iPKP1		03 14 47.0	
			iPKP2		03 14 53.7	
			epPKP1		03 16 44	
					micr	sec
			PKP1	Z'	0.1	0.9
			PKP2	Z'	0.3	1.0
		Ki	iPKP1		03 14 25.8 C	
		Sk	iPKP1		03 14 41.6 C	
			iPKP2		03 14 45.4	
			ipPKP1		03 16 34.9	
		Um	iPKP1		03 14 35.7	
			ipPKP1		03 16 29.0	
		Ud	iPKP1		03 14 48.8 C	
			iPKP2		03 14 57.0	
			ipPKP1		03 16 42.4	
		De	iPKP1		03 14 56.0	
			iPKP2		03 15 11.1	
		Kermadec Islands.				
		h = 490 km (Sk,Um,Ud).				
"	28	Up	iSgl		11 07 18.8	
		Um	iSgl		11 08 10.9	
		Esthonia.				
		Explosion.				
"	28	Um	iSgl		12 13 20.2	
		Western USSR.				
		Explosion.				
"	28	Up	iPgl		14 04 48.0	
			iSgl		14 05 04.8	
			iRg		14 05 11.7	
		Ki	iSgl		14 09 09.2	
		Sk	iSgl		14 07 25.6	
		Um	eSgl		14 07 03	
		Ud	i(S*)		14 05 50.4	
			iSgl		14 05 52.3	
			i		14 05 54.0	
		De	iPn		14 05 17.5	
			i		14 05 39.4	
			iSgl		14 06 06.6	
			i		14 06 12.4	
		Off coast of Södermanland,				
		Sweden, 58.7°N, 18.2°E.				
		Origin time = 14 04 27.				
		Explosion.				

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

1974 May	28	Ud	iPKPl	17 18 02.6	
		De	iPKPl	17 18 15.3	
"	28	Up	i(P)	21 53 43.1	
"	28	Up	iP	23 25 44.9	
			ipP	23 25 52.7	
		Um	iP	23 25 56.9	
			ipP	23 26 04.2	
		Ud	iP	23 25 57.9	
			ipP	23 26 05.5	
		Indian Ocean.			
		h = 30 km (Up,Um,Ud).			
		Origin time = 23 15 23.			
"	28	Up	iP	23 28 45.9	
			ipP	23 28 55.0	
		Ki	iP	23 29 16.7	
		Um	iP	23 28 58.2	
			ipP	23 29 06.4	
		Ud	iP	23 28 58.3	
			ipP	23 29 06.7	
		Indian Ocean.			
		h = 30 km (Up,Um,Ud).			
"	29	Ud	iP	01 54 51.1	
		Tien-Shan.			
"	29	Up	iP	04 27 31.0	
		Ki	iP	04 28 05.3	
		Um	iP	04 27 41.7	
		Ud	iP	04 27 43.0	
		Indian Ocean (h = N).			
"	29	Um	iP	07 19 38.2	
		Ud	iP	07 20 07.4	
		Japan (h = 30 km).			
"	29	Up	iP	08 23 46.7	
		Ki	iP	08 23 45.8 D	
		Sk	iP	08 23 59.9 D	
		Um	iP	08 23 43.5 D	
		Ud	iP	08 23 55.9 D	
		Sumatra (h = 130 km).			
"	29	Up	i(P)	11 30 44.3	
"	29	Ud	iP	12 08 35.7	
		Tien-Shan.			
"	29	Up	iSgl	12 42 22.3	
		Um	iSgl	12 42 41.6	
		Ud	iSgl	12 43 25.1	
		Western USSR.			
		Explosion.			

1974 May	29	Um	iSgl	13 10 38.1	
		Western USSR.			
		Explosion.			
"	29	Sk	i(P)	14 43 14.0	
"	29	Ki	eP	16 00 37	
		Celebes Sea (h = N).			
"	29	Ud	iPKPl	17 10 17.1	
"	30	Up	iP	01 10 53.1	
		Ki	eP	01 10 06	
		Ud	iP	01 10 45.9	
			ipP	01 10 56.1	
		Vancouver Island.			
		h = 40 km (Ud).			
"	30	Ud	iP	01 16 03.1	
		Kurile Islands (h = N).			
"	30	Ki	iPn	10 27 04.4	
			iPgl	10 27 12.6	
			iSn	10 27 50.9	
			iS*	10 28 02.4	
		Sk	iSgl	10 30 56.5	
		Um	iSn	10 29 01.6	
			iSgl	10 29 39.6	
		Northwest USSR-Norway.			
		Explosion.			
"	30	Up	iSgl	11 50 08.9	
		Ki	iSgl	11 52 26.3	
		Um	iSgl	11 50 34.1	
		Esthonia.			
		Explosion.			
"	30	Ud	iSgl	11 57 17.4	
			i	11 57 25.5	
		South Norway.			
		By combination with Bergen and Kongsberg readings.			
"	30	Up	iPKPl	13 19 22.6	
		Ud	iPKPl	13 19 26.6	
		De	iPKPl	13 19 36.0	
		Kermadec Islands (h = N).			
"	30	Ud	iP	13 21 46.8	
"	30	Up	iSgl	13 22 09.4	
		Ki	iSgl	13 24 43.5	
		Sk	iSgl	13 24 00.1	
		Um	iSgl	13 22 45.2	
		Ud	iSgl	13 23 10.3	
		(cont.)			

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

1974
May 30 (cont.)

	De	eSgl	13 23 41	

Esthonia.
Explosion.

" 30	Up	iP	15 44 21.7	
	Ki	iP	15 45 36.9	
	Um	iP	15 45 02.4	
	Ud	iP	15 44 31.4	

Aegean Sea (h = 40 km).

" 31	Ki	eP	02 06 22	

Kamchatka (h = 110 km).

" 31	Up	iP	03 24 00.8	
			micr	sec
		Mx N	0.8	17
		Mx Z	0.6	17
	Ki	iP	03 23 06.0	
		ipP	03 23 16.0	
			micr	sec
		Mx E	0.7	17
		Mx N	0.7	16
		Mx Z	0.8	16
	Sk	epP	03 23 47	
	Um	iP	03 23 33.1	
		ipP	03 23 43.7	
	Ud	iP	03 23 58.8	
	De	iP	03 24 21.9	

Unimak Island.
h = 40 km (Ki,Um).
M = 5.1 (Up,Ki).

" 31	Up	iP	03 33 55.1	C
		iPn	03 35 01.3	
		iPP	03 35 13.5	
			micr	sec
		P Z'	1.7	1.0
		Pn Z'	0.1	0.7
		PP Z'	0.2	0.8
	Ki	iP	03 33 38.7	C
		iPn	03 34 38.5	
			micr	sec
		P Z'	1.8	1.1
		Pn Z'	0.2	0.7
	Sk	iP	03 34 10.1	C
		iPn	03 35 27.9	
		iPP	03 35 33.6	
	Um	iP	03 33 39.7	C
		iPn	03 34 44.0	
		iPP	03 34 52.3	
	Ud	iP	03 34 11.5	C
	De	iP	03 34 18.8	C
		i	03 35 17.8	

(cont.)

1974
May 31 (cont.)

	De	iPn	03 35 42.0	

Kazakh SSR.
m = 6.9 (P), 6.2 (PP) (Up,Ki).
Underground explosion.

" 31	De	iPKPl	06 28 03.2	

Fiji Islands (h = 570 km).

" 31	Ud	iP	06 53 49.7	
" 31	Up	iSgl	07 27 10.6	
	Ki	iSgl	07 27 53.7	
	Sk	iSgl	07 28 20.2	
	Um	iSgl	07 26 29.4	
	Ud	iSgl	07 28 07.7	
	De	iSgl	07 28 50.3	

Lake Ladoga region.
Explosion.

" 31	De	i(P)	08 04 49.8	
" 31	Up	iP	09 21 06.5	
	Ki	iP	09 20 12.2	
	Sk	iP	09 20 50.7	
	Um	eP	09 20 38	
	Ud	iP	09 21 10.3	
	De	iP	09 21 31.3	

Kamchatka (h = N).

" 31	Sk	i(P)	12 34 02.5	
" 31	Up	iSgl	12 36 09.7	
	Sk	iSgl	12 37 58.3	
	Um	iSgl	12 36 25.8	
	Ud	iPn	12 35 06.5	
		iSgl	12 37 11.1	
	De	iPn	12 35 18.5	
		i	12 35 25.1	
		eSg2	12 37 42	

Western USSR.
Explosion.

" 31	Up	iP	14 13 47.0	
	Ki	iP	14 13 55.7	C
	Um	iP	14 13 45.5	C
	Ud	iP	14 14 03.8	C
	De	iP	14 14 00.5	

Afghanistan-USSR (h = 240 km).

" 31	✓Up	iP	14 17 27.9	
		i	14 17 37.0	
		iPP	14 20 47.7	
		iS	14 27 51	

(cont.)

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

1974

May	31	(cont.)				
		Up			micr	sec
			P	Z'	0.1	1.5
			i	Z'	0.7	2.1
			PP	Z'	0.2	1.5
			Mx	E	9.6	20
			Mx	N	10	20
			Mx	Z	17	19
		Ki	iP		14 17	00.4
			i		14 17	06.9
					micr	sec
			P	Z'	0.1	1.5
			i	Z'	0.5	2.1
			Mx	E	32	19
			Mx	N	23	17
			Mx	Z	26	17
		Sk	iP		14 17	01.7
			i		14 17	13.4
		Um	iP		14 17	19.5
			iS		14 27	30
		Ud	iP		14 17	22.4
		De	iP		14 17	32.1
			i		14 17	39.3
			iPP		14 20	54.2
		Gulf of California (h = N).				
		m = 6.4, M = 6.6 (Up,Ki).				
		Generally small-amplitude				
		beginnings, followed by				
		larger onsets.				
"	31	Ud	iPKP1		20 07	14.0

Markus Båth
Klaus Meyer
Rutger Wahlström

November 30, 1975

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

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

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

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

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

J U N E 1 - 30, 1974

1974 June	1	Um	iP	00 12 53.2	
		Japan.			
"	1	Up	iP	00 34 10.1	
		Um	iP	00 33 42.7	
		Ud	iP	00 34 08.7	
		De	iP	00 34 31.4	
		Aleutian Islands.			
"	1	Ud	iP	03 00 31.6	
"	1	Up	iP	03 36 01.2	
			i	03 36 24.4	
		Ki	iP	03 35 44.6	
		Sk	iP	03 36 08.8	
		Ud	iP	03 36 13.4	
		Szechwan, China (h = 15 km).			
"	1	Ud	iP	05 08 17.9	
"	1	Ud	iP	06 15 57.3	
"	1	Ud	iPKPl	09 01 23.2	
"	1	Up	iSgl	10 45 53.8	
		Ki	iPn	10 41 37.6	
			iPgl	10 41 52.6	
			iSn	10 42 37.1	
			iSgl	10 43 01.2	
		Sk	iSgl	10 45 24.7	
		Um	iSn	10 43 16.4	
			i	10 43 32.3	
			iS*	10 43 46.5	
			iSgl	10 43 52.0	
		Ud	iSgl	10 46 23.1	
		De	iSgl	10 47 59.5	
		Northwest USSR.			
		Explosion.			
1974 June	1	Ki	iSgl	10 44 18.3	
		Um	iSgl	10 45 15.2	
		Ud	iSgl	10 47 45.5	
		Northwest USSR.			
		Explosion.			
"	1	Up	iP	13 25 19.9	
		Um	i(P)	13 24 43.5	
		Ud	iP	13 25 26.1	
"	1	Ud	iP	13 26 52.7	C
"	1	Ki	iSn	15 27 01.7	
			iSgl	15 27 23.1	
		Northwest USSR.			
		Explosion.			
"	1	Up	iP	16 12 18.7	
		Ki	iP	16 13 29.8	
		Sk	iP	16 12 58.0	
		Um	iP	16 12 55.0	
		Ud	iP	16 12 25.5	D
		De	iP	16 11 51.1	
		Greece (h = 40 km).			
"	1	Up	iP	20 28 12.4	
		Ki	iP	20 28 14.4	
		Sk	iP	20 27 46.0	
		Um	iP	20 28 16.6	
		Ud	iP	20 27 55.0	
		De	iP	20 28 04.2	
		North Atlantic Ocean			
		(h = N).			
"	1	Up	iPKPl	23 12 43.1	
		Um	iPKPl	23 12 27.2	
		Ud	iPKPl	23 12 40.0	
		Kermadec Islands			
		(h = 450 km).			

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

1974 June	2	Up	iP	04 26 02.5
		Sk	iP	04 26 03.7
		Um	iP	04 25 45.3
		Ud	iP	04 26 13.4
		Ryukyu Islands (h = N).		
"	2	Sk	iP	05 30 20.3
		Um	iP	05 30 23.1
			i	05 30 33.2
		Ud	iP	05 29 57.2
		Adriatic Sea.		
"	2	Ki	iSn	05 54 21.6
		Northwest USSR.		
		Explosion.		
"	2	Ud	iPP	07 07 40.2
		Indian Ocean (h = N).		
"	2	Up	iP	12 07 06.1
		Ud	iP	12 07 17.5
		De	iP	12 07 15.6
		Nicobar Islands (h = N).		
"	2	Ud	iP	13 39 19.0
		Talaud Islands (h = 70 km).		
"	2	Up		micr sec
			Mx E	1.8 19
			Mx N	2.5 20
			Mx Z	2.7 20
		Ki	eP	16 13 02
				micr sec
			Mx E	2.0 21
			Mx N	2.5 20
			Mx Z	3.0 19
		Ud	iP	16 13 27.5
		Talaud Islands (h = N).		
		M = 5.8 (Up,Ki).		
"	2	Ki	i(P)	18 14 53.6
		Sk	iP	18 15 23.4
		Ud	iP	18 15 45.7
		Aleutian Islands		
		(h = 70 km).		
"	2	Up	iPKPl	22 46 31.8
		Um	iPKP	22 46 30.9
		Ud	iPKPl	22 46 34.0
		De	iPKPl	22 46 45.4
		Tonga-Kermadec Islands		
		(h = 580 km).		
"	2	Up	iP	23 16 31.3
			ipP	23 16 41.0
		Ki	iP	23 16 30.7
			ipP	23 16 42.5
		(cont.)		

1974 June	2	(cont.)		
		Sk	iP	23 16 17.1
			ipP	23 16 28.1
		Um	ipP	23 16 43.9
		Ud	iP	23 16 19.9
			ipP	23 16 29.9
		De	iP	23 16 22.2
			ipP	23 16 33.6
		Colombia.		
		h = 40 km (Up,Ki,Sk,Ud,De).		
"	3	Um	iP	03 09 16.1
		Ud	iP	03 09 09.7
		De	iP	03 08 46.8
"	3	Ud	iPKPl	06 04 26.7
"	3	Up	iP	11 53 09.8
			ipP	11 53 33.9
			iPP	11 54 43.8
				micr sec
			pP Z'	0.2 1.3
			PP Z'	0.3 1.5
			Mx N	1.0 12
		Ki	eP	11 53 17
			iPP	11 54 54.1
				micr sec
			P Z'	0.1 1.0
			PP Z'	0.1 1.3
			Mx E	0.5 8
			Mx N	0.8 11
			Mx Z	0.8 10
		Sk	iP	11 53 35.4
			ipP	11 54 00.0
			iPP	11 55 20.4
		Um	iP	11 53 07.1
			ipP	11 53 31.8
			iPP	11 54 44.6
		Ud	iP	11 53 26.0
			ipP	11 53 50.6
			iPP	11 55 05.1
		De	iP	11 53 22.2
			ipP	11 53 47.8
			isP	11 54 00.5
			iPP	11 54 59.9
		Afghanistan-USSR.		
		h = 120 km (Up,Sk,Um,Ud,De).		
		m = 5.6, M = 5.0 (Up,Ki).		
		M uncorrected for focal depth.		
"	3	Um	iSgl	12 16 48.3
		Ud	eSgl	12 17 33
		Western USSR.		
		Explosion.		
"	3	Up	iP	15 14 32.0
		Ud	eP	15 14 50

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

1974 June	3	Up	iPKP1	23 07 50.9	
		Ud	iPKP1	23 07 52.7	
		De	iPKP1	23 08 02.6	
"	3	Up	iP	23 42 52.3	C
		Ki	iP	23 42 56.1	
		Sk	iP	23 43 14.7	
			iPP	23 44 52.6	
		Um	iP	23 42 49.2	
		Ud	iP	23 43 08.2	C
			iPP	23 44 41.2	
		De	iP	23 43 06.7	
		Tadzhik SSR (h = 60 km).			
"	4	Ud	iP	02 25 17.7	
"	4	Ud	iPKP1	02 38 12.1	
		De	iPKP1	02 38 22.8	
"	4	Ud	iP	03 14 51.5	
		Kurile Islands.			
"	4	Up	i(PKP)	04 32 48.5	
			iPKP	04 33 02.1	
			iPP	04 35 37.2	
			iSKP1	04 36 08.0	
				micr	sec
			PKP Z'	0.2	1.2
			PP Z'	1.0	2.0
			SKP1 Z'	1.2	2.0
			Mx E	5.2	26
			Mx N	3.7	25
			Mx Z	4.5	25
		Ki	i(PKP)	04 32 38.2	
			iPKP	04 32 49.2	
			iPP	04 34 47.5	
				micr	sec
			PKP Z'	0.5	1.3
			PP Z'	0.8	2.5
			Mx E	3.3	19
			Mx N	3.9	21
			Mx Z	2.4	20
		Sk	i(PKP)	04 32 45.6	
			iPKP	04 32 58.8	
			iPP	04 35 20.6	
			iSKP1	04 36 00.9	
		Um	i(PKP)	04 32 42.2	
			iPKP	04 32 56.0	
			ipPKP	04 34 13.8	
			iPP	04 35 11.1	
			iSKP1	04 35 53.2	
		Ud	i(PKP)	04 32 48.9	
			iPKP	04 33 05.6	
			iPP	04 35 41.1	
			iSKP1	04 36 11.5	
		De	i(PKP)	04 33 00.7	
			iPKP	04 33 13.3	
		(cont.)			
1974 June	4	(cont.)			
		De	ipPKP	04 34 31.0	
			iSKP1	04 36 21.6	
		Tonga Islands.			
		h = 310 km (Um,De).			
		m = 6.5, M = 6.2 (Up,Ki).			
		M uncorrected for focal depth. Unusually large surface waves for this focal depth.			
"	4	Up	iP	04 45 11.5	
		Ki	iP	04 45 13.1	
			i	04 45 41.9	
		Um	iP	04 45 00.5	
			i(P)	04 45 38.2	
"	4	Ud	iPKP1	04 53 08.7	
"	4	Ki	iP	04 56 08.2	
		Um	iP	04 55 48.8	
"	4	Up	iP	05 08 59.1	
		Ki	iP	05 08 22.5	
		Um	iP	05 08 41.9	
		Ud	iP	05 08 59.5	
		Following NORSAR, these phases may be SKP.			
"	4	Um	iP	09 37 58.3	
"	4	Up	iSn	11 25 50.3	
			iSgl	11 26 01.5	
		Ki	iSgl	11 28 32.1	
		Sk	iSgl	11 27 48.5	
		Um	iSgl	11 26 33.3	
		Ud	iSgl	11 27 03.6	
		Esthonia.			
		Explosion.			
"	4	Ud	iPKP1	11 48 06.9	
		De	iPKP1	11 48 17.9	
		Tonga-Kermadec Islands (h = 620 km).			
"	4	Ki	iSgl	13 05 53.5	
		Sk	iSgl	13 04 59.7	
		Um	iSgl	13 03 48.5	
		Esthonia.			
		Explosion.			
"	4	Up	iP	13 05 10.5	
"	4	Ud	iP	14 24 00.5	
		Ionian Sea.			
"	4	Um	iSgl	14 45 00.7	
		Lake Ladoga region.			
		Explosion.			

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

1974 June	4	Ud	iP		15 16 25.2	
"	4	Up	eP		15 24 45	
		Ud	iP		15 24 35.7	
		North Atlantic Ocean (h = N).				
"	4	Up	i(P*)		23 14 32.0	
			iPgl		23 14 33.8	
			iSgl		23 15 05.3	
					micr sec	
			Sgl	Z'	0.2 0.6	
		Ki	iPgl		23 15 29.7	
			iSn		23 16 15.5	
			iS*		23 16 40.7	
			iSgl		23 16 44.5	
					micr sec	
			Sgl	Z'	0.1 0.6	
		Sk	i(P*)		23 14 31.4	
			iPgl		23 14 34.3	
			iS*		23 15 03.9	
			iSgl		23 15 06.5	
		Um	iPgl		23 14 23.1	C
			iSgl		23 14 48.4	
		Ud	iP*		23 14 38.2	
			iPgl		23 14 41.1	
			iSn		23 15 03.4	
			iS*		23 15 17.8	
			iSgl		23 15 19.3	
		De	iSn		23 16 29.9	
			i		23 16 35.3	
			iS*		23 16 56.9	
			iSgl		23 17 00.5	
		Medelpad, Sweden, 62.3°N, 17.2°E. Origin time = 23 13 51. Felt.				
"	5	Up	iP		00 12 22.8	
			i		00 12 24.5	
					micr sec	
			P	Z'	0.1 1.0	
			Mx	E	0.6 13	
			Mx	N	1.5 17	
			Mx	Z	0.9 14	
		Ki	iP		00 12 08.8	
					micr sec	
			P	Z'	0.1 0.9	
			Mx	E	0.6 11	
			Mx	N	1.0 16	
		Sk	iP		00 12 36.2	
		Um	iP		00 12 12.0	
		Ud	iP		00 12 35.7	
		De	eP		00 12 42	
			i		00 12 47.6	
		Szechwan, China (h = N). m = 5.9, M = 5.4 (Up,Ki).				
"	5	Up	iP		00 50 28.1	
1974 June	5	Um	iPKP		02 05 34.5	
		Ud	iPKP		02 05 44.0	
		New Britain (h = 50 km).				
"	5	Up	iPKP		05 39 07.2	
		Ki	iPKP		05 38 53.0	C
		Sk	iPKP		05 39 05.2	C
		Um	iPKP		05 38 59.9	
		Ud	iPKP		05 39 09.2	C
		De	iPKP		05 39 16.4	
		New Hebrides Islands (h = 160 km).				
"	5	Ud	iPKP1		08 37 06.6	
		De	iPKP1		08 37 17.1	
		Fiji Islands (h = 350 km).				
"	5	Up	iSgl		11 17 17.0	
		Ki	iSgl		11 19 50.7	
		Um	iSgl		11 17 50.7	
		Ud	iSgl		11 18 23.4	
		De	iSgl		11 18 50.4	
		Esthonia. Explosion.				
"	5	Ud	iPKP2		12 04 57.7	
		Macquarie Islands (h = N).				
"	5	Um	iP		12 36 56.1	
		Ud	iP		12 37 26.0	
		Japan (h = 40 km).				
"	5	Up	iP		12 40 53.0	
			i		12 40 56.1	
		Ki	iP		12 40 37.1	
					micr sec	
			P	Z'	0.1 0.9	
		Sk	iP		12 41 04.4	
		Um	iP		12 40 40.9	
			i		12 40 43.2	
		Ud	iP		12 41 06.0	
			i		12 41 08.6	
		Szechwan, China (h = N). Double P, average separation 2.7 sec.				
"	5	Um	iSgl		14 23 12.1	
		Ud	iSgl		14 23 58.4	
		De	iSgl		14 24 19.3	
		Western USSR. Explosion.				
"	5	Ud	iPKP		22 20 06.2	
		Tonga Islands (h = N).				
"	6	Ud	iP		07 08 44.8	
"	6	Ki	iPn		07 28 32.3	
		Northwest USSR. Explosion.				

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

1974 June	6	Up	i(P)			08 29 40.9	
		Sk	iP			08 29 30.7	
"	6	Up	Mx			13 05	
						micr	sec
			Mx	E		0.8	15
			Mx	N		2.3	16
			Mx	Z		1.8	15
		Ki	Mx			13 06	
						micr	sec
			Mx	E		0.8	12
			Mx	N		0.7	13
			Mx	Z		0.8	12
		Northeast China (h = N).					
		M = 5.2 (Up,Ki).					
"	6	Um	iSgl			15 19 54.8	
		Esthonia.					
		Explosion.					
"	6	Up	iP			17 12 42.7	
		Ki	iP			17 11 55.9	
		Um	iP			17 12 17.4	
		Ud	iP			17 12 48.0	
		Kurile Islands (h = N).					
"	6	De	iPKPl			17 29 27.1	
		Fiji Islands (h = 570 km).					
"	6	Um	i(Sgl)			17 41 51.5	
"	6	Up	iSP			18 44 13	
						micr	sec
			Mx	E		1.5	25
			Mx	N		3.2	25
			Mx	Z		4.2	25
		Ki				micr	sec
			Mx	E		3.6	22
			Mx	N		3.9	21
			Mx	Z		4.9	24
		New Ireland (h = 35 km).					
		M = 6.0 (Up,Ki).					
"	6	Up	iP			18 47 57.5	
			i			18 48 10.4	
						micr	sec
			P	Z'		0.1	1.0
		Ki	iP			18 48 21.4	
						micr	sec
			P	Z'		0.1	1.3
		Sk	iP			18 48 23.0	
		Um	iP			18 48 05.9	
		Ud	iP			18 48 08.9	
		Indian Ocean (h = N).					
		m = 5.9 (Up,Ki).					

1974 June	6	Up	iP			19 10 49.2	C
			ipP			19 11 35.3	
			iPP			19 12 25.7	
						micr	sec
			P	Z'		0.4	1.1
			PP	Z'		0.2	1.2
		Ki	iP			19 10 58.2	C
			ipP			19 11 43.9	
						micr	sec
			P	Z'		0.4	1.1
		Sk	iP			19 11 14.5	C
			iPP			19 13 00.7	
		Um	iP			19 10 47.9	C
			iPP			19 12 21.6	
		Ud	iP			19 11 05.6	C
			ipP			19 11 52.3	
			iPP			19 12 47.3	
		De	iP			19 11 01.7	C
			iPP			19 12 41.3	
		Hindu Kush.					
		h = 230 km (Up,Ki,Ud).					
		m = 5.8 (Up,Ki).					
"	6	Ki	iP			21 37 57.6	
		Nicobar Islands.					
"	7	Up	iP			01 58 11.6	
"	7	Ki	iPn			03 10 12.0	
		Um	iP			03 09 12.1	
		Ud	iP			03 09 16.4	
		De	iPP			03 09 41.9	
		Caucasus (h = N).					
"	7	Ud	iP			03 16 27.7	
		Caucasus.					
"	7	Up	iP			04 19 34.0	
		Ki	iP			04 19 08.8	
		Ud	iP			04 19 45.9	
		Luzon-Formosa (h = 40 km).					
"	7	Up				micr	sec
			Mx	E		2.2	19
			Mx	N		3.8	21
			Mx	Z		5.7	21
		Ki				micr	sec
			Mx	E		3.7	21
			Mx	N		3.1	21
			Mx	Z		3.3	20
		Sk	iPKP			07 06 43.6	
		Tonga Islands (h = N).					
		M = 6.2 (Up,Ki).					
"	7	Ki	iSgl			10 25 54.7	
		Northwest USSR.					
		Explosion.					

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

1974 June	7	Um	iSgl		14 49 45.5	
		Esthonia.				
		Explosion.				
"	7	Up	eP		14 51 11	
			i		14 51 14.6	
			i		14 51 19.7	
		Sk	iP		14 51 52.5	
		Um	iP		14 51 46.5	
		Ud	iP		14 51 18.0	
		Greece-Albania (h = 35 km).				
"	7	Sk	i(Sgl)		14 54 42.9	
		Ud	i(Sgl)		14 53 45.2	
		De	i(Sgl)		14 52 15.0	
"	7	Um	iSgl		16 25 04.2	
		Esthonia.				
		Explosion.				
"	7	Ki	iPgl		17 31 28.0	
			iSg2		17 31 32.7	
			iRg		17 31 35.2	
		Um	iSgl		17 33 22.7	
		Swedish Lapland, 67.7°N, 21.2°E.				
		Origin time = 17 31 22.				
		Shallow event, possibly explosion.				
		By combination with Tromsoe reading.				
"	7	Up	iP		18 01 15.2	C
			ipP		18 01 25.7	
					micr	sec
			P	Z'	0.1	1.1
		Ki	iP		18 00 22.0	
			ipP		18 00 33.0	
					micr	sec
			P	Z'	0.1	0.8
		Sk	iP		18 00 52.6	
		Um	iP		18 00 48.3	
			ipP		18 00 59.2	
		Ud	iP		18 01 14.3	
			ipP		18 01 25.0	
		De	iP		18 01 35.9	
			ipP		18 01 47.2	
		Aleutian Islands.				
		h = 40 km (Up,Ki,Um,Ud,De).				
		m = 6.0 (Up,Ki).				
"	7	Ki	iPn		19 07 06.4	
			iSn		19 07 53.4	
			iSgl		19 08 08.3	
		Um	iSgl		19 09 41.0	
		USSR-Norway.				
		Explosion.				
1974 June	7	Up	iPKPl		22 47 24.3	
		Um	iPKPl		22 47 13.2	
		Ud	iPKPl		22 47 25.6	
		De	iPKPl		22 47 36.7	C
		Tonga-Kermadec Islands (h = 280 km).				
"	7	Up	iP		23 01 53.2	
			iSKS		23 12 17	
					micr	sec
			Mx	E	2.7	23
			Mx	N	2.3	25
			Mx	Z	5.3	24
		Ki	iP		23 01 51.3	
			eSKS		23 12 13	
					micr	sec
			P	Z'	0.1	2.0
			Mx	E	3.3	21
			Mx	N	3.7	23
			Mx	Z	2.9	22
		Um	iP		23 01 55.1	
			iSKS		23 12 21	
		Ud	iP		23 01 44.2	
		South of Panama (h = N).				
		M = 5.8 (Up,Ki).				
"	7	Up	i(P)		23 29 24.7	
"	8	Up	iP		03 18 45.3	
		Ki	iP		03 17 57.5	
		Um	iP		03 18 19.2	
		Ud	iP		03 18 51.1	
		Kurile Islands (h = 260 km).				
"	8	Up	iP		08 49 25.4	
		Ud	iP		08 49 38.8	
"	8	Up	iP		10 49 10.5	
		Ki	iP		10 49 08.8	
		Ud	iP		10 49 19.6	
		Sunda Strait (h = 60 km).				
"	8	Ki	eSn		12 17 26	
			iSgl		12 17 54.1	
		Sk	eSgl		12 20 24	
		Um	iSgl		12 18 49.5	
		Northwest USSR.				
		Explosion.				
"	8	Ki	iP		12 30 11.7	
		Um	iP		12 30 27.2	
		Ud	iP		12 30 54.8	
		Japan (h = 35 km).				
"	8	Up	iPKPl		12 54 46.5	
		Um	iPKP		12 54 42.0	
		(cont.)				

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

1974
June 8 (cont.)

Ud	iPKPl	12 54 48.7	
De	iPKPl	12 54 58.9	

Tonga-Kermadec Islands
(h = 520 km).

" 8

Up	i	14 35 15.0	
	iSgl	14 35 17.4	
Sk	iSgl	14 36 10.8	
Um	iSgl	14 36 57.8	
Ud	iPgl	14 34 12.5	
	i	14 34 26.0	
	iSgl	14 34 26.9	
De	iSgl	14 35 19.7	

Värmland-Dalsland, Sweden,
59.1°N, 12.5°E.
Origin time = 14 33 55.

" 8

Ki	iPn	14 46 11.9	
	iSn	14 47 00.8	
	iSgl	14 47 17.3	
Sk	eSgl	14 50 01	
Um	iSgl	14 48 43.9	

USSR-Norway.
Explosion.

" 8

			micr	sec
Up				
	Mx	E	0.5	17
	Mx	N	0.5	17
	Mx	Z	1.3	19
Ki			micr	sec
	Mx	E	0.8	17
	Mx	N	0.6	16
	Mx	Z	0.8	18
De	iPKP		17 34 18.6	

Solomon Islands (h = N).
M = 5.5 (Up,Ki).

" 8

Up	iP	20 48 50.3	
	ipP	20 49 01.3	
Ki	iP	20 48 08.3	
Um	iP	20 48 25.9	
	ipP	20 48 37.7	
Ud	iP	20 48 57.1	
	ipP	20 49 09.3	

Japan.
h = 45 km (Up,Um,Ud).

" 8

Up	iPKP	21 45 14.2	
Um	iPKP	21 45 07.7	
Ud	iPKP	21 45 17.2	
De	iPKP	21 45 22.8	

Solomon Islands (h = 45 km).

" 8

Up	iPKP	22 14 57.7	
Ki	iPKP	22 14 44.8	

(cont.)

1974
June 8 (cont.)

Sk	iPKP	22 14 56.0	
Um	iPKP	22 14 49.7	
Ud	iPKP	22 14 59.7	
De	iPKP	22 15 05.5	

Solomon Islands (h = 35 km).

" 9

Ud	iPKPl	02 25 41.1	

" 9

Ud	iPKP	03 20 51.9	

Samoa Islands (h = N).

" 9

Ki	iP	04 10 08.0	
Um	iP	04 10 35.3	
Ud	iP	04 11 01.1	

Aleutian Islands (h = 50 km).

" 9

Um	iP	06 13 17.7	
	ipP	06 13 28.3	

Aleutian Islands.
h = 40 km (Um).

" 9

Ki	iSn	06 49 04.7	
Um	iSgl	06 50 14.6	

Northwest USSR.
Explosion.

" 9

Up	eSgl	07 42 39	
Ki	iPn	07 38 23.1	
	iSn	07 39 21.2	
	iSgl	07 39 44.9	
Sk	iSn	07 41 16.5	
	iSgl	07 42 06.5	
Um	iSn	07 40 00.1	
	i	07 40 15.4	
	i	07 40 32.6	
	iSgl	07 40 36.4	
Ud	iS*	07 42 57.5	
	iSgl	07 43 11.3	

Northwest USSR.
Explosion.

" 9

Ki	iP	11 52 43.0	
Sk	iP	11 52 36.7	
Um	iP	11 52 50.9	
Ud	iP	11 52 44.5	

" 9

Up	eP		14 29 40	
			micr	sec
	Mx	E	1.0	20
	Mx	N	0.7	20
	Mx	Z	0.9	21
Ki	eP		14 29 42	
			micr	sec
	Mx	E	1.4	22
Sk	iP		14 29 29.2	
Um	iP		14 29 44.8	

(cont.)

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

1974 June	9	(cont.)			
		Um	i	14 29 54.6	
		Ud	iP	14 29 32.0	
		Peru (h = 50 km).			
		M = 5.5 (Up,Ki).			
"	9	Up	iPKPl	16 16 03.3	
		Ud	iPKPl	16 16 05.7	
"	9	Up	iPKPl	21 20 45.3	
		Um	iPKP	21 20 42.8	
		Ud	iPKPl	21 20 46.7	
		De	iPKPl	21 20 57.6	
"	10	Ki	iP	04 48 09.3	
		Um	iP	04 48 12.5	
		Celebes (h = 130 km).			
"	10	Up	iP	05 14 26.2	
			i	05 14 29.2	
				micr	sec
			P Z'	0.1	1.1
		Ki	iP	05 15 49.0	
			i	05 15 54.4	
		Sk	eP	05 15 18	
			i	05 15 22.2	
		Um	iP	05 15 06.5	
			i	05 15 11.5	
		Ud	iP	05 14 43.0	
			i	05 14 46.6	
		De	eP	05 14 06	
			i	05 14 09.3	
		Rumania (h = 170 km).			
		Double P, suggesting a double event with a slight shift in hypocenter.			
"	10	Ud	iP	07 46 36.3	
		California (h = 20 km).			
"	10	Ki	iP	09 06 48.4	
		Sk	iP	09 07 25.2	
		Um	iP	09 07 10.6	
		Ud	iP	09 07 41.3	
		De	iP	09 08 00.3	
		Kurile Islands (h = N).			
"	10	Up	iP	10 27 19.2	
		North Atlantic Ocean (h = N).			
"	10	Sk	eSgl	12 19 28	
		Um	iSgl	12 18 00.0	
		Ud	iSgl	12 18 41.5	
		Western USSR.			
		Explosion.			
"	10	Up	iP	14 45 08.0	
		(cont.)			

1974 June	10	(cont.)			
		Ki	iP	14 44 13.9	
		Sk	iP	14 44 43.3	
		Um	iP	14 44 41.7	
		Ud	iP	14 45 05.6	
		De	iP	14 45 29.3	
		Alaska (h = 10 km).			
"	10	Ki	eSn	17 12 51	
			iS*	17 13 10.7	
		Sk	iSgl	17 15 40.6	
		Northwest USSR.			
		Explosion.			
"	10	Up	iSgl	19 10 36.7	
		Ki	iPgl	19 07 55.5	
			i	19 08 06.5	
			i	19 08 31.8	
			iSgl	19 08 32.4	
				micr	sec
			Sgl Z'	0.1	0.7
		Sk	iPgl	19 06 58.8	
			iS*	19 08 35.9	
			iSgl	19 08 40.0	
		Um	iSn	19 08 45.2	
			iSgl	19 09 00.0	
		Ud	iSgl	19 10 25.3	
		De	iSgl	19 12 20.4	
		Nordland, Norway, 66.5°N, 14.3°E.			
		Origin time = 19 07 08.			
		Explosion.			
"	10	Up	iSKPl	19 24 59.1	
			i	19 25 03.7	
				micr	sec
			SKPl Z'	0.1	1.0
		Sk	iSKPl	19 24 52.0	
		Um	iSKPl	19 24 45.1	
		Ud	iSKPl	19 25 02.2	
		De	iSKPl	19 25 11.6	
		New Hebrides Islands (h = 180 km).			
"	11	Um	iP	00 10 08.6	
"	11	Ki	iP	02 13 10.7	
		Sk	iP	02 12 44.8	
		Ud	iP	02 12 13.7	
		De	iP	02 11 43.2	
		East of Crete (h = 45 km).			
"	11	Up	iP	06 27 00.1	
		Ud	iP	06 27 17.2	
"	11	Ki	iP	11 45 41.4	
		Ceram (h = N).			

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

1974 June	11	Um	iSgl	12 21 06.7	
		Western USSR.			
		Explosion.			
"	11	Ud	iP	12 52 15.1	
		Nevada (h = 20 km).			
"	11	Up	iSgl	13 07 05.9	
		Ki	iSgl	13 09 22.6	
		Sk	e	13 09 01	
		Um	iSgl	13 07 24.6	
		Ud	iSgl	13 08 07.0	
		De	iSgl	13 08 31.5	
			iSg2	13 08 41.9	
		Western USSR.			
		Explosion.			
"	11	Up	iSn	13 29 25.5	
			iSgl	13 29 37.6	
		Ki	iSgl	13 32 09.6	
		Sk	iSgl	13 31 33.6	
		Um	iSgl	13 30 12.9	
		Ud	iSgl	13 30 45.9	
		De	iSgl	13 31 03.2	
			iSg2	13 31 18.4	
		Esthonia.			
		Explosion.			
"	11	Up	iP	14 57 23.6	
			i	14 57 31.8	
		Ud	iP	14 57 38.4	
		De	iP	14 57 51.3	
"	11	Up	iP	20 31 40.4	
		Um	iPcP	20 31 48.6	
		Ud	iP	20 31 40.3	
		De	iP	20 32 02.4	
		Aleutian Islands (h = 60 km).			
"	11	Up	iPKPl	22 34 56.4	
			i	22 35 03.6	
				micr	sec
			PKPl Z'	0.1	1.0
			Mx N	1.0	23
			Mx Z	1.6	23
		Ki		micr	sec
			Mx E	0.9	20
			Mx N	1.0	21
			Mx Z	1.2	20
		Sk	iPKPl	22 34 50.2	
			i	22 34 57.2	
		Um	iPKPl	22 34 47.8	
		Ud	iPKPl	22 34 58.0	
			i	22 35 04.5	
		De	iPKPl	22 35 07.0	
			i	22 35 14.0	
		Kermadec Islands (h = 15 km).			
		M = 5.7 (Up,Ki).			
		(cont.)			

1974 June	11	(cont.)			
		Double onsets, smaller and larger, in average separated by 6.9 sec.			
"	12	Up	iP	00 46 16.5	
			i	00 46 56.2	
"	12	Ud	iP	03 24 56.0	
		Mindanao (h = 290 km).			
"	12	Um	iP	10 26 17.3	
			i	10 26 25.4	
		Ud	iP	10 26 13.3	
		De	iP	10 25 38.3	
		Jordan-Syria (h = N).			
"	12	Ki	iPn	12 03 41.6	
			iPgl	12 03 50.1	
			iSn	12 04 30.0	
			iSgl	12 04 45.5	
		USSR-Norway.			
		Explosion.			
"	12	Um	iP	13 44 05.0	
		Ud	iP	13 44 37.2	
"	12	Ki	iX	13 59 48.9	
		Sk	eP	13 59 15	
			iX	13 59 50.9	
		Um	iP	13 59 23.9	
			iX	13 59 59.9	
		Mexico (h = 50 km).			
		X is probably P of another, somewhat larger event in the same region.			
"	12	Um	iP	15 24 17.0	
		Ud	iP	15 24 19.0	
"	12	Um	iSgl	16 06 45.0	
		Esthonia.			
		Explosion.			
"	12	Up	iP	16 13 13.0	
				micr	sec
			Mx E	0.6	13
			Mx N	0.7	15
		Ki	iP	16 12 59.5	
			iS	16 16 15	
				micr	sec
			Mx E	0.8	11
			Mx N	1.1	15
			Mx Z	0.7	13
		Sk	iP	16 12 29.2	
		Um	iP	16 13 07.8	
		Ud	iP	16 12 55.0	
		(cont.)			

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

1974
June 12 (cont.)
Iceland (h = 15 km).
M = 4.3 (Up,Ki).
Our readings exhibit rather large positive residuals compared to the NEIS solution.

"	12	Ki	iP		16 29 08.6
		Sk	iP		16 29 26.1
		Um	iP		16 29 02.7
		Ud	iP		16 29 26.1

Andaman Islands.

"	12	Up	iP		16 37 35.3
			iS		16 47 12
				micr	sec
			Mx	E 2.7	20
			Mx	N 2.2	18
			Mx	Z 5.1	21
		Ki	iP		16 37 43.4
			iS		16 47 30
				micr	sec
			P	Z' 0.1	0.8
			Mx	E 3.6	22
			Mx	N 4.7	22
			Mx	Z 3.1	18
		Sk	iP		16 37 23.7
		Um	iP		16 37 43.1
			iS		16 47 31
		Ud	iP		16 37 24.3
		De	iP		16 37 23.6

Venezuela (h = 35 km).
M = 5.8 (Up,Ki).

"	12	Ki	iP	16 56 35.6 C
		Sk	eP	16 57 07
			iPcP	16 57 40.4
		Um	iP	16 57 02.3
			iPcP	16 57 37.9
		Ud	iP	16 57 27.8 C
		De	iP	16 57 50.9

Aleutian Islands (h = 45 km).

"	12	Ki	iP	17 19 01.7
		Sk	iP	17 19 21.4
			i	17 19 28.0
		Um	iP	17 19 01.1
		Ud	iP	17 19 18.6

Burma.

"	12	Up	iP		17 59 24.2
			i		18 00 27.1
				micr	sec
			P	Z' 0.7	2.0

(cont.)

1974
June 12 (cont.)

Up			micr	sec
	Mx	E	3.4	15
	Mx	N	7.1	15
	Mx	Z	5.0	17
Ki	iP		17 59 04.0	
			micr	sec
	P	Z'	0.5	1.5
	Mx	E	14	17
	Mx	N	18	16
	Mx	Z	8.9	17
Sk	iP		17 58 36.9	
	i		17 58 41.2	
Um	iP		17 59 16.2	
	i		17 59 20.6	
	iS		18 02 31	
Ud	iP		17 59 02.4	
	i		17 59 05.8	
De	iP		17 59 25.3	
	i		17 59 30.3	

Iceland (h = 15 km).
m = 5.4, M = 5.4 (Up,Ki).
Our readings exhibit rather large positive residuals compared to the NEIS solution, in addition to double onsets.

"	12	Ud	iP	18 48 39.1

Afghanistan-USSR
(h = 110 km).

"	12	Um	iPKP	19 45 52.4
			i	19 46 18.1

South Sandwich Islands
(h = N).

"	12	Um	iPKP	21 46 06.9

Solomon Islands (h = N).

"	12	Um	iP	22 59 54.2
"	13	Um	iP	00 23 52.8
		Ud	iP	00 24 10.6

Hindu Kush (h = 220 km).

"	13	Um	iP	07 17 43.5
"	13	Up	iPgl	08 10 04.9
			i	08 10 33.0
			iSgl	08 10 34.3
		Sk	eSgl	08 12 34
		Um	iSgl	08 11 38.9
		Ud	iSgl	08 11 37.1
		De	iSgl	08 12 11.6

(cont.)

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

1974 June	13	(cont.)		
		Baltic Sea, 59.6°N, 21.8°E.		
		Origin time = 08 09 27.		
		Explosion.		
"	13	Up	iPgl	08 10 50.3
			i	08 11 19.1
			iSgl	08 11 19.6
		Um	iSgl	08 12 23.5
		Ud	iSgl	08 12 21.4
		De	iSgl	08 12 57.0
		Baltic Sea, 59.6°N, 21.8°E.		
		Origin time = 08 10 12.		
		Explosion.		
"	13	Up	iSgl	10 33 11.0
		Um	iSgl	10 33 43.9
		Ud	iSgl	10 34 15.6
		De	iSgl	10 34 43.6
		Esthonia.		
		Explosion.		
"	13	Ud	i(P)	12 07 26.1
"	13	Sk	iP	12 09 38.5
		Um	iP	12 09 51.2
		Mexico (h = 100 km).		
"	13	Up	i	12 16 33.8
		Sk	eSgl	12 18 08
		Um	iSgl	12 16 40.2
			eRg	12 17 07
		Ud	iSgl	12 17 24.7
		De	eSgl	12 17 51
		Western USSR.		
		Explosion.		
"	13	Sk	i	13 04 01.3
			iSgl	13 04 05.0
		Um	iSgl	13 02 17.4
			iRg	13 02 47.9
		Ud	eSgl	13 03 41
		Probably Lake Ladoga region explosion.		
"	13	Sk	i(P)	13 43 35.8
			i	13 43 49.4
		Um	i(P)	13 44 23.5
"	13	Ki	iP	13 56 33.7
		Um	iP	13 56 37.4
		Mindanao (h = 55 km).		
"	13	Up	iSn	17 43 39.6
			iSgl	17 43 49.7
		(cont.)		

1974 June	13	(cont.)		
		Sk	e(S*)	17 44 35
		Ud	iPgl	17 42 39.4
			iSgl	17 42 59.0
			iRg	17 43 06.5
		De	iSgl	17 43 29.7
		Dalsland, Sweden,		
		58.8°N, 12.1°E.		
		Origin time = 17 42 14.		
		Near-surface event.		
"	13	Ud	iP	18 39 50.1
		De	iP	18 39 13.1
"	13	Up	iP	21 54 39.2
		Sk	iP	21 54 29.9
		Um	iP	21 54 39.6
		Caribbean Sea (h = N).		
"	14	Up	eP	00 47 03
		Um	iP	00 47 13.4
"	14	Ud	iP	06 34 38.5
		Kurile Islands.		
"	14	Sk	ePKPl	06 54 48
		Um	iPKPl	06 54 42.7
			ipPKPl	06 56 24.5
		Ud	iPKPl	06 54 55.0
		De	iPKPl	06 55 04.1
		Kermadec Islands.		
		h = 430 km (Um).		
"	14	Up	iPKPl	08 44 47.7
		Sk	iPKPl	08 44 36.7
		Um	iPKPl	08 44 32.4
		Ud	iPKPl	08 44 44.6
		De	iPKPl	08 44 53.4
		Kermadec Islands.		
"	14	Up	iSgl	11 42 20.0
		Ki	iPn	11 38 06.7
			iSn	11 39 05.7
			iS*	11 39 24.8
		Sk	eSn	11 41 02
			iSgl	11 41 55.2
		Um	iSn	11 39 44.4
			i	11 39 59.6
			iS*	11 40 13.7
		Ud	iSgl	11 42 53.4
		De	iSgl	11 44 22.4
		Northwest USSR.		
		Explosion.		
"	14	Up	iSgl	12 27 41.7
		Ki	iSgl	12 29 46.5
		(cont.)		

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

1974 June	14	(cont.)			
		Sk	iSgl	12 29 31.9	
		Um	iSgl	12 27 57.9	
		Ud	iSgl	12 28 39.2	
		De	e	12 28 43	
		Western USSR.			
		Explosion.			
"	14	Ki	iSn	12 46 36.0	
			iS*	12 46 48.7	
		Sk	eSgl	12 49 44	
		Um	iSgl	12 48 28.8	
		Ud	eSgl	12 50 56	
		USSR-Norway.			
		Explosion.			
"	14	Ki	iP	12 50 45.2	
		Java (h = 80 km).			
"	14	Up	iPKP	13 07 28.3	
		Ki	iPKP	13 07 12.2	
		Sk	iPKP	13 07 22.7	
		Um	iPKP	13 07 18.3	
		Ud	iPKP	13 07 28.3	
			iSKP1	13 10 39.3	
		De	iPKP	13 07 35.3	
			iSKP1	13 10 50.1	
		New Hebrides Islands			
		(h = 160 km).			
"	14	Um	iP	13 13 39.9	
"	14	Up	e(PKP)	13 43 41	
			iPKP	13 43 50.4	
				micr sec	
			PKP Z'	0.1 0.9	
		Ki	iPKP	13 44 03.4	
				micr sec	
			Mx E	0.9 20	
			Mx N	0.8 19	
		Sk	iPKP	13 43 53.7	
		Um	i(PKP)	13 43 49.3	
			iPKP	13 43 56.5	
		Ud	iPKP	13 43 47.7	
		De	iPKP	13 43 43.2	
		Scotia Sea (h = N).			
"	14	Um	iP	14 00 00.3	
		Ud	iP	14 00 32.1	
		Japan (h = 130 km).			
"	14	Um	iP	15 48 54.3	
		Celebes (h = 190 km).			
"	14	Ki	iP	18 00 47.3	
		Um	iP	18 00 38.2	
			ipP	18 01 06.1	
		Ud	iP	18 00 57.0	
		(cont.)			

1974 June	14	(cont.)			
		Ud	ipP	18 01 25.7	
		Afghanistan-USSR.			
		h = 140 km (Um,Ud).			
"	14	Ud	iP	18 15 22.6	
"	14	Up	iPKP1	18 57 33.6	
		Um	iPKP	18 57 25.8	
			i	18 57 33.9	
		Ud	iPKP1	18 57 35.4	
		De	iPKP1	18 57 46.7	
		Tonga-Kermadec Islands			
		(h = 600 km).			
"	14	Up	iRg	21 16 17.8	
		Ud	iRg	21 16 06.4	
		Central Sweden.			
"	14	Up	iP	21 19 59.2	
		Um	iP	21 19 40.6	
		Ud	iP	21 20 06.2	
"	14	Um	iP	22 11 45.0	
		Ud	iP	22 12 04.5	
"	15	Up	iP	00 57 15.4	
			iLgl	01 04 38	
				micr sec	
			P Z'	0.1 1.5	
			Mx E	0.7 13	
			Mx N	0.7 13	
			Mx Z	1.0 13	
		Ki	iP	00 57 54.6	
			iPn	00 58 27.6	
				micr sec	
			Mx E	0.6 14	
			Mx N	0.9 15	
			Mx Z	0.7 15	
		Sk	eP	00 58 00	
		Um	iP	00 57 27.8	
		Ud	iP	00 57 32.2	
		De	iP	00 57 18.7	
		Caucasus (h = 45 km).			
		M = 4.6 (Up,Ki).			
"	15	Um	iP	01 21 52.2	
		Ud	iP	01 22 12.2	
		Mindanao (h = 50 km).			
"	15	Up	iP	02 47 51.2	
			ipP	02 48 28.0	
			iX	02 48 33.7	
			eP'P'	03 16 05	
			i	03 16 09.3	
				micr sec	
			X Z'	0.3 1.0	
		Ki	iP	02 46 57.9	
		(cont.)			

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

1974
June 15 (cont.)

Ki	iX		02 47 39.2	
	iP'P'		03 16 28.0	
			micr	sec
	X	Z'	0.2	1.3
Sk	iP		02 47 30.9	
	iX		02 48 12.6	
	iP'P'		03 16 18.9	
Um	iP		02 47 23.8	
	ipP		02 48 00.5	
	iX		02 48 05.8	
	iP'P'		03 16 17.3	
Ud	iP		02 47 51.9	
	ipP		02 48 29.3	
	iX		02 48 34.2	
De	iP		02 48 14.8	
	iX		02 48 56.8	
	iP'P'		03 16 03.7	

Aleutian Islands.
h = 150 km (Up,Um,Ud).
X is probably P of another larger event in the same area, 42.0 sec later.

" 15

Ki	iP		03 42 34.0
Um	iP		03 42 11.3
Ud	iP		03 42 08.2

Gulf of Aden (h = N).

" 15

Um	iP		04 00 10.9
Ud	iP		04 00 38.8

Japan (h = 370 km).

" 15

Up	eP		04 03 06
Um	iP		04 03 17.6
Ud	iP		04 03 21.6

Caucasus.

" 15

Ki	iP		06 46 22.8

Mariana Islands (h = 430 km).

" 15/

Up	iP		07 13 31.9	C
			micr	sec
	P	Z'	0.2	1.1
	Mx	E	0.7	15
	Mx	N	1.0	14
	Mx	Z	0.9	12
Ki	iP		07 13 15.5	C
			micr	sec
	P	Z'	0.3	0.9
	Mx	E	1.7	12
	Mx	N	2.4	16
	Mx	Z	1.4	12
Sk	iP		07 13 42.0	C
Um	iP		07 13 19.3	C

(cont.)

1974
June 15 (cont.)

Ud	iP		07 13 44.0	C
De	iP		07 13 49.8	

Szechwan, China (h = 40 km).
m = 6.3, M = 5.5 (Up,Ki).

" 15

Up	iP		07 26 27.3	C
	i		07 26 30.9	
Ki	iP		07 26 10.7	
	i		07 26 13.3	
			micr	sec
	P	Z'	0.1	0.9
Sk	eP		07 26 38	
Um	iP		07 26 14.8	
	i		07 26 17.8	
Ud	iP		07 26 39.8	
De	iP		07 26 48.5	

Szechwan, China (h = N).
Double P, average separation = 3.1 sec.

" 15

Um	iP		09 42 02.9

" 15

Up	iSgl		09 52 49.8
Um	iSgl		09 53 24.4
Ud	i		09 53 25.6
	iSgl		09 53 45.9
De	iSn		09 53 49.2
	iSgl		09 54 23.6

Gulf of Finland.
Explosion.

" 15

Ki	eSgl		09 56 36
Um	iSgl		09 54 34.9
De	iS*		09 55 32.3
	iSgl		09 55 37.2

Gulf of Finland.
Explosion.

" 15

Up	iP		10 29 29.9	
	i		10 29 33.8	
			micr	sec
	P	Z'	0.1	0.8
Ki	iP		10 29 14.0	
	i		10 29 18.2	
			micr	sec
	P	Z'	0.1	0.9
	Mx	E	0.7	15
	Mx	N	0.5	14
	Mx	Z	0.6	14
Sk	iP		10 29 41.9	
	i		10 29 45.2	
Um	iP		10 29 17.3	
	i		10 29 21.1	
Ud	iP		10 29 43.1	

(cont.)

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

1974 June 15 (cont.)

Ud	i	10 29 46.8	
De	iP	10 29 48.7	
	i	10 29 52.5	

Szechwan, China (h = N). m = 6.0 (Up,Ki). Double P, small and large, average separation = 3.8 sec.

" 15

Ki	iSn	11 35 11.0	
	iSg2	11 35 30.6	
Sk	iSgl	11 37 53.1	
Um	iSn	11 35 52.0	
	iSgl	11 36 19.0	

USSR-Finland. Explosion.

" 15

Ki	iSgl	11 35 52.3	
Um	iSgl	11 36 48.8	

USSR-Finland. Explosion.

" 15

Ki	iPn	12 57 34.8	
	iSgl	12 58 40.1	
Um	eSgl	13 00 07	

USSR-Norway. Explosion.

" 15

Ki	iPn	12 58 02.6	
	iS*	12 59 04.5	
Um	iS*	13 00 29.8	
	iSgl	13 00 35.2	

USSR-Norway. Explosion.

" 15

Um	iSgl	13 12 50.8	

Karelian SSR. Explosion. From Helsinki regional bulletin.

" 15

Up	i(P)	14 17 20.3	

" 15

Up	iP	/	14 38 05.0	C
			micr	sec
	P	Z'	0.1	0.9
Ki	iP		14 37 48.3	
			micr	sec
	P	Z'	0.1	1.3
	Mx	N	0.6	16
Sk	iP		14 38 14.6	
Um	iP		14 37 52.2	C
Ud	iP		14 38 17.2	C
De	iP		14 38 23.0	

(cont.)

1974 June 15 (cont.)

Szechwan, China (h = 10 km). m = 5.9 (Up,Ki).

" 15

Ki	iSgl	17 14 21.4	
Sk	iSgl	17 14 52.6	
Um	iSgl	17 13 02.2	
Ud	iSn	17 13 50.7	
	iSgl	17 14 39.9	

Lake Ladoga region. Explosion.

" 16

Up	eP	01 32 12	

" 16

Ud	iP	02 42 15.7	
	i	02 42 22.1	

" 16

Ki	iSn	06 30 24.8	
Um	iSgl	06 31 44.1	

Northwest USSR. Explosion.

" 16

Sk	iP	09 09 45.7	
Um	iP	09 09 39.2	
Ud	iP	09 09 13.0	

Aegean Sea (h = N).

" 16

Ud	iP	11 14 50.1	

Kurile Islands.

" 16

Ud	i(P)	12 25 55.9	

" 16

Up	iP	12 28 23.2	
Um	iP	12 28 28.4	
Ud	iP	12 28 44.4	
De	iP	12 28 40.4	

" 16

Up	iPKPl	13 36 52.5	
Um	iPKP	13 36 44.7	
Ud	iPKP	13 37 02.3	
De	iPKPl	13 37 03.3	

Fiji Islands (h = 650 km).

" 16

Um	iP	22 08 22.0	

" 17

Um	iP	02 11 10.8	
Ud	iP	02 11 41.5	

Kurile Islands (h = N).

" 17

Up	iP	02 29 17.1	
Ki	iP	02 28 28.1	
Sk	iP	02 29 01.9	
Um	iP	02 28 51.4	
Ud	iP	02 29 22.3	
De	iP	02 29 41.9	

Kurile Islands (h = N).

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

1974 June	17	Ki	e	03 36 18	
			i	03 36 27.1	
			i(Sgl)	03 36 36.3	
"	17	Ki	ePn	05 13 06	
			iSgl	05 13 46.8	
			iSg2	05 13 52.8	
		Sk	iSgl	05 14 01.7	
		Um	iSgl	05 14 27.3	
		Coast of Nordland, Norway, near 66 3/4°N, 13°E. Origin time = 05 12 17.			
"	17	Up	iP	06 08 22.3	
				micr	sec
			Mx Z	0.4	13
		Ki		micr	sec
			Mx E	0.5	14
			Mx N	0.3	10
			Mx Z	0.5	11
		Sinkiang, China. Probably atmospheric explosion.			
"	17	Up	iP	07 29 53.2	
			iPP	07 31 07.9	
		Ki	iP	07 30 22.3	
				micr	sec
			Mx E	0.4	14
			Mx N	0.6	16
			Mx Z	0.5	14
		Sk	iP	07 30 24.8	
		Ud	iP	07 30 09.9	
			ipP	07 30 18.0	
		Iran. h = 40 km (Ud).			
"	17	Up	i(Sgl)	12 17 33.1	
		Ud	i(Sgl)	12 17 03.9	
		De	i(Sgl)	12 17 24.1	
"	17	Ud	iP	12 23 25.6	
		Hindu Kush. Intermediate depth.			
"	17	Up	iSgl	14 15 40.9	
		Sk	eSgl	14 17 28	
		Um	iSgl	14 16 01.6	
		Ud	iSgl	14 16 49.7	
		Western USSR. Explosion.			
"	17	Ki	iSgl	15 31 28.8	
		Sk	iSgl	15 29 26.9	
			iRg	15 29 36.0	
		Um	iSgl	15 31 03.0	
		(cont.)			

1974 June	17	(cont.) Off west coast of Norway, near 64 1/2°N, 10°E. Origin time = 15 28 38.			
"	17	Up	iP	16 47 40.1	
		Ki	iP	16 46 57.7	C
		Sk	iP	16 47 32.7	C
		Um	iP	16 47 16.8	C
		Ud	iP	16 47 47.1	C
		De	iP	16 48 03.8	
		Japan (h = 60 km).			
"	17	Ud	iPKP1	18 57 32.9	
		De	iPKP1	18 57 45.1	
"	17	Up	iP	19 30 33.0	
		Ud	iP	19 30 41.6	
		Ionian Sea (h = N).			
"	17	Up	iP	22 04 02.8	
		Ki	iP	22 03 09.7	
		Sk	iP	22 03 42.4	
		Um	iP	22 03 35.8	C
		Ud	iP	22 04 03.5	
		De	iP	22 04 25.6	
		Aleutian Islands (h = 190 km).			
"	18	Ud	iP	00 13 50.6	
		Iran (h = 50 km).			
"	18	Up	iP	00 30 30.2	
"	18	Up	eSgl	00 33 16	
		Um	iSgl	00 34 01.3	
		De	eSgl	00 34 58	
		Gulf of Finland. Explosion.			
"	18	Up	i(P)	02 24 11.4	
			i	02 24 24.3	
"	18	Up	eSgl	02 42 57	
		Um	iSgl	02 43 41.2	
		De	eSgl	02 44 36	
		Gulf of Finland. Explosion.			
"	18	Um	iPKP1	07 55 44.9	
		Ud	iPKP1	07 55 56.7	
"	18	Up	iP	08 30 59.1	C
			iPP	08 31 27.6	
				micr	sec
			P Z'	0.1	0.8
		(cont.)			

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

1974 June	18	(cont.)					
		Up			micr	sec	
			Mx	E	0.4	9	
			Mx	N	0.8	11	
			Mx	Z	1.3	12	
		Ki			micr	sec	
			Mx	E	1.2	16	
			Mx	N	0.9	13	
			Mx	Z	0.8	12	
		Sk	iP		08 31 39.9		C
		Um	iP		08 31 38.1		
			iS		08 36 02		
		Ud	iP		08 31 04.9		C
		De	iP		08 30 28.6		
			i		08 30 39.0		
		Greece (h = N).					
		M = 4.7 (Up,Ki).					
"	18	Up	iPKPl		08 50 10.4		
			iSKPl		08 53 03.7		
					micr	sec	
			PKPl	Z'	0.1	0.7	
		Ki	iSKPl		08 52 44.7		
		Sk	iPKPl		08 50 04.7		
		Um	iPKP		08 50 04.3		
			iSKPl		08 52 54.5		
		Ud	iPKPl		08 50 12.0		
			iSKPl		08 53 07.1		
		De	iPKPl		08 50 22.6		
			ipPKPl		08 52 23.5		
		Tonga-Kermadec Islands.					
		h = 530 km (De).					
"	18	Up	iPKPl		11 11 14.5		
		Sk	ePKPl		11 11 04		
			i		11 11 16.1		
		Ud	iPKPl		11 11 16.6		
"	18	Ki	eSgl		11 44 34		
		Um	iSgl		11 42 34.4		
		Ud	eSgl		11 43 05		
		Esthonia.					
		Explosion.					
"	18	Up	iSgl		12 13 16.0		
		Um	i		12 13 24.3		
			iSgl		12 13 38.3		
		De	i		12 14 25.7		
		Western USSR.					
		Explosion.					
"	18	Up	eSgl		12 14 20		
		Um	eSgl		12 14 39		
			eRg		12 15 05		
		Ud	iSgl		12 15 19.9		
		De	eSgl		12 15 46		
		Western USSR.					
		Explosion.					
1974 June	18	Up	iP		12 54 55.5		
		De	iP		12 55 31.3		
"	18	Up	iSgl		13 02 06.4		
		Ki	iSgl		13 04 58.4		
		Sk	iSgl		13 04 01.7		
		Um	iSgl		13 02 54.1		
		Ud	iSgl		13 03 06.8		
		De	iSgl		13 03 32.3		
		Esthonia.					
		Explosion.					
"	18	Um	iP		13 55 24.8		
		Ud	iP		13 55 55.7		
		Japan (h = 80 km).					
"	18	Up	iRg		14 54 10.8		
		Ud	iRg		14 54 22.5		
		Central Sweden.					
"	18	Up	iP		15 02 16.3		
"	18	Ki	iSgl		18 59 22.3		
		Sk	iSgl		19 00 37.2		
		Um	iSgl		19 00 02.0		
		Swedish Lapland,					
		66.5°N, 18.5°E.					
		Origin time = 18 58 34.					
"	18	Up	iP		20 34 55.6		
		Ki	iP		20 34 38.8		
		Um	iP		20 34 44.6		
		Ud	iP		20 35 04.3		
		Mindanao (h = N).					
"	18	Um	iP		21 08 55.7		
"	19	Up	i(pP)		02 19 49.9		
		Ki	iP		02 19 36.7		
		Um	iP		02 19 33.5		
			i(pP)		02 19 52.0		
		Ud	iP		02 19 46.1		
		De	iP		02 19 44.4		
		Nicobar Islands.					
"	19	Um	iP		03 09 13.3		
		Indian Ocean (h = N).					
"	19	Up	iP		03 18 46.6		C
					micr	sec	
			Mx	E	1.0	18	
			Mx	N	0.8	17	
			Mx	Z	0.9	17	
		Ki	iP		03 17 47.5		
			i		03 18 31.6		
		(cont.)					

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

1974 June	19	(cont.)				
		Ki			micr	sec
			Mx	E	1.8	20
			Mx	N	1.7	22
			Mx	Z	1.1	18
		Sk	iP		03 18 28.8	
		Um	iP		03 18 15.2	
			i		03 18 54.0	
		Ud	iP		03 18 50.1	
		De	iP		03 19 14.8	
		Eastern Siberia (h = N).				
		M = 5.1 (Up,Ki).				
"	19	Up	iP		07 08 39.2	
		Ud	iP		07 08 45.2	
		De	iP		07 08 13.0	
		Greece.				
"	19	Ud	iP		07 24 58.8	
"	19	Ud	iP		07 42 03.4	
		Hindu Kush.				
		Intermediate depth.				
"	19	Ki	iP		11 45 05.9	
		Sk	iP		11 45 35.9	
		Um	iP		11 45 33.0	
		Ud	iP		11 45 57.6	
		De	iP		11 46 20.6	
		Unimak Island (h = N).				
"	19	Ki	eSgl		12 14 29	
		Um	iSgl		12 12 36.4	
		Ud	iSgl		12 13 20.8	
		Western USSR.				
		Explosion.				
"	19	Ud	iP		12 28 05.9	
"	19	Up	iP		16 11 48.7	
		Ki	iP		16 11 14.1	
		Sk	iP		16 11 22.6	
		Um	iP		16 11 34.0	
		Ud	iP		16 11 40.5	
		Nevada.				
		Underground explosion?				
"	19	Sk	eSgl		16 37 39	
		Ud	i		16 37 16.1	
			iSgl		16 37 24.9	
		Off coast of southwest Norway, 60.2°N, 4.4°E.				
		Origin time = 16 34 59.				
		By combination with Kongsberg readings.				

1974 June	19	Ki	iP		17 38 10.2	
		Kamchatka (h = N).				
"	19	Ud	iPKP1		18 11 30.9	
"	19	Up	iP		19 03 41.2	
		Ki	iP		19 03 49.8	
		Sk	iP		19 04 06.9	
		Ud	iP		19 03 57.6	
		De	iP		19 03 54.6	
		Hindu Kush.				
		Intermediate depth.				
"	19	Up	iP		19 33 24.1	
			i		19 33 29.3	
		Sk	iP		19 32 57.6	
		Um	iP		19 33 05.6	
		Ud	iP		19 33 17.3	
		California (h = N).				
"	19	Ud	iP		20 14 10.3	
"	19	Up	iP		21 25 51.9	
			ipP		21 27 34.6	
		Ki	iP		21 25 18.6	
		Sk	iP		21 25 48.9	
		Um	iP		21 25 33.3	
		Ud	iP		21 25 59.2	
		De	iP		21 26 12.0	
		South of Japan.				
		h = 460 km (Up).				
"	19	Um	iP		22 08 05.1	
		Ud	iP		22 07 24.4	
		Ionian Sea.				
"	20	Up	ePKP2		01 49 09	
		Ki	iPKP1		01 48 38.8	
		Sk	iPKP1		01 48 53.0	
		Um	iPKP1		01 48 48.9	
		Ud	iPKP2		01 49 16.1	
		South of Kermadec Islands.				
"	20	Up	iP		05 36 35.3	
		Um	iP		05 36 10.8	
		Japan (h = 100 km).				
"	20	Up	iPKP1		06 54 25.5	C
			ipPKP1		06 56 34.4	
			iSKP1		06 57 18.3	
					micr	sec
			PKP1	Z'	0.1	0.8
		Ki	iPKP		06 54 12.3	
			iSKP1		06 56 58.8	
		(cont.)				

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

1974							
June	20	(cont.)					
		Ki				micr	sec
			SKP1	Z'		0.1	1.0
		Sk	iPKP1			06 54 18.8	
		Um	iPKP1			06 54 14.0	
			iSKP1			06 57 08.7	
		Ud	iPKP1			06 54 27.9	C
			iSKP1			06 57 19.9	
		De	iPKP1			06 54 37.4	
			ipPKP1			06 56 40.4	
		Tonga-Kermadec Islands.					
		h = 560 km (Up,De).					
"	20	Ki	eSg1			08 53 42	
		Sk	eSg1			08 54 13	
		Um	i			08 53 14.7	
			iSg1			08 53 24.2	
		Ud	iSg1			08 54 01.7	
		Lake Ladoga region.					
		Explosion.					
"	20	Up	iP			09 32 10.9	
						micr	sec
			Mx	E		1.0	14
			Mx	N		0.9	10
			Mx	Z		1.2	9
		Ki	iP			09 33 43.2	
						micr	sec
			Mx	E		1.6	15
			Mx	N		1.2	12
			Mx	Z		1.1	13
		Sk	iP			09 32 59.2	
		Um	iP			09 33 02.2	
			iS			09 36 34	
		Ud	iP			09 32 16.8	C
		De	eP			09 31 28	
		Yugoslavia (h = N).					
		M = 4.6 (Up,Ki).					
"	20	Um	iSg1			13 28 34.0	
			eRg			13 29 02	
		Ud	iSg1			13 29 16.8	
		Western USSR.					
		Explosion.					
"	20	Um	iSg1			14 15 37.0	
		Western USSR.					
		Explosion.					
"	20	Um	iPKP1			15 05 27.3	
"	20	Up	eP			17 11 53	
			iS			17 14 40.5	
						micr	sec
			S	Z'		0.4	2.0
		Ki	iP			17 13 18.1	
		Um	iP			17 12 38.9	
		(cont.)					

1974							
June	20	(cont.)					
		Ud	iP			17 11 55.9	
		Yugoslavia (h = 45 km).					
"	20	Up	iP			17 12 12.8	
						micr	sec
			P	Z'		0.1	1.2
			Mx	E		0.7	8
			Mx	N		1.1	9
			Mx	Z		1.9	9
		Ki	iP			17 13 42.6	
						micr	sec
			P	Z'		0.2	1.1
			Mx	E		1.4	11
			Mx	N		0.9	13
			Mx	Z		1.1	13
		Sk	iP			17 12 51.2	
		Um	iP			17 12 57.5	
			i			17 13 00.4	
		Ud	iP			17 12 14.3	
		De	iP			17 11 15.1	
		Yugoslavia.					
		m = 5.2, M = 4.6 (Up,Ki).					
"	20	Up	iP			22 29 56.0	
			iSn			22 31 59.6	
			iLg1			22 33 51.9	
						micr	sec
			Mx	N		0.5	9
			Mx	Z		0.6	9
		Ki	iP			22 31 26.4	
						micr	sec
			Mx	E		0.4	8
		Sk	eP			22 30 31	
		Um	iP			22 30 41.8	
		Ud	iP			22 30 00.1	
			iSn			22 32 02.2	
		De	iP			22 29 00.8	
			iLg1			22 32 07.0	
		Yugoslavia (h = N).					
		M = 4.4 (Up,Ki).					
"	20	Up	iP			22 52 18.6	
			ipP			22 52 31.4	
						micr	sec
			P	Z'		0.1	1.4
		Ki	iP			22 52 01.7	
		Um	iP			22 52 03.9	
		Ud	iP			22 52 27.4	C
			ipP			22 52 41.0	
		Luzon.					
		h = 50 km (Up,Ud).					
"	21	Sk	iP			01 15 05.2	
		Ud	iP			01 14 25.4	
			i			01 14 35.6	
		Greece-Bulgaria.					

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

1974 June	21	Up	iSn		06 34 18.4	
			i		06 34 35.8	
			iSgl		06 34 58.1	
		Ki	iPgl		06 32 02.9	
			iSn		06 32 33.9	
			iS*		06 32 41.3	
			iSgl		06 32 44.5	
					micr	sec
			S*	Z'	0.1	0.5
			Sgl	Z'	0.2	0.7
		Sk	i		06 34 13.6	
			iSgl		06 34 36.5	
		Um	iPgl		06 32 14.4	
			i(Pg2)		06 32 16.9	
			iSn		06 32 46.4	
			i		06 32 50.2	
			iS*		06 32 57.4	
			iSgl		06 33 00.4	
		De	i		06 36 08.0	
			iSgl		06 37 00.9	

Finland, 66.0°N, 26.8°E.
Origin time = 06 31 08.
Clear double Sn phases at Um.

"	21	Ud	iPKP	07 44 15.7

Fiji Islands (h = 310 km).

"	21	Up	iP		08 52 11.9	C
					micr	sec
			P	Z'	0.1	1.4
		Ki	iP		08 52 09.6	
					micr	sec
			P	Z'	0.1	1.8
		Sk	iP		08 51 41.0	C
		Um	iP		08 52 14.7	
		Ud	iP		08 51 54.7	
		De	iP		08 52 05.9	C

North Atlantic Ocean (h = N).
m = 5.1 (Up,Ki).

"	21	Up	iS*	11 34 06.9
			iSgl	11 34 15.5
		Ki	iPn	11 29 59.9
			iSn	11 30 59.3
			iSgl	11 31 20.9
		Sk	eSgl	11 33 48
		Um	iSn	11 31 37.3
			i	11 31 52.1
			iSgl	11 32 12.0
			i	11 32 17.3
		Ud	iSgl	11 34 47.8
		De	eSgl	11 36 15

Northwest USSR.
Explosion.

"	21	Sk	eSgl	12 15 25

(cont.)

1974 June	21	(cont.)		
		Um	iSgl	12 13 54.3
		Ud	iSgl	12 14 40.5

Western USSR.
Explosion.

"	21	Up	iSgl	13 00 31.9
		Ki	iSgl	13 03 07.6
		Sk	iSg2	13 02 29.7
		Um	iSgl	13 01 04.9
		Ud	iSgl	13 01 34.8
		De	eSgl	13 02 01

Esthonia.
Explosion.

"	21	Up	eP	16 13 02
		Ki	iP	16 13 45.1
		Sk	eP	16 13 31
		Um	iP	16 13 21.1

Gulf of Aden (h = N).

"	21	Um	iP	20 10 08.3
		Ud	iP	20 10 40.1

"	21	Up	iP		21 05 23.9	
			i		21 05 45.4	
					micr	sec
			Mx	E	0.7	15
			Mx	N	0.5	12
			Mx	Z	0.5	12
		Ki	iP		21 04 36.8	
					micr	sec
			Mx	E	1.2	14
			Mx	N	1.3	15
			Mx	Z	1.0	18
		Sk	iP		21 05 19.5	
		Um	iP		21 04 56.4	
			iS		21 11 28	
		Ud	iP		21 05 34.0	
		De	iP		21 05 52.8	C

East of Lake Baikal (h = N).
M = 5.1 (Up,Ki).

"	21	Up	iSgl	22 12 11.9
		Ki	iPn	22 08 25.9
			i	22 08 33.9
			iPgl	22 08 41.4
			iSn	22 09 24.8
			iS*	22 09 45.5
		Sk	iSgl	22 12 30.9
		Um	iSn	22 10 24.4
			iSgl	22 11 10.2
		Ud	iSn	22 12 22.3
			iSgl	22 13 44.1

Northwest USSR.
Explosion?

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

1974
June 21 Up eP 22 23 23

" 22 Um iP 01 10 10.0 D
Banda Sea (h = 230 km).

" 22 Up iP 02 07 12.2
Ki iP 02 06 55.9
Sk iP 02 07 23.3
Um iP 02 06 59.3
Ud iP 02 07 24.0
Szechwan, China (h = 15 km).

" 22 Sk ePKP1 02 48 52
South of Australia (h = N).

" 22 Um iP 06 17 20.0
Ud iP 06 17 24.2
Caucasus.

" 22 Up iPKP1 07 30 17.4 D
i 07 31 10.3
micr sec
PKP1 Z' 0.1 0.7
Ki iPKP 07 30 00.9
Sk iPKP1 07 30 09.8 C
Um iPKP1 07 30 06.2 C
Ud iPKP1 07 30 19.1 D
i 07 30 22.1
De iPKP1 07 30 28.8 D
i 07 30 35.1
Kermadec Islands (h = 160 km).
Our northern stations Sk,Um show clear C for PKP1, while the more southern stations Up,Ud,De show clear D.

" 22 Up ePKP 08 31 51
iPP 08 34 00.6
iSKP1 08 35 12.1
micr sec
PKP Z' 0.2 2.0
PP Z' 0.2 1.6
Mx E 1.1 22
Mx N 0.8 19
Mx Z 1.8 22
Ki iPKP 08 31 46.3
iPP 08 33 40.8
micr sec
PKP Z' 0.1 1.3
Mx E 3.3 21
Mx N 3.0 22
Mx Z 4.6 22
Sk iPKP 08 31 45.6
iPP 08 33 31.8
Um iPKP 08 31 51.0
(cont.)

1974
June 22 (cont.)
Ud iPKP 08 31 48.1
iPP 08 33 48.5
De iPKP 08 31 52.1
Easter Island (h = N).
M = 6.0 (Up,Ki).

" 22 Ud iPKP1 10 19 11.7
De iPKP1 10 19 23.6
Tonga Islands (h = N).

" 22 Ki iPn 10 28 53.3
iSn 10 29 41.6
iSg1 10 29 59.1
Sk eSg1 10 32 45
Um iSg1 10 31 27.2
USSR-Norway.
Explosion.

" 22 Up iP 10 41 03.7 C
micr sec
P Z' 0.1 1.0
Ki iP 10 40 22.1 C
micr sec
P Z' 0.1 0.8
Mx E 0.6 16
Mx N 0.7 17
Sk iP 10 40 56.2 C
Um iP 10 40 40.4 C
Ud iP 10 41 10.7 C
De iP 10 41 26.6 C
Japan (h = 40 km).
m = 6.0 (Up,Ki).

" 22 Up iP 13 15 38.5
Ki iP 13 15 04.4
Um iP 13 15 19.2
Ud iP 13 15 45.7
De eP 13 16 00
South of Japan (h = 70 km).

" 22 Up iSn 13 32 34.0
iSg1 13 32 57.5
Sk eSg1 13 35 11
Um i 13 33 31.0
i 13 33 46.8
iSg1 13 34 06.2
Ud i 13 33 19.5
iSg1 13 34 01.8
De iSg1 13 33 33.7
Approximate solution:
Latvia, 56 3/4°N, 25 1/2°E.
Origin time = 13 30 19.
Explosion?

" 22 Ki iSn 14 26 44.8
(cont.)

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

1974
June 22 (cont.)

Ki	iS*	14 27 03.3	
Northwest USSR.			
Explosion.			
" 22 Up	iP	16 17 36.2	
Ki	iP	16 16 52.4	
Sk	iP	16 17 28.8	
Ud	iP	16 17 43.1	
	ipP	16 18 03.8	
Japan.			
h = 80 km (Ud).			
" 22 Up	iP	18 21 03.6	
Ud	iP	18 21 17.0	
" 22 Up	iP	18 59 09.5	
Sk	iP	18 59 25.1	
Ud	iP	18 59 22.4	
Burma-India (h = 110 km).			
" 22 Up	iP	19 34 14.9 D	
	ipP	19 34 40.2	
	iPP	19 37 53.2	
		micr	sec
	P Z'	0.1	0.7
Ki	iP	19 33 46.3 D	
	ipP	19 34 13.1	
		micr	sec
	P Z'	0.2	0.9
Sk	iP	19 34 12.2	
Um	iP	19 33 58.7	
	ipP	19 34 26.3	
Ud	iP	19 34 21.1 D	
De	iP	19 34 32.6	
Mariana Islands.			
h = 100 km (Up,Ki,Um).			
m = 6.1 (Up,Ki).			
" 22 Ud	iP	19 44 20.5	
" 22 Up	iP	20 46 35.4	
Aleutian Islands (h = 50 km).			
" 22 Up	ePKP2	21 34 16	
Ki	iPKP1	21 34 04.5	
Ud	iPKP2	21 34 27.1	
West of Macquarie Islands			
(h = N).			
" 22 Ud	iP	21 44 33.5	
De	iP	21 43 59.1	
" 22 Up	iP	23 34 33.5 C	
	i	23 34 40.3	
	iS	23 38 03	

(cont.)

1974
June 22 (cont.)

Up		micr	sec
P	Z'	0.1	1.2
Mx	E	1.0	14
Mx	N	1.0	12
Mx	Z	1.6	12
Ki iP		23 35 51.7	
		micr	sec
P	Z'	0.1	0.9
Mx	E	0.8	11
Mx	N	0.9	11
Sk iP		23 35 19.3	
i		23 35 24.6	
Um iP		23 35 13.5	
Ud iP		23 34 43.2 C	
De iP		23 34 04.9	
Greece-Bulgaria (h = N).			
m = 5.2, M = 4.6 (Up,Ki).			
Double P onsets.			
" 23 Up	iP	05 25 48.9	
	iPcP	05 26 15.9	
Ki	iP	05 24 55.2	
Sk	iP	05 25 26.0	
Ud	iP	05 25 47.1	
De	iP	05 26 09.9	
Aleutian Islands (h = 40 km).			
" 23 Ki	iSn	05 50 48.0	
	iS*	05 51 07.7	
Northwest USSR.			
Explosion.			
" 23 Up	iPKP1	06 31 17.3	
Ud	iPKP1	06 31 18.5	
De	iPKP1	06 31 29.4	
Fiji Islands (h = 490 km).			
" 23 Up	iPKP	06 39 30.1 C	
	iPKKP1	06 49 48.1	
Ki	iPKP	06 39 19.6	
Sk	iPKP	06 39 28.8	
Ud	iPKP	06 39 32.7 C	
	iPKKP1	06 49 43.0	
De	iPKP	06 39 38.5 C	
Solomon Islands (h = 70 km).			
" 23 Up	iP	09 47 06.2	
Ud	iP	09 47 13.6	
Japan (h = 90 km).			
" 23 Ud	iPKP	14 47 41.9	
De	iPKP	14 47 49.2	
New Guinea (h = 110 km).			
" 23 Up	iPKP2	15 29 27.1	

(cont.)

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

1974
June 23 (cont.)

Ki	iPKP1	15 28 54.8	C
Sk	iPKP1	15 29 08.4	
Ud	iPKP1	15 29 10.2	
De	iPKP2	15 29 44.1	

New Zealand (h = 80 km).

" 23	Up	i(P)	17 34 27.5	
" 23	Up	iPKP1	19 18 59.1	
	Ud	iPKP1	19 19 01.2	
" 23	Up	iP	20 22 15.9	
	Ki	iP	20 21 59.9	
	Ud	iP	20 22 28.7	

Szechwan, China (h = N).

" 23	Ki	iP	21 12 26.0	
	Sk	iP	21 12 12.0	

Turkey (h = N).

" 24	De	iPKP	03 35 22.9	

Solomon Islands (h = 90 km).

" 24	Sk	i(P)	16 41 52.5	
	Um	i(P)	16 41 00.9	
		i	16 41 07.0	
	Ud	i(P)	16 41 51.9	
		i	16 41 55.6	
" 24	Sk	i(P)	17 00 47.8	
	Ud	i(P)	17 00 45.1	
" 24	Up	ePKP	17 22 34	
		iPKP1	17 22 41.9	
	Sk	iPKP1	17 22 31.8	
	Um	iPKP1	17 22 23.2	
	Ud	iPKP1	17 22 35.0	
	De	iPKP2	17 22 58.4	

South of Kermadec Islands (h = 45 km).

" 24	Up	iP	19 12 40.6		C
		i	19 13 07.5		
		iS	19 21 42.6		
	Ki	iP	19 12 05.9		C
			micr	sec	
		P	Z' 0.1	0.8	
	Sk	iP	19 12 36.6		
	Um	iP	19 12 20.2		C
	Ud	iP	19 12 47.9		C
		iS	19 21 57.5		
	De	iP	19 12 59.2		C

Japan (h = 390 km).

" 24	Ud	iPKP1	20 21 25.3

1974
June 24

Up	ePKP	20 53 18		
	i	20 54 23.3		
	iSKP	20 56 45.6		
	iSP	21 04 45		
		micr	sec	
	SKP Z'	0.1	1.7	
	Mx E	1.8	23	
	Mx N	3.2	25	
	Mx Z	3.6	26	
Ki	iPKP	20 53 33.2		
	iPP	20 55 38.2		
	iSKP1	20 56 44.1		
		micr	sec	
	PKP Z'	0.1	1.1	
	PP Z'	0.2	1.8	
	SKP1 Z'	0.4	2.0	
	Mx E	2.4	21	
	Mx N	1.8	18	
	Mx Z	2.1	19	
Sk	iPKP	20 53 25.3		
	iSKP	20 56 49.5		
Um	iPKP	20 53 26.1		
	iPP	20 55 12.7		
	iSKP	20 56 53.8		
Ud	iPKP	20 53 15.8		
	iPP	20 54 41.3		
De	iPKP	20 53 19.2		
	iPP	20 54 20.2		

South Sandwich Islands (h = 80 km).
M = 6.0 (Up,Ki).

" 24	Up		micr	sec
	Mx	E	1.9	20
	Mx	N	2.7	19
	Mx	Z	3.5	25
	Ki iP		21 49 07.3	
			micr	sec
	Mx	E	3.3	19
	Mx	N	3.8	23
	Mx	Z	3.1	21
	Um iP		21 49 14.7	
	De iPKP		21 53 43.1	

New Guinea (h = N).
M = 6.0 (Up,Ki).

" 24	Up	iP	22 57 12.6	
	Ki	iP	22 57 19.8	
	Um	iP	22 57 09.8	
		isP	22 57 58.4	
	Ud	iP	22 57 29.4	
	De	iP	22 57 26.5	

Afghanistan-USSR (h = 150 km).

" 24	Ki	iPKP	23 51 41.6

South Sandwich Islands (h = 70 km).

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

1974 June	25	Ki	iP		03 20 44.4	
		Ud	iP		03 21 14.2	
"	25	Up	iP		03 56 28.4	
		Ki	iP		03 55 43.2	
		Sk	iP		03 56 19.5	
		Um	iP		03 56 03.9	
		Ud	iP		03 56 35.5	
		De	iP		03 56 53.1	
		Japan (h = 190 km).				
"	25	Ki	iP		04 03 37.0	
		Sk	iP		04 04 08.1	
		Um	iP		04 03 38.1 C	
		Ud	iP		04 04 09.0	
		Kazakh SSR.				
		Underground explosion.				
"	25	Up	iP		04 25 35.9	
		Ki	iP		04 25 07.0 D	
			ipP		04 25 44.0	
					micr	sec
			pP	Z'	0.1	1.0
		Sk	iP		04 25 31.9	
		Um	iP		04 25 19.4 D	
			ipP		04 25 59.1	
		Ud	iP		04 25 42.4	
		De	iP		04 25 53.8	
		Mariana Islands.				
		h = 150 km (Ki,Um).				
"	25	Ud	iP		04 56 13.6	
"	25	Up	iP		05 13 51.5	
		Ki	iP		05 13 38.9	
		Sk	iP		05 13 28.6 C	
		Um	iP		05 13 42.4	
		Ud	iP		05 13 43.0	
		De	iP		05 13 48.7	
		Mexico (h = 25 km).				
"	25	Up			micr	sec
			Mx	E	1.2	20
			Mx	N	1.8	24
			Mx	Z	2.8	23
		Ki	iPKP2		05 26 01.3	
					micr	sec
			Mx	E	0.9	18
			Mx	N	2.6	24
			Mx	Z	1.7	22
		Ud	iPKP2		05 26 04.5	
		South Pacific Ocean (h = N).				
		M = 6.1 (Up,Ki).				
"	25	Up	iP		06 36 02.3	

1974 June	25	Up	i(pP)		08 57 41.3	
			iSKS		09 07 56	
					micr	sec
			Mx	E	0.9	19
			Mx	N	0.6	23
			Mx	Z	1.4	21
		Ki			micr	sec
			Mx	E	1.5	18
			Mx	N	0.9	18
			Mx	Z	1.0	17
		Sk	iP		08 57 15.5	
		Ud	iP		08 57 25.0	
		De	eP		08 57 32	
		Mexico (h = 30 km).				
		M = 5.3 (Up,Ki).				
"	25	Up	iSgl		11 45 35.4	
		Um	iSn		11 45 45.3	
			iSgl		11 46 10.2	
		Ud	iSgl		11 46 27.2	
			i		11 46 42.7	
		Probably Esthonian region.				
		Explosion.				
"	25	Ud	i		13 59 05.2	
			iSgl		13 59 29.4	
		De	iSgl		14 00 25.0	
"	25	Up	iP		14 12 53.4	
"	25	Up	eP		17 36 08	
			i(PP)		17 39 27.2	
			iPP		17 40 17.5	
			iSKS		17 46 41	
					micr	sec
			(PP)	Z'	0.4	2.1
			PP	Z'	0.5	1.9
			Mx	E	12	22
			Mx	N	18	24
			Mx	Z	27	18
		Ki	iP		17 36 23.2	
			i(PP)		17 39 26.2	
			iPP		17 40 47.9	
			iSKS		17 46 59	
					micr	sec
			P	Z'	0.1	1.5
			PP	Z'	0.2	1.9
			Mx	E	14	17
			Mx	N	16	17
			Mx	Z	12	17
		Sk	i(P)		17 36 37.6	
			iPP		17 40 50.9	
		Um	iP		17 36 15	
			i(PP)		17 39 36.7	
			iPP		17 40 35.6	

(cont.)

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

1974 June	25	(cont.)			
		Um	iSKS	17 46 50	
		Ud	i(P)	17 36 29.0	
			i(PP)	17 39 22.5	
			iPP	17 40 40.6	
		De	i(P)	17 36 22.8	
			i(PP)	17 39 35.1	
			iPP	17 40 17.7	
		South Indian Ocean (h = N).			
		m = 6.5, M = 6.7 (Up,Ki).			
"	25	Up	iP	17 51 34.9	
		Ki	iP	17 50 59.2	
		Um	iP	17 51 13.5	
		Ud	iP	17 51 41.9	
		De	iP	17 51 57.9	
		Japan (h = 9 km).			
"	25	Um	i(P)	19 27 38.3	
"	25	Up	iP	22 27 42.1	
			i(S)	22 31 00	
				micr	sec
			P Z'	0.5	2.0
			Mx E	1.2	20
			Mx N	1.1	21
			Mx Z	2.6	21
		Ki	iP	22 27 20.6	
				micr	sec
			P Z'	0.9	2.4
			Mx E	4.1	17
			Mx N	2.2	14
			Mx Z	3.4	16
		Sk	iP	22 26 51.3	
		Um	iP	22 27 33.1	
		Ud	iP	22 27 21.2	
			i	22 27 25.4	
		De	iP	22 27 45.8	
		Iceland (h = N).			
		m = 5.4, M = 4.6 (Up,Ki).			
"	26	Ki	iP	01 24 12.4	
		Um	iP	01 25 04.3	
		Ud	iP	01 25 54.9	
			i	01 25 57.6	
"	26	Ki	iPKP	04 18 48.4	
		South Atlantic Ocean (h = N).			
"	26	Um	iSgl	06 09 58.2	
		De	eSgl	06 10 57	
		Gulf of Finland.			
		Explosion.			

1974 June	26	Up	iSgl	06 12 21.4
		Ki	eSgl	06 15 00
		Sk	eSgl	06 14 16
		Um	iPn	06 11 46.4
			iSn	06 12 42.3
			iSgl	06 13 02.4
		Ud	iSn	06 13 05.6
			iSgl	06 13 28.8
		De	eSn	06 13 24
			iSgl	06 13 55.9
		Gulf of Finland.		
		Explosion.		
"	26	Um	iP	06 33 37.5
		Hindu Kush (h = 140 km).		
"	26	Up	iSgl	06 59 29.4
		Sk	eSgl	07 01 19
		Um	iSgl	07 00 09.8
		Ud	iS*	07 00 29.3
			iSgl	07 00 36.7
		De	iPn	06 59 20.6
			iSgl	07 01 03.5
		Gulf of Finland.		
		Explosion.		
"	26	Um	iSgl	07 00 26.3
		De	iPn	06 59 35.6
			iSgl	07 01 18.7
		Gulf of Finland.		
		Explosion.		
"	26	Up	iSgl	07 22 14.6
		Sk	eSgl	07 24 08
		Um	iSgl	07 22 54.3
		Ud	eSgl	07 23 16
		De	iSgl	07 23 50.7
		Gulf of Finland.		
		Explosion.		
"	26	Up	iPgl	11 20 18.7
			iSgl	11 20 39.5
			i	11 20 43.0
			iRg	11 20 50.8
		Sk	iSgl	11 22 07.3
		Um	iPgl	11 20 39.5
			iSgl	11 21 16.1
		Ud	iPgl	11 20 48.9
			i	11 21 26.4
			iSgl	11 21 32.8
		De	iSgl	11 22 40.0
		Gulf of Bothnia, 61.0°N, 19.8°E.		
		Origin time = 11 19 52.		
		Explosion?		

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

1974 June	26	Up	iSgl	12 21 23.0	
		Ki	iSgl	12 24 17.0	
		Um	iSgl	12 22 12.4	
		Esthonia.			
		Explosion.			
"	26	Ki	iSgl	12 36 53.6	
		Um	iSgl	12 34 46.8	
		Ud	iSgl	12 35 12.1	
		De	eSgl	12 35 41	
		Esthonia.			
		Explosion.			
"	26	Um	iSgl	13 37 47.6	
		Western USSR.			
		Explosion.			
"	26	Ud	iP	13 46 23.8	
"	26	Um	iSgl	14 13 51.3	
		Western USSR.			
		Explosion.			
"	26	Um	iSgl	14 54 38.8	
		Lake Ladoga region.			
		Explosion.			
"	26	Up	iSgl	16 57 52.0	
		Ki	i	16 58 20.9	
			iSgl	16 58 46.5	
		Sk	iSgl	16 59 08.3	
		Um	eSgl	16 57 18	
		Ud	eSgl	16 58 49	
		De	iSgl	16 59 34.0	
		Lake Ladoga region.			
		Explosion.			
"	26	Sk	e(P)	18 54 05	
		Ud	iP	18 53 49.0	
		North Atlantic Ocean			
		(h = N).			
"	26	Ki	i(P)	19 05 32.1	
		Sk	iP	19 05 01.6	
		Ud	iP	19 04 52.3	
		North Atlantic Ocean			
		(h = N).			
"	26	Up	iPKPl	23 51 53.2	
			iSKPl	23 54 45.8	
				micr	sec
			PKPl Z'	0.1	0.9
		Ki	i(PKP)	23 51 34.1	
			iPKP	23 51 43.1	
			iSKPl	23 54 24.4	
		(cont.)			

1974 June	26	(cont.)			
		Ki		micr	sec
			SKPl Z'	0.1	1.4
		Sk	i(PKP)	23 51 45.4	
			iPKP	23 51 53.0	
			iSKPl	23 54 39.8	
		Um	i(PKP)	23 51 41.1	
			iPKP	23 51 49.7	
			i	23 53 34.3	
			iSKPl	23 54 33.2	
		Ud	iPKPl	23 51 55.3	
			iSKPl	23 54 47.2	
		De	iPKPl	23 52 05.0	
			ipPKPl	23 54 12.7	
			iSKPl	23 54 56.2	
		Tonga-Kermadec Islands.			
		h = 570 km (De).			
"	27	Up	iP	02 00 49.6	
			iX	02 00 58.4	
			iPP	02 03 34.0	
			iS	02 10 25	
				micr	sec
			P Z'	0.1	0.9
			X Z'	1.2	1.4
			PP Z'	0.1	1.2
			Mx E	13	19
			Mx N	13	17
			Mx Z	17	20
		Ki	iP	02 00 13.0	
			iX	02 00 22.0	
			iPP	02 02 52.2	
				micr	sec
			P Z'	0.2	1.4
			X Z'	1.3	1.9
			PP Z'	0.3	1.6
			Mx E	37	19
			Mx N	15	14
			Mx Z	9.6	15
		Sk	iP	02 00 45.9	
			iX	02 00 53.6	
			iPP	02 03 31.4	
		Um	iP	02 00 27.8	
			iX	02 00 36.9	
			i	02 02 49.3	
			iS	02 09 46	
		Ud	iP	02 00 56.6	
			iX	02 01 04.1	
			i	02 03 10.7	
		De	iP	02 01 10.9	
			iX	02 01 19.4	
			iPP	02 04 16.3	
		Japan (h = 15 km).			
		m = 6.0 (P), 6.8 (X),			
		M = 6.6 (Up,Ki).			
		(cont.)			

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

1974 June	27	(cont.)				
		The phase X, in average 8.4 sec after P and considerably larger than P, may be P of another earthquake in the same area; alternatively, it may be pP with h = 30 km.				
"	27	Um	iP		02 15 41.3	
"	27	Up	i(P)		03 38 21.6	
			i		03 38 46.5	
					micr	sec
			i	Z'	0.1	1.5
"	27	Up	iPKP1		03 50 37.0	C
					micr	sec
			PKP1	Z'	0.1	0.7
		Ki	iSKP1		03 53 11.7	
		Um	iSKP1		03 53 21.7	
		Ud	iPKP1		03 50 38.9	C
		De	iPKP1		03 50 49.0	
		Tonga-Kermadec Islands (h = 500 km).				
"	27	Um	iP		04 29 33.8	
		Japan (h = N).				
"	27	Up	iP		05 00 44.4	
					micr	sec
			Mx	E	1.3	14
			Mx	N	1.4	16
			Mx	Z	2.2	13
		Ki	i		05 00 23.7	
					micr	sec
			Mx	E	1.2	16
			Mx	N	1.7	16
			Mx	Z	1.7	17
		Sk	iP		05 00 45.4	
		Um	iP		05 00 25.2	
			i		05 00 40.7	
		Ud	iP		05 00 55.4	
			i		05 01 05.4	
		Japan (h = 40 km). M = 5.5 (Up,Ki).				
"	27	Up	iP		05 50 05.8	
"	27	Up	iPKP		08 04 45.7	C
			i(PP)		08 05 19.5	
			iPKKP		08 15 43.9	
					micr	sec
			(PP)	Z'	0.1	1.5
			PKKP	Z'	0.1	1.5
			Mx	E	1.3	23
			Mx	N	2.4	26
			Mx	Z	3.5	25
		(cont.)				

1974 June	27	(cont.)				
		Ki	iPKP		08 04 34.3	
					micr	sec
			Mx	E	2.5	23
			Mx	N	2.0	21
			Mx	Z	1.5	18
		Sk	iPKP		08 04 45.7	
		Um	iPKP		08 04 39.3	C
		Ud	iPKP		08 04 48.3	
			iPP		08 06 12.1	
		De	iPKP		08 04 53.8	C
			ipPKP		08 05 10.6	
			iPKKP		08 15 28.1	
		New Britain. h = 60 km (De). M = 5.9 (Up,Ki).				
"	27	Ud	iP		08 22 00.8	
"	27	Um	iSg1		10 19 20.8	
		Ud	eSg1		10 19 51	
		De	e		10 20 07	
			iSg1		10 20 19.5	
		Esthonia. Explosion.				
"	27	Up	iSg1		13 33 45.0	
		Sk	iSg1		13 33 47.9	
		Ud	i		13 32 43.5	
			iSg1		13 32 47.7	
			i		13 32 50.1	
		De	eSn		13 32 42	
		Southwest Norway, 58.5°N, 6.9°E. Origin time = 13 30 47. By combination with Bergen and Kongsberg readings.				
"	27	Sk	iPKP2		13 52 50.6	
		Um	iPKP2		13 52 47.9	
		Ud	iPKP2		13 53 06.6	
		South of Kermadec Islands (h = 25 km).				
"	27	Up	iSg1		14 01 55.3	
		Sk	i		14 01 50.9	
			iSg1		14 01 54.4	
		Ud	iSg1		14 00 53.7	
		Similar location as the 13 30-event. Origin time = 13 58 53.				
"	27	Sk	i(PKP1)		15 51 12.0	
		Ud	iPKP1		15 51 24.6	
		De	iPKP1		15 51 36.1	
		South of Kermadec Islands (h = N).				

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

1974 June	27	Up	iPKP2	17 07 50.0	
			i	17 08 01.4	
		Sk	iPKP1	17 07 38.0	
		Um	iPKP1	17 07 30.5	
		Ud	iPKP1	17 07 41.9	
		De	iPKP1	17 07 52.7	
			iPKP2	17 08 07.0	
		South of Kermadec Islands (h = N).			
"	27	Up	iPKP2	17 18 45.2	
"	27	Up	iP	18 57 28.7	
		Ki	iP	18 58 04.2	
		Ud	iP	18 57 20.7	
		Atlantic Ocean (h = N).			
"	27	Up	iP	19 04 06.6	C
				micr sec	
			P Z'	0.1 0.9	
		Ki	iP	19 04 07.8	C
		Sk	iP	19 04 23.3	C
		Um	iP	19 04 03.2	C
		Ud	iP	19 04 18.2	
		De	iP	19 04 16.3	C
		Andaman Islands (h = N).			
"	27	Up	iPKP2	22 58 51.4	
		Sk	iPKP1	22 58 35.4	
		Um	iPKP1	22 58 31.0	
		Ud	iPKP1	22 58 42.5	
		South of Kermadec Islands (h = N).			
"	27	Up	iP	23 02 11.8	
				micr sec	
			P Z'	0.1 1.2	
		Ki	iP	23 02 47.0	
				micr sec	
			P Z'	0.1 1.3	
		Sk	iP	23 02 15.7	
		Um	iP	23 02 32.7	
		Ud	iP	23 02 02.5	
		De	iP	23 01 56.4	
		Atlantic Ocean (h = N).			
		m = 5.8 (Up,Ki).			
"	27	Ud	iP	23 31 24.7	
"	28	Ud	iP	01 33 13.4	C
		De	iP	01 33 09.8	
		Hindu Kush.			
		Intermediate depth.			
"	28	Up	iPKP1	02 30 29.4	
		Sk	iPKP1	02 30 25.5	
		Um	iPKP1	02 30 20.2	
		(cont.)			
1974 June	28	(cont.)			
		Ud	iPKP1	02 30 32.7	
		De	iPKP2	02 30 57.7	
		South of Kermadec Islands (h = 60 km).			
"	28	Up	iPKP2	02 52 45.9	
			i	02 53 14.3	
		Ki	iPKP1	02 52 17.2	
		Sk	iPKP1	02 52 33.1	
		Um	iPKP1	02 52 28.5	
		Ud	iPKP1	02 52 40.6	
		De	iPKP2	02 53 01.7	
		South of Kermadec Islands (h = 40 km).			
"	28	Um	iPKP1	03 22 07.3	
		Ud	ePKP1	03 22 22	
"	28	Um	i(PKP1)	05 48 34.8	
"	28	Ki	eSn	10 00 17	
		Northwest USSR.			
		Explosion.			
"	28	Up	iP	11 14 58.1	
			i	11 15 16.4	
			iS	11 19 25	
				micr sec	
			P Z'	0.3 1.1	
			Mx E	0.5 11	
			Mx N	0.5 11	
			Mx Z	0.6 15	
		Ki	iP	11 16 08.3	
				micr sec	
			P Z'	0.1 1.3	
			Mx E	1.0 14	
			Mx N	0.6 14	
			Mx Z	0.5 12	
		Sk	iP	11 15 23.7	
		Um	iP	11 15 35.4	
		Ud	iP	11 14 52.5	
		De	iP	11 14 20.3	
		Algeria (h = N).			
		m = 5.7, M = 4.7 (Up,Ki).			
"	28	Up	iP	11 18 35.6	
		Um	iP	11 18 45.0	
		Ud	iP	11 18 34.1	
		De	iP	11 18 28.4	
"	28	Up	iSgl	11 35 49.0	
		Ki	iSgl	11 38 06.3	
		Sk	iSgl	11 37 39.2	
		Um	iSgl	11 36 13.5	
		Ud	eSgl	11 36 53	
		(cont.)			

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

1974 June	28	(cont.)				
		De	iSgl		11 37 20.3	
			i		11 37 24.9	
		Western USSR.				
		Explosion.				
"	28	Um	iSgl		13 06 43.4	
		Western USSR.				
		Explosion.				
"	28	Up	eSgl		13 17 07	
		Um	iSgl		13 17 21.1	
		Ud	iSgl		13 18 06.3	
		De	iSgl		13 18 38.0	
			iSg2		13 18 49.4	
		Western USSR.				
		Explosion.				
"	28	Um	iSgl		18 24 12.9	
		Ud	iSgl		18 25 39.0	
"	28	Sk	iSgl		18 33 45.1	
		Ud	iSgl		18 34 44.8	
		De	iSgl		18 35 58.3	
"	28	Up	iP		20 48 55.7	C
"	29	Up	iP		01 12 17.5	
			iS		01 16 44	
					micr	sec
			P	Z'	0.3	1.6
			Mx	E	0.7	14
			Mx	N	0.6	13
			Mx	Z	0.5	15
		Ki	iP		01 13 26.6	
					micr	sec
			P	Z'	0.1	1.5
			Mx	E	0.5	12
			Mx	N	0.8	14
			Mx	Z	0.7	13
		Sk	iP		01 12 45.5	
		Um	iP		01 12 55.8	
			iS		01 17 43	
		Ud	iP		01 12 12.0	
		De	iP		01 11 38.8	
		Algeria (h = N).				
		m = 5.6, M = 4.6 (Up,Ki).				
"	29	Up	iP		06 00 35.6	
		Ud	iP		06 00 36.2	
"	29	Ud	iP		07 28 24.7	
"	29	Ud	iP		09 41 01.0	
"	29	Ki	iSn		12 45 28.3	
		Northwest USSR.				
		Explosion.				

1974 June	29	Um	iPKP2		13 07 58.8	
"	29	Ki	iSgl		13 21 28.3	
		Sk	iSgl		13 23 55.0	
		Um	iSgl		13 22 23.0	
		USSR-Finland.				
		Explosion.				
"	29	Ki			micr	sec
			Mx	E	0.5	16
			Mx	N	0.7	17
			Mx	Z	0.5	14
		Ud	iP		14 18 56.1	
		Iran.				
"	29	Sk	iP		15 28 57.9	
		Ud	iP		15 28 45.8	
		De	eP		15 28 36	
		South Atlantic Ocean				
		(h = N).				
"	29	Up	iP		21 34 10.1	
		Ud	iP		21 34 17.1	
		Ionian Sea.				
"	29	Up	iX		21 49 23.4	
		Ki	eP		21 48 17	
			iX		21 48 35.2	
		Ud	iX		21 49 27.2	
		De	iP		21 49 34.2	
			iX		21 49 49.3	
		Kamchatka (h = 30 km).				
		X could be P of another				
		earthquake in the same area,				
		with a tentative origin				
		time = 21 38 48.				
"	29	Ud	iP		22 21 34.7	
		Ionian Sea.				
"	29	Up	iP		22 36 35.9	
		Sk	eP		22 37 17	
		Um	iP		22 37 19.6	
		Ud	iP		22 36 40.7	
		Ionian Sea (h = N).				
"	29	Ud	iPKP1		22 42 10.0	
		De	iPKP1		22 42 20.7	
"	30	Ud	iP		04 01 05.9	
		(Crete).				
"	30	Up	iSgl		05 57 49.6	
		Ki	iPn		05 53 30.6	
			iSn		05 54 30.0	
			iSgl		05 54 53.2	
		(cont.)				

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

1974 June	30	(cont.)				
		Sk	iSgl		05 57 18.7	
			i		05 57 25.2	
		Um	e		05 55 26	
			iSgl		05 55 44.7	
		Ud	i		05 57 26.8	
			iSgl		05 58 18.3	
		Northwest USSR.				
		Explosion.				
"	30	Ki	eSn		06 55 01	
		Sk	eSgl		06 57 55	
		Northwest USSR.				
		Explosion.				
"	30	Ki	iPKP		07 08 00.7	
		Ud	iPKP		07 07 48.4	
		Argentina (h = 190 km).				
"	30	Up	iPKP		08 52 56.7	
			i(PP)		08 55 17.8	
			iSKP1		08 56 25.2	
					micr	sec
			SKP1	Z'	0.1	1.4
			Mx	E	1.1	23
			Mx	N	1.0	23
			Mx	Z	1.6	23
		Ki	i(PKP)		08 52 40.3	
			iPKP		08 52 43.3	
					micr	sec
			PKP	Z'	0.1	1.0
			Mx	E	0.8	19
			Mx	N	1.4	23
			Mx	Z	1.0	21
		Sk	i(PKP)		08 52 42.6	
			iPKP		08 52 52.5	
			iSKP1		08 56 15.7	
		Um	i(PKP)		08 52 47.2	
			iPKP		08 52 49.7	
			iSKP1		08 56 06.8	
			iPKKP		09 03 06	
		Ud	i(PKP)		08 52 44.6	
			iPKP		08 52 58.9	
			iSKP1		08 56 26.7	
		De	e(PKP)		08 52 54	
			iPKP		08 53 06.1	C
			iSKP1		08 56 34.3	
		New Hebrides Islands				
		(h = 60 km).				
		M = 5.7 (Up,Ki).				
"	30	Up	iP		09 05 02.0	
		Ud	iP		09 05 22.9	
"	30	Ud	iP		13 20 27.1	
"	30	Ud	iP		13 27 21.2	
1974 June	30	Ki	eP		13 35 43	
		Sk	iP		13 35 28.0	
		Ud	iP		13 35 06.4	
		Ethiopia (h = N).				
"	30	Up	iSgl		14 43 06.2	
		Ki	iPg2		14 38 56.6	
			iSg2		14 39 00.1	
					micr	sec
			Pg2	Z'	0.3	0.2
			Sg2	Z'	2.8	0.2
		Sk	iSgl		14 41 45.9	
		Um	iSgl		14 40 59.1	
		Near Kiruna, Sweden,				
		67.9°N, 19.8°E.				
		Origin time = 14 38 52.				
		By combination with Finnish				
		station readings.				
"	30	Up	iPKP		18 14 26.4	
					micr	sec
			PKP	Z'	0.1	1.2
		Ki	iPKP		18 14 14.2	
		Sk	iPKP		18 14 25.6	
		Um	iPKP		18 14 19.1	
		Ud	iPKP		18 14 29.2	
		De	iPKP		18 14 34.5	
		Solomon Islands (h = 55 km).				
"	30	Ud	iPKP1		18 32 30.6	
		De	iPKP1		18 32 41.4	
"	30	Up	iP		18 35 27.0	
		Ki	iP		18 34 32.6	
		Sk	iP		18 35 10.0	
		Ud	iP		18 35 30.6	
		De	iP		18 35 52.4	
		Kamchatka (h = N).				
"	30	Ki	iP		19 10 35.2	
		Ud	iP		19 09 18.1	
		Italy (h = N).				

Markus Båth
Rutger Wahlström

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