



SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ,
UDDEHOLM and DELARY

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

JULY 1 - 31, 1976
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1976	July	1	Up	iP	03 32 28.4	1976	July	1	Up	iP	11 36 58.4	
			Um	iP	03 32 10.0					iS	11 47 52	
			Ud	iP	03 32 37.8						micr sec	
			De	iP	03 32 46.2					P	Z' 0.4 1.3	
			Ryukyu Islands (h = 35 km).							Mx	E 1.1 14	
"		1	Up	iP	03 33 37.8					Mx	N 1.1 15	
			Ud	iP	03 33 44.4					Mx	Z 1.1 14	
									Ki	iP	11 37 34.2	
"		1	Ki	iP	03 49 31.7						micr sec	
			Sk	iP	03 49 09.6					P	Z' 0.2 1.5	
			Ud	iP	03 49 10.7					Mx	E 2.7 17	
			De	iP	03 49 09.7					Mx	N 1.3 17	
			Leeward Islands (h = 35 km).							Sk	iP	11 37 16.6
"		1	Ud	iPKP1	05 25 55.7					Um	iP	11 37 15.3
			De	iPKP1	05 26 06.6					iS	11 48 29	
"		1	Ud	iP	07 33 50.1					Ud	iP	11 37 01.3
										De	iP	11 36 43.4
										South Africa (h = N).		
										m = 6.5, M = 5.7 (Up,Ki).		
"		1	Up	iP	11 24 11.9	"		1	Up	iPKP2	13 11 31.6	
			ipP		11 24 18.3				Ki	iPKP1	13 10 59.3	
					micr sec				Um	iPKP1	13 11 07.5	
									North Island, New Zealand (h = 35 km).			
			Ki	pP	Z' 0.2 1.0	"		1	Up	iP	15 42 09.2	
			Ki	iP	11 22 46.4			1	Sk	iP	17 52 36.9	
			ipP		11 22 51.6				Ud	iP	17 52 04.7	
					micr sec							
			P	Z' 0.2 1.5								
			pP	Z' 0.5 1.5								
			Sk	iP	11 23 31.4							
			ipP		11 23 40.1							
			Um	iP	11 23 31.6							
			Ud	iP	11 24 07.0							
			ipP		11 24 14.0							
			De	iP	11 24 39.8							
			ipP		11 24 46.4							
			North of Svalbard.									
			h = 30 km (Up,Ki,Sk,Ud,De).									
			m = 5.8 (Up,Ki).									
						"		2	Up	iP	01 03 16.8	
									Ki	iP	01 02 29.2	
									(cont.)			

OCT 11 1976

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

1976

July	2	(cont.)			
		Sk	iP	01 03	07.1
		Um	iP	01 02	51.4
		Ud	iP	01 03	22.4
		De	iP	01 03	40.7
		Kurile Islands (h = N).			
"	2	Ud	iPKP1	03 43	57.5
		De	iPKP1	03 44	07.6
"	2	Up	iP	05 21	20.4
		Ki	iP	05 22	36.1
		Sk	iP	05 22	03.5
		Um	iP	05 22	02.7
		Ud	iP	05 21	30.4
		De	iP	05 20	49.0
		Greece (h = 35 km).			
"	2	Um	iP	05 47	54.6
		Nicaragua (h = 150 km).			
"	2	Ud	iP	05 53	04.3
"	2	Up	iP	06 39	38.5
		Ud	iP	06 39	56.6
"	2	Up	iPKP1	08 08	36.9
		Um	iPKP1	08 08	24.3
		Ud	iPKP1	08 08	37.3
		De	iPKP1	08 08	47.9
		South of Tonga Islands (h = N).			
"	2	De	iP	08 55	36.0
		Turkey (h = 30 km).			
"	2	Up	iRg	10 13	17.8
		Ud	i	10 13	00.0
			iRg	10 13	02.4
		Central Sweden. Near-surface event.			
"	2	Ud	i(P)	10 32	28.3
"	2	Ud	i(P)	10 32	40.1
"	2	Ud	i(P)	11 13	39.9
"	2	Ud	i(P)	11 14	12.7
"	2	Ki	iP	11 28	05.5
		Sk	iP	11 28	26.7
		Um	iP	11 28	11.3
		Ud	iP	11 28	30.1
		Molucca Passage (h = 80 km).			

1976

July	2	Up	iSgl	11 53	50.6
			iRg	11 53	57.2
		Um	iSgl	11 54	36.4
		Ud	iPgl	11 53	41.5
			iSgl	11 54	08.2
		Coast of Hälsingland, Sweden, 61.2°N, 17.1°E. Origin time = 11 53 05. M _L = 2.0 (Um,Ud). Near-surface event.			
"	2	Up	iP	12 47	28.4
		Ud	iP	12 47	34.5
		De	iP	12 47	52.5
		Kurile Islands (h = 25 km).			
"	2	Up	iP	12 49	34.2
		Ki	eP	12 49	35
		Sk	iP	12 49	14.7
		Um	iP	12 49	37.9
		Ud	eP	12 49	24
		De	iP	12 49	24.1
		Dominican Republic (h = 55 km).			
"	2	Ud	iP	13 01	49.7
		Kurile Islands (h = N).			
"	2	Ud	iP	13 49	36.5
"	2	Ud	iP	16 05	27.5
"	2	Ki	iP	16 37	39.0
		Um	iP	16 38	08.5
		Ud	iP	16 38	30.2
		De	iP	16 38	53.3
		Alaska (h = 25 km).			
"	2	Ud	iP	17 03	48.5
"	2	Up	iP	17 21	14.8
		Ki	iP	17 20	38.2
		Sk	eP	17 20	07
		Um	iP	17 20	54.3 D
			ipP	17 21	08.4
		Ud	iP	17 21	21.9
		De	iP	17 21	35.2
		Japan. h = 55 km (Um).			
"	2	Up	iPKP1	17 43	50.6
			ipPKP1	17 44	01.4
		Sk	iPKP1	17 43	43.1
		(cont.)			

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1976				1976			
July	2	(cont.)		July	3		
		Sk	ipPKP1 17 43 54.1		Up	iPgl	07 26 43.4
		Um	iPKP1 17 43 38.1			iSn	07 27 10.4
		Ud	iPKP1 17 43 52.0			iSgl	07 27 14.9
			ipPKP1 17 44 02.8		Ki	eSgl	07 31 07
		De	iPKP1 17 43 59.3		Sk	eSn	07 28 17
		Kermadec Islands.				iSgl	07 28 39.6
		h = 35 km (Up,Sk,Ud).			Um	iSgl	07 29 12.3
"	2	Um	iPKP 20 53 16.8		Ud	iPgl	07 26 29.1
		New Hebrides Islands				iSgl	07 26 51.0
		(h = 120 km).			De	iPgl	07 26 35.0
"	2	Ud	iSgl 21 00 22.2			iSgl	07 27 00.6
"	2	Up	iP 22 06 25.2		Västergötland, Sweden, 58.4°N, 13.8°E.		
		Ki	eP 22 06 26		Origin time = 07 26 01.		
		Um	iP 22 06 22.8		M _L = 2.8 (Up,Sk,Um,Ud,De).		
		Ud	iP 22 06 35.9		Felt.		
		De	iP 22 06 34.0	"	3	Ud	iPKP1 10 24 32.1
		Sumatra (h = N).				De	iPKP1 10 24 43.0
"	2	Up	iPKP1 22 16 30.8	"	3	Up	iSgl 11 52 27.9
		Ki	iPKP 22 16 20.0			Ud	iPgl 11 51 03.8
		Um	iPKP 22 16 27.4				iSgl 11 51 26.7
		Ud	iPKP1 22 16 32.3				iRg 11 51 34.1
		De	iPKP1 22 16 43.1		Regional near-surface event.		
		Tonga-Kermadec Islands			Origin time = 11 50 33.		
		(h = 570 km).		"	3	Up	iP 16 44 02.0
"	2	Ud	iP 23 11 45.0			iS	16 52 45
"	3	Up	iP 01 12 07.1				micr sec
		Ki	eP 01 11 22			P	Z' 0.1 1.3
		Ud	iP 01 12 13.5			Mx	E 1.4 18
		Kurile Islands (h = 25 km).				Mx	N 7.9 20
"	3	Up	iRg 02 16 35.1			Mx	Z 2.7 17
		Ud	iRg 02 16 20.7		Ki	iP	16 43 49.5
		Central Sweden.					micr sec
		Near-surface event.				Mx	E 1.7 12
"	3	Up	iP 04 34 58.7			Mx	N 7.4 17
		Ki	iP 04 34 40.3			Mx	Z 2.0 13
		Sk	eP 04 35 06		Sk	iP	16 44 13.8
		Um	iP 04 34 46.2		Um	iP	16 43 52.4
		Ud	iP 04 35 07.7			iS	16 52 27
		Luzon (h = N).			Ud	iP	16 44 14.1
"	3	Ud	iP 05 13 05.0		De	iP	16 44 17.9
"	3	Up	iP 06 54 38.4		Burma-China (h = N).		
		i	06 54 46.7		M = 6.0 (Up,Ki).		
		Ud	iP 06 54 21.2	"	3	Um	iPKP 17 08 27.7
		i	06 54 30.3			Ud	i(PKP) 17 08 26.2
"	3						iPKP 17 08 32.5
						De	iPKP 17 08 36.8
					Loyalty Islands (h = 60 km).		
"	3	Up	eP 17 44 09	"	3	Up	eP 17 44 09
		(cont.)				(cont.)	

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1976				1976					
July	3	(cont.)		July	4	(cont.)			
		Ki	iP	17 43 51.4		Up	ipPKP1	19 21 17.8	
		Ud	iP	17 44 16.8				micr sec	
		Talaud Islands (h = 45 km).					PKP1 Z'	0.3 0.8	
"	3	Ud	iP	18 41 31.2		Ki	i(PKP)	19 20 01.3	
							i(PKP)	19 20 04.9	
							iPKP	19 20 12.4	
"	3	Up	iP	19 07 26.6		Sk	iPKP1	19 20 17.8 D	
		Ud	iP	19 07 23.2		Um	iPKP1	19 20 12.9	
							i	19 20 18.8	
"	3	Up	iPKP1	20 14 55.7		Ud	iPKP	19 20 24.2	
			iPKP2	20 14 59.8			iPKP1	19 20 27.2 D	
		Sk	iPKP1	20 14 48.5			ipPKP1	19 21 20.6	
		Um	iPKP1	20 14 43.4		De	iPKP	19 20 30.8	
		Ud	iPKP1	20 14 57.8			iPKP1	19 20 36.4 D	
			iPKP2	20 15 03.0			iPKP2	19 20 43.4	
		De	iPKP1	20 15 06.0			ipPKP1	19 21 29.8	
"	3	Ud	iP	22 39 17.6		Kermadec Islands.			
						h = 200 km (Up,Ud,De).			
"	4	Up	iP	03 03 55.7 C	"	4	Ud	iPKP	22 59 19.2
			iPn	03 05 01.9			Tonga Islands (h = 90 km).		
			iPP	03 05 14.2					
				micr sec	"	5	Up	iP	02 58 34.1
		P	Z'	1.3 0.8			Ki	iP	02 57 53.1
		Mx	E	0.6 10			Sk	eP	02 58 29
		Mx	N	0.5 10			Um	iP	02 58 11.1
		Mx	Z	1.1 10			Ud	iP	02 58 41.0
		Ki	iP	03 03 39.1 C			Japan (h = 15 km).		
			i	03 04 43.1					
				micr sec	"	5	Up	iPKP	03 02 02.9
		P	Z'	1.6 0.8			Ki	ePKP	03 01 51
		Mx	E	0.7 9			Um	iPKP	03 01 59.8
		Mx	N	0.4 10			New Hebrides Islands		
		Mx	Z	0.4 8			(h = 20 km).		
		Sk	iP	03 04 10.6 C	"	5	Ud	iP	07 58 48.6
			iPP	03 05 33.8			De	iP	07 58 45.5
		Um	iP	03 03 40.2 C	"	5	Ud	iP	09 04 16.9
			i	03 04 25.1	"	5	Ud	iP	10 05 26.2
			iPP	03 04 56.4	"	5	Ud	iP	10 04 51.0
		Ud	iP	03 04 12.0 C	"	5	Up	iPKP1	12 15 36.2 C
		De	iP	03 04 19.1 C				micr sec	
			iPn	03 05 40.9				PKP1 Z'	0.3 0.8
		Kazakh SSR.					Ki	iPKP	12 15 24.1
		m = 6.9, M = 4.8 (Up,Ki).						iSKP1	12 18 08.7
		Underground explosion.					Sk	ePKP1	12 15 29
"	4	Ud	eP	04 32 33				iSKP1	12 18 23.7
		Japan (h = N).					Um	iPKP	12 15 29.6
"	4	Ud	eP	05 19 02				iSKP1	12 18 18.7
"	4	Up	iPKP1	19 20 25.6 D			Ud	iPKP1	12 15 38.0 C
			i	19 20 32.3			(cont.)		
		(cont.)					(cont.)		

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

1976				1976			
July				July			
	5	(cont.)			6	(cont.)	
		De	iPKP1 12 15 48.1 C			Ud	iP 03 04 42.6 C
		Tonga-Kermadec Islands				De	eP 03 04 41
		(h = 510 km).				Kashmir-Tibet (h = 55 km).	
"	5	Ud	iP 12 51 35.2	"	6	Ud	eP 04 06 57
		California (h = 5 km).					
"	5	Ki	iP 14 01 44.2	"	6	Ud	eP 07 01 23
		Um	iP 14 01 50.5			Colombia (h = 130 km).	
		Ud	iP 14 02 10.0	"	6	Up	iP2 10 45 15.3
		Halmahera (h = 90 km).				Ki	iP1 10 44 29.1
"	5	Up	iP 17 04 15.6			Sk	iP2 10 44 48.6
		i	17 04 28.9			Ud	iP1 10 45 02.6
		Ud	iP 17 04 15.6				iP2 10 45 09.0
		Aleutian Islands (h = 55 km).				California (h = N).	
"	5	Sk	iP 17 18 18.0	"	6	Up	iP 12 20 49.6
"	5	Up	iP 18 36 13.9			Ki	iP 12 19 54.7
		Um	iP 18 35 46.3			Sk	iP 12 20 31.4
		Ud	iP 18 36 13.3			De	iP 12 21 13.8
		Aleutian Islands (h = 60 km).				Kamchatka (h = 50 km).	
"	5	Up	iP 18 39 24.6	"	6	Ud	iPKP1 13 06 43.3
			micr sec			De	iPKP1 13 06 54.5
		P	Z' 0.1 0.8	"	6	Up	iP 13 52 17.1
		Ki	iP 18 38 30.7			Ki	iP 13 52 19.9
		Um	iP 18 38 57.2			Sk	eP 13 52 05
		Ud	iP 18 39 24.0			Ud	iP 13 52 07.3
		i	18 39 43.9			De	iP 13 52 08.3
		De	iP 18 39 46.5			Colombia (h = 160 km).	
		Aleutian Islands (h = 55 km).		"	6	Ud	iP 14 35 26.9
"	5	Up	micr sec	"	6	Ud	iP 20 49 38.1
		Mx	Z 1.1 23	"	6	Um	iP 23 52 12.0
		Ki	ePKP1 20 12 03	"	7	Ud	iPKP1 01 59 43.7
		i	20 12 07.6			De	iPKP1 01 59 55.3
			micr sec	"	7	Ud	iP 06 29 28.6
		PKP1	Z' 0.4 2.1	"	7	Ud	i(P) 09 22 35.1
		Mx	N 1.1 20	"	7	Ki	iP 14 08 20.7
		Mx	Z 1.4 20			Sk	eP 14 07 43
		Sk	ePKP1 20 11 57			Ud	iP 14 07 37.6
		Um	iPKP1 20 12 02.5			De	iP 14 07 32.3
		i	20 12 09.4			Azores Islands (h = N).	
		i	20 12 19.7	"	7	Up	iP 18 35 39.7
		Ud	iPKP2 20 12 01.5			Um	iP 18 35 18.4
		De	iPKP1 20 11 56.3			Ud	iP 18 35 48.4
		i	20 12 03.6				
		South Pacific Ocean (h = N).					
"	6	Up	iP 03 04 26.7 C	"	7	Up	iP 18 35 39.7
		Ki	iP 03 04 30.0 C			Um	iP 18 35 18.4
		Sk	iP 03 04 48.8			Ud	iP 18 35 48.4
		(cont.)					

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1976

July 7 Ud ePKP 20 12 44
D'Entrecasteaux Islands
(h = 15 km).

" 7 Ud i(P) 21 53 12.1

" 8 Up iP 04 09 44.0
Ki iP 04 08 50.9
Sk iP 04 09 15.6
Um iP 04 09 02.8
Ud iP 04 09 40.5
De iP 04 10 04.7
Alaska (h = 40 km).

" 8 Ud i(P) 11 08 14.7

" 8 Up iP 11 58 10.1 C
iS 12 07 17
micr sec
Mx E 1.5 19
Mx N 2.9 20
Mx Z 4.0 21
Ki iP 11 57 28.2 C
ipP 11 57 42.3
eS 12 06 00
micr sec
P Z' 0.1 1.0
Mx E 2.7 15
Mx N 1.7 16
Mx Z 4.3 16
Sk iP 11 58 02.8
Um iP 11 57 47.1 C
i 11 57 59.0
iPP 12 00 28.4
iS 12 06 34
Ud iP 11 58 17.1 C
ipP 11 58 31.6
iPP 12 01 03.5
Japan.
h = 55 km (Ki,Ud).
M = 5.6 (Up,Ki).

" 8 Up i(P) 14 34 10.7

" 8 Up iP 15 25 33.7
i 15 25 40.0
Ki iP 15 26 46.5
Sk iP 15 26 12.7
Um iP 15 26 09.2
i 15 26 17.3
i 15 26 40.4
Ud iP 15 25 39.1
i 15 25 42.5
De iP 15 25 04.2
i 15 25 12.5
Ionian Sea (h = 50 km).

1976

July 8 Up eP 18 11 13
Ki iP 18 10 37.6
Sk eP 18 11 11
Um iP 18 10 53.7
Ud iP 18 11 21.4
De iP 18 11 35.2
Japan (h = 50 km).

" 8 Ud iP 18 23 11.0

" 8 Up iP 23 42 23.0
Ki iP 23 42 37.7
Sk iP 23 42 52.0
Um iP 23 42 23.7
Ud iP 23 42 40.2
De iP 23 42 36.0
i 23 42 40.0
Uzbek SSR (h = N).

" 9 Up iP 05 20 08.5
Um iP 05 19 40.7
Ud iP 05 20 06.5

" 9 Up iPKP1 05 49 47.4 D
iPKP2 05 49 50.4
micr sec
PKP1 Z' 0.1 0.8
Ki ePKP 05 49 31
Sk iPKP1 05 49 40.8 D
Um iPKP1 05 49 35.5 D
Ud iPKP 05 49 45.3
iPKP1 05 49 49.1 D
iPKP2 05 49 53.9
ipPKP1 05 51 16.7
De iPKP1 05 49 57.9 D
iPKP2 05 50 07.4
ipPKP1 05 51 23.5
Kermadec Islands.
h = 360 km (Ud,De).

" 9 Up iPKP1 08 17 01.6
Ud iPKP1 08 17 02.4
De iPKP1 08 17 13.9
Fiji Islands (h = 540 km).

" 9 Ud eP 09 16 40
Afghanistan-USSR (h = 140 km).

" 9 Up eP 09 40 14
Ki iP 09 41 06.4
Um iP 09 40 38.3
Ud iP 09 40 30.4
De iP 09 40 07.9
Turkey (h = N).

" 9 Up iP 10 18 05.7
Ki iP 10 17 33.5
(cont.)

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1976				1976					
July	9	(cont.)		July	10				
		Sk	iP			Up	iP	04 13 36.0	
		Um	iP			Ud	iP	04 13 32.1	
		Ud	iP		"	Ki	eP	04 16 22	
		De	iP			Sk	iP	04 15 28.9	
		Bonin Islands (h = N).				Um	iP	04 15 35.3	
		Up	iP			Ud	iP	04 14 40.9	
		Ki	iP			De	iP	04 13 51.9	
		Um	iP			Austria (h = N).			
		Ud	iP		"	Up	iPKP1	05 33 07.9	
		Talaud Islands (h = 80 km).				Um	iPKP1	05 32 57.9	
		Ud	iP			Ud	iPKP1	05 33 09.5	
		Ud	iP			De	iPKP1	05 33 18.1	
		Ud	iP		"	Up	iP	09 29 38.9	
		Up	iP			Ki	iP	09 29 41.3	
		Ki	iP			Um	iP	09 29 36.4	
		i				Ud	iP	09 29 50.3	
		Sk	eP			De	iP	09 29 47.7	
		Um	iP			Sumatra (h = 70 km).			
		i			"	Up	iP	09 35 00.1	
		Ud	iP			Ud	iP	09 35 12.7	
		Ud	eP		"	Up	iP	10 28 47.1 D	
		Talaud Islands (h = 80 km).				iPP		10 30 16.2	
		Up	iPKP1					micr sec	
		Ud	iPKP1			P	Z'	0.1 1.0	
		De	iPKP1			Ki	iP	10 28 53.3 D	
		Um	iP					micr sec	
		Ud	iP			P	Z'	0.1 0.8	
		i				Sk	iP	10 29 11.7 D	
		Ud	iP			Um	iP	10 28 43.7 D	
		De	eP			Ud	iP	10 29 04.3 D	
		Talaud Islands (h = 80 km).				De	iP	10 29 01.6 D	
		Up	iP			Tadzhik SSR (h = 30 km).			
						m = 5.6 (Up,Ki).			
		Mx	Z	1.0 23		Up	iP	10 35 48.7	
		Ki	iP	22 36 47.4		Um	iP	10 35 28.8	
		Sk	iP	22 37 18.9		Ud	iP	10 35 57.0	
		Um	iP	22 36 59.4					
		Ud	iP	22 37 26.6		"	10 ✓ Up	iP	11 47 12.7
		De	iP	22 37 37.2				iPcP	11 47 42.4
		Ryukyu Islands (h = 60 km).						ipP	11 48 44.2
		Up	iPKP1	23 04 11.8				iS	11 55 20.3
		Um	iPKP1	23 03 59.1				iScS	11 56 23.7
		Ud	iPKP1	23 04 13.1				micr sec	
		Up	iP	00 30 46.6				P	Z' 1.1 0.8
		Ki	iP	00 30 22.3				Mx	E 0.8 15
		Um	iP	00 30 32.1				Mx	N 1.0 14
		Ud	eP	00 30 54				Mx	Z 1.3 14
		West Caroline Islands (h = 90 km).				Ki	iP	11 46 26.6	
						(cont.)			

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

1976				1976			
July	10	(cont.)		July	10	(cont.)	
		Ki				Um	iPKP 22 27 40.1
		P	Z' 1.4 1.1			Ud	iPKP 22 27 47.9
		Mx	E 1.1 15			De	iPKP1 22 27 46.1
		Mx	N 1.0 12				Fiji Islands (h = 490 km).
		Mx	Z 1.0 12				
		Sk	iP 11 47 02.6	"	11	Ud	iP 00 34 29.6
		i	11 47 15.8				
		iPP	11 48 25.9	"	11	Ud	ePKP 00 49 20
		Um	iP 11 47 47.2				South Pacific Ocean.
		iS	11 55 33				Explosion?
		iScS	11 55 55.5				
		Ud	iP 11 47 18.8	"	11	Ki	iP 02 08 43.8
		De	iP 11 47 37.1			Um	iP 02 09 14.4
		iPP	11 50 14.6				Alaska (h = 130 km).
		iS	11 56 06.9				
			Sea of Okhotsk.	"	11	Ki	iP 02 41 47.8
			h = 410 km (Up,Sk).			Um	iP 02 41 56.0
			m = 6.4, M = 5.3 (Up,Ki).			Ud	iP 02 42 13.5
							Mindanao (h = 45 km).
"	10	Up	iP 12 17 35.3	"	11	Ud	iP 05 53 39.1
		Ud	iP 12 17 34.8				
"	10	Up	iP 16 48 48.7 C	"	11	Ud	i(P) 08 41 24.6
		iPP	16 50 30.1				
			micr sec	"	11	Up	iP 10 33 20.2
		P	Z' 0.2 1.1			Ki	iP 10 32 32.3
		Mx	N 0.6 12			Um	iP 10 32 54.4
		Mx	Z 0.5 13			Ud	iP 10 33 25.6
		Ki	iP 16 49 05.0 C				Kurile Islands (h = N).
			micr sec	"	11	Um	iP 10 38 44.0
		P	Z' 0.1 1.0				
		Mx	E 0.6 10	"	11	Ki	iP 10 46 32.4
		Mx	N 0.4 10			Um	iP 10 46 38.8
		Mx	Z 0.5 10			Ud	iP 10 46 59.7
		Sk	iP 16 49 16.2 C	"	11	Ud	iP 12 27 35.8
		Um	iP 16 48 51.3 C			i	12 28 02.6
		iPP	16 50 39.7				
		Ud	iP 16 49 04.5 C	"	11	Up	iP1 12 33 22.5
		iPP	16 50 56.6			iP2	12 33 29.7
		De	iP 16 48 56.7 C			Ki	iP1 12 33 22.3
		iPP	16 50 44.0			iP2	12 33 30.5
			Pakistan (h = N).			Sk	iP2 12 33 44.4
			m = 5.9, M = 4.9 (Up,Ki).			Um	iP2 12 33 26.9
"	10	De	iP 16 50 13.6			Ud	iP1 12 33 33.2
						iP2	12 33 39.7
"	10	Ki	e 19 55 08			De	iP2 12 33 38.2
		Ud	eP 19 55 29				Sumatra (h = 55 km).
			Talaud Islands (h = 50 km).	"	11	Up	iP 14 32 46.2
						i	14 33 06.1
"	10	Up	iPKP 22 27 47.1			Ud	iP 14 33 01.1
		Ki	iPKP 22 27 32.7			De	eP 14 32 31
			(cont.)				

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

1976				1976									
July	11	Up	iP	14	44	28.6	July	11	(cont.)				
		Ud	iP	14	44	34.8			Sk	iP	17 11 44.2		
"	11	Up	i	14	54	54.8			Um	iP	17 12 02.7		
		Ud	iP	14	54	41.9			De	iP	17 11 52.2		
			i	14	54	59.7			Panama.				
"	11	Up	iP	15	07	02.0	"	11	Up	iP2	17 13 58.0		
		Ki	iP	15	06	10.1			Ki	iP2	17 13 57.7		
		Um	iP	15	06	38.0			Sk	iP2	17 13 44.0		
		Ud	iP	15	07	01.3			Um	iP1	17 13 58.7		
"	11	Up	iP	17	07	14.3				iP2	17 14 01.1		
			i	17	07	15.5			Ud	iP2	17 13 47.7		
			i	17	07	18.1			De	iP2	17 13 49.7		
			iS	17	17	39.1			Panama.				
				micr sec			"	11	Um	iP	17 17 38.7		
		P	Z'	0.4	1.5		"	11	Up	iP2	17 27 41.7		
		i	Z'	0.8	1.2				Ki	iP2	17 27 40.6		
		Mx	E	17	24				Sk	iP1	17 27 24.7		
		Mx	N	15	25					iP2	17 27 27.7		
		Mx	Z	37	24					i	17 33 19.8		
		Ki	iP	17	07	13.9			Um	iP1	17 27 41.9		
			i	17	07	15.9				iP2	17 27 44.8		
			i	17	07	18.0			Ud	iP2	17 27 32.1		
			iPP	17	10	38.0			De	iP2	17 27 33.5		
			iS	17	17	42.3			Panama (h = N).				
				micr sec			"	11	Up	iP2	17 34 15.7		
		P	Z'	0.4	1.4				Ki	iP2	17 34 16.1		
		i	Z'	2.6	1.9				Sk	iP2	17 34 02.7		
		Mx	E	36	23				Um	iP1	17 34 16.3		
		Mx	N	29	24					iP2	17 34 20.1		
		Mx	Z	39	25				Ud	iP2	17 34 05.6		
		Sk	iP	17	07	00.4			Panama.				
			i	17	07	02.2			"	11	Sk	iP	17 49 26.8
			i	17	07	04.5			"	11	Sk	eP	17 53 34
			iPP	17	10	16.2					Um	iP	17 53 51.0
		Um	iP	17	07	17.3			Panama.				
			i	17	07	19.4			"	11	Ki	iP	18 08 15.9
			i	17	07	21.7					Sk	eP	18 07 37
			iPP	17	10	45.2					Ud	iP	18 07 06.1
			iS	17	17	46			"	11	Up	eP	18 09 49
		Ud	iP	17	07	04.7					Ki	eP	18 09 48
			i	17	07	06.2					Sk	eP	18 09 34
			i	17	07	08.5					Um	iP	18 09 51.7
		De	iP	17	07	07.5			Panama.				
			i	17	07	09.5			"	11	Ki	eP	18 29 05
			i	17	07	11.8					Sk	eP	18 28 51
		Panama (h = 20 km).									Um	iP	18 29 08.3
		m = 7.0, M = 6.7 (Up,Ki).								Panama.			
		Multiple event with											
		successively increasing											
		amplitudes.											
"	11	Ki	iP	17	11	57.5	"	11	Ki	eP	18 29 05		
		(cont.)								Sk	eP	18 28 51	
										Um	iP	18 29 08.3	
									Panama.				

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

1976

July 11 ✓ Up iP 18 33 04.0 C
 P Z' 0.2 1.5
 Ki iP 18 33 03.9 C
 i 18 33 22.4
 P Z' 0.4 1.7
 Sk iP 18 32 50.6 C
 i 18 33 07.4
 i 18 33 37.5
 Um iP 18 33 06.6 C
 Ud iP 18 32 54.8
 De iP 18 32 57.2

Panama (h = N).
 m = 6.3 (Up,Ki).

" 11 Up eP 18 47 12
 Ki eP 18 47 13
 Um iP 18 47 16.2
 Panama.

" 11 Ki iP 18 58 11.4
 Sk iP 18 57 57.7
 Um iP 18 58 14.9
 Panama-Colombia (h = N).

" 11 Ki eP 19 20 32
 Sk iP 19 20 17.8
 Um iP 19 20 34.6
 Panama-Colombia (h = N).

" 11 Up eP 19 31 13
 Ki iP 19 31 12.9
 Sk iP 19 30 59.3
 Um iP 19 31 16.0
 Panama-Colombia (h = N).

" 11 Up eP 19 38 26
 Ki eP 19 38 26
 Sk iP 19 38 10.8
 Um iP 19 38 29.1
 i 19 38 33.6
 Ud iP 19 38 14.8
 Panama (h = N).

" 11 ✓ Up iP 20 54 32.2 C
 i 20 54 38.1
 iS 21 04 55.1
 P Z' 0.3 1.3
 i Z' 1.3 1.4
 Mx E 41 27
 Mx N 32 25
 Mx Z 87 27

(cont.)

1976

July 11 (cont.)
 Ki iP 20 54 32.5 C
 i 20 54 38.2
 iS 21 04 59
 iP'P' 21 20 37.7
 P Z' 0.4 1.2
 i Z' 3.3 1.7
 Mx E 55 22
 Mx N 54 23
 Mx Z 57 24
 Sk iP 20 54 18.7 C
 i 20 54 24.1
 iPP 20 57 38.9
 iP'P' 21 20 42.7
 Um iP 20 54 35.8 C
 i 20 54 41.7
 iS 21 05 04
 iP'P' 21 20 38.7
 Ud iP 20 54 22.6 C
 i 20 54 28.6
 De iP 20 54 25.5 C
 i 20 54 31.1
 iP'P' 21 20 36.6

Panama (h = 5 km).
 m = 7.1, M = 6.9 (Up,Ki).
 Double event, small and
 large, in average about
 5.6 sec apart.

" 11 Sk iP 21 04 21.5
 Um iP 21 04 38.1
 Panama.

" 11 Up iP 21 05 24.7
 Sk iP 21 05 10.6
 Um iP 21 05 27.3
 Ud iP 21 05 14.7
 De iP 21 05 16.9
 Panama.

" 11 Up iP 21 07 31.3
 Ki iP 21 07 31.9
 Sk iP 21 07 17.5
 Um iP 21 07 34.5
 De iP 21 07 25.0
 Panama.

" 11 Ki iP 21 09 17.9
 Sk iP 21 09 03.9
 Um iP 21 09 21.0
 De iP 21 09 10.5
 Panama.

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

1976

July 11 Up iP 21 11 05.6 C
 Ki iP 21 11 05.7 C
 micr sec
 P Z' 0.1 1.0
 Sk iP 21 10 51.6 C
 Um iP 21 11 08.9 C
 Ud iP 21 10 55.5
 De iP 21 10 58.1 C
 Panama (h = N).

" 11 Sk iP 21 12 26.3
 Um iP 21 12 43.3
 Panama.

" 11 Sk eP 21 17 47
 Um iP 21 18 04.2
 Panama.

" 11 De iP 21 29 46.0

" 11 Um iP 21 30 05.8

" 11 Ki iP 21 31 00.3
 Sk iP 21 30 46.2
 Um iP 21 31 02.3
 De eP 21 30 54
 Panama (h = N).

" 11 Sk eP 21 32 33
 Um iP 21 32 51.2
 Panama.

" 11 Um iP 21 33 39.6

" 11 Sk eP 21 37 51
 Um iP 21 38 07.7
 Panama.

" 11 Um iP 21 44 35.6

" 11 Ki iP 21 45 54.1
 Sk eP 21 45 40
 Um iP 21 45 57.6
 Panama.

" 11 Um iP 21 48 50.2

" 11 Um eP 22 00 33

" 11 Sk eP 22 04 18
 Um iP 22 04 35.3
 Panama.

1976

July 11 Up eP 22 16 01
 Ki iP 22 15 59.5
 micr sec
 P Z' 0.1 1.5
 Sk iP 22 15 43.8
 Um iP 22 16 01.2
 i 22 16 22.2
 Ud iP 22 15 49.3
 De eP 22 15 53
 Panama (h = 10 km).

" 11 Um iP 22 17 53.8

" 11 Ki eP 22 21 42
 Sk iP 22 21 28.0
 Um iP 22 21 45.1
 Panama.

" 11 Up eP 22 23 31
 Ki iP 22 23 27.1
 Sk eP 22 23 14
 Um iP 22 23 30.4
 i 22 23 35.1
 Ud eP 22 23 21
 De eP 22 23 24
 Panama (h = N).

" 11 Ki iP 22 42 03.9
 Sk iP 22 41 49.3
 Um iP 22 42 06.3
 Panama (h = N).

" 11 Ki iP 22 45 27.2
 Sk iP 22 45 13.7
 Um iP 22 45 31.0
 Ud iP 22 45 18.8
 Panama (h = N).

" 11 Um iP 22 52 12.2

" 11 Um iP 23 30 36.8

" 12 Ki ipP 00 02 07.2
 Sk ipP 00 01 52.1
 Panama (h = N).

" 12 Ki iP 00 19 14.5
 Sk iP 00 19 00.8
 Um iP 00 19 17.3
 Panama-Colombia (h = N).

" 12 Ki eP 00 21 06
 (cont.)

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

1976				1976						
July	12	(cont.)		July	12	Up	ipP	02 49 03.0		
		Sk	eP			Ki	eP	02 48 59		
		Um	i				ipP	02 49 03.3		
		Panama-Colombia (h = N).				Sk	iP	02 48 44.9		
"	12	Up	eP			Um	iP	02 48 01.4		
		Ki	iP				ipP	02 48 06.8		
		Sk	eP			Ud	iP	02 48 48.6		
		Um	iP				ipP	02 49 53.8		
		Panama (h = N).				De	ipP	02 48 55.1		
"	12	Up	iP			Panama. h = 20 km (Ki,Um,Ud).				
		Ki	iP		12	Sk	eP	03 06 49		
		Sk	iP			Um	iP	03 07 05.5		
		Um	iP			Panama (h = N).				
		Ud	iP		12	Up	iP	03 21 44.5		
		Panama (h = 60 km).						micr sec		
"	12	Up	iP			Ki	iP	Z 0.6 14		
		Ki	iP					03 21 38.4		
		Sk	iP					micr sec		
		Um	iP				Mx	E 0.6 13		
		Ud	iP				Mx	N 1.0 16		
		De	eP				Mx	Z 0.7 13		
		Panama (h = N).				Sk	iP	03 22 02.7		
"	12	Sk	eP			Um	iP	03 21 36.2		
		Um	iP			Ud	iP	03 21 58.9		
		Panama.				De	iP	03 22 01.5		
"	12	Ki	eP			Tibet (h = N).				
		Sk	eP		12	Sk	eP	03 24 25		
		Um	eP			Um	iP	03 24 43.6		
		Panama.				Panama.				
"	12	Up	iPKP2		12	Up	iSgl	03 31 20.5		
			ipPKP1			Sk	iSgl	03 31 13.3		
		Ki	ePKP			Um	iPg1	03 30 11.8		
		Sk	iPKP1				iSgl	03 30 27.7		
		Um	iPKP1			Ud	iSgl	03 31 37.4		
			ipPKP1			Ångermanland, Sweden, 62.8°N, 18.2°E.				
		Ud	iPKP1			Origin time = 03 29 50.				
			ipPKP1			$M_L = 2.2$ (Um,Ud).				
		De	iPKP1			"	12	Ki	eP	04 19 24
			ipPKP1					Sk	eP	04 19 08
		Kermadec Islands. h = 35 km (Um,Ud,De).						Um	iP	04 19 24.9
"	12	Um	iP			Panama (h = N).				
"	12	Up	iPKP1		12	Ki	iP	04 40 02.3		
		Um	iPKP1			Sk	iP	04 39 49.1		
		Ud	iPKP1			Um	iP	04 40 05.6		
		Panama (h = 35 km).				Panama (h = 35 km).				
"	12	Sk	eP		12	Sk	eP	04 49 43		
		Um	eP			Panama (h = N).				
		Panama.				Panama (h = N).				

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

1976				1976					
July	12	Up	iP	04 57 44.0	July	12	Up	iP1	11 54 32.2
		Um	iP	04 57 44.9				iP2	11 54 40.3
		Ud	iP	04 57 34.3			Ki	iP1	11 54 32.8
				Costa Rica (h = 120 km).				iP2	11 54 40.5
"	12	Up	eP	05 08 21			Sk	iP2	11 54 55.6
		Ki	iP	05 08 19.6			Um	iP1	11 54 28.8
		Sk	iP	05 08 05.0				iP2	11 54 36.1
		Um	iP	05 08 22.7			Ud	iP1	11 54 43.8
				Panama-Colombia (h = N).				iP2	11 54 51.2
"	12	Up	iP	06 30 34.8			De	iP1	11 54 40.8
			ipP	06 30 47.1				iP2	11 54 49.1
		Ki	iP	06 30 11.6	"	12	Um	iPKP	14 18 13.3
			ipP	06 30 24.4			Ud	ePKP	14 18 23
		Sk	iP	06 30 38.1			De	ePKP	14 18 29
			ipP	06 30 51.2	"	12	Up	iP	14 55 51.2
		Um	iP	06 30 19.7					micr sec
			ipP	06 30 32.0				P	Z' 0.1 1.0
		Ud	iP	06 30 43.9			Ki	iP	14 55 51.6 C
			ipP	06 30 57.0					micr sec
		De	eP	06 30 53				P	Z' 0.1 1.0
				Formosa.			Sk	iP	14 55 38.2 C
				h = 45 km (Up,Ki,Sk,Um,Ud).				ipP	14 55 46.2
"	12	Ki	iP	06 37 15.7			Um	iP	14 55 55.2 C
		Sk	iP	06 37 01.2				ipP	14 55 03.7
		Um	iP	06 37 18.4			Ud	iP	14 55 42.0 C
			i	06 37 28.2			De	iP	14 55 44.9 C
		Ud	iP	06 37 06.2				ipP	14 55 53.3
		De	iP	06 37 07.8			Panama.		
				Panama (h = 20 km).			h = 30 km (Sk,Um,De).		
"	12	Sk	iP	08 36 02.7			m = 6.0 (Up,Ki).		
		Um	iP	08 36 19.2	"	12	Ki	iP	15 10 48.3
				Panama-Colombia (h = N).			Sk	iP	15 10 34.4
"	12	Up	iRg	09 04 55.6			Um	iP	15 10 51.3
		Ud	iRg	09 04 39.1			Panama (h = N).		
				Central Sweden.	"	12	Up	iP	15 17 26.4
				Near-surface event.			Ki	iP	15 17 25.1
"	12	Sk	iPKP1	09 38 23.5			Sk	iP	15 17 12.4
		Um	iPKP1	09 38 17.1			Um	iP	15 17 29.2
"	12	Um	eP	10 08 12			Ud	iP	15 17 16.4
"	12	Um	ipP	10 58 04.0			De	iP	15 17 19.0
				Panama (h = N).			Panama (h = N).		
"	12	Ki	iP	11 20 49.3	"	12	Ki	eP	15 30 14
		Sk	iP	11 20 35.6			Sk	iP	15 30 00.2
		Um	iP	11 20 52.4			Um	eP	15 30 17
		Ud	eP	11 20 39			Panama.		
		De	iP	11 20 41.6	"	12	Up	iPKP1	16 36 04.6
				Panama-Colombia (h = N).				i	16 36 13.4
							Ki	ePKP	16 35 49
							Sk	iPKP1	16 35 58.1
							(cont.)		

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

1976				1976				
July	12	(cont.)		July	13	Ud	iP	03 13 49.7
		Um	iPKP1					
		Ud	iPKP1		"	13	Up	iPKP1
		De	iPKP1					03 21 37.1 C
			i					03 21 45.6
								micr sec
		Kermadec Islands (h = 40 km).					PKP1	Z' 0.1 1.0
"	12	Up	iP			Ki	ePKP1	03 21 15
"	12	Um	iP			Sk	iPKP1	03 21 29.9 C
"	12	Um	iP			Um	iPKP1	03 21 24.8 C
"	12	Um	iP				ipPKP1	03 21 33.3
"	12	Um	iP			Ud	iPKP1	03 21 38.4 C
"	12	Um	iP				iPKP2	03 21 44.1
"	12	Ud	iP				ipPKP1	03 21 46.8
"	12	Ud	eP			De	iPKP1	03 21 47.1 C
"	12	Ud	eP				ipPKP1	03 21 55.0
"	12	Ud	eP				i	03 22 05.2
"	12	Ki	iP			Kermadec Islands. h = 30 km (Up,Um,Ud,De).		
"	12	Ud	iP		"	13	Up	i
"	12	Ud	iP				Um	iPKP1
"	12	Ud	iP				Ud	iPKP1
"	12	Ud	iP				De	iPKP2
"	12	Ud	iP					03 25 19.7
"	12	Ud	iP					03 24 59.8
"	12	Ud	iP					03 25 13.3
"	12	Ud	iP					03 25 28.9
"	12	Ud	iP		"	13	Up	il
"	12	Ud	iP				i	03 47 20.2
"	12	Ud	iP				i	03 48 37.5
"	12	Ud	iP				i	03 48 46.2
"	12	Ud	iP			Sk	il	03 47 13.7
"	12	Ud	iP			Um	iPKP1	03 47 00.7
"	12	Ud	iP				i	03 47 08.0
"	12	Ud	iP			Ud	iPKP1	03 47 14.3
"	12	Ud	iP				il	03 47 22.4
"	12	Ud	iP			De	il	03 47 30.3
"	12	Ud	iP		"	13	Up	iPKP1
"	12	Ud	iP				il	03 48 37.5
"	12	Ud	iP				Um	iPKP1
"	12	Ud	iP				il	03 48 26.6
"	12	Ud	iP				il	03 48 34.3
"	12	Ud	iP			Ud	iPKP1	03 48 39.4
"	12	Ud	iP				il	03 48 48.3
"	12	Ud	iP			De	il	03 48 57.0
"	12	Ud	iP		"	13	Um	iP
"	12	Ud	iP					04 12 19.9
"	12	Ud	iP					Panama (h = N).
"	12	Ud	iP		"	13	Up	iP
"	12	Ud	iP				Ki	iP
"	12	Ud	iP				Sk	iP
"	12	Ud	iP				Um	iP
"	12	Ud	iP				Ud	iP
"	12	Ud	iP					06 21 21.0
"	12	Ud	iP					06 21 21.1
"	12	Ud	iP					06 21 07.3
"	12	Ud	iP					06 21 24.3
"	12	Ud	iP					06 21 09.9
"	12	Ud	iP					Panama (h = N).
"	12	Ud	iP		"	13	Up	iP
"	12	Ud	iP				Ki	iP
"	12	Ud	iP					06 34 12.6
"	12	Ud	iP					06 34 12.1
"	12	Ud	iP					(cont.)

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

1976							
July	13	(cont.)					
		Sk	iP	06 33	58.8		
		Um	iP	06 34	15.2		
		Panama (h = N).					
"	13	Up	iP	07 39	15.4		
		Ki	iP	07 39	04.4		
		Sk	eP	07 39	25		
		Um	iP	07 39	05.4		
		Ud	iP	07 39	26.4		
		Burma-China (h = N).					
"	13	Up	iP	07 45	55.9		
		Ki	iP	07 45	54.7		
		Sk	eP	07 46	16		
		Um	iP	07 45	49.6		
		Ud	iP	07 46	12.3		
		De	eP	07 46	14		
		Kashmir-Tibet (h = N).					
"	13	Ki	iP	08 09	12.3		
		Ud	iP	08 09	26.4		
"	13	Um	iP	08 50	31.9		
"	13	Sk	iP	09 37	13.3		
		Um	iP	09 37	30.4		
		Panama-Colombia (h = N).					
"	13	Ud	iP	12 14	04.7		
		Yugoslavia (h = N).					
"	13	Up	iP	15 28	48.7		
			iS	15 31	37.0		
			i	15 32	02.1		
					micr sec		
		Mx	E	4.1	21		
		Mx	N	9.8	19		
		Mx	Z	13	18		
		Ki	iP	15 27	18.8		
			i	15 27	29.9		
			iSn	15 28	39.7		
			iS	15 28	55.9		
			iTSgl	15 32	58.2		
					micr sec		
		P	Z'	0.1	0.9		
		i	Z'	0.3	0.8		
		Mx	E	12	18		
		Mx	N	14	19		
		Mx	Z	11	15		
		Sk	iP	15 27	50.0		
			iS	15 29	31.6		
		Um	iP	15 28	05.1		
			i	15 28	09.3		
			iS	15 29	56.7		
		(cont.)					

1976							
July	13	(cont.)					
		Ud	iP	15 28	37.5		
			iS	15 30	58.3		
		De	iP	15 29	26.7		
			iS	15 32	43.5		
		Norwegian Sea (h = N).					
"	13	Up	iP	15 38	34.9		
			i	15 41	44.6		
		Ki	iP	15 37	06.6		
			i	15 37	15.0		
			iS	15 38	41.4		
					micr sec		
		P	Z'	0.1	0.6		
		Sk	iP	15 37	35.1		
			iS	15 39	14.3		
		Um	iP	15 37	49.8		
			iS	15 39	39.4		
		Ud	iP	15 38	23.2		
			iS	15 40	42.3		
		De	iP	15 39	12.1		
			i	15 39	20.8		
			i	15 43	03.5		
		Norwegian Sea (h = N).					
"	13	Up	iP	17 03	04.7		
			i	17 06	14.5		
					micr sec		
		Mx	E	1.2	20		
		Mx	N	3.4	19		
		Mx	Z	5.7	20		
		Ki	iP	17 01	36.1		
			i	17 01	45.6		
			iS	17 03	09.2		
			eTPgl	17 06	35		
			iTSgl	17 07	09.9		
					micr sec		
		P	Z'	0.1	0.7		
		Mx	E	3.3	15		
		Mx	N	4.5	17		
		Mx	Z	4.1	15		
		Sk	iP	17 02	06.7		
			i	17 02	08.4		
			iS	17 03	46.8		
			i	17 03	51.0		
		Um	iP	17 02	22.0		
			i	17 02	24.9		
			iS	17 04	11.1		
		Ud	iP	17 02	54.1		
			i	17 05	31.5		
		De	iP	17 03	42.5		
		Norwegian Sea (h = N).					
"	13	Ud	iP	18 41	36.7		

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

1976

July 13 Up eP2 18 58 07
Ki iP1 18 58 01.1
Ud iP1 18 58 18.8
iP2 18 58 23.3
Kashmir-Tibet (h = 45 km).

" 13 Up iP 20 42 22.1
Ki iP 20 43 35.4
Sk iP 20 43 00.9
Ud iP 20 42 28.2
De iP 20 41 51.6
Ionian Sea (h = 50 km).

" 13 Ud iP 21 13 06.8
i 21 13 14.8

" 13 Up iP 21 46 32.6
Um iP 21 47 13.6
Ud iP 21 46 39.0

" 14 Up iP 01 02 44.8
Ud iP 01 02 02.7

" 14 ✓ Up iP 01 45 15.8
i 01 45 17.3
iS 01 55 39
micr sec
P Z' 0.1 1.5
Mx E 1.2 20
Mx N 1.1 20
Mx Z 2.6 19
Ki iP 01 45 14.8
i 01 45 17.5
iS 01 55 41
micr sec
P Z' 0.4 1.5
Mx E 2.2 24
Mx N 1.6 24
Mx Z 2.1 24
Sk iP 01 45 00.7
i 01 45 03.7
Um iP 01 45 18.1
i 01 45 21.1
iS 01 55 46
Ud iP 01 45 04.2
i 01 45 07.5
De iP 01 45 07.8
i 01 45 10.5

Panama (h = N).
m = 6.2, M = 5.5 (Up, Ki).

" 14 Ki ePKP 02 10 11
Pacific Ocean (h = N).

" 14 Up iP 03 49 25.0
(cont.)

1976

July 14 (cont.)
Up iP 03 49 44.1
Ki iP 03 48 45.8
Sk iP 03 49 19.8
Um iP 03 49 03.4
i 03 49 06.4
iP 03 49 18.3
Ud iP 03 49 32.4
De iP 03 49 46.3
Japan.
h = 70 km (Up, Um).

" 14 Ki eP 05 10 16
Sinkiang, China (h = 50 km).

" 14 Up eP 05 23 03
Ki eP 05 22 59
Sk eP 05 22 45
Um iP 05 23 01.9
Panama-Colombia (h = N).

" 14 Up iP 05 42 50.8
i 05 46 19.9
iLg2 05 47 00.5
micr sec
Mx E 0.4 8
Mx N 0.4 8
Mx Z 0.5 9
Ki iP 05 44 26.9
micr sec
Mx E 0.4 8
Mx N 0.4 10
Mx Z 0.4 8
Sk iP 05 43 37.1
Um iP 05 43 45.4
Ud iP 05 42 50.7
De iP 05 41 59.5
i 05 43 40.2
iLg2 05 45 00.3
Austria (h = N).

" 14 ✓ Up iP 07 27 08.5
iPP 07 31 15.4
iSKS 07 37 43
iS 07 38 40
micr sec
PP Z' 1.1 1.9
Mx E 12 18
Mx N 11 18
Mx Z 24 20
Ki iP 07 27 01.1
iPP 07 31 05.4
iSKS 07 37 34
micr sec
PP Z' 0.6 2.0
(cont.)

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

1976				1976				
July	14	(cont.)		July	14	(cont.)		
		Ki	micr sec			Ud	iPP 10 41 47.1	
		Mx	E 17 17			De	iP1 10 37 40.6	
		Mx	N 14 19				iPP 10 41 49.8	
		Mx	Z 14 17			Bali Island (h = N).		
		Sk	iP 07 27 17.5			m = 6.4, M = 5.4 (Up,Ki).		
			iPP 07 31 34.2					
			i 07 31 41.7		"	14	Up eP 12 30 06	
		Um	iP 07 27 01.3				i 12 30 13.1	
			iPP 07 31 11.1				i 12 30 20.4	
			iSKS 07 37 36			Sk	iP 12 30 44.7	
			iS 07 38 28			Ud	iP 12 30 12.2	
		Ud	iP 07 27 17.1			De	iP 12 29 36.0	
			iPP 07 31 30.5					
			i 07 31 38.7		"	14	Ki eP 13 30 18	
		De	iP 07 27 18.6				Sk eP 13 30 51	
			iPP 07 31 29.6				Um iP 13 31 02.1	
			i 07 31 33.2				Ud eP 13 31 33	
		Bali Island (h = 40 km).				"	14	Sk eP 15 08 30
		m = 7.0, M = 6.7 (Up,Ki).					Panama (h = N).	
"	14	Um	iP 07 58 49.2			"	14	Ud iP 15 28 18.4
		Ud	iP 07 59 13.4			"	14	Um iP 16 27 36.2
		Alaska Peninsula (h = N).					Ud iP 16 28 02.5	
"	14	Up	iP 09 36 00.8			"	14	Ud iP 16 55 47.0
		Ki	iP 09 35 51.2			"	14	Up iP 19 15 34.0
		Sk	iP 09 35 41.9				Ki iP 19 15 33.4	
		Um	iP 09 35 59.4				Sk iP 19 15 19.6	
		Ud	iP 09 35 50.9				Um iP 19 15 36.3	
		De	iP 09 35 57.2				i 19 15 45.1	
		Honduras (h = 35 km).					Ud iP 19 15 24.4	
"	14	Up	iP1 10 37 30.7				De iP 19 15 25.9	
			iP2 10 37 35.3				Panama (h = N).	
			iPP 10 41 29.3			"	14	Up iP 19 19 08.7
			micr sec				i 19 19 14.9	
		PP	Z' 0.3 1.4				Ki iP 19 19 08.5	
		Mx	N 0.9 16				Sk iP 19 18 55.1	
		Mx	Z 1.0 19				Um iP 19 19 11.9	
		Ki	iP1 10 37 23.0				Ud iP 19 18 58.7	
			iP2 10 37 27.7				Panama (h = N).	
			ePP 10 41 25			"	14	Up iP 19 23 00.5
			micr sec				i 19 22 47.2	
		P1	Z' 0.1 1.0				Um iP 19 23 04.9	
		PP	Z' 0.1 1.4				Panama.	
		Mx	E 0.8 17			"	14	Up iP 20 06 27.6
		Mx	N 0.8 17			"	14	Ud iP 21 26 22.3
		Mx	Z 1.0 17					
		Sk	iP2 10 37 44.9					
			iPP 10 41 57.8					
		Um	iP2 10 37 28.4					
			iPP 10 41 27.5					
		Ud	iP1 10 37 39.8					
			iP2 10 37 44.3					
		(cont.)						

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

1976						1976								
July	14	Up				July	15	Up	iP	05	13	17.5	C	
		Mx	N	1.1	21			Ki	iP	05	13	17.4	C	
		Ki	iP	21	27	52.8								
									P	Z'	0.1	1.0		
		Mx	E	0.5	11			Sk	iP	05	13	03.3		
		Mx	N	0.5	13			Um	iP	05	13	19.8		
		Sk	eP	21	28	16			i	05	13	26.8		
		Ud	iP	21	28	09.9			iS	05	24	00		
		De	iP	21	28	10.2		Ud	iP	05	13	06.6		
		Kashmir-Tibet (h = N).						De	iP	05	13	10.3		
		M = 4.8 (Up,Ki).						Panama (h = N).						
"	14	Ud	iP	21	43	35.2	"	15	Ki	iP	08	18	35.6	
									Sk	i	08	19	09.3	
		Alaska (h = 25 km).												
"	15	Up	iP	00	14	37.0	"	15	Up	iP	12	11	49.0	
		Mx	N	1.1	20				Mx	N	0.5	10		
		Ki	eP	00	14	36			Mx	Z	0.4	11		
		Mx	N	1.1	20			Ki						
		Ud	iP	00	14	52.0			Mx	E	0.4	10		
			i	00	15	02.4			Mx	N	0.4	10		
		De	eP	00	14	55			Mx	Z	0.5	10		
		Kashmir-Tibet (h = 45 km).							Sk	eP	12	12	33	
		M = 4.8 (Up,Ki).							Um	iP	12	12	21.3	
									Ud	iP	12	12	01.0	
"	15	Up	iP	00	19	03.0			Turkey (h = N).					
		Ki	iP	00	19	08.5			M = 4.4 (Up,Ki).					
		Um	iP	00	19	09.1								
		Ud	iP	00	18	50.4								
		Virgin Islands (h = N).						"	15	Ki	eP	12	19	21
									Ud	iP	12	19	38.3	
"	15	Up	iP	00	48	12.7		"	15	Up	iLg1	13	06	06.0
									Ud	i	13	05	28.2	
		P	Z'	0.1	1.2				De	iS	13	03	23.3	
		Ki	iP	00	48	12.6 C				iLg1	13	04	11.2	
									Austria (h = N).					
		P	Z'	0.1	1.3									
		Sk	iP	00	47	59.1 C		"	15	Ud	iP	13	35	58.4
		Um	iP	00	48	16.2 C								
		Ud	iP	00	48	02.6 C		"	15	De	iP	15	06	40.9
			i	00	48	19.3								
		De	iP	00	48	05.4 C		"	15	Up	iP	19	45	52.1
		Panama (h = N).								Ki	eP	19	47	11
		m = 6.0 (Up,Ki).								Sk	iP	19	46	37.9
"	15	Ud	iP	02	21	40.0			Um	iP	19	46	34.4	
"	15	Up	iP	02	30	30.1			Ud	iP	19	46	02.2	
		Ud	iP	02	30	45.4			De	i	19	45	23.0	
		Hindu Kush (h = 25 km).							Greece-Albania (h = 10 km).					
"	15	Up	iSgl	05	03	19.4		"	15	Up	iP	20	29	32.5
		Ud	iSgl	05	02	13.7				i	20	29	58.0	
		Regional event.								Ki	iP	20	30	29.5
									(cont.)					

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

1976					1976				
July 15 (cont.)					July 16 (cont.)				
			micr	sec			micr	sec	
	Ki				Ki				
	Mx	E	0.5	11		Mx	N	0.5	12
	Mx	N	0.5	11	Sk	iP		15 12	36.8
	Mx	Z	0.6	12	Um	iP		15 12	09.3
	Sk	eP	20 30	11	Ud	iP		15 12	31.5
	Um	iP	20 29	56.9	De	iP		15 12	31.3
	Ud	iP	20 29	45.5	Kashmir-Tibet (h = N).				
	De	iP	20 29	20.7	M = 4.7 (Up,Ki).				
	Turkey (h = N).				"	16	Ki	eS	15 39 59
"	15	Up	iP	22 23 58.5			Um	i	15 42 11.6
		Sk	eP	22 24 08	Svalbard, near 77 1/2°N, 20 1/2°E.				
		Um	iP	22 23 41.8	Origin time = 15 35 53.				
		Ud	iP	22 24 06.6	Solution from Helsinki regional bulletin.				
"	15	Sk	eP	22 48 22	"	16	Ud	iPKP1	15 43 11.8
"	16	Up	iPKP1	02 30 14.4			De	iPKP1	15 43 22.5
		Sk	iPKP1	02 30 07.8	"	16	Up	iPP	16 19 29.3
		Um	iPKP1	02 30 02.6			Ki	ePKP	16 18 15
		Ud	iPKP1	02 30 16.1			Um	ipPKP	16 18 29.6
			iPKP2	02 30 21.2			Ud	iPKP	16 18 04.6
		De	iPKP1	02 30 23.8				ipPKP	16 18 21.9
			iPKP2	02 30 34.7				iPP	16 19 13.4
	Kermadec Islands (h = 15 km).						De	ipPKP	16 18 18.1
"	16	Up	iP	03 03 26.9			Chile. h = 60 km (Ud).		
		Ki	iP	03 03 27.5	"	16	Up	iP	16 28 58.9
		Sk	iP	03 03 41.7			Ki	iP	16 28 41.2
		Um	iP	03 03 23.9			Ud	iP	16 29 06.5
		Ud	iP	03 03 37.7			De	iP	16 29 12.9
		De	iP	03 03 35.0	"	16	Up	iP	16 30 05.6
	Sumatra (h = 20 km).						Ki	iP	16 30 35.4
"	16	Up	iP	04 17 12.0			Sk	iP	16 30 45.8
		Ki	iP	04 16 54.1			Um	iP	16 30 15.9
		Um	iP	04 17 02.3			Ud	iP	16 30 27.5
		Ud	iP	04 17 19.7			De	iP	16 30 17.4
	Mindanao (h = 140 km).				"	16	Um	iP	19 04 09.7
"	16	Ki	iP	08 54 09.2			Ud	iP	19 03 45.2
		Sk	iP	08 53 55.0	"	16	Ud	iP	19 19 02.1
		Um	iP	08 54 10.8	Hindu Kush (h = 160 km).				
		De	iP	08 54 01.5	"	16	Sk	iP	19 33 24.1
	Panama-Colombia (h = 35 km).						Um	iP	19 33 41.5
"	16	Up	i(P)	10 32 18.6	Panama-Colombia (h = N).				
"	16	Up	iP	15 12 16.0					
				micr sec					
		Mx	N	0.7 13					
		Ki	iP	15 12 13.6					
	(cont.)								

Up = Uppsalu, Ki = Kiruna, Sk = Skutumpah, Um = Umeå, Ud = Uddeholm, De = Delary

1976				1976			
July	16	Up	iP	22	17	06.1	
		Ki	eP	22	16	30	
		Um	iP	22	16	45.4	
			ipP	22	16	56.1	
		Ud	iP	22	17	13.1	
Japan.							
h = 40 km (Um).							
"	17	Um	iP	01	44	33.5	
		Ud	iP	01	44	38.1	
"	17	Ud	eP	02	11	26	
"	17	Up	iP	02	18	21.2	
			iS	02	29	13	
						micr sec	
		Mx	E	1.3	23		
		Mx	Z	2.3	24		
		Ki	iP	02	18	17.6	
			i	02	19	15.7	
						micr sec	
		Mx	N	1.6	24		
		Mx	Z	1.9	23		
		Sk	iP	02	18	06.5	
		Um	iP	02	18	22.3	
			ipP	02	18	30.3	
			iSKS	02	28	54	
			iS	02	29	18	
		Ud	iP	02	18	12.4	
			ipP	02	18	18.6	
South of Panama.							
h = 30 km (Um,Ud).							
M = 5.3 (Up,Ki).							
"	17	Up	iP	04	25	24.3	
			ipP	04	25	30.5	
			iS	04	34	37	
						micr sec	
		Mx	E	1.3	22		
		Mx	N	1.1	20		
		Mx	Z	1.7	24		
		Ki	iP	04	26	10.0	
			ipP	04	26	15.6	
						micr sec	
		Mx	E	0.7	16		
		Mx	N	0.7	15		
		Mx	Z	0.9	16		
		Sk	iP	04	25	38.4	
			ipP	04	25	44.5	
		Um	iP	04	25	48.4	
			ipP	04	25	56.3	
			iS	04	35	27	
		Ud	iP	04	25	19.3	
			ipP	04	25	25.9	
(cont.)							
July	17	(cont.)					
		De	iP	04	24	59.1	
Ascension Island.							
h = 25 km (Up,Ki,Sk,Um,Ud).							
M = 5.3 (Up,Ki).							
"	17	Up	iPKP1	05	24	00.2	
		Ud	iPKP1	05	24	01.6	
		De	iPKP1	05	24	12.2	
Tonga-Kermadec Islands							
(h = 630 km).							
"	17	Up	iP	05	36	21.6	
			ipP	05	36	28.2	
		Ki	iP	05	36	21.3	
			ipP	05	36	28.1	
		Sk	iP	05	36	07.5	
			ipP	05	36	14.5	
		Um	iP	05	36	25.1	
			i	05	36	31.6	
		Ud	iP	05	36	11.2	
Panama.							
h = 25 km (Up,Ki,Sk,Um).							
"	17	Up	eP	05	47	14	
			i	05	48	43.2	
			iSKS	05	57	48	
						micr sec	
		Mx	E	1.2	20		
		Mx	N	1.4	20		
		Mx	Z	2.4	20		
		Ki	eP	05	46	46	
						micr sec	
		Mx	E	1.6	21		
		Mx	N	1.4	20		
		Mx	Z	1.9	23		
		Um	iP	05	46	56.5	
			i	05	47	05.3	
			iSKS	05	57	33	
		Ud	eP	05	47	20	
West Irian (h = N).							
M = 5.7 (Up,Ki).							
"	17	Up	eP	07	38	41	
		Ud	iP	07	38	54.6	
"	17	Up	iP	08	44	11.8	
		Ud	iP	08	44	27.1	
		De	iP	08	44	10.9	
Iran (h = 30 km).							
"	17	Up	iP	09	14	58.5	
		Ki	iP	09	14	39.9	
						micr sec	
			P	Z'	0.1	1.2	
(cont.)							

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

1976				1976					
July	18	(cont.)		July	18	Up	eP	22 47 16	
		Ki	iPKP	07 02 06.3			i	22 47 18.4	
		Sk	ePKP	07 02 18		Um	iP	22 47 03.5	
		Um	iPKP	07 02 11.8		Ud	iP	22 47 28.6	
		Ud	iPKP1	07 02 14.6					
		De	iPKP1	07 02 25.4	"	18	Up	iP	23 19 33.5
		Fiji Islands (h = 570 km).					i	23 19 38.0	
"	18	Up	iP	08 18 52.9		Ki	iP	23 19 11.0	
		Ki	iP	08 18 15.1		Sk	iP	23 19 37.7	
		Um	iP	08 18 31.3		Um	iP	23 19 19.4 D	
		Ud	iP	08 19 00.0		Ud	iP	23 19 42.9	
		Japan (h = 80 km).				De	eP	23 19 52	
						Formosa (h = 45 km).			
"	18	Up	iP	13 35 32.1	"	19	Up	iP	09 50 14.5
			i	13 35 35.6			Um	iP	09 49 48.1
				micr sec			Ud	iP	09 50 19.1
		Mx	E	0.6 11	"	19	Up	i	14 27 17.6
		Mx	N	0.6 12			iSgl	14 27 31.0	
		Mx	Z	0.6 14		Ki	eSgl	14 29 41	
		Ki	i	13 37 09.1		Sk	iSgl	14 26 50.7	
				micr sec		Um	iSgl	14 28 32.3	
		Mx	E	0.6 14		Ud	iPgl	14 25 40.6	
		Mx	N	0.6 14			iSgl	14 26 30.5	
		Sk	iP	13 36 14.0		De	iSgl	14 27 21.2	
		Um	iP	13 36 10.4		Southwest Norway,			
			i	13 36 13.7		60.1°N, 6.0°E.			
		Ud	iP	13 35 39.8		Origin time = 14 24 33.			
		De	eP	13 34 59		M _L = 2.6 (Up,Um,Ud).			
		Greece (h = 30 km).			"	19	Um	iP	18 08 37.5
		M = 4.4 (Up,Ki).			"	19	Up	iP	18 09 48.8
"	18	Ud	iP	15 46 32.8		Ki	iP	18 09 20.6	
		Panama (h = N).				Um	iP	18 09 33.6	
"	18	Up	iP	17 14 18.0		Mariana Islands (h = 150 km).			
			i	17 14 28.3	"	19	Up	ePKP1	21 07 12
		Ki	iP	17 13 55.4		Um	iSKP1	21 09 48.5	
		Um	iP	17 14 03.3		Ud	iPKP1	21 07 14.7	
		Ud	iP	17 14 27.8		De	iPKP1	21 07 25.7 C	
		Formosa (h = 50 km).				Fiji Islands (h = 600 km).			
"	18	Up	eP	17 23 28	"	20	Up	iP	00 59 20.1
		Ki	eP	17 23 30				micr sec	
			i	17 23 35.9			P	Z' 0.1 1.0	
		Ud	eP	17 23 39			Mx	N 1.0 18	
			i	17 23 45.6			Mx	Z 1.8 19	
		De	eP	17 23 39		Ki	iP	00 58 30.4	
		Sumatra (h = N).						micr sec	
"	18	Up	i	21 23 50.4			Mx	E 0.9 18	
		Um	iP	21 23 21.3			Mx	N 0.8 17	
		Ud	iP	21 23 14.4			Mx	Z 1.2 18	
			i	21 23 28.3		Sk	iP	00 59 07.5	
"	18	Ud	eP	22 14 05		Um	iP	00 58 53.6	
		Yugoslavia (h = N).				(cont.)			

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

1976				1976				
July	20	(cont.)		July	20	Ud	eP	05 59 03
		Ud	iP			Ud	iP	06 42 22.0
		De	iP			Um	iP	10 55 19.6
		Kurile Islands (h = 35 km).				Up	eP	11 27 46
		M = 5.1 (Up,Ki).				Ki	iP	11 26 52.1
"	20	Up	i					micr sec
		Um	iPKP			P	Z'	0.1 1.0
		Ud	i			Um	iP	11 27 20.6
		Pacific Ocean (h = N).				Ud	iP	11 27 43.8
"	20	Up	iP			South of Alaska (h = 10 km).		
		i				Um	iP	14 40 46.2
		iS				Ki	iP	17 36 47.5
						South of Mariana Islands (h = N).		
		Mx	E			Ki	iP	18 06 17.0
		Mx	N			Um	iP	18 06 03.5
		Mx	Z			North Atlantic Ocean (h = N).		
		Ki	iP			Ki	eP	20 22 32
		i				Um	iP	20 22 37.8
		iSKS				Ud	iP	20 22 51.1
		iS				De	iP	20 22 47.6
						Up	iPKP1	23 10 46.6 D
							iPKP2	23 10 52.1
							i	23 11 22.7
							i	23 12 31.9
								micr sec
						PKP1	Z'	0.4 1.3
						PKP2	Z'	0.6 1.4
						Ki	i(PKP)	23 10 23.3
						Sk	i(PKP)	23 10 29.5
							iPKP1	23 10 41.0 D
						Um	iPKP1	23 10 36.0 D
						Ud	iPKP	23 10 42.6
							iPKP1	23 10 48.5 D
							iPKP2	23 10 55.7
						De	iPKP	23 10 48.4
							iPKP1	23 10 56.4 D
							iPKP2	23 11 09.2
						Kermadec Islands (h = 370 km).		
"	20	Up	iP			Up	iPKP1	23 26 31.8
		Ki	iP			Sk	iPKP1	23 26 25.0
		i				Um	iPKP1	23 26 19.6
		Um	iP			Ud	iPKP1	23 26 33.0
		Ud	iP			De	iPKP1	23 26 40.7
		De	iP			Kermadec Islands.		
		Severnaya Zemlya (h = N).				Um	iP	03 28 16.0
"	20	Up	iPKP1					
		Um	iPKP1					
		Ud	iPKP1					

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

1976				1976										
July	21	Up	iP	04	11	24.8	July	22	(cont.)					
		Ki	iP	04	11	25.0			Um	iP	07 07 45.3			
						micr sec			Ud	iP	07 08 16.0			
			P	Z'	0.1	1.0			Kurile Islands (h = 80 km).					
		Sk	iP	04	11	10.2			"	22	Ud	iSgl	10 49 33.8	
		Um	iP	04	11	27.6			Southwest Norway, 59.1°N, 6.8°E.					
		Ud	iP	04	11	14.7			Origin time = 10 47 40.					
		De	iP	04	11	17.9			By combination with Bergen and Kongsberg readings.					
		Panama (h = N).												
"	21	Ud	iP	04	33	15.0								
"	21	✓Up	iP	15	21	23.2		"	22	Up	iPKP1	14 07 51.8		
			i	15	21	32.5				Ud	iPKP1	14 07 51.6		
			iS	15	30	06				De	iPKP1	14 08 01.7		
						micr sec			"	22	Up	iP	14 41 13.5	
			P	Z'	0.5	1.1				Ki	iP	14 40 19.8		
			Mx	E	10	20				Um	iP	14 40 39.9		
			Mx	N	54	19				Ud	iP	14 41 10.2		
			Mx	Z	18	19				Aleutian Islands (h = 60 km).				
		Ki	iP	15	21	12.3		"	22	Ki	iP	14 50 34.7		
			iPP	15	23	32.2				Um	iP	14 50 52.7		
			iS	15	29	45				Ud	iP	14 51 12.6		
						micr sec			"	22	Up	iP	16 48 01.8	
			P	Z'	0.4	1.3				Ki	iP	16 48 01.2		
			Mx	E	8.7	13					P	Z'	0.1 0.9	
			Mx	N	50	17				Sk	iP	16 47 47.7		
			Mx	Z	9.1	14				Um	iP	16 48 04.6		
		Um	iP	15	21	13.3				Ud	iP	16 47 52.3		
			iS	15	29	46				De	iP	16 47 54.4		
		Ud	iP	15	21	35.9				Panama (h = 15 km).				
		De	iP	15	21	38.9				"	22	Up	iP	16 55 40.1
		Burma-China (h = 10 km).									Ki	iP	16 55 40.0	
		m = 6.6, M = 6.8 (Up,Ki).									Sk	iP	16 55 26.9	
"	21	Up	iP	15	41	08.4				Um	iP	16 55 43.5		
		Um	iP	15	40	58.8				Ud	iP	16 55 30.5		
		Ud	iP	15	41	21.1				De	iP	16 55 34.8		
		Burma-China.									Panama (h = 20 km).			
"	21	Ki	eP	17	10	13		"	22	Up	iP	16 59 38.4		
		Um	iP	17	10	31.8				Sk	iP	16 59 25.6		
		Ud	iP	17	11	01.9				Ud	iP	16 59 41.7		
		Japan (h = 40 km).							"	22	Up	iP	17 14 41.9	
"	22	Up	iP	04	36	57.6				Ki	eP	17 14 10		
		Ki	iP	04	36	46.3				Ud	iP	17 14 50.2		
		Um	iP	04	36	47.0					i	17 15 15.6		
		Ud	iP	04	37	10.5			"	22	Up	iP	19 20 39.9	
		De	iP	04	37	12.4				Ki	iP	19 19 45.8		
		Burma-China (h = N).									(cont.)			
"	22	Ki	iP	06	59	35.6		"	22	Up	iP	19 20 39.9		
"	22	Up	iP	07	08	10.6				Ki	iP	19 19 45.8		
		Ki	iP	07	07	24.5				(cont.)				
		(cont.)												

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

1976				1976			
July	22	(cont.)		July	23	(cont.)	
		Sk	iP 19 20 20.8			Ud	iP1 02 05 23.1
		Um	iP 19 20 10.5				iP2 02 05 25.9
		Ud	iP 19 20 41.1			De	iP1 02 05 22.7
		Aleutian Islands (h = 15 km).					iP2 02 05 25.5
						Tibet (h = 30 km).	
"	22	Ki	iP 21 20 12.8	"	23	Ki	iPKP 02 33 03.5
		Um	iP 21 20 17.9			Sk	ePKP 02 33 15
		Ud	iP 21 20 36.4			Um	iPKP 02 33 10.0
		Banda Sea (h = 190 km).				New Hebrides Islands (h = 160 km).	
"	22	Ud	iP 22 28 42.6				
"	23	Up	eP 00 54 47	"	23	Up	iP 02 39 53.0
		Ki	iP 00 54 48.8				iPn 02 40 58.1
		Ud	iP 00 54 35.3				iPP 02 41 11.9
		De	iP 00 54 36.1			Ki	iP 02 39 37.2 C
		Colombia (h = 170 km).					micr sec
"	23	Up	iP 01 13 37.1			P	Z' 0.1 0.6
		Ki	iP 01 13 05.7			Sk	iP 02 40 08.6
		Um	iP 01 13 18.7			Um	iP 02 39 38.0
		Ud	iP 01 13 46.3				iPn 02 40 39.4
		Japan (h = 170 km).				Ud	iP 02 40 09.5 C
"	23	Up	iP 01 54 32.9			De	iP 02 40 16.6
		i	01 54 37.4				iPP 02 41 43.9
			micr sec			Kazakh SSR. Underground explosion.	
		P	Z' 0.1 1.0	"	23	Ud	iP 05 56 07.2
		Mx	N 1.5 17	"	23	Up	iPKP1 06 43 30.1 C
		Mx	Z 0.6 14				micr sec
		Ki	iP 01 54 22.5				PKP1 Z' 0.1 1.0
		i	01 54 26.8			Ki	iPKP1 06 43 07.7
			micr sec			Sk	iPKP1 06 43 23.4 C
		Mx	E 0.6 14			Um	iPKP1 06 43 17.8 C
		Mx	N 1.0 16			Ud	iPKP1 06 43 32.0 C
		Mx	Z 0.7 14			De	iPKP1 06 43 40.5 C
		Sk	iP 01 54 45.6			Kermadec Islands (h = 60 km).	
		i	01 54 49.8	"	23	Up	ePKP1 06 58 12
		Um	iP 01 54 23.2			Ud	iPKP1 06 58 12.5
		i	01 54 27.5			De	iPKP1 06 58 23.0
		Ud	iP 01 54 45.9			Fiji Islands (h = 600 km).	
		i	01 54 49.9	"	23	Um	iP 07 48 28.3
		De	iP 01 54 47.9			Ud	iP 07 48 56.3
		Burma-China (h = N).				Japan (h = 35 km).	
		M = 5.2 (Up,Ki).		"	23	Ud	iP 09 08 47.4
"	23	Up	iP1 02 05 07.8	"	23	Ki	iP 12 03 36.9
			iP2 02 05 10.9	"	23	Up	iP 12 54 53.6
			micr sec			(cont.)	
			P2 Z' 0.1 1.0				
		Ki	iP1 02 05 05.7				
		Sk	iP1 02 05 28.3				
		Um	iP2 02 05 04.2				
		(cont.)					

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

1976				1976				
July	23	(cont.)		July	23	Um	iP	19 32 48.3
		Sk	iP			"		
		Um	iP		23	Ki	iP	19 34 28.8
			i			Um	i	19 34 39.9
		Ud	iP			Ud	iP	19 34 10.8
		De	iP			"		
		Sumatra	(h = N).		23	Up	eP	19 42 43
"	23	Um	iP2			Ud	iP	19 42 13.0
		Ud	iP1		"	"		
			iP2		23	Ud	iP	19 59 24.6
		Sumatra	(h = N).		"	"		
"	23	Up	iSgl		23	Up	iP	20 55 55.2
		Ud	iSgl			Ki	iP	20 57 07.8
		Regional event.				Sk	eP	20 56 34
"	23	Up	iSgl			Um	eP	20 56 32
		Sk	iSgl			Ud	iP	20 55 59.9
		Ud	iSgl				i	20 56 04.8
"	23	Up	iSgl			De	iP	20 55 23.4
		Sk	iSgl			Greece	(h = N).	
		Ud	iSgl		"	"		
		Southwest Norway,			23	Up	iP	22 28 54.2
		60.9°N, 6.8°E.						micr sec
		Origin time = 17 42 48.				Mx	Z	0.8 20
		M _L = 1.8 (Ud).				Ki	iP	22 28 06.9
		By combination with Bergen				Um	iP	22 28 28.7
		reading.				Ud	iP	22 28 59.0
"	23	Up	Mx			Kurile Islands	(h = N).	
					"	"		
			micr sec		23	Up	iSgl	22 34 17.2
		Mx	E	1.2 20			i	22 34 39.1
		Mx	N	3.2 20			iRg	22 34 50.5
		Mx	Z	2.7 20		Ki	iSgl	22 36 25.8
		Ki	Mx	17 52		Sk	eSgl	22 36 06
				micr sec			i	22 36 25.3
		Mx	E	1.4 17		Um	i	22 34 15.8
		Mx	N	1.3 17			iSgl	22 34 29.2
		Mx	Z	1.5 16			iRg	22 35 04.6
		Bismarck Sea.				Ud	i	22 34 59.3
		M = 5.8 (Up,Ki).					iSgl	22 35 19.6
"	23	Ud	iPn	18 17 54.6		De	e	22 35 32
			i	18 18 09.0			iSgl	22 35 46.8
			iSgl	18 18 58.2		Western USSR,		
		De	iPgl	18 17 58.9		near 59 1/2°N, 28°E.		
			iSn	18 18 33.3		Origin time = 22 31 33.		
			iSgl	18 18 50.1		M _L = 2.6 (Up,Um,Ud,De).		
		Off coast of south Norway,				Near-surface event.		
		near 57 1/2°N, 7°E.				Explosion?		
		Origin time = 18 16 51.			"	"		
		M _L = 2.0 (Ud,De).			24	Up	iPKP	06 31 43.7 C
		By combination with						micr sec
		Kongsberg readings.					PKP	Z' 0.2 0.9
						Ki	i(PKP)	06 31 52.5
						(cont.)		

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

1976				1976			
July	24	(cont.)		July	25		
		Ki	iPKP			Ud	ePKP
							08 30 26
							D'Entrecasteaux Islands
							(h = N).
			PKP			"	25
			Z'			Um	iPKP1
						Ud	iPKP1
							12 29 59.0
		Sk	iPKP				12 30 11.7
		Um	i(PKP)			"	25
						Ud	iP
							13 28 25.6
		Ud	iPKP				Hindu Kush (h = 40 km).
		De	iPKP			"	25
						Up	eP
							14 16 23
		South Sandwich Islands					micr sec
		(h = 30 km).					
"	24	Ki	iP			Mx	E
							1.1
						Mx	Z
							0.7
		Ud	iP			Ki	iP
							14 16 09.4
		De	eP				micr sec
						Mx	E
							1.0
"	24	Up	iP			Mx	N
							0.7
		Ki	iP			Mx	Z
							0.9
		Um	iP			Um	iP
							14 16 10.5
		Ud	iP				iS
							14 26 55
"	24	✓ Up	iP			Ud	iP
							14 16 27.9
							Borneo (h = N).
							M = 5.4 (Up,Ki).
			Mx			"	25
			Z			Ud	iP
							15 31 27.2
		Ki	eP			"	25
						Up	iP
						Ud	iP
							21 27 41.2
							21 27 57.5
		Sk	iP			De	iP
							21 27 54.2
		Um	iP				Afghanistan-USSR (h = 160 km).
						"	25
			iSKS			Ud	iP
							22 19 40.5
						"	26
			iS			Ki	i
							02 00 30.1
		Ud	iP			Ud	i
							02 00 36.3
		De	eP				Pacific Ocean (h = N).
						"	26
		South of Panama (h = N).				✓ Up	iP
							03 09 44.7
"	24	Um	iP				iS
							03 20 33
							micr sec
						Mx	E
							7.2
"	24	Up	iP			Mx	N
							10
		Ki	iP			Mx	Z
							11
		Um	iP			Ki	iP
							03 09 30.7
		Ud	iP				i
							03 09 31.8
		De	iP				iS
							03 20 14
"	25	Ud	iP				micr sec
						P	Z'
							0.1
"	25	Up	eP			Mx	E
							14
		Um	iP			Mx	N
							6.9
		Ud	iP			Mx	Z
							13
"	25	Up	iPKP1			Sk	iP
							03 09 48.4
		Um	iPKP			Um	iP
							03 09 32.5
		Ud	iPKP1				iS
							03 20 17
		De	iPKP1				(cont.)
		Tonga-Kermadec Islands					
		(h = 500 km).					

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

1976				1976					
July 26 (cont.)				July 26 (cont.)					
	Ud	iP	03 09 50.7		De	iP	09 02 47.6		
	De	iP	03 09 55.2		Borneo (h = N).				
		iPP	03 13 49.2		M = 5.4 (Up,Ki).				
	Borneo (h = N).			"	26	Ki	iP	09 56 43.2	
	M = 6.5 (Up,Ki).					Um	iP	09 56 43.3	
"	26	Up	ipP	03 16 26.0		Borneo (h = N).			
		Ki	iP	03 16 06.7	"	26	Ud	i(P)	10 56 06.8
		Um	iP	03 16 07.6	"	26	Up	iP	11 00 28.3
		Ud	iP	03 16 22.5			Ki	iP	10 59 59.4
	Borneo (h = N).					Sk	eP	11 00 30	
"	26	Ki	iP	04 00 39.7			Um	iP	11 00 10.6
		Um	iP	04 00 44.7			i		11 00 26.4
		Ud	iP	04 01 08.7			Ud	iP	11 00 36.8
"	26	Ki	iPKP	05 48 01.6			De	iP	11 00 47.5
		De	iPKP	05 48 39.1		Ryukyu Islands (h = 70 km).			
	West Irian (h = N).			"	26	Up	iP	11 26 30.5	
"	26	Up		micr sec			Ki	eP	11 26 16
		Mx	Z	1.0 19			Sk	iP	11 26 45.3
		Ki		micr sec			Um	iP	11 26 16.9
		Mx	E	0.7 15			Ud	iP	11 26 45.7
		Mx	N	0.8 17		Sinkiang, China (h = N).			
		Mx	Z	1.0 17	"	26	Up	iP	11 51 49.3
		Um	iP	05 48 02.3				micr sec	
		Ud	iP	05 48 21.9			P	Z'	0.1 1.4
	Borneo (h = N).					Mx	E	0.7 13	
"	26	Sk	iP	06 32 24.3			Mx	N	0.6 12
		De	iP	06 31 08.0			Mx	Z	0.7 11
"	26	Up	iP	08 49 13.1			Ki	iP	11 52 38.7
		Ki	iP	08 49 02.8			i		11 52 13.9
		i		08 49 07.2				micr sec	
		Sk	eP	08 49 24			Mx	E	0.7 13
		Um	iP	08 49 03.8			Mx	N	0.6 14
		Ud	iP	08 49 22.6			Mx	Z	1.0 14
		De	iP	08 49 26.3			Sk	eP	11 52 29
	Borneo (h = N).					Um	iP	11 52 02.6	
"	26	Up	iP	09 02 38.0			Ud	iP	11 52 05.3
				micr sec			De	iP	11 51 51.4
		Mx	N	1.2 22		Caucasus (h = N).			
		Mx	Z	0.9 22		M = 4.5 (Up,Ki).			
		Ki	iP	09 02 25.7	"	26	Ki	iP	15 28 14.0
				micr sec			Ud	iP	15 27 26.0
		Mx	E	1.0 16	"	26	Up		micr sec
		Mx	N	0.7 15			Mx	Z	0.7 18
		Mx	Z	0.9 16			Ki	eP	18 07 00
		Sk	eP	09 02 40			Um	iP	18 07 08.1
		Um	iP	09 02 27.4			Ud	iP	18 07 30.8
		Ud	iP	09 02 44.4		South of Mariana Islands			
	(cont.)				(h = 80 km).				

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

1976		1976	
July	27	July	27
	(cont.)		(cont.)
	Coast of south Norway, 58.2°N, 6.2°E. Origin time = 14 14 36. M _L = 2.6 (Ud). By combination with Kongsberg readings.		China (h = 25 km). m = 7.0 (Up,Ki), M = 8.1 (Up). LP amplitudes and magnitude M given for Up refer in this case to Wiechert.
"	27	Up	iP 20 41 48.5 C micr sec
			P Z' 0.1 1.0
		Ki	iP 20 41 14.6 C micr sec
			P Z' 0.1 1.0
		Sk	iP 20 41 21.9
		Um	iP 20 41 34.4
		Ud	iP 20 41 41.1
		De	iP 20 41 57.0
			Nevada. m = 6.0 (Up,Ki). Underground explosion.
"	27	Up	iP 18 45 21.0
		Ki	eP 18 45 57
		Sk	eP 18 45 55
		Um	iP 18 45 31.6
			i 18 45 39.6
		Ud	iP 18 45 36.9
		De	eP 18 45 26
			Caucasus (h = N).
"	27	Up	iP 19 53 09.0
			i 19 53 10.8
			i 19 53 18.9
			iS 20 01 34
			micr sec
		P	Z' 0.1 1.0
		i	Z' 0.1 0.9
		i	Z' 1.0 0.9
		Mx	E 615 18
		Mx	N 953 18
		Ki	iP 19 52 36.9
			i 19 52 40.4
			i 19 52 47.6
			iS 20 00 27
			micr sec
		P	Z' 0.3 2.0
		i	Z' 0.9 1.5
		i	Z' 2.3 1.5
		Sk	iP 19 53 10.2
			i 19 53 14.4
			i 19 53 18.7
		Um	iP 19 52 47.3
			i 19 52 52.6
		Ud	iP 19 53 19.6
			i 19 53 23.5
			i 19 53 27.4
		De	iP 19 53 32.6
			i 19 53 35.7
			i 19 53 41.6
			(cont.)
			China (h = N).
"	27	Ki	iP 21 20 49.7
		Um	iP 21 21 01.9
		Ud	iP 21 21 32.5
			China (h = N).
"	27	Ki	iP 23 13 01.8
		Sk	eP 23 13 39
		Um	iP 23 13 13.0
		Ud	iP 23 13 44.1
			China (h = N).
"	27	Up	iP 23 27 46.0
			i 23 27 51.2
			micr sec
		P	Z' 0.1 1.0
		Ki	iP 23 27 13.8
			i 23 27 19.0
			micr sec
		P	Z' 0.1 1.0
		Mx	E 6.7 12
		Mx	N 17 12
		Mx	Z 7.8 14
		Sk	iP 23 27 46.7
			i 23 27 53.7
		Um	iP 23 27 26.5
			i 23 27 31.5
		Ud	iP 23 27 55.9
			(cont.)

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

1976				1976			
July	27	(cont.)		July	28	(cont.)	
		Ud	i 23 28 03.3			Ki	iS 11 03 11
		De	iP 23 28 10.9				micr sec
			i 23 28 15.4				P Z' 0.4 1.5
		China (h = N).					i Z' 1.6 1.4
"	28	Ki	iP 01 08 29.0			Sk	iP 10 55 51.3
		Um	iP 01 08 41.1				i 10 55 56.8
		Ud	iP 01 09 11.5			Um	iP 10 55 30.2 D
		China (h = N).					i 10 55 35.1
"	28	Up	iP 01 31 52.4			Ud	iP 10 56 00.9 D
		Um	iP 01 31 31.1				i 10 56 03.0
		Ud	iP 01 32 03.0				i 10 56 06.3
		China (h = 20 km).				De	iP 10 56 13.6 D
						China (h = 25 km).	
						m = 7.1 (Up,Ki), M = 7.6 (Up).	
"	28	Up	iP 01 55 56.3	"	28	Up	eP 11 08 49
		Ki	iP 01 55 24.1			Ki	iP 11 08 15.6
			micr sec			Um	iP 11 08 28.1
		Mx	E 0.6 13			Ud	iP 11 08 59.6
		Mx	N 1.1 15			China (h = N).	
		Mx	Z 0.9 13			"	28
		Sk	iP 01 55 58.3			Up	iPKP1 11 35 15.8
		Ud	iP 01 56 06.7			Um	iPKP1 11 35 04.8
		China (h = N).				Ud	iPKP1 11 35 17.3
"	28	Ki	eP 02 35 46	"	28	Ki	iP 11 56 29.7
		De	iP 02 36 15.6			Ud	iP 11 57 14.8
		Talaud Islands (h = 70 km).				China (h = N).	
"	28	Ki	iP 09 52 03.5	"	28	Up	iP 15 46 13.4
		Sk	iP 09 52 38.8				i 15 46 41.8
		Um	iP 09 52 15.5				micr sec
		Ud	iP 09 52 46.5				P Z' 0.1 1.0
		De	iP 09 52 58.7			Mx	E 2.0 12
		China (h = N).				Mx	N 1.7 11
"	28	Up	iP 09 58 37.6			Mx	Z 2.9 10
		Ki	eP 09 58 05			Ki	iP 15 45 40.1
		Sk	eP 09 58 41				i 15 46 09.5
		Um	iP 09 58 17.5				micr sec
		Ud	iP 09 58 46.7			Mx	E 2.0 10
		De	iP 09 59 01.6			Mx	N 2.2 14
		China (h = N).				Mx	Z 2.1 10
"	28	Up	iP 10 55 50.5 D			Sk	iP 15 46 13.5
			i 10 55 56.5				i 15 46 18.2
			iS 11 04 13			Um	iP 15 45 51.5
			micr sec				i 15 45 56.0
			P Z' 0.3 1.0			Ud	iP 15 46 21.5
			i Z' 2.3 1.3				i 15 46 24.0
		Mx	E 272 19				i 15 46 27.9
		Mx	N 237 19			De	iP 15 46 36.3
		Mx	Z 177 13			China (h = 15 km).	
		Ki	iP 10 55 17.7 D			M = 5.6 (Up,Ki).	
			i 10 55 22.8	"	28	Up	iPKP1 17 06 52.5
		(cont.)					i 17 07 06.3
						(cont.)	

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

1976

July 28 (cont.)
 Up micr sec
 Mx E 1.8 30
 Mx N 2.8 30
 Ki ePKP 17 06 32
 micr sec
 Mx E 2.4 28
 Mx N 1.4 23
 Um iPKP 17 06 41.1
 Ud iPKP 17 06 54.2
 i 17 07 02.3
 De iPKP 17.07 01.1
 Kermadec Islands (h = 35 km).
 M = 5.9 (Up,Ki).

" 28 Up micr sec
 Mx E 1.2 21
 Mx N 2.2 20
 Mx Z 4.0 24
 Ki iPKP 17 34 09.4
 i 17 34 17.1
 micr sec
 PKP Z' 0.1 1.0
 Mx E 1.8 18
 Mx N 1.5 18
 Mx Z 3.4 18
 Um iPKP 17 34 16.5
 i 17 34 24.3
 Ud iPKP 17 34 22.4
 i 17 34 33.2
 De iPKP 17 34 28.2
 New Hebrides Islands
 (h = 5 km).
 M = 5.9 (Up,Ki).

" 28 Ki i 17 40 13.0
 Um iPKP 17 40 16.5
 Ud iPKP 17 40 23.3
 De iPKP 17 40 31.4
 New Hebrides Islands
 (h = 40 km).

" 28 Up iP 18 31 57.6
 i 18 32 03.7
 ✓ Ki iP 18 32 00.0
 i 18 32 04.2
 micr sec
 Mx E 1.3 10
 Mx N 2.1 10
 Mx Z 1.7 9
 Sk iP 18 32 21.2
 Um iP 18 31 52.5
 Ud iP 18 32 13.9
 De iP 18 32 13.2
 Kirgiz SSR (h = 50 km).

1976

July 28 Ki eP 18 59 10
 Um iP 18 59 22.2
 China (h = N).

" 28 ✓ Up iP 20 22 55.8
 i 20 23 00.6
 i 20 23 12.3
 iS 20 27 09
 micr sec
 P Z' 0.1 1.0
 ✓ i Z' 0.5 1.0
 i Z' 0.7 1.0
 Mx E 77 12
 Mx N 104 13
 Mx Z 87 12
 ✓ Ki iP 20 23 34.3
 ✓ i 20 23 39.4
 i 20 23 55.2
 iS 20 28 21
 micr sec
 P Z' 0.1 0.8
 ✓ i Z' 0.3 1.0
 i Z' 0.5 1.0
 Mx E 66 12
 Mx N 94 14
 Mx Z 88 12
 Sk iP 20 23 31.5
 Um iP 20 23 07.7
 i 20 23 12.2
 iS 20 27 34
 Ud iP 20 23 12.2
 i 20 23 19.3
 De iP 20 22 58.8
 i 20 23 04.2
 Caucasus (h = 20 km).
 m = 6.2, M = 6.6 (Up,Ki).

" 28 Up iP 21 10 03.3
 Ki iP 21 10 41.5
 i 21 11 10.5
 Um iP 21 10 15.5
 Ud iP 21 10 19.7
 i 21 10 46.3
 De iP 21 10 05.8
 Caucasus (h = 30 km).

" 28 Ki eP 21 38 07
 Um iP 21 38 21.2
 Ud iP 21 38 28.5
 De iP 21 37 43.0

" 28 Um iP 21 52 18.0
 Ud iP 21 52 22.2

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

1976				1976								
July	28	Up	iP	23 06	43.0	July	29	Ki	iP	07 07	16.3	
		Ki	iP	23 07	20.6			Sk	iP	07 07	03.5	
		Um	iP	23 06	54.8			Um	iP	07 07	20.3	
		Ud	iP	23 06	58.6				i	07 07	24.4	
		De	iP	23 06	45.3			Ud	iP	07 07	06.8	
				Caucasus (h = 45 km).				De	iP	07 07	08.5	
									i	07 07	17.2	
"	29	Ki	iP	01 10	42.8			Panama (h = 30 km).				
				micr sec				"	29	Up	iP	07 54 28.4
		Mx	E	0.4	10							micr sec
		Mx	N	0.4	10				P	Z'	0.1	1.2
		Sk	iP	01 11	18.5			"	29	Up	iP	11 05 21.0
		Um	iP	01 10	56.6							micr sec
		Ud	iP	01 11	27.8				P	Z'	0.1	0.9
				China (h = 35 km).				Ud	iP		11 05	43.6
"	29	Up	iP	02 27	05.1			"	29	Sk	iP	11 16 05.9
"	29	Ki	iP	04 47	11.5				Um	iP	11 15	42.1
		Ud	iP	04 48	04.2				Ud	iP	11 16	11.3
"	29	Up	iP	05 04	47.6				China (h = N).			
				micr sec				"	29	Ki	iP	12 39 12.5
		P	Z'	2.8	0.9				Um	iP	12 39	23.8
		Mx	E	0.7	10				Ud	i	12 40	00.8
		Mx	N	0.9	10				De	iP	12 40	08.8
		Mx	Z	1.7	11				China (h = 15 km).			
		Ki	iP	05 05	18.9 C			"	29	Up	iPKP1	17 32 08.5
				micr sec					Sk	iPKP1	17 32	02.0
		P	Z'	2.8	1.0				Um	iPKP1	17 31	58.7
		Mx	E	0.8	9				Ud	iPKP1	17 32	10.8
		Mx	N	0.5	9				De	iPKP1	17 32	19.9
		Mx	Z	1.0	9			"	29	Up	eP	21 56 55
		Sk	iP	05 05	25.0 C				Ki	iP	21 57	16.9
			i	05 05	26.5				Ud	iP	21 57	03.1 C
			i	05 05	34.5				Mid-Indian Ocean (h = N).			
		Um	iP	05 04	54.2 C			"	29	Up	i(P)	22 40 50.0
		Ud	iP	05 05	08.7 C			"	30	Ki	iP	00 02 46.1
		De	iP	05 04	59.0 C				Sk	iP	00 03	21.1
				Kazakh SSR.					Ud	eP	00 03	31
				m = 6.8, M = 4.6 (Up,Ki).					China (h = N).			
				Underground explosion.				"	30	Up	iP	02 57 28.8
"	29	Sk	iP	05 40	55.0				Ki	iP	02 57	11.5
		Um	iP	05 40	33.2				Um	iP	02 57	17.4
				China (h = N).					Ud	iP	02 57	30.9
"	29	Ud	iP	05 54	25.2				De	iP	02 57	38.9
		De	iP	05 54	37.1			"	30	Up	iP	03 26 37.6
"	29	Up	i	06 35	47.2				(cont.)			
		Um	iP	06 35	53.4							
		Ud	iP	06 35	58.7							
				Caucasus (h = N).								

Up = Uppesala, Ki = Kiruna, Sk = Skulstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1976

July	30	(cont.)					
		Up		micr	sec		
		P	Z'	0.1	0.9		
		Ki	iP	03 26	03.7		
				micr	sec		
		P	Z'	0.1	1.0		
		Sk	iP	03 26	34.3		
		Um	iP	03 26	17.8		
		Ud	iP	03 26	45.5		
		De	iP	03 26	58.8		
		Japan (h = 370 km).					
		m = 5.5 (Up,Ki).					
"	30	Up	i	07 29	02.4		
		Ki	iP	07 29	49.2		
		Um	iP	07 29	19.9		
			i	07 29	36.6		
		Turkey (h = 40 km).					
"	30	Up	iP	07 35	53.7		
		Ud	iP	07 35	48.1		
		Austria (h = 10 km).					
"	30	Up	iP	07 38	33.1		
"	30	Ki	iP	14 03	28.9		
		Alaska (h = 40 km).					
"	30	Up	iP	20 17	03.9		
				micr	sec		
		P	Z'	0.1	1.1		
		Ki	iP	20 16	30.3		
		Sk	iP	20 17	06.0		
		Um	iP	20 16	43.1		
		Ud	iP	20 17	14.7		
		De	iP	20 17	26.9		
		China (h = 10 km).					
"	30	Sk	iPKP	21 13	16.0		
		New Britain (h = 80 km).					
"	30	Up	iP	21 33	28.0		
			i	21 33	41.3		
				micr	sec		
		P	Z'	0.1	1.0		
		Mx	E	0.8	15		
		Mx	N	0.7	14		
		Mx	Z	1.3	14		
		Ki	iP	21 32	55.5		
				micr	sec		
		P	Z'	0.1	1.0		
		Mx	E	0.5	12		
		Mx	N	0.5	13		
		Mx	Z	0.7	13		
		(cont.)					

1976

July	30	(cont.)					
		Sk	iP	21 33	30.2		
		Um	iP	21 33	08.5		
		Ud	iP	21 33	39.3		
		De	iP	21 33	50.9		
		China (h = N).					
		m = 5.9, M = 5.1 (Up,Ki).					
"	30	Um	iP	22 55	11.5		
"	31	Up	iP	01 02	06.7		
"	31	Up	i(PKP)	01 06	36.7		
			iPKP1	01 06	43.7		
				micr	sec		
			(PKP)	Z'	0.2	1.4	
			PKP1	Z'	1.0	0.8	
		Mx	E	3.6	26		
		Mx	N	9.2	23		
		Mx	Z	13	23		
		Ki	i(PKP)	01 06	18.6		
			iPKP	01 06	22.4		
			i	01 06	29.3		
				micr	sec		
			i	Z'	0.3	1.0	
		Mx	E	5.4	22		
		Mx	N	6.0	20		
		Mx	Z	6.3	21		
		Sk	iPKP1	01 06	35.7 C		
			i	01 11	43.5		
		Um	iPKP1	01 06	30.4 C		
			iSKKS	01 16	52.5		
			i	01 17	29.1		
		Ud	i(PKP)	01 06	41.0		
			iPKP1	01 06	43.7		
		De	i(PKP)	01 06	46.3 C		
			iPKP1	01 06	49.6		
		Kermadec Islands (h = 20 km).					
		M = 6.5 (Up,Ki).					
"	31	Sk	iPKP1	01 36	06.3		
		Um	iPKP1	01 36	01.3		
		Ud	iPKP1	01 36	14.6		
		The same focal region as for the earthquake at 00 46 58, December 30.					
"	31	Up	iPKP1	01 52	07.6		
				micr	sec		
			PKP1	Z'	0.1	0.8	
		Ki	iPKP	01 51	45.0		
		Sk	iPKP1	01 52	00.9 C		
			ipPKP1	01 52	04.3		
		Um	iPKP1	01 51	55.4 C		
		(cont.)					

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

1976				1976			
July	31	(cont.)		July	31	(cont.)	
		Ud	iPKP1 01 52 09.0			Sk	i 12 28 23.8
			ipPKP1 01 52 13.6			Um	i 12 28 15.5
		De	iPKP1 01 52 17.5			Ud	iPKP1 12 28 20.5
			ipPKP1 01 52 22.5				i 12 28 35.6
		Kermadec Islands.				De	iPKP2 12 28 40.5
		h = 15 km (Sk,Ud,De).				Kermadec Islands (h = 130 km).	
"	31	Up	iPKP1 02 14 24.7	"	31	Ud	iP 15 40 04.1
			i 02 14 31.0			"	31 Ki iP 15 55 06.4
		Sk	iPKP1 02 14 17.1			Kashmir-Tibet (h = 15 km).	
		Um	iPKP1 02 14 12.0			"	31 Um iP 18 11 11.0
			i 02 14 28.0			China (h = N).	
		Ud	iPKP1 02 14 26.0			"	31 Ud iP 22 37 07.6
			i 02 14 41.0			"	31 Ki iP 22 44 14.7
		De	iPKP1 02 14 34.0			Um	iP 22 44 31.9
			i 02 14 39.1			Ud	iP 22 44 34.8
			i 02 14 51.2			Gulf of California (h = N).	
		Kermadec Islands (h = 60 km).					
"	31	Up	iPKP1 02 18 59.2				
		Sk	iPKP1 02 18 51.7				
		Um	iPKP1 02 18 46.4				
		Ud	iPKP1 02 19 00.3				
		The same focal region as for the earthquake at 00 46 58, December 30.					
"	31	Um	iP 02 57 44.2				
"	31	Up	iP 03 31 44.7				
		Sk	iPKP1 03 31 37.7				
		Ud	iPKP1 03 31 43.8				
		De	iPKP1 03 32 17.5				
		Kermadec Islands (h = 110 km).					
"	31	Um	iP 07 33 35.7				
		Ud	iP 07 34 06.7				
		China (h = 40 km).					
"	31	Ud	iP 07 45 30.4				
"	31	Um	iP 10 35 45.7				
		Mexico (h = 110 km).					
"	31	Up	iPKP1 11 43 36.9				
		Um	iPKP1 11 43 25.0				
		Ud	iPKP1 11 43 40.0 C				
		De	iPKP1 11 43 50.2				
		Tonga-Kermadec Islands (h = 550 km).					
"	31	Up	iPKP1 12 28 19.0				
		Sk	iPKP1 12 28 12.1				
		(cont.)					

Torild van Eck
Ota Kulhánek
Klaus Meyer
Rutger Wahlström

April 19, 1978

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

SEISMOLOGICAL BULLETIN

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

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

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

AUGUST 1 - 31, 1976
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1976					1976				
Aug.	1	Ki	eP	02 13 57	Aug.	1	(cont.)		
		Ud	iP	02 14 11.2			Ud	iP	10 42 18.4
		De	i	02 14 13.4			De	iP	10 42 14.7
		Kashmir-Tibet (h = 15 km).					Afghanistan-USSR (h = 150 km).		
"	1	Up	iP	02 14 59.6	"	1	Ki	e(P)	12 34 33
				micr sec					
			P	Z' 0.1 1.0	"	1	Um	iP	13 43 18.6
		Ki	iP	02 15 01.1			Ud	iP	13 43 38.4
		Sk	iP	02 15 14.5	"	1	De	iPKP1	15 44 56.1
		Um	iP	02 14 58.0			Fiji Islands (h = 640 km).		
		Ud	iP	02 15 10.6	"	1	Up	iP	18 12 53.5
		De	iP	02 15 09.0			Ud	iP	18 13 05.1
		Sumatra (h = 80 km).					Burma-China (h = N).		
"	1	Up	iP	04 50 00.2	"	1	Ud	iPKP	18 26 19.6
		Ki	iP	04 49 06.3			Tonga Islands (h = N).		
		Sk	iP	04 49 43.2	"	1	Ud	iP	19 03 34.1
		Um	iP	04 49 31.7	"	1	Ki	eP	21 03 38
		Ud	iP	04 50 03.4			Um	iP	21 03 48.1
		De	iP	04 50 25.6			Ud	iP	21 04 17.4
		Kamchatka (h = 90 km).					China (h = N).		
"	1	Up	iP	08 20 24.3	"	2	Up	iP	05 19 47.6
			i	08 20 32.5			Ud	iP	05 19 54.3
			i	08 20 41.1			Japan (h = 70 km).		
		Ki	iP	08 20 35.9	"	2	Up	iP	05 20 47.8
			i	08 20 43.8			ipP		05 21 17.0
		Sk	iP	08 20 51.8			Ud	iP	05 20 54.9
		Um	iP	08 20 24.3			De	iP	05 20 22.3
			i	08 20 32.5			Crete.		
			i	08 20 41.9			h = 140 km (Up).		
			iPP	08 22 26.4	"	2	Up	i(PKP)	11 14 27.3
		Ud	iP	08 20 41.0			(cont.)		
		De	iP	08 20 36.5					
		Hindu Kush (h = 55 km).							
"	1	Up	iP	10 42 00.9					
		Ki	iP	10 42 07.5					
		(cont.)							

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

1976				1976			
Aug.	2	(cont.)		Aug.	3	(cont.)	
		Up	i(PKP) 11 14 34.2			Up	i 07 58 08.5
			iPKP 11 14 40.7				iS 08 04 13
			iPP 11 17 17.1				micr sec
			iSKP1 11 18 08.9			P	Z' 0.1 1.0
			micr sec			i	Z' 0.6 1.6
			PKP Z' 0.1 0.9			Mx	E 0.9 7
			SKP1 Z' 0.3 0.9			Mx	Z 1.8 7
		Mx	E 15 20			Ki	micr sec
		Mx	N 30 21			Mx	E 4.0 12
		Mx	Z 52 22			Mx	N 1.3 9
		Ki	e(PKP) 11 14 11			Mx	Z 5.8 15
			iPKP 11 14 26.7			Sk	iP 07 58 23.4
			iSKP1 11 17 44.0				i 07 58 28.5
			micr sec				i 08 13 19.8
			PKP Z' 0.3 1.1			Um	iP 07 57 54.5
			SKP1 Z' 0.2 1.3				i 07 57 59.8
		Mx	E 30 23			iPP	07 59 44.8
		Mx	N 30 23			iS	08 04 02
		Mx	Z 33 23			i	08 10 23.5
		Sk	i(PKP) 11 14 27.2			Ud	iP 07 58 19.6
			iPKP 11 14 37.2				i 07 58 24.9
			iSKP1 11 18 03.7			De	iP 07 58 20.8
		Um	i(PKP) 11 14 23.0				i 07 58 25.8
			iPKP 11 14 33.2				Kirgiz-Sinkiang (h = N).
			iSKP1 11 17 56.6			"	3 Ki iP 09 55 43.9
			iSKKP 11 27 09.5				Um iP 09 55 41.5
		Ud	i(PKP) 11 14 32.3				i 09 56 18.8
			iPKP 11 14 42.9				Andaman Islands (h = 40 km).
			iPP 11 17 26.8			"	3 Sk iP 10 48 28.4
			iSKP1 11 18 12.2				Um iP 10 48 43.1
			iSKKP 11 26 35.9				Ud iP 10 48 36.5
		De	i(PKP) 11 14 39.9				Guatemala (h = 110 km).
			i(PKP) 11 14 43.3			"	3 Ki iP 11 44 58.0
			iSKP1 11 18 20.6			"	3 Ki iP 14 47 13.4
			New Hebrides Islands				Um iP 14 47 16.7
			(h = 50 km).				Ud iP 14 47 30.7
			M = 7.1 (Up,Ki).			"	3 Up i(P) 19 38 13.8
"	2	Up	iP 16 26 55.3			"	3 Ki iP 22 19 36.2
		Sk	iP 16 26 37.7				Um iP 22 19 49.0
		Um	iP 16 26 26.7				Volcano Islands (h = 210 km).
		Ud	iP 16 26 58.5			"	3 Up iP 23 49 08.3
		De	iP 16 27 19.5				Ki iP 23 48 30.7
			Kamchatka (h = N).				Sk iP 23 49 05.8
"	2	De	iP 16 37 16.1				Um iP 23 48 47.0
"	2	Up	iP 17 28 25.8			"	3 Up iP 23 49 08.7
		Um	iP 17 28 29.9				(cont.)
"	3	Up	iP 07 58 03.0				
		(cont.)					

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

1976				1976			
Aug.	3	(cont.)		Aug.	5	(cont.)	
		Ud	iP 23 49 16.2			Ki	iP 03 41 09.0
		Japan.				Sk	iP 03 41 45.2
		h = 80 km (Um).				Um	iP 03 41 31.3
"	4	Um	iP 00 19 06.9			i	03 41 41.3
"	4	Ud	iP 06 02 34.4			Ud	iP 03 42 02.9
		Aleutian Islands (h = 35 km).		"	5	Kurile Islands (h = 10 km).	
"	4	Ki	iP 06 19 11.6			Ud	iP 06 12 54.4
		Um	iP 06 19 34.6			Kurile Islands (h = N).	
		Ud	iP 06 20 06.5	"	5	Up	iP 06 59 34.0
		Kurile Islands (h = 310 km).				ipP	06 59 45.8
"	4	Ud	iP 11 41 54.2			Ki	ipP 06 59 08.5
"	4	Up	iPKP1 16 14 05.2			Sk	iP 06 59 30.4
		Sk	iPKP1 16 13 58.0			Um	iP 06 59 14.5
		Um	iPKP1 16 13 54.6			ipP	06 59 25.4
		Ud	iPKP1 16 14 06.5			Ud	iP 06 59 41.9
"	4	Up	iPKP1 17 43 15.6			ipP	06 59 52.8
		Ud	iPKP1 17 43 16.6			De	iP 06 59 55.6
"	4	Up	iP 23 32 56.5 D			Japan.	
		iPP	23 36 01.2			h = 40 km (Up,Um,Ud).	
		iS	23 42 09.9	"	5	Up	iP 07 46 21.7
			micr sec			Ki	iP 07 46 27.0
		P	Z' 0.4 0.8			Um	iP 07 46 17.8
		Ki	iP 23 32 23.8 D			Ud	iP 07 46 37.6
			micr sec			Afghanistan-USSR (h = 60 km).	
		P	Z' 0.2 0.9	"	5	Up	iP 09 24 45.9
		Sk	iP 23 32 53.3 D				micr sec
		iPP	23 35 54.8			P	Z' 0.1 1.1
		eS	23 42 08			Ki	iP 09 23 57.6
		Um	iP 23 32 37.8 D			Sk	iP 09 24 34.5
		i	23 32 58.6			Um	iP 09 24 20.2
		Ud	iP 23 33 03.9 D			Ud	iP 09 24 51.9
		iS	23 42 25.3			De	eP 09 25 06
		De	iP 23 33 16.1 D			Kurile Islands (h = N).	
		Japan (h = 440 km).		"	5	Up	iP 10 34 04.2
		m = 5.9 (Up,Ki).				i	10 34 09.8
"	5	Up	iPKP 02 10 37.4			Sk	iP 10 34 21.1
		Ki	iPKP 02 10 24.0			Ud	iP 10 34 18.7
		Sk	iPKP 02 10 34.8			India-China (h = 60 km).	
		Um	iPKP 02 10 30.5	"	5	Up	iP 13 49 00.1 C
		Ud	iPKP 02 10 40.6			iS	13 58 38
		De	iPKP 02 10 46.9				micr sec
		New Hebrides Islands				P	Z' 0.3 1.0
		(h = 220 km).				Ki	iP 13 49 01.8 C
"	5	Up	iP 03 41 58.0			iS	13 58 43.2
		i	03 42 07.5				micr sec
			micr sec			P	Z' 0.5 0.9
		P	Z' 0.1 1.1			Sk	iP 13 49 16.6 C
		(cont.)				Um	iP 13 48 57.5 C
						iS	13 58 35.1
						Ud	iP 13 49 11.8 C
						(cont.)	

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

1976				1976			
Aug.		(cont.)		Aug.	6	(cont.)	
	5	De iP	13 49 09.5 C			Up i	03 42 50.2
		Nicobar Islands (h = 110 km).				Ki i	03 42 04.0
		m = 6.2 (Up,Ki).				Sk iPKP1	03 42 09.6
"	5	Ki iP	14 46 36.1			i	03 42 23.0
		Um iP	14 46 26.4			Um iPKP1	03 42 04.6
		Ud iP	14 46 45.0			Ud iPKP1	03 42 18.5
		De iP	14 46 41.9			De iPKP1	03 42 23.9
		Afghanistan-USSR (h = 200 km).				i	03 42 43.8
"	5	Ud iP	15 48 26.7	"	6	Kermadec Islands (h = 25 km).	
"	5	Up iPKP1	16 48 32.5			Up iP	07 28 16.8
		i	16 48 38.9			ipP	07 28 27.3
		Um iPKP1	16 48 21.5				micr sec
		Ud iPKP1	16 48 33.3			P z'	0.1 1.0
		i	16 48 40.9			Ki iP	07 27 24.8
		De iPKP1	16 48 43.2			Sk iP	07 28 04.1
		i	16 48 48.9			Um iP	07 27 51.0
		Kermadec Islands (h = N).				Ud iP	07 28 22.4
"	5	Ki eP	18 36 37			De iP	07 28 41.0
		Ud iP	18 37 22.8			ipP	07 28 51.2
"	5	Up eP	19 00 50			Kurile Islands.	
		Ki iP	19 00 40.7	"	6	h = 35 km (Up,De).	
		i	19 00 54.3			Up iP	07 38 12.5 C
		Sk eP	19 00 33			i	07 38 23.3
		Um iP	19 00 48.1				micr sec
		i	19 01 02.8			P z'	0.2 1.2
		Ud iP	19 00 39.9			Ki iP	07 37 24.2
		De iP	19 00 45.0			Sk iP	07 37 59.3
		Central America (h = 70 km).				i	07 38 10.2
"	5	Up iPKP1	19 36 17.6			Um iP	07 37 46.6
		Ud iP	19 36 22.0			Ud iP	07 38 17.7
		De ePKP1	19 36 32			i	07 38 28.6
"	5	Up iPKP1	22 05 31.9			De iP	07 38 36.8
		i	22 05 39.1			Kurile Islands (h = 20 km).	
		Ud iPKP1	22 05 34.2	"	6	Up iPKP1	12 44 39.2 C
		De iPKP1	22 05 44.0			ipPKP1	12 44 49.6
		Tonga-Kermadec Islands (h = N).				Ki iPKP1	12 44 19.4
"	5	Up i(P)	22 19 17.3			Sk iPKP1	12 44 34.4
"	5	Sk iP	23 18 20.5			Um iPKP1	12 44 29.8 C
		Um iP	23 18 37.5			ipPKP1	12 44 40.2
		Panama (h = N).				Ud iPKP1	12 44 41.3
"	6	Up iPKP1	03 42 16.8			De iPKP1	12 44 48.7
		i	03 42 35.8			South of Kermadec Islands (h = 35 km).	
		(cont.)		"	6	Up iP	18 46 30.9
						Sk eP	18 46 28
						Um iP	18 46 12.4
						Ud iP	18 46 38.1
						De iP	18 46 50.3

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

1976				1976					
Aug.	8	Up	iP	03 19 01.2	Aug.	8	Up	iPKP1	20 50 38.5
		Um	eP	03 19 18			Ud	iPKP1	20 50 40.6
		Ud	eP	03 18 49			De	iPKP1	20 50 51.1
		De	i	03 18 46.1					
		North Atlantic Ocean (h = N).			"	8	Up	iP	22 51 47.8
"	8	Ki	eP	05 51 38			i	22 51 58.6	
		Ud	iP	05 51 50.6			Mx	E 1.2 16	
"	8	Up	iPKP1	08 48 08.9			Mx	N 2.9 15	
			iPKP2	08 48 19.4			Mx	Z 2.0 14	
		Ki	ePKP1	08 47 51		Ki	iP	22 51 13.5	
		Sk	iPKP1	08 48 05.4			Mx	E 1.6 15	
		Um	iPKP1	08 47 59.7			Mx	N 1.2 11	
			i	08 48 02.2			Mx	Z 1.4 15	
		Ud	iPKP1	08 48 10.6		Sk	eP	22 51 49	
		De	ePKP2	08 48 35		Um	iP	22 51 26.9	
		South of Kermadec Islands (h = 30 km).					i	22 52 16.9	
"	8	Ud	iP	09 10 47.2		Ud	iP	22 51 57.5	
"	8	Um	eP	10 27 11			i	22 52 28.6	
		Ud	eP	10 27 39		De	eP	22 52 10	
		Kurile Islands (h = 40 km).				China (h = N). M = 5.5 (Up,Ki).			
"	8	Sk	iP	11 15 05.6	"	8	Up	eP	23 16 27
		Um	iP	11 15 21.0			Ud	iP	23 16 34.5
		Ud	iP	11 15 14.1		Mediterranean Sea (h = 60 km).			
		Guatemala (h = 80 km).			"	9	Up	eP	00 31 57
"	8	Up	iP	11 19 27.6		Um	iP	00 31 29.7	
		Sk	eP	11 19 30		Ud	iP	00 32 01.2	
		Um	iP	11 19 08.4		Kurile Islands (h = N).			
		Ud	iP	11 19 39.4	"	9	Um	iP	00 33 14.1
		De	eP	11 19 54		Ud	iP	00 33 34.0	
		China (h = N).			"	9	Ud	iP	00 37 45.6
"	8	Up	iP	15 24 52.2	"	9	Ud	eP	01 17 28
		Ki	iP	15 24 22.9	"	9	Up	iP	03 24 21.7
		Sk	iP	15 24 49.6	"	9	Up	iPKP1	05 51 52.8
		Um	iP	15 24 36.0			Sk	ePKP	05 51 57
			i	15 24 42.6		Um	iPKP	05 51 54.4	
		Ud	iP	15 24 58.9		Ud	iPKP1	05 51 54.8	
		De	iP	15 25 10.2		De	iPKP1	05 52 06.3	
		Volcano Islands (h = 180 km).					i	05 52 37.9	
"	8	Up	eP	17 39 17		Tonga Islands (h = N).			
		Ki	iP	17 38 26.0	"	9	Up	iP1	10 38 38.5
		Ud	iP	17 39 20.7			iP2	10 38 41.9	
"	8	Up	iPKP1	20 22 38.0		Sk	iP1	10 38 51.6	
		Ud	iPKP1	20 22 40.0		Um	iP2	10 38 31.9	
		De	iPKP1	20 22 50.3		Ud	iP1	10 38 51.2	
"	8	Ud	iPKP1	20 26 51.7		Tsinghai, China (h = N).			
		De	iPKP1	20 27 02.3					

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

1976				1976			
Aug.	9	Up	i(P)	14	28	26.4	
		De	i(P)	14	28	20.4	
"	9	Up	eP	17	14	30	
			il	17	14	43.6	
		Ki	eP	17	14	19	
		Sk	eP	17	14	10	
		Um	iP	17	14	27.4	
			il	17	14	42.2	
		Ud	il	17	14	33.5	
		De	iP	17	14	24.3	
		Central America (h = 80 km).					
"	10	Up	iP	00	23	30.6	
			i	00	23	48.3	
			iS	00	34	26	
				micr sec			
		Mx	E	1.4	24		
		Mx	Z	3.0	24		
		Ki	iP	00	23	31.3	
			eSKS	00	34	07	
			eS	00	34	24	
				micr sec			
		Mx	E	1.8	25		
		Um	iP	00	23	33.8 C	
			iS	00	34	36	
		Ud	iP	00	23	21.1 C	
		De	iP	00	23	23.4	
		South of Panama (h = N).					
		M = 5.4 (Up,Ki).					
"	10	Up	iP	00	42	29.6	
		Ki	iP	00	41	48.0	
				micr sec			
			P	Z'	0.1	1.1	
		Um	iP	00	41	52.4	
			i	00	42	04.4	
		Ud	iP	00	42	26.3	
			i	00	42	36.1	
		De	iP	00	42	42.9	
"	10	Ki	iP	02	43	39.3	
		Ud	eP	02	44	36	
"	10	Ud	iP	05	01	32.5	
"	10	Up	i(P)	14	37	36.1	
"	11	Ud	iP	07	06	55.1	
"	11	Ud	ipP	14	13	56.8	
		Mindanao (h = 60 km).					
"	11	Up	iPKPl	16	33	49.9	
		Sk	iPKPl	16	33	41.9	
		(cont.)					
Aug.	11	(cont.)					
		Um	iPKPl	16	33	36.9	
		Ud	iPKPl	16	33	50.8	
		De	iPKPl	16	33	59.9	
"	11	Ud	eP	18	41	42	
"	11	Ki	iP	19	16	32.6	
		Um	iP	19	16	22.4	
		Ud	iP	19	16	40.8	
		Hindu Kush (h = 240 km).					
"	11	Ud	iP	19	32	29.0	
"	11	Ki	iP	19	47	51.3	
		Sk	eP	19	47	51	
		Um	iP	19	48	03.0	
"	11	Um	iPKP	22	45	45.7	
			i	22	45	57.7	
		De	iPKPl	22	45	57.4	
		New Hebrides Islands (h = 60 km).					
"	12	Up	iP	00	45	54.0	
		Sk	iP	00	46	05.8	
		Um	iP	00	46	16.9	
		Ud	iP	00	45	48.6	
		De	iP	00	45	31.0	
		Ascension Island (h = N).					
"	12	Up	iP	00	47	37.5	
		Sk	iP	00	47	49.3	
		Um	iP	00	48	00.3	
			i	00	48	06.6	
		Ud	iP	00	47	32.4	
		Ascension Island (h = N).					
"	12	Ki	eP	04	07	06	
		Sk	eP	04	06	55	
		Um	iP	04	07	11.8	
		Central America (h = N).					
"	12	Up	iP	09	43	07.8	
		Um	eP	09	43	20	
		Ud	iP	09	43	18.2	
			i	09	43	28.4	
"	12	Up	iPKP	10	18	39.8	
		Sk	iPKP	10	18	38.2	
			i	10	18	55.3	
		Um	iPKP	10	18	32.5	
			i	10	18	55.5	
		Ud	iPKP	10	18	41.8	
		De	iPKP	10	18	47.4	
		Solomon Islands (h = 45 km).					

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

1976				1976			
Aug.	13	(cont.)		Aug.	14	(cont.)	
		Ud	iPKP1 13 09 42.2 C			Ki	iP 01 33 35.6
		i	13 09 44.6			Um	iP 01 33 34.4
		De	iPKP1 13 09 51.6 C			Ud	iP 01 33 56.6
		Kermadec Islands (h = N).				De	iP 01 34 01.5
"	13	Up	i(P) 14 02 39.0	"	14	Um	iP 03 59 46.9
"	13	Um	iP 15 41 12.0	"	14	Um	iP 07 35 44.0
		Ud	iP 15 41 26.8			Austria (h = N).	
"	13	Um	iP 15 55 35.2	"	14	Ud	iP 07 37 17.7
"	13	Up	iSgl 16 26 08.0			Hindu Kush (h = 240 km).	
		Sk	iSgl 16 25 28.6	"	14	Ud	iP 08 30 44.6
		Um	iSgl 16 27 02.5	"	14	Ud	eP 10 21 15
		Ud	iPgl 16 24 25.5			Turkey (h = N).	
			iSgl 16 25 06.2	"	14	Up	ePKP1 10 28 27
		De	eSgl 16 26 08			Ud	iPKP1 10 28 28.8
		Southwest Norway, 60.5°N, 7.4°E. Origin time = 16 23 29. M _L = 2.4 (Um,Ud). By combination with Bergen readings.				De	iPKP1 10 28 39.4
"	13	Up	iSgl 17 09 47.3	"	14	Ki	iP 11 23 18.6
		Sk	iSgl 17 08 28.0			Sk	iP 11 23 37.3
		Ud	iSgl 17 08 46.6			Um	iP 11 23 20.8
		De	eSgl 17 09 55			Ud	iP 11 23 40.2
		Off west coast of Norway, 61.6°N, 4.1°E. Origin time = 17 06 16. M _L = 2.2 (Ud). By combination with Bergen readings.				De	iP 11 23 44.6
"	13	Up	eP 23 17 32	"	14	Borneo (h = 35 km).	
		Sk	eP 23 17 13	"	14	Um	i(P) 14 20 18.2
		Um	iP 23 17 25.3	"	14	Ki	eP 15 58 36
		Mexico (h = 70 km).				Um	iP 15 58 51.2
"	13	Up	iP 23 33 44.0			Mariana Islands (h = 40 km).	
		Ki	iP 23 33 06.0	"	14	Um	iP 16 12 39.8
		Sk	iP 23 33 38.8			Ud	eP 16 13 11
		Um	iP 23 33 23.1			China (h = N).	
		Ud	iP 23 33 50.5	"	14	Up	iP 19 59 37.8
		De	eP 23 34 07			i	19 59 42.4
		Japan (h = 280 km).					micr sec
"	14	Sk	eP 01 24 20			Mx	E 1.1 19
		Um	iP 01 24 36.2			Mx	N 1.0 18
		Mexico (h = 70 km).				Mx	Z 0.7 18
"	14	Up	iP 01 33 43.9			Ki	iP 19 58 42.1
		(cont.)				i	19 58 47.5
							micr sec
						Mx	E 0.9 15
						Mx	N 0.7 15
						Sk	epP 19 59 32
						Um	iP 19 59 08.3
						Ud	iP 19 59 45.5
						i	19 59 58.8
						(cont.)	

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

1976				1976			
Aug.	14	(cont.)		Aug.	15	(cont.)	
		De eP	20 00 06			Um i(PKP)	19 02 03.9
		Kamchatka (h = N).				iPKP	19 02 13.7
		M = 5.1 (Up,Ki).				iSKP1	19 04 59.0
"	14	Um iP	21 48 38.6			Ud i(PKP)	19 02 05.4
						iPKP1	19 02 19.2 D
"	14	Ud iP	22 19 59.5			De iPKP	19 02 26.5
		Hindu Kush (h = 170 km).				iPKP1	19 02 29.4 D
"	14	Up iSKP1	23 14 08.1			Tonga-Kermadec Islands (h = 510 km).	
		Sk ePKP	23 10 56	"	15	Up eP	22 48 19
		Um iPKP	23 10 52.4				micr sec
		Ud iPKP	23 11 02.1			Mx N	1.1 20
		iSKP1	23 14 12.6			Ki iP	22 48 03.5
"	15	Up iPKP1	00 58 24.1			i	22 48 11.9
		Sk iPKP1	00 58 16.4				micr sec
		Um iPKP1	00 58 11.3			Mx N	1.2 21
		Ud iPKP1	00 58 25.3			Um eP	22 48 10
"	15	Ud iP	05 29 42.8			Ud iP	22 48 27.9
						Talaud Islands (h = 40 km). M = 5.3 (Up,Ki).	
"	15	Up iP	06 49 23.1	"	15	Um iP	22 49 43.0
		Ki iP	06 48 34.3			i	22 50 33.3
		Sk iP	06 49 10.6	"	16	Up iP	01 40 30.6
		Um iP	06 48 56.8			Sk iP	01 40 43.1
		Ud iP	06 49 27.9			Um iP	01 40 57.1
		De iP	06 49 46.9			i	01 41 04.1
		Kurile Islands (h = N).				Ud iP	01 40 25.8
"	15	Um iP	10 31 11.8			North of Ascension Island (h = 40 km).	
		China (h = N).		"	16	Up iP	02 38 22.7
"	15	Um iP	10 38 32.3			ipP	02 38 31.1
		China (h = N).					micr sec
"	15	Up iP	17 16 04.4			Ki pP	Z' 0.1 1.0
		Ki iP	17 15 47.3			Sk iP	02 39 07.9
		Um iP	17 15 53.6			ipP	02 38 34.6
		Ud iP	17 16 13.0			Um iP	02 38 41.9
		Philippine Islands (h = 140 km).				ipP	02 38 47.7
"	15	Ud eP	18 34 03			Ud iP	02 38 55.5
		El Salvador (h = 70 km).				ipP	02 38 16.3
"	15	Up iPKP1	19 02 17.0 D			De iP	02 38 24.3
		iSKP1	19 05 09.6			ipP	02 37 54.1
			micr sec			North of Ascension Island. h = 30 km (Up,Sk,Um,Ud)	
		Ki PKP1	Z' 0.4 0.8	"	16	Ud iP	04 17 59.2
		iPKP	19 02 04.5	"	16	Up iP	05 22 32.6 C
		iSKP1	19 04 48.6			ipP	05 22 55.8
		Sk i(PKP)	19 02 09.3				micr sec
		iPKP	19 02 17.9			P	Z' 0.1 1.0
		iSKP1	19 05 03.5			(cont.)	
		(cont.)				(cont.)	

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

1976				1976			
Aug.	16	(cont.)		Aug.	16	(cont.)	
		Ki	iP 05 21 39.8			Sk	iP 14 17 05.7 C
			iPcP 05 22 24.6			Um	iP 14 16 42.5 C
		Sk	iP 05 22 11.9				iS 14 24 46
			iPcP 05 22 44.3			Ud	iP 14 17 08.4 C
		Um	iP 05 22 04.8			De	iP 14 17 16.1 C
			iPcP 05 22 40.5			Szechwan, China (h = 15 km).	
		Ud	iP 05 22 33.2			m = 7.1 (Up,Ki).	
		De	iP 05 22 54.2				
		Aleutian Islands (h = 70 km).		"	16	Ud	iP 15 06 58.0
"	16	Up	iSgl 10 10 48.1	"	16	Up	iP 15 07 29.9
		Sk	ePgl 10 07 50			Ud	iP 15 07 41.7
			iSgl 10 08 39.2				
		Um	iSgl 10 10 10.6	"	16	Up	iP 15 11 02.0
		Ud	iSn 10 09 36.1			Ki	iP 15 10 42.5
			iSgl 10 10 05.3			Sk	iP 15 11 11.2
		De	iSgl 10 11 50.8			Um	iP 15 10 47.1
		Norwegian Sea, near 65 1/2°N, 5°E. Origin time = 10 06 44. M _L = 2.7 (Up,Sk,Um,Ud,De).				Ud	iP 15 11 14.2
						De	iP 15 11 22.6
						Szechwan, China (h = N).	
"	16	Up	iP 10 22 29.2	"	16	Up	iP 15 31 00.8
			iPcP 10 22 53.5			Sk	iPKP1 15 30 51.4
		Ki	iP 10 21 35.0			Um	iPKP1 15 30 47.4
		Ud	iP 10 22 28.4			Ud	iPKP1 15 31 02.1
		De	iP 10 22 51.7			De	iPKP1 15 31 11.7
		Aleutian Islands (h = 55 km).		"	16	Up	iP 15 36 22.6
"	16	Up	iP 12 39 01.8				i 15 36 27.5
			i 12 39 26.1			Ki	iP 15 36 03.2
			micr sec			Sk	iP 15 36 31.2
			Z' 0.1 1.0			Um	iP 15 36 07.9
		Ki	iP 12 38 10.3			Ud	iP 15 36 34.9
		Sk	iP 12 38 46.5			De	iP 15 36 43.4
		Um	iP 12 38 34.8			Szechwan, China (h = N).	
			i 12 39 03.3	"	16	Up	iP 16 24 16.6
		Ud	iP 12 39 06.3				i 16 24 20.5
		De	iP 12 39 26.8				i 16 24 41.0
		Kamchatka (h = 50 km).					i 16 25 01.9
							micr sec
"	16	Up	iP 14 16 56.7 C				Z' 0.3 1.1
			iS 14 25 11				Z' 0.6 1.2
			micr sec				Z' 11.4 2.1
			P Z' 1.8 1.0			Mx	E 314 23
		Mx	E 40 14			Mx	N 662 20
		Mx	N 130 14			Ki	iP 16 24 01.5
		Mx	Z 62 18				i 16 24 06.7
		Ki	iP 14 16 37.3 C				i 16 24 28.7
			iS 14 24 37				i 16 24 46.0
			micr sec				micr sec
			P Z' 1.9 1.3			P	Z' 0.1 1.0
		(cont.)				(cont.)	

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

1976				1976			
Aug.	16	(cont.)		Aug.	16		
		Ki	micr sec			Up	iP 16 51 32.9
		i	Z' 0.4 1.1			i	16 51 49.6
		i	Z' 1.9 1.4			Ki	eP 16 51 21
		i	Z' 21.2 2.9			Um	iP 16 51 40.3
		Sk	iP 16 24 22.1			Ud	iP 16 51 51.9
		i	16 24 27.9	"	16	Um	iP 17 06 14.2
		i	16 24 50.7			Ud	iP 17 06 33.0
		Um	iP 16 24 05.2			Philippine Islands.	
		i	16 24 10.2	"	16	Up	iP 17 22 31.6
		i	16 24 32.2			Um	iP 17 22 20.2
		Ud	iP 16 24 24.8			Ud	eP 17 22 40
		i	16 24 30.8			Philippine Islands.	
		i	16 24 52.9	"	16	Up	eP 17 35 51
		i	16 25 10.5			Um	iP 17 35 38.3
		De	iP 16 24 30.8			Ud	iP 17 35 58.7
		i	16 24 37.1			Philippine Islands.	
		i	16 24 59.2	"	16	Um	iP 17 38 34.3
		i	16 25 14.3	"	16	Up	iP 17 50 11.2
		Mindanao (h = N).				Ki	eP 17 49 58
		m = 6.6 (Up,Ki)				Sk	eP 17 50 15
		Multiple event with				Um	iP 17 50 00.2
		successively increasing				Ud	iP 17 50 19.2
		amplitudes.				i	17 50 33.5
"	16	Um	iP 16 37 25.7			De	iP 17 50 26.1
		i	16 37 39.5			Mindanao (h = N).	
		Mindanao.		"	16	Um	iP 17 54 29.0
"	16	Up	iP 16 41 48.9	"	16	Um	iP 17 58 10.3
			micr sec			i	17 58 20.2
		P	Z' 0.2 1.3	"	16	Um	iP 18 02 48.4
		Ki	iP 16 40 33.2			Ud	iP 18 03 05.6
			micr sec			Philippine Islands.	
		P	Z' 0.2 1.4	"	16	Um	iP 18 04 32.4
		Sk	iP 16 40 54.8			Ud	iP 18 04 36.8
		Um	iP 16 40 38.8	"	16	Up	iP 18 13 27.3
		Ud	iP 16 40 57.3			Um	iP 18 13 16.6
		Mindanao (h = N).				Ud	iP 18 13 35.2
		m = 6.3 (Up,Ki).				Philippine Islands.	
"	16	Ud	iP 16 46 19.7	"	16	Um	iP 18 18 25.9
"	16	Up	iP 16 49 37.6	"	16	Up	iP 18 25 44.5
			micr sec			Um	iP 18 25 30.1
		P	Z' 0.1 0.9			Ud	iP 18 25 55.6
		Ki	iP 16 49 22.6	"	16	Um	iP 18 18 25.9
			micr sec	"	16	Up	iP 18 25 44.5
		P	Z' 0.1 1.0			Um	iP 18 25 30.1
		Sk	iP 16 49 43.4			Ud	iP 18 25 55.6
		Um	iP 16 49 28.3			Philippine Islands.	
		Ud	iP 16 49 46.9			m = 6.1 (Up,Ki).	
		De	iP 16 49 52.7				

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

1976				1976											
Aug.	16	Up	iP	18 29	26.9	Aug.	16	Um	iP	19 32	52.1				
		Ki	iP	18 29	11.7			"	16	Um	iP	19 50	27.2		
			i	18 29	18.8					Ud	iP	19 50	47.2		
										Philippine Islands.					
			i	Z'	0.1 1.5					"	16	Um	eP	20 24	46
		Sk	iP	18 29	32.9					Ud	iP	20 25	00.6		
		Um	iP	18 29	16.1					Philippine Islands.					
		Ud	iP	18 29	34.8					"	16	Um	iP	20 32	35.3
		De	iP	18 29	41.0					Ud	iP	20 32	54.5		
		Mindanao (h = 25 km).								Philippine Islands.					
"	16	Up	iP	18 30	22.0			"	16	Ki	eP	20 42	34		
		Ki	eP	18 30	07					Um	iP	20 42	39.7		
		Um	iP	18 30	12.2					Ud	iP	20 42	58.0		
			i	18 30	17.2					Mindanao (h = 50 km).					
		Ud	iP	18 30	31.0					"	16	Up	eP	20 49	42
		De	eP	18 30	37					Ki	eP	20 49	28		
		Philippine Islands.								Sk	eP	20 49	47		
"	16	Up	iP	18 34	22.4			"	16	Um	iP	20 49	31.6		
		Ud	iP	18 34	25.3					Ud	iP	20 49	50.2		
		De	iP	18 34	31.7					De	i	20 50	01.6		
"	16	Ud	iP	18 36	05.7					Mindanao (h = 35 km).					
"	16	Ki	i	18 41	44.4			"	16	Up	iP	20 54	24.3		
		Ud	iP	18 41	56.1					ipP	20 54	34.9			
"	16	Um	iP	18 42	57.9										
"	16	Up	iP	18 46	23.4										
		Ki	iP	18 46	07.4										
		Sk	iP	18 46	28.1										
		Um	iP	18 46	12.7										
		Ud	iP	18 46	31.8										
		De	iP	18 46	37.3										
		Mindanao (h = 50 km).													
"	16	Ud	iP	18 58	26.6										
		Mindanao (h = 70 km).													
"	16	Up	iP	19 06	08.6			"	16	Um	iP	21 42	08.6		
		Ki	iP	19 05	53.3					Ud	iP	21 42	28.4		
		Sk	eP	19 06	18					Mindanao (h = N).					
		Um	iP	19 05	58.5					"	16	Ud	i(P)	22 28	17.4
		Ud	iP	19 06	17.6					"	16	Up	iP	22 42	44.3
		Mindanao (h = N).													
"	16	Um	iP	19 07	46.5										
		Ud	iP	19 08	05.6										
		Mindanao (h = N).													
"	16	Um	iP	19 22	01.9			"	16	Um	iP	22 52	26.2		
		Ud	iP	19 22	19.0					Ud	eP	22 52	45		
		Philippine Islands.								Philippine Islands.					

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

1976				1976			
Aug. 16	Up	iP	23 02 41.5 C	Aug. 17	(cont.)		
		i	23 02 44.3		Sk	iP	01 24 10.9
			micr sec		Um	iP	01 23 55.0 D
		P	Z' 0.1 0.9			iPP	01 27 19.5
		i	Z' 0.2 1.0			iS	01 34 32
		Mx	E 1.7 15		Ud	iP	01 24 16.1 D
		Mx	N 1.3 15		De	iP	01 24 22.1
		Mx	Z 2.4 14			i	01 24 33.5
	Ki	iP	23 02 25.5 C				Leyte (h = 35 km).
		i	23 02 32.0				m = 6.1, M = 5.7 (Up,Ki).
			micr sec	" 17	Um	iP	02 03 40.8
		P	Z' 0.2 1.5				Mindanao (h = N).
		i	Z' 0.1 1.1	" 17	Up	iP	02 14 12.2
		Mx	E 3.0 16		Um	iP	02 13 46.7
		Mx	N 2.1 17		Ud	iP	02 14 17.7
		Mx	Z 3.4 16		De	iP	02 14 35.2
	Sk	iP	23 02 46.3	" 17	Up	iP	02 20 39.9
		i	23 02 49.0		Ki	eP	02 20 23
	Um	iP	23 02 30.8 C		Um	eP	02 20 29
		i	23 02 33.3		Ud	iP	02 20 48.6
	Ud	iP	23 02 49.6 C			i	02 21 06.0
		i	23 02 52.6				Philippine Islands (h = 70 km).
	De	iP	23 02 54.7	" 17	Um	iP	03 38 45.2
		i	23 02 57.6		Ud	eP	03 39 03
			Mindanao (h = N).				Mindanao (h = 55 km).
			m = 6.3, M = 5.8 (Up,Ki).	" 17	Up	iP	04 32 31.4
" 16	Ki	i	23 29 41.5			ipP	04 32 38.5
	Um	iP	23 29 40.4			iPP	04 36 15.7
	Ud	iP	23 29 59.0			iSKS	04 43 07
			Mindanao (h = N).				micr sec
" 16	Um	iP	23 53 01.7			pP	Z' 0.4 1.5
	Ud	iP	23 52 42.0			Mx	E 39 23
			Leeward Islands(h = 25 km).			Mx	N 65 21
" 17	Ud	iP	00 08 15.7			Mx	Z 62 22
			Mindanao (h = 55 km).		Ki	iP	04 32 15.4
" 17	Ud	iP	00 24 44.2			ipP	04 32 22.7
" 17	Up	iP	01 24 07.3				micr sec
		i	01 24 19.1			P	Z' 0.1 1.3
		iS	01 34 55			pP	Z' 0.5 1.3
			micr sec			Mx	E 69 17
		P	Z' 0.2 1.1			Mx	N 56 17
		Mx	E 1.9 20			Mx	Z 39 16
		Mx	N 2.1 23		Sk	iP	04 32 37.5
		Mx	Z 4.0 21			ipP	04 32 44.3
	Ki	iP	01 23 49.2		Um	iP	04 32 20.7
		iS	01 34 20			ipP	04 32 28.2
			micr sec		Ud	iP	04 32 39.7
		P	Z' 0.1 1.0			ipP	04 32 46.6
		Mx	E 3.0 20			iPP	04 36 29.7
		Mx	N 2.0 18		De	iP	04 32 44.4
		Mx	Z 3.8 20			ipP	04 32 51.7
			(cont.)				(cont.)

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

1976				1976			
Aug.	17	(cont.)		Aug.	17	(cont.)	
		Mindanao.				De	iP 08 06 51.0
		h = 25 km (Up,Ki,Sk,Um,Ud,De).					ipP 08 06 55.4
		m = 6.6, M = 7.2 (Up,Ki).				Mindanao.	
						h = 15 km (Up,Ki,Sk,Um,Ud,De).	
						m = 6.1 (Up,Ki).	
"	17	Up	iP 04 53 55.0	"	17	Um	eP 09 10 48
		Ki	iP 04 53 12.0			Ud	iP 09 11 05.6
		Sk	eP 04 53 47			Mindanao (h = 50 km).	
		Um	iP 04 53 31.4				
		Ud	iP 04 54 02.1				
		Japan (h = 70 km).					
"	17	Up	iP 05 31 57.2	"	17	Ud	iPKP1 11 19 35.3
			ipP 05 35 38.4			De	iPKP1 11 19 46.4
		Ki	eP 05 31 41	"	17	Ud	iP 11 45 01.4
			micr sec			Mindanao (h = 40 km).	
			P Z' 0.1 1.5				
		Sk	eP 05 32 03	"	17	Up	eP 13 39 08
		Um	iP 05 31 46.7			Ud	iP 13 39 16.6
		Ud	iP 05 32 05.1			Mindanao (h = 70 km).	
		Mindanao (h = 30 km).					
"	17	Um	iP 06 31 28.7	"	17	Up	ePKP2 13 52 20
		Ud	eP 06 31 46			Sk	iPKP1 13 52 12.6
		Philippine Islands.				Um	iPKP1 13 52 07.2
						Ud	iPKP1 13 52 15.5
						De	iPKP2 13 52 27.1
"	17	Um	iP 06 35 33.6	"	17	Sk	eP 14 44 07
		Mindanao (h = N).				Panama-Colombia (h = 45 km).	
"	17	Um	iP 06 50 34.8	"	17	Up	iP 17 18 22.2
		Mindanao (h = N).				Ki	iP 17 18 07.2
"	17	Up	iP 08 02 00.5			Um	iP 17 18 11.3
		Um	iP 08 01 49.8			Ud	iP 17 18 29.8
		Ud	eP 08 02 09			Mindanao (h = 55 km).	
		Mindanao (h = 30 km).					
"	17	Up	iP 08 06 36.8	"	17	Up	iP 17 30 35.3
			ipP 08 06 41.4				micr sec
			micr sec			Mx	N 0.8 12
			pP Z' 0.1 1.1			Mx	Z 0.7 13
			Mx N 1.1 20			Ki	eP 17 29 58
			Mx Z 1.3 24				micr sec
		Ki	eP 08 06 20			Mx	E 0.8 12
			ipP 08 06 24.9			Mx	N 0.8 12
			micr sec			Mx	Z 0.5 10
			pP Z' 0.1 1.1			Sk	eP 17 30 31
			Mx E 1.2 21			Um	iP 17 30 15.4
			Mx N 1.2 21				i 17 30 24.9
		Sk	iP 08 06 42.3				eS 17 39 31
			ipP 08 06 46.6			Ud	iP 17 30 43.8
		Um	iP 08 06 26.1			De	iP 17 30 57.5
			ipP 08 06 30.6			Japan (h = 25 km).	
		Ud	iP 08 06 44.0	"	17	Up	iP 17 42 54.9
			ipP 08 06 49.5				ipP 17 43 23.8
		(cont.)				(cont.)	

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

1976

Aug. 17 (cont.)
 Up iS 17 47 00.0
 iScP 17 49 55.9
 Ki iP 17 44 00.9
 Sk iP 17 43 34.7
 iS 17 48 07.3
 Um iP 17 43 26.1
 iScP 17 50 06.0
 Ud iP 17 43 02.7
 i 17 43 04.5
 iS 17 47 18.3
 De iP 17 42 31.6
 iS 17 46 19.0

Dodecanese Islands.

h = 150 (Up).

ScP phases at Up, Um!

" 17 Up ipP 18 21 44.3
 Ki iP 18 21 21.4
 ipP 18 21 28.5
 micr sec
 pP Z' 0.1 1.0
 Sk ipP 18 21 48.6
 Um iP 18 21 26.6
 ipP 18 21 33.8
 Ud iP 18 21 45.0

Ceram.

h = 25 km (Ki,Um).

" 17 Up iP 22 27 33.7

" 17 Ki iSgl 22 33 58.1
 Sk iSgl 22 35 21.5
 Um iSgl 22 33 53.3

North Gulf of Bothnia,
 65.7°N, 22.6°E.

Origin time = 22 32 48.

$M_L = 2.2$ (Ki,Um).

By combination with Finnish
 station readings.

" 17 Up iPKP1 22 50 35.8
 Sk iPKP1 22 50 28.7
 Um iPKP1 22 50 24.5
 Ud iPKP1 22 50 37.1
 iPKP2 22 50 42.7
 De iPKP1 22 50 46.2
 Kermadec Islands (h = 30 km).

" 17 Up iP 23 04 33.3
 Ki iP 23 04 16.8
 Um iP 23 04 22.2
 Ud iP 23 04 40.7
 Mindanao (h = 45 km).

1976

Aug. 17 Up iP 23 08 48.1
 Sk iP 23 08 32.8
 Um iP 23 08 49.2
 Ud iP 23 08 37.6
 De iP 23 08 42.5
 Costa Rica (h = 55 km).

" 17 Up iP 23 10 48.2
 Ki eP 23 10 34
 Um iP 23 10 39.8
 Ud iP 23 10 58.7
 Mindanao (h = 60 km).

" 17 Up iP 23 42 07.6
 Ki iP 23 41 51.9
 Ud iP 23 42 15.7
 Mindanao (h = 30 km).

" 18 Up iP 01 03 07.8
 ipP 01 03 36.0
 Sk iP 01 03 47.0
 Ud iP 01 03 15.9
 De iP 01 02 44.6
 Dodecanese Islands.
 h = 150 km (Up).

" 18 ✓ Up iP 02 05 15.9
 iPP 02 08 59.9
 micr sec
 Mx N 1.2 17
 Mx Z 2.1 16
 Ki iP 02 04 59.9
 micr sec
 P Z' 0.1 1.2
 Mx E 3.8 17
 Mx N 4.4 18
 Mx Z 3.8 17

Sk iP 02 05 20.8
 Um iP 02 05 05.0
 iS 02 15 54
 Ud iP 02 05 23.7
 De iP 02 05 30.7
 i 02 05 51.1
 Mindanao (h = 30 km).

" 18 Um i 02 41 31.8
 Ud iP 02 40 55.6

" 18 Up iP 02 47 41.5
 Ud iP 02 47 50.0
 Mindanao (h = 40 km).

" 18 Up iP1 03 36 21.6
 iP2 03 36 24.8
 micr sec
 P2 Z' 0.1 1.0

(cont.)

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

1976				1976			
Aug.	18	(cont.)		Aug.	18	Ud iRg	19 10 37.9
		Ki iP1	03 36 01.5				Regional near-surface event.
		Sk eP2	03 36 34				
		Um iP1	03 36 06.8	"	18	✓Up iP	20 40 37.7
		Ud iP1	03 36 33.0			iS	20 51 37
		De iP2	03 36 43.9				micr sec
		Szechwan, China (h = N).				P	Z' 0.1 1.0
"	18	Up iP	06 11 38.4			Mx	E 3.1 18
		Ki iP	06 11 21.5			Mx	N 3.1 16
		Mindanao (h = 55 km).				Mx	Z 6.0 20
"	18	Ud eP	10 01 16			Ki iP	20 40 21.1
		Mindanao (h = N).				iS	20 51 10
"	18	Ud iP	10 54 36.9				micr sec
		Mindanao (h = N).				P	Z' 0.3 1.8
"	18	Ki iP	11 01 26.8			Mx	E 3.4 14
		Um iP	11 01 32.8			Mx	N 3.0 14
		Ud iP	11 01 51.6			Mx	Z 4.1 15
		Mindanao (h = 30 km).				Sk eP	20 40 42
"	18	Ud iP	12 03 05.7			i	20 40 52.1
"	18	Up iP	13 57 02.0			Um iP	20 40 26.2
		iPKP2	13 57 06.1			eS	20 51 18
		Ki iP	13 56 41.2			Ud iP	20 40 45.6
		Sk iP	13 56 55.0			De iP	20 40 50.6
		Um iP	13 56 50.2			Mindanao (h = N).	
		Ud iP	13 57 03.5			m = 6.2, M = 6.0 (Up,Ki).	
		De iP	13 57 11.5	"	18	Up iP	20 47 25.5
		Kermadec Islands (h = 15 km).				iSn	20 48 38.9
"	18	Ud iP	15 17 47.4			iSgl	20 49 15.8
		Mindanao (h = N).				Ki iSgl	20 50 29.7
"	18	Up eP	15 20 00			Sk e	20 46 56
		Ki eP	15 19 45			i	20 47 22.0
		Sk eP	15 20 10			i	20 47 41.8
		Um iP	15 19 52.1			iSgl	20 47 53.0
		Ud eP	15 20 11			Um i	20 49 22.6
		Mindanao (h = 50 km).				iSgl	20 49 43.9
"	18	Ki eP	15 41 31			Ud iP	20 46 58.5 c
		Um iP	15 41 36.7			i	20 47 12.8
		Ud iP	15 41 55.7			i	20 47 46.6
		Mindanao (h = 55 km).				i	20 48 04.1
"	18	Up iP	17 11 35.7			iSgl	20 48 18.8
		Sk eP	17 12 14			De iSn	20 48 48.4
		Ud iP	17 11 44.3			iSgl	20 49 27.1
		De iP	17 11 12.4			Off west coast of Norway, 61.8°N, 4.4°E.	
		Dodecanese Islands (h = 160 km).				Origin time = 20 45 48.	
"	18	Up iP	17 11 35.7			M _L = 3.5 (Up,Ki,Sk,Um,Ud,De).	
		Sk eP	17 12 14			Felt.	
		Ud iP	17 11 44.3			By combination with Bergen and Kongsberg readings.	
		De iP	17 11 12.4	"	19	Up iP	01 16 11.1
		Dodecanese Islands (h = 160 km).				Sk eP	01 16 01
						(cont.)	

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

1976				1976			
Aug.	19	(cont.)		Aug.	19	Up	
		Um	iPKP1 01 15 55.3			iPKP1	01 53 37.5
		Ud	iPKP1 01 16 08.4			ipPKP1	01 53 44.1
			ipPKP1 01 16 14.9			i	01 53 54.4
		De	iPKP1 01 16 16.7				micr sec
			ipPKP1 01 16 23.3			pPKP1 Z'	0.1 0.9
		Kermadec Islands.				Ki	ePKP1 01 53 15.6
		h = 20 km (Ud,De).				i	01 53 27.6
"	19	Up	iP1 01 17 45.0			Sk	iPKP1 01 53 31.2
			iP2 01 17 50.0			ipPKP1	01 53 37.6
			iS 01 21 59			i	01 53 47.2
			micr sec			Um	iPKP1 01 53 25.8
		P2	Z' 0.1 1.0			ipPKP1	01 53 31.7
		Mx	E 5.4 19			Ud	iPKP1 01 53 39.4
		Mx	N 4.7 19			ipPKP1	01 53 46.2
		Mx	Z 3.3 19			De	iPKP1 01 53 47.8
		Ki	iP1 01 18 53.9			ipPKP1	01 53 54.3
			micr sec			Kermadec Islands.	
		Mx	E 2.3 9			h = 20 km (Up,Sk,Um,Ud,De).	
		Mx	N 2.4 16	"	19	Sk	iP 02 08 24.1
		Mx	Z 2.1 16	"	19	Ud	iP 02 16 27.0
		Sk	iP1 01 18 26.5	"	19	Up	iPKP1 02 26 18.2
		i	01 18 36.3			Um	iPKP1 02 26 05.7
		Um	iP1 01 18 16.1			Ud	iPKP1 02 26 19.7
		ip2	01 18 20.2			De	iPKP1 02 26 28.8
		iS	01 22 58				
		Ud	iP1 01 17 56.1 C	"	19	Up	iPKP1 04 34 42.0
		ip2	01 18 00.5			ipPKP1	04 34 48.5
		De	iP1 01 17 25.0			Ki	iPKP 04 34 29.3
		ip2	01 17 29.3			Sk	iPKP1 04 34 36.1
		Turkey (h = 5 km).				ipPKP1	04 34 42.7
		M = 5.2 (Up,Ki).				Um	iPKP1 04 34 29.9
"	19	Up	iPKP1 01 34 41.4			ipPKP1	04 34 35.8
		ipPKP1	01 34 46.7			i	04 34 43.3
		i	01 34 57.3			Ud	iPKP1 04 34 43.3
			micr sec			De	iPKP1 04 34 52.6
		pPKP1 Z'	0.1 0.9			ipPKP1	04 34 58.6
		Ki	ePKP1 01 34 20			Kermadec Islands.	
		Sk	iPKP1 01 34 33.8			h = 20 km (Up,Sk,Um,De).	
		ipPKP1	01 34 40.6	"	19	Up	iPKP1 05 14 32.4
		i	01 34 48.3			ipPKP1	05 14 39.0
		Um	iPKP1 01 34 28.7			Sk	ipPKP1 05 14 31.8
		ipPKP1	01 34 34.5			Um	iPKP1 05 14 20.7
		i	01 34 42.2			ipPKP1	05 14 27.2
		Ud	iPKP1 01 34 42.0			Ud	iPKP1 05 14 34.0
		ipPKP1	01 34 48.8			ipPKP1	05 14 40.2
		De	iPKP1 01 34 50.6			De	ipPKP1 05 14 49.8
		ipPKP1	01 34 57.7			Kermadec Islands.	
		Kermadec Islands.				h = 20 km (Up,Um,Ud).	
		h = 20 km (Up,Sk,Um,Ud,De).		"	19	Ud	iP 08 03 00.1
"	19	Ud	iPKP1 01 47 59.7	"	19	Ud	iP 08 19 42.3
		i	01 48 11.9				
		De	ePKP1 01 48 09				
"	19	Ud	iP 01 52 37.6				

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

1976						1976						
Aug.	19	Ud	iP	08 22	43.0	Aug.	19	Up	iP	17 20	34.3	
"	19	Ud	iP	08 31	39.7			Ki	iP	17 20	17.2	
"	19	Up	iP	08 45	21.9				P	Z'	0.1 1.0	
		Ud	iP	08 45	40.9			Um	iP	17 20	23.8	
		De	iP	08 45	36.2			Ud	iP	17 20	42.8	
								De	iP	17 20	45.6	
"	19	Up	iP	09 04	12.2			Mindanao (h = N).				
		Ki	iP	09 03	26.0	"	19 ✓	Up	iP1	19 16	43.0	
		Ud	iP	09 04	18.2				iP2	19 16	49.4	
		De	iP	09 04	35.2				iS	19 27	17	
		Kurile Islands (h = 90 km).									micr sec	
"	19	Ud	iP	09 06	56.9				P2	Z'	0.3 1.3	
			i	09 07	04.9				Mx	E	1.1 19	
"	19	Ud	iP	09 42	25.8			Ki	iP1	19 16	23.5	
		De	iP	09 42	46.1				iP2	19 16	30.7	
"	19 ✓	Up	iP	12 59	55.4						micr sec	
									P2	Z'	0.2 1.0	
			P	Z'	0.1 0.9			Sk	eP1	19 16	48	
			Mx	E	1.0 13			Um	iP1	19 16	30.8	
			Mx	N	3.7 15				iP2	19 16	39.8	
			Mx	Z	1.4 13				iS	19 26	54	
		Ki	iP	12 59	35.7			Ud	iP1	19 16	50.9	
									iP2	19 16	59.2	
			P	Z'	0.1 1.0				iPP	19 20	21.9	
			Mx	E	2.8 11			De	iP2	19 17	08.7	
			Mx	N	2.4 10				iPP	19 20	30.9	
			Mx	Z	2.9 12			Luzon (h = 15 km).				
		Sk	iP	13 00	04.6			m = 6.3 (Up,Ki).				
		Um	iP	12 59	41.1	"	19	Ud	iP	19 31	32.2	
		Ud	iP	13 00	07.6	"	19	Up	iP	22 41	03.5	
		De	iP	13 00	15.5			Sk	iP	22 41	46.4	
		Szechwan, China (h = N).						Ud	iP	22 41	12.5	
		m = 5.9, M = 5.7 (Up,Ki).						Greece (h = 60 km).				
"	19	Up	iSg1	14 16	20.6	"	19	Ud	iP	23 11	29.8	
		Ud	i	14 15	14.0			South of Mariana Islands (h = 160 km).				
			iSg1	14 15	22.2							
		De	iPgl	14 14	35.7			"	20 ✓	Up	iP	
			i	14 15	09.9						04 06 57.0	
		Southwest Norway, 58.5°N, 6.4°E.										micr sec
		Origin time = 14 13 17.							Mx	E	1.3 22	
		M _L = 2.8 (Ud).							Mx	N	2.5 20	
		By combination with Bergen and Kongsberg readings.							Mx	Z	3.6 22	
"	19	Ud	iPKP1	15 41	44.9			Ki	iP	04 06	10.1	
		De	iPKP1	15 41	53.9			Sk	eP	04 06	46	
								Um	iP	04 06	32.0	
								Ud	iP	04 07	02.1	
								De	iP	04 07	21.0	
								Kurile Islands (h = 45 km).				

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

1976

Aug.	20	Up	iP	06 04	27.9				
		Ud	i(pP)	06 04	42.8				
						Mindanao (h = N).			
"	20	Up	iSKS	07 18	49				
		Ud	ipP	07 08	23.5				
			iPP	07 12	26.2				
						Chile (h = 80 km).			
"	20	Up	iPKP2	08 04	16.7				
						micr	sec		
			PKP2	Z'	0.1	0.9			
		Sk	ePKP2	08 04	08				
		Um	iPKP1	08 03	58.2				
		Ud	iPKP2	08 04	18.1				
		De	i	08 04	26.9				
						Kermadec Islands (h = 45 km).			
"	20	Up	i(P)	09 53	24.5				
"	20	Um	iP	11 17	26.6				
		Ud	iP	11 17	45.8				
						Mindanao (h = 80 km).			
"	20	Sk	iP	11 30	34.1				
		Ud	iP	11 30	20.1				
						Pakistan (h = N).			
"	20	Ud	iP	14 37	39.7				
"	20	Ki	iP	15 17	49.8				
		Um	iP	15 17	55.6				
		Ud	iP	15 18	14.9				
						Mindanao (h = 60 km).			
"	20	Ud	ipP	15 46	57.4				
						Dodecanese Islands (h = 40 km).			
"	20	Ki	iP	17 41	02.2				
		Um	iP	17 41	30.6				
		Ud	iP	17 41	54.1				
"	21	Ud	eP	02 37	54				
						Mindanao (h = 80 km).			
"	21	Up	iP	07 10	47.0				
			i	07 11	01.2				
			i(PP)	07 14	22.5				
			i(PP)	07 14	59.5				
			iPP	07 15	15.3				
			iSKS	07 21	09				
			iS	07 22	25				
			iPKKP	07 26	17.1				
						micr	sec		
		PP	Z'	0.1	1.0				
						(cont.)			

1976

Aug.	21	(cont.)							
		Up			micr	sec			
			Mx	E	0.9	16			
			Mx	N	2.4	19			
			Mx	Z	2.5	23			
		Ki	iP		07 10	32.9			
			ipP		07 11	16.7			
			i(PP)		07 14	46.6			
			iPP		07 14	52.2			
			iS		07 20	55			
			iPKKP		07 26	26.6			
						micr	sec		
			P	Z'	0.1	1.0			
			PP	Z'	0.4	1.9			
			Mx	E	1.8	18			
			Mx	N	1.9	19			
			Mx	Z	1.0	17			
		Sk	iP		07 10	54.2			
			i(PP)		07 14	59.1			
			iPP		07 15	25.5			
			iPKKP		07 26	13.4			
		Um	iP		07 10	37.7 C			
			i		07 10	41.2			
			ipP		07 11	21.9			
			i(PP)		07 14	30.3			
			iPP		07 14	59.2			
			i		07 18	11.6			
			iSKS		07 21	00			
			iS		07 22	06			
			iPKKP		07 26	22.9			
		Ud	iP		07 10	55.7			
			i(PP)		07 15	00.0			
			iPP		07 15	31.9			
			iPKKP		07 26	11.3			
		De	iP		07 11	00.0			
			i(PP)		07 15	19.4			
						Banda Sea.			
						h = 180 km (Ki,Um).			
						m = 6.3, M = 5.8 (Up,Ki).			
"	21	Up	iP1		07 47	17.3			
			iP2		07 47	29.0			
		Ki	iP1		07 47	01.3			
			iP2		07 47	13.2			
		Um	iP1		07 47	06.9			
		Ud	iP1		07 47	25.9			
						Mindanao (h = 70 km).			
"	21	Ud	iP		07 53	36.1			
"	21	Up	iP		08 19	35.0			
		Sk	iP		08 19	48.4			
		Ud	iP		08 19	48.4			
"	21	Um	iP		09 00	18.1			
						Banda Sea (h = N).			

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

1976			
Aug.	21	Up iP	09 59 23.0
		Ki iP	09 59 05.3
		Um iP	09 59 12.1
		Ud iP	09 59 30.4
		Mindanao (h = 70 km).	
"	21	Up i(pP)	12 22 25.1
		Ud iP	12 22 33.2
		Uzbek SSR (h = N).	
"	21	Up iP	12 58 37.2 C
		ipP	12 58 49.7
		Ki iP	12 58 38.3 C
		Sk iP	12 58 52.5
		Um iP	12 58 34.6 C
		ipP	12 58 47.2
		Ud iP	12 58 48.0 C
		ipP	12 59 00.6
		De iP	12 58 45.9 C
		ipP	12 58 58.1
		Sumatra. h = 45 km (Up,Um,Ud,De).	
"	21	Up iPKP1	13 46 33.7
		Ud iPKP1	13 46 35.0
		De iPKP1	13 46 45.9
		Tonga-Kermadec Islands (h = 620 km).	
"	21	Up iP	16 44 58.4
		Um eP	16 44 48
		Ud iP	16 45 08.1
		Mindanao (h = 60 km).	
"	21	Sk eP	16 50 08
		Um iP	16 50 25.2
		Colombia (h = 20 km).	
"	21	Up iP	20 26 44.4
		Ki ipP	20 26 45.6
		Sk iP	20 26 49.9
		Um iP	20 26 33.8
		ipP	20 26 51.1
		Ud iP	20 26 52.5
		ipP	20 27 08.0
		Mindanao. h = 60 km (Um,Ud).	
"	21	Um iP	21 16 24.6
		i	21 16 32.4
		Ud iP	21 16 46.7
		Mindanao (h = 55 km).	
"	21	Up iP	22 00 03.1
		i	22 00 04.5
		i	22 00 06.5
		(cont.)	

1976			
Aug.	21	(cont.)	
		Up iS	22 08 20.9
			micr sec
		i Z'	0.4 1.1
		i Z'	1.3 1.3
		Mx E	21 16
		Mx N	9.9 10
		Mx Z	43 16
		Ki iP	21 59 43.7
		i	21 59 44.7
		i	21 59 47.0
		iS	22 07 49
			micr sec
		i Z'	0.3 1.1
		i Z'	1.1 1.5
		Mx E	38 13
		Mx N	42 16
		Mx Z	29 12
		Sk iP	22 00 12.3
		i	22 00 16.9
		Um iP	21 59 48.7
		i	21 59 49.9
		i	21 59 52.0
		iS	22 07 54
		Ud iP	22 00 16.6
		i	22 00 17.3
		i	22 00 19.5
		De iP	22 00 22.7
		Szechwan, China (h = N). m = 6.8, M = 6.7 (Up,Ki). Multiple event.	
"	22	Up iP	02 11 40.3
		iS	02 19 38
		iP'P'	02 41 03.0
		i	02 41 10.7
			micr sec
		P Z'	0.2 1.2
		Mx E	1.0 18
		Mx N	1.4 19
		Mx Z	1.7 18
		Ki iP	02 10 43.6
		i	02 10 47.1
		iS	02 17 57
			micr sec
		i Z'	0.3 1.0
		Mx E	0.7 16
		Mx N	2.1 20
		Mx Z	1.2 16
		Sk iP	02 11 12.0
		iP'P'	02 41 15.7
		Um iP	02 11 14.0
		i	02 19 39.3
		iP'P'	02 41 08.6
		i	02 41 15.2
		iS	02 18 50
		(cont.)	

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

1976

Aug.	22	(cont.)			
		Ud	iP	02 11 37.0	
			iP'P'	02 41 03.4	
		De	iP	02 12 01.5	
			i	02 12 36.8	
		Alaska (h = 140 km).			
		m = 5.9, M = 5.2 (Up,Ki).			
"	22	Up	iP	02 16 11.4	
		Sk	iP	02 15 52.5	
		Ud	iP	02 16 08.9	
"	22	Up	iP	02 53 04.5	
		Sk	iP	02 53 40.1	
		Um	iP	02 53 50.2	
		Ud	iP	02 53 01.4	
			i	02 53 15.3	
		Italy (h = N).			
"	22	Up	eP	03 10 16	
		Ud	iP	03 10 30.0	
		Turkey (h = N).			
"	22	Up	ePKP1	05 37 49	
		Sk	iPKP1	05 37 43.3	
		Ud	iPKP1	05 37 50.5	
"	22	Up	iPKP1	07 06 28.2	
		Sk	iPKP1	07 06 20.5	
		Um	iPKP1	07 06 15.7	
		Ud	iPKP1	07 06 29.6	
		De	iPKP1	07 06 38.7	
		Kermadec Islands (h = N).			
"	22	Ud	iP	08 52 18.2	
"	22	Up	iP	13 30 03.0	
		Sk	eP	13 30 13	
		Um	iP	13 29 48.3	
		Ud	iP	13 30 16.0	
		Szechwan, China (h = N).			
"	22	Up	iP	13 33 42.9	
			iS	13 37 39	
				micr sec	
		P	Z'	0.1 1.0	
		Mx	E	0.8 11	
		Mx	N	0.9 13	
		Mx	Z	1.1 12	
		Ki	iP	13 34 50.5	
				micr sec	
		Mx	E	1.0 10	
		Mx	N	0.7 10	
		Sk	iP	13 34 26.6	
		Um	iP	13 34 14.4	
			iS	13 38 48	
		(cont.)			

1976

Aug.	22	(cont.)			
		Ud	iP	13 33 53.6	
			i	13 34 00.0	
		De	iP	13 33 19.9	
			i	13 33 23.9	
		Turkey (h = 15 km).			
		M = 4.7 (Up,Ki).			
"	22	Ki	iPgl	15 15 33.1	
			iSgl	15 15 43.5	
			i	15 15 49.6	
		Um	iPgl	15 16 30.5	
			iSgl	15 17 26.1	
		Swedish Lapland-Norrbottnen, Sweden, 67.9°N, 22.7°E. Origin time = 15 15 17. M _L = 2.2 (Um).			
		By combination with Finnish station readings.			
"	22	Sk	iP	16 15 47.9	
"	22	Up	iP	17 23 41.8	
			i	17 23 48.0	
		Sk	iP	17 24 20.5	
		Um	iP	17 24 19.4	
		Ud	iP	17 23 47.8	
		De	iP	17 23 11.6	
		Ionian Sea (h = 60 km).			
"	22	Ud	iP	19 55 33.7	
		Japan (h = 400 km).			
"	22	Sk	e(PKP)	20 22 41	
		Um	iPKP	20 22 40.7	
		De	iPKP	20 22 55.0	
		Santa Cruz Islands (h = 60 km).			
"	22	Up	eP	21 28 49	
				micr sec	
		Mx	E	1.3 23	
		Mx	N	2.1 23	
		Mx	Z	4.0 24	
		Ki		micr sec	
		Mx	E	2.4 25	
		Mx	N	3.2 20	
		Mx	Z	5.0 24	
		Sk	ePKP	21 28 49	
		Um	iPKP	21 28 41.2	
			i	21 28 48.9	
		Ud	ePKP	21 28 49	
		De	iPKP	21 28 56.9	
		New Hebrides Islands (h = 30 km). M = 5.9 (Up,Ki).			
"	22	Ud	iP	23 51 25.2	
		De	iP	23 51 56.0	

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

1976					1976				
Aug.	22	Ud	iP	23 53 23.6	Aug.	23	Up	iP	04 23 18.3
"	23	Ud	iPKP1	00 06 58.7			Ki	iP	04 22 31.1
		De	iPKP1	00 07 09.6			Ud	iP	04 23 23.8
							Kurile Islands (h = 320 km).		
"	23	Up	iP	03 20 02.7	"	23	Up	iP	04 41 20.2
			i	03 20 08.6					
				micr sec					
		P	Z'	0.1 0.7	"	23	Ud	iP	09 08 37.2
		Ki	iP	03 21 20.5			De	iP	09 08 39.7
		Sk	iP	03 20 43.4	"	23	Um	iP	09 52 26.3
		Um	iP	03 20 42.5			Ud	iP	09 52 43.8
		Ud	iP	03 20 08.7			De	iP	09 52 48.3
			i	03 20 13.8			Celebes (h = 120 km).		
			iS	03 24 13.2	"	23	Ud	iP	10 28 45.3
		De	iP	03 19 31.6			Japan (h = 60 km).		
		Greece (h = 50 km).			"	23	Up	iP	14 07 47.5
"	23 ^v	Up	iP	03 40 17.8 C			Ki	iP	14 07 57.5 C
			iS	03 48 33					micr sec
				micr sec			P	Z'	0.1 0.9
		P	Z'	1.2 1.1			Sk	iP	14 07 36.4
		Mx	E	16 13			Um	iP	14 07 56.1
		Mx	N	85 17			Ud	iP	14 07 37.0
		Mx	Z	26 13			De	iP	14 07 35.3
		Ki	iP	03 39 57.8 C			Windward Islands (h = 70 km).		
			i	03 40 00.7	"	23	Up	iPKP2	19 05 15.6
				micr sec			Um	iPKP1	19 05 00.7
		P	Z'	1.1 1.5			Ud	iPKP1	19 05 13.0
		Mx	E	48 12	"	23	Sk	iP	21 12 28.1
		Mx	N	116 14			Um	iP	21 12 04.5
		Mx	Z	45 12			Ud	iP	21 12 31.2
		Sk	iP	03 40 26.3 C			Szechwan, China (h = N).		
			i	03 40 29.5	"	23	Up	iPKP1	21 51 15.1
		Um	iP	03 40 02.9 C			Sk	iPKP1	21 51 06.6
			i	03 40 05.8			Ud	iPKP1	21 51 17.6
			iS	03 48 08			De	iPKP1	21 51 26.1
		Ud	iP	03 40 29.5 C	"	23	Up	iPKP1	21 51 15.1
			i	03 40 32.5			Sk	iPKP1	21 51 06.6
		De	iP	03 40 36.6 C			Ud	iPKP1	21 51 17.6
			i	03 40 39.7			De	iPKP1	21 51 26.1
		Szechwan, China (h = N).			"	24	Um	iP	06 03 49.3
		m = 6.9, M = 7.1 (Up,Ki).						ipP	06 03 59.0
"	23	Up	iP	03 55 50.5			Ud	iP	06 04 18.7
				micr sec				ipP	06 04 28.2
		P	Z'	0.3 1.9			Japan.		
		Ki	iP	03 55 33.5			h = 35 km (Um,Ud).		
				micr sec	"	24	De	iP	06 09 58.6
		P	Z'	0.2 1.3					
		Sk	iP	03 55 54.4	"	24	Up	eP	07 32 00
		Um	iP	03 55 39.0			Sk	iP	07 32 35.7
		Ud	iP	03 55 58.2			Um	iP	07 32 29.0
		Mindanao (h = 60 km).					Ud	iP	07 32 05.4
		m = 6.3 (Up,Ki).					De	iP	07 31 33.2
							Crete (h = N).		

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

1976

Aug. 24 Up iSgl 14 29 05.8
Ud iPgl 14 27 41.8
iSgl 14 28 02.8
iRg 14 28 12.5
De iSgl 14 29 01.3
Gulf of Oslo, 59,4°N,
10.5°E.
Origin time = 14 27 15.
 $M_L = 1.7$ (Ud).
Near-surface event.

" 24 Ud iPgl 16 27 36.8
iSgl 16 27 44.7
iRg 16 27 49.8
Regional near-surface event.

" 24 Ud eSgl 19 17 20

" 25 Up iP 03 28 59.7
Ud iP 03 29 11.2

" 25 Up iP 04 09 28.5
micr sec
Mx E 0.8 11
Mx N 0.7 10
Mx Z 0.9 10
Ki iP 04 10 05.3
i 04 10 40.4
micr sec
Mx E 0.4 8
Mx N 0.4 8
Sk eP 04 10 05
Um iP 04 09 40.6
i 04 09 44.3
Ud iP 04 09 44.1
i 04 09 47.5
De iP 04 09 29.8
Caucasus (h = N).

" 25 Up iP 12 42 37.7
i 12 42 50.3
iSKS 12 52 57
iS 12 53 09
micr sec
P Z' 0.1 0.8
i Z' 0.3 1.0
Mx E 2.2 23
Mx N 4.4 24
Mx Z 2.4 25
Ki iP 12 42 18.3
i 12 42 33.3
iS 12 52 31
micr sec
P Z' 0.2 1.3
i Z' 0.3 1.0
(cont.)

1976

Aug. 25 (cont.)
Ki micr sec
Mx E 1.7 16
Mx N 2.1 20
Mx Z 3.0 19
Sk eP 12 42 42
Um iP 12 42 25.4
i 12 42 42.9
iSKS 12 52 42
Ud iP 12 42 46.2
De iP 12 42 52.8
i 12 43 10.9
ePP 12 46 30
Luzon (h = 25 km).
m = 6.4, M = 5.8 (Up,Ki).

" 25 Um iP 17 41 48.1

" 25 Ki eP 17 57 37
Um iP 17 57 40.1
Ud iP 17 58 00.2
Mindanao (h = 50 km).

" 25 Up i(P) 18 39 11.3
Ud i(P) 18 39 56.1

" 25 Up iPgl 21 24 57.4 C
iSgl 21 25 18.1
i 21 25 19.9
Ki eSgl 21 29 12
Sk eSn 21 26 36
iSgl 21 26 57.6
Um iSgl 21 27 15.0
Ud iPgl 21 24 51.8
i 21 24 54.1
i 21 25 09.7
iSgl 21 25 10.5
De iPgl 21 25 14.0
iSgl 21 25 47.0

Närke, Sweden, 58.9°N, 15.1°E.
Origin time = 21 24 28.
 $M_L = 2.9$ (Up,Sk,Um,Ud,De).
Felt.

" 26 Ud iPKP1 06 29 05.0
De iPKP1 06 29 15.9
Tonga-Kermadec Islands
(h = 550 km).

" 26 Up iP 14 41 49.4
micr sec
P Z' 0.1 1.0
Ki iP 14 41 14.3
Sk iP 14 41 22.5
Um iP 14 41 34.3
Ud iP 14 41 41.0
Nevada.
Underground explosion.

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

1976				1976			
Aug.	26	Up	iSgl	14 48 55.0	Aug.	28	(cont.)
		Sk	eSgl	14 48 32			Um ipP 02 40 56.9
		Ud	iPgl	14 47 32.2			Ud iP 02 40 49.7 D
			iSgl	14 47 53.0			ipP 02 41 23.7
			i	14 47 54.9			De iP 02 41 11.7
			iRg	14 48 04.0			Aleutian Islands.
				Southeast Norway, 60.7°N, 10.7°E.			h = 150 km (Up,Ki,Um,Ud).
				Origin time = 14 47 04.	"	28	Up iP 03 03 55.3 C
				M _L = 2.1 (Up,Ud).			i 03 04 06.2
				Near-surface event.			iPn 03 05 01.5
							iPP 03 05 12.7
"	26	Up	iSgl	17 07 25.1			micr sec
		Sk	iPgl	17 05 56.6			i Z' 0.3 0.5
			iSgl	17 06 47.5			Ki iP 03 03 38.9 C
		Um	iSgl	17 08 21.1			micr sec
		Ud	iPgl	17 05 42.7			P Z' 0.6 0.6
			iSgl	17 06 24.0			Sk iP 03 04 10.5 C
		De	iSgl	17 07 24.8			iPP 03 05 33.4
				Southwest Norway, 60.4°N, 7.4°E.			Um iP 03 03 39.8 C
				Origin time = 17 04 47.			Ud iP 03 04 11.9 C
				M _L = 2.6 (Ud).			De iP 03 04 19.0 C
				By combination with Bergen and Kongsberg readings.			iPP 03 05 41.0
							Eastern Kazakh SSR.
							m = 6.6 (Up,Ki).
							Underground explosion.
"	26	Sk	eP	18 09 52	"	28	Up iP 06 44 16.3
		Ud	iP	18 09 26.4			Um i 06 44 08.9
				Zambia (h = N).			Ud eP 06 44 32
							China (h = N).
"	27	Up	iP	02 43 10.6	"	28	Ud iP 10 24 41.7
		Ud	iP	02 43 16.1			Fiji Islands (h = 620 km).
		De	iP	02 43 34.3			
				Kurile Islands (h = N).			
"	27	Sk	eP	08 51 29	"	28	Up iP 10 42 36.1
		Ud	iP	08 51 39.8	"	28	Ud iP 11 35 22.9
"	27	Ud	iP	20 10 37.8	"	28	Ud iP 15 54 09.0
							Mindanao (h = 35 km).
"	27	Up	iPKP1	21 48 06.1	"	28	Up iP1 16 33 28.6
		Sk	iPKP1	21 47 59.0			iP2 16 33 33.2
		Ud	iPKP1	21 48 07.8			Um iP2 16 33 11.3
		De	iPKP1	21 48 17.1			China (h = N).
"	28	Up	iP	02 28 08.7	"	28	Up iP 17 40 29.0
		Ud	iP	02 28 02.6			Ud iP 17 40 29.7
"	28	Up	iP	02 40 49.3 D			Aleutian Islands (h = 40 km).
			ipP	02 41 24.9			
				micr sec			
			P	Z' 0.1 0.7	"	28	Sk e1 19 03 43
		Ki	iP	02 39 56.6			Um iPKP1 19 03 19.6
			ipP	02 40 32.6			il 19 03 37.4
		Sk	iP	02 40 27.2			Ud ePKP1 19 03 34
		Um	iP	02 40 22.5 D	"	28	Ud eP 20 45 44
				(cont.)			Mindanao (h = 50 km).

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

1976				1976			
Aug.	28	Ud iP	22 14 46.5	Aug.	29	(cont.)	
		Mindanao (h = 55 km).				Ki iP	15 25 15.3
"	28	Ud eP	22 26 05			Sk iP	15 25 30.1
		Oregon (h = N).				Um iP	15 25 11.4
"	28	Up iP	23 09 10.6			Ud iP	15 25 25.4
		Ki eP	23 09 08			De iP	15 25 23.2
		Ud iP	23 09 26.3			Sumatra (h = 50 km).	
		i	23 09 32.3	"	29	Ud iP	15 45 15.5
		De iP	23 09 26.8	"	29	Up iP	16 16 22.5
		Sinkiang, China (h = N).				ipP	16 16 54.6
"	29	Ki ePl	02 20 37			Ki iP	16 15 58.3
		i	02 20 45.1			Sk iP	16 16 25.7
		Ud i	02 21 14.5			Um iP	16 16 06.9
		Ceram Sea (h = N).				Ud iP	16 16 32.4
"	29	Up iP	02 57 42.7			ipP	16 17 04.6
		Um iP	02 57 32.3			De iP	16 16 42.6
		Ud iP	02 57 51.5			Formosa.	
		Mindanao (h = 70 km).				h = 130 km (Up,Ud).	
"	29	Up eP	05 43 17	"	29	Up ePKP1	17 19 39
		Ki iP	05 43 00.4			Sk ePKP1	17 19 33
			micr sec			Um iPKP1	17 19 27.5
		P	Z' 0.1 1.0			Ud iPKP1	17 19 41.6
		Sk iP	05 43 32.3			De iPKP1	17 19 49.9
		Um eP	05 43 02	"	29	Up iPKP1	18 48 37.5
		Ud iP	05 43 22.6			Sk iPKP1	18 48 30.6
		Mindoro (h = 30 km).				Um iPKP1	18 48 26.4
"	29	De iP	08 32 38.2			Ud iPKP1	18 48 39.3
						De iPKP1	18 48 47.8
"	29	Up eP	10 53 49			Kermadec Islands (h = 70 km).	
		Ki iP	10 52 32.7	"	29	Ud iP	19 28 34.1
		Um iP	10 53 12.2	"	29	Up iP	19 35 00.9
		De iP	10 54 29.8			Ud iP	19 35 08.9
		North of Severnaya Zemlya (h = N).		"	29	Ud iP	20 08 06.4
"	29	Um iP	12 54 09.7	"	29	Up iP2	20 08 09.7
"	29	Ud iPKP	13 06 14.1			Um iP1	20 08 27.4
		Chile (h = N).				iP2	20 08 29.6
"	29	Ud iP	13 37 07.4			Ud iP1	20 08 24.6
"	29	Up eP	14 30 07			iP2	20 08 27.7
		Um iP	14 29 48.8			De iP1	20 08 05.3
		Ud iP	14 30 15.0			iP2	20 08 08.6
		Bonin Islands (h = N).		"	29	Um eP	23 49 32
"	29	Up iP	15 25 13.2			Sakhalin Island (h = 360 km).	
		i	15 25 20.4	"	30	Um iP	00 19 01.9
		(cont.)				Ud iP	00 19 22.1

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

1976				1976			
Aug.	30	Up	iP	02 13 17.8	Aug.	30	(cont.)
			iS	02 24 17			Ud iPP 08 56 37.7
				micr sec			Caroline Islands (h = 55 km).
			Mx E	1.0 18			M = 5.9 (Up,Ki).
			Mx N	1.6 18			
			Mx Z	2.4 18			
		Ki	iP	02 13 01.3	"	30	Ud i(P) 10 16 00.5
				micr sec			
			Mx E	2.7 19	"	30	Ud iP 13 09 17.9
			Mx N	1.7 16			Mindanao (h = 70 km).
			Mx Z	2.4 17			
		Sk	iP	02 13 22.8	"	30	Ud iP 14 08 25.2
		Um	iP	02 13 06.9			De iP 14 08 43.4
			iS	02 23 55			Kurile Islands (h = 160 km).
		Ud	iP	02 13 26.0	"	30	Up iP 14 18 01.2
		De	iP	02 13 32.0			Ud iP 14 18 11.1
				Mindanao (h = N).	"	30	Up iP 16 00 46.1
				M = 5.7 (Up,Ki).			Ud iP 16 00 52.6
"	30	Um	iSKP1	03 05 44.0	"	30	Up iSKS 17 27 31
		Ud	iPKP1	03 03 06.6			micr sec
		De	iPKP1	03 03 17.6			Mx E 1.3 22
				Tonga-Kermadec Islands			Mx Z 1.4 25
				(h = 570 km).			Um iS 17 27 35
"	30	Up	iP	04 38 25.8			Ud eP 17 17 03
		Ki	iP	04 37 49.7			Mindanao (h = N).
		Sk	eP	04 38 21	"	30	Ud iP 17 52 24.5
		Um	iP	04 38 05.4			
		Ud	iP	04 38 33.1	"	31	Ki iPKP 02 26 40.6
				Japan (h = 120 km).			Ud iPKP 02 26 22.5
"	30	Ud	iPKP1	05 46 53.0			South Sandwich Islands
		De	iPKP1	05 47 03.3			(h = 45 km).
				Fiji Islands (h = 610 km).	"	31	Up iP2 03 35 47.0
"	30	De	iPKP1	05 51 46.0			micr sec
				Fiji Islands (h = 610 km).			Mx E 2.9 14
"	30	Up	eP	08 52 11			Mx N 3.2 15
			i(PP)	08 56 18.9			Mx Z 6.9 14
				micr sec			Ki eP1 03 35 08
			Mx E	2.5 19			iP2 03 35 13.2
			Mx N	1.3 18			Sk eP1 03 35 45
			Mx Z	3.6 18			Um iP1 03 35 24.4
		Ki	eP	08 51 45			Ud iP2 03 36 00.7
				micr sec			De iP2 03 36 12.0
			Mx E	2.0 16			China (h = 30 km).
			Mx N	3.2 18	,	31	Up iP2 03 37 45.1
			Mx Z	3.4 18			micr sec
		Um	iPP	08 56 17.4			P2 Z' 0.1 1.1
			i	08 56 32.0			Ki iP2 03 37 09.0
		Ud	eP	08 52 15			micr sec
			i(PP)	08 56 17.4			P2 Z' 0.1 1.0
				(cont.)			(cont.)

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

1976

Aug. 31 (cont.)
 Sk iP2 03 37 44.1
 Um iP2 03 37 22.6
 Ud iP1 03 37 51.9
 De iP1 03 38 02.4
 iP2 03 38 07.5
 China (h = 100 km).
 m = 5.8 (Up.Ki).

1976

Aug. 31 (cont.)
 Ud iPKP1 15 21 24.2
 De iPKP1 15 21 32.8
 Kermadec Islands (h = N).

" 31 Up iPKP1 09 26 30.1 C
 i 09 26 53.9
 micr sec
 PKP1 Z' 0.1 1.0
 i Z' 0.2 0.9
 Ki ePKP1 09 26 07
 i 09 26 19.5
 Sk iPKP1 09 26 23.3 C
 i 09 26 56.0
 Um iPKP1 09 26 18.0 C
 i 09 26 34.2
 i 09 26 37.8
 Ud iPKP1 09 26 31.7 C
 i 09 26 47.7
 De iPKP1 09 26 39.6
 i 09 27 00.3
 Kermadec Islands (h = 55 km).

" 31 Sk iP 11 25 11.0
 Greece-Bulgaria (h = 50 km).

" 31 Up iPKP1 13 01 22.0
 micr sec
 PKP1 Z' 0.1 1.0
 Ud iPKP1 13 01 24.3
 De iPKP1 13 01 34.6
 Tonga-Kermadec Islands
 (h = 440 km).

" 31 Up iPKP1 13 41 46.7 C
 micr sec
 PKP1 Z' 0.2 1.3
 Ki ePKP 13 41 34
 Sk iPKP1 13 41 39.5 C
 i 13 41 51.0
 Um iPKP1 13 41 35.5 C
 Ud iPKP1 13 41 48.4
 i 13 41 59.5
 De iPKP1 13 41 58.6
 i 13 42 09.6
 Kermadec Islands (h = 50 km).

" 31 Up iPKP1 14 36 03.5
 Ud iPKP1 14 36 05.1

" 31 Up iPKP2 15 21 26.1
 i 15 21 34.0
 (cont.)

Torild van Eck
 Ota Kulhánek
 Klaus Meyer
 Rutger Wahlström

May 3, 1978



SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ,

UDDEHOLM and DELARY

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

SEPTEMBER 1 - 30, 1976

1976					1976				
Sep.	1	Up	iP	01 17 03.7	Sep.	2	Ud	iP	04 27 24.8
			i	01 17 08.1			Honduras (h = 45 km).		
		Ki	iP	01 16 45.5	"	2	Up	iP	10 08 11.3
		Um	i	01 16 54.4			Ud	iP	10 07 58.7
		Ud	iP	01 17 17.7			Szechwan, China (h = 20 km).		
"	1	Ud	iP	02 28 09.9	"	2	Up	iP	10 33 04.9
		Aleutian Islands (h = 120 km).					Sk	iP	10 32 48.0
"	1	Ud	iP	06 21 03.8			Ud	iP	10 32 55.6
		Afghanistan-USSR (h = 200 km).					De	iP	10 33 01.8
"	1	Ud	iP	07 39 06.9	"	2	Up	eSgl	14 29 26
		Afghanistan-USSR (h = 200 km).					Ud	iSgl	14 28 28.0
"	1	Ki	iP	10 54 10.6	"	2	Ud	iP	16 32 09.0
		Um	iP	10 53 59.9 C			Philippine Islands		
		Ud	iP	10 54 18.2			(h = 60 km).		
		Afghanistan-USSR (h = 110 km).			"	2	Ud	iPKP1	17 48 49.5
"	1	Ki	i(PKP)	13 44 14.9			De	iPKP1	17 49 02.2
			iPKP	13 44 28.1			Fiji Islands (h = 310 km).		
				micr sec	"	2	Um	iP	20 01 13.6
			(PKP) Z'	0.1 1.0			Ud	iP	20 01 12.7
		Sk	iPKP	13 44 36.7	"	2	Ud	iP	21 30 42.0
			i	13 44 40.1			Tadzhik SSR (h = 20 km).		
		Um	iPKP	13 44 33.1	"	2	Up	iP	21 41 53.9
		Ud	i(PKP)	13 44 32.4			Ud	iP	21 42 00.6
		De	iPKP1	13 44 41.7			Greece (h = 60 km).		
		New Hebrides Islands			"	3	Ud	iP	04 09 49.9
		(h = 80 km).					Tadzhik SSR (h = 10 km).		
"	1	Ud	i(P)	15 14 52.7	"	3	Up	iPn	04 28 40.7
"	1	Ud	iP	20 50 54.7			iPg1	04 28 42.7	
		Kamchatka (h = N).					iSn	04 29 11.4	
"	2	Up	iP	04 26 02.4			(cont.)		
		Ud	iP	04 26 04.0 C					
		Aleutian Islands (h = 60 km).							

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

1976

Sep. 3 (cont.)
 Up iSgl 04 29 13.9
 Ki iSn 04 32 12.8
 i 04 33 04.3
 iSgl 04 33 09.6
 Sk ePn 04 29 21
 iSn 04 30 16.1
 iSgl 04 30 39.5
 Um iPgl 04 29 49.5
 iSn 04 30 37.6
 iSgl 04 31 10.0
 Ud iPgl 04 28 28.3 C
 iSgl 04 28 50.3
 De iPgl 04 28 34.3
 iSgl 04 28 59.0
 Västergötland, Sweden,
 58.4°N, 13.9°E.
 Origin time = 04 28 00.
 $M_L = 3.6$ (Up,Ki,Sk,Um,Ud,De).
 Felt.

" 3 Ud iP 05 59 28.5
 Japan (h = 40 km).

" 3 Up iP 10 07 50.3
 i 10 08 04.6
 micr sec
 P Z' 0.1 0.5
 Ki iP 10 07 37.6
 Sk iP 10 08 03.4
 Um iP 10 07 39.7 C
 Ud iP 10 08 03.0 C
 De iP 10 08 08.3
 Szechwan, China (h = N).

" 3 Up iP 11 56 20.8
 Ud iP 11 56 30.2
 Formosa (h = 40 km).

" 3 Ud iPKP1 13 13 50.9
 De iPKP1 13 15 00.7

" 3 Up iPKP1 17 27 13.2
 Um iPKP1 17 27 02.8
 Ud iPKP1 17 27 15.0
 Kermadec Islands (h = N).
 Late arrivals wrt the NEIS
 solution.

" 3 Up iP 22 00 09.8
 iPP 22 01 40.1
 micr sec
 P Z' 0.1 1.0
 Mx E 0.7 13
 Mx N 3.6 12
 Mx Z 1.4 12

(cont.)

1976

Sep. 3 (cont.)
 Ki iP 22 00 17.6
 iPP 22 01 51.4
 micr sec
 Mx E 1.6 11
 Mx N 4.7 10
 Mx Z 0.7 11
 Sk iP 22 00 32.3
 iPP 22 02 07.9
 Um iP 22 00 06.8 C
 Ud iP 22 00 26.6 C
 i 22 00 29.7
 iPP 22 02 05.9
 De iP 22 00 26.5 C
 Afghanistan-USSR (h = 45 km).
 $M = 5.5$ (Up,Ki).

" 3 Um iP 22 27 48.9 C
 Ud iP 22 28 11.9 C
 Tadzhik (h = 10 km).

" 4 Ki iP 00 07 44.8
 i 00 07 53.0
 Ud iP 00 07 55.8
 Sumatra (h = 70 km).

" 4 Up iP 02 21 59.5
 micr sec
 P Z' 0.1 1.0
 Ki iP 02 21 35.4
 i 02 21 40.6
 micr sec
 P Z' 0.1 1.0
 Um iP 02 21 43.7
 i 02 21 49.0
 Ud iP 02 22 09.9

Formosa (h = 40 km).
 $m = 5.8$ (Up,Ki).

The second phase (Ki,Um) when
 interpreted as pP, gives a focal
 depth of 15 km.

" 4 Ud iP 04 05 56.2

" 4 Up i 04 30 27.1
 micr sec
 i Z' 0.1 1.0
 Sk iPKP1 04 30 15.5
 i 04 30 24.7
 Ud iPKP1 04 30 22.1
 i 04 30 34.2
 Kermadec Islands (h = N).

" 4 Ki iP 05 23 45.6
 Sk eP 05 23 57
 Santa Cruz Islands (h = 11 km).

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

1976				1976			
Sep.	4	Ud	iP	09 05	10.3	Sep.	5 (cont.)
"	4	Um	iPKP1	10 05	36.6		Sk iP
		Ud	iPKP1	10 05	50.4		Um iP
"	4	Ud	iPKP	12 00	50.1		Ud iP
				Solomon Islands (h = 80 km).			De i
"	4	Up	iSgl	12 11	19.5	"	5 Ki iP
		Ud	iSgl	12 10	15.5		Mindanao (h = 60 km).
				Southern Norway.		"	5 Sk i
				By combination with Kongsberg readings.			Ud iP
"	4	Up	iP	12 23	28.0		Formosa (h = 40 km).
		Ki	iP	12 23	13.4	"	5 Sk iP
		Ud	iP	12 23	38.5		Ud iP
				Luzon (h = 55 km).			07 28 56.0
"	4	Um	iP	15 58	05.9 C	"	5 Ud iP
		Ud	iP	15 58	34.1		07 28 57.0 C
				Japan (h = 45 km).		"	5 Up iP
"	4	Um	iPKP	16 34	56.7		Ud iP
		Ud	iPKP	16 35	06.0		10 44 44.6
				New Hebrides (h = 40 km).		"	5 Ud iP
"	4	Ud	iP	17 24	55.8		10 44 42.8
				Japan (h = N).		"	5 Aleutian Islands (h = 70 km).
"	4	Ud	iPKP1	17 59	43.6	"	5 Up iP
		De	iPKP1	17 59	54.1		Ki iP
"	4	Ud	iP	18 17	10.1 C		Sk iP
"	4	Ud	iP	23 48	49.5		Um iP
				Tadzhik SSR (h = N).			Ud iP
"	5	Sk	iP	00 24	20.7	"	5 Up iP
		Um	iP	00 24	00.3		Ki iP
"	5	Um	iP	01 06	41.2		Sk iP
		Ud	iP	01 07	12.7		Um iP
				Kurile Islands (h = N).			Ud iP
"	5	Ud	iPKP	04 19	22.7	"	5 De iP
				Santa Cruz Islands (h = N).			15 44 17.7
"	5	Ki	iP	05 37	07.1		De iP
		Ud	iP	05 37	30.9		15 44 14.4
		i		05 37	38.1		Afghanistan-USSR (h = 40 km).
				Mindanao (h = 70 km).		"	5 Up iP
"	5	Up	iP	05 40	40.6		iPcP
		Ki	iP	05 40	06.6 C		16 50 10.5 C
				(cont.)			16 52 38.0
"	5	Um	iP	17 00	38.2		micr sec
		Ud	iP	17 00	09.0		P Z' 0.1 0.8

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

1976

Sep. 5 Um iP 18 17 56.4 C
Ud iP 18 17 26.7 C

" 5 Up iPKP1 19 26 13.3
Sk iPKP 19 26 07.1
Ud iPKP1 19 26 15.2 C
De iPKP1 19 26 24.5
Kermadec Islands (h = 70 km).

" 5 Up iP 20 24 15.4
Ki iP 20 23 59.2
micr sec
P Z' 0.2 1.5
Sk iP 20 23 57.1
Um iP 20 24 09.7
Ud iP 20 24 07.4
De iP 20 24 17.0
Mexico (h = 90 km).

" 5 Up iP 22 13 06.3
iS 22 17 39
micr sec
Mx E 0.8 14
Mx N 3.2 20
Mx Z 3.3 19
Ki iP 22 13 55.3
micr sec
P Z' 0.1 1.0
Mx E 2.8 13
Mx N 2.6 15
Mx Z 3.8 20
Um iP 22 13 30.2
iS 22 18 13
Ud iP 22 13 22.5
De iP 22 13 00.0
Turkey (h = 20 km).
M = 5.1 (Up,Ki).

" 5 Up iP 22 31 48.1
Um iP 22 31 32.9

" 5 Up iP 23 29 42.1

" 6 Up iPKP1 00 16 17.5
i 00 16 30.5
Sk iPKP1 00 16 10.3
e 00 16 19
Ud iPKP1 00 16 19.0
i 00 16 29.6
De iPKP1 00 16 28.2
i 00 16 37.5

" 6 Up iP 01 55 20.0
i 01 55 27.3
Ud iP 01 55 30.1
i 01 55 36.2
(cont.)

1976

Sep. 6 (cont.)
De iP 01 55 35.5
Mindanao (h = 25 km).

" 6 Up iPKP 05 45 31.3
Fiji Islands (h = 410 km).

" 6 Up iP 10 01 49.2
micr sec
P Z' 0.1 1.1
Ki iP 10 01 48.4
Sk iP 10 01 19.4 C
Um iP 10 01 49.9 C
i 10 01 51.9
Ud iP 10 01 30.1
i 10 01 32.0
North Atlantic Ocean (h = N).
Double P (Um,Ud) small and
large, in average 2 sec apart.

" 6 Ud iP 10 58 32.4

" 6 Ud iP 11 07 57.9
i 11 08 02.5

" 6 Ki iP 12 09 48.7
Ud iP 12 09 20.6

" 6 Ud iP 15 17 34.0

" 6 Up iP 16 11 43.6 C
Ki iP 16 12 23.2
Ud iP 16 11 59.2 C
De iP 16 11 41.8
Iran (h = 40 km).

" 6 Ud iP 17 12 18.3
China (h = N).

" 7 Ki iPKP 02 14 55.3
iPKP1 02 15 02.5
South Island, New Zealand
(h = N).

" 7 Ki iP 03 37 28.8
Sk iP 03 38 07.7
Um iP 03 37 45.5
China (h = N).

" 7 Up iP 04 52 28.4
i 04 52 32.5
Ki iP 04 52 27.6 C
Um iP 04 52 20.7
Ud iP 04 52 37.2
Sumatra (h = N).

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

1976				1976										
Sep.	7	Ki	iP	06 13	57.5	Sep.	7	(cont.)						
		Um	iP	06 14	18.8 C			Sk	iP	22 19	39.7			
		Ud	iP	06 14	46.1			Um	iP	22 19	21.3			
				Japan (h = 15 km).				Ud	iP	22 19	35.6			
"	7	Ki	iPKP	06 16	17.8 C			De	iP	22 19	34.1			
				New Hebrides Islands				Sumatra (h = 180 km).						
				(h = 70 km).		"	7	Ki	eP	23 23	58			
"	7	Up	iRg	06 50	56.0			Gulf of Campeche (h = 260 km).						
		Sk	iSgl	06 52	05.7	"	7	Ud	iP	23 45	50.3			
		Um	iSgl	06 52	23.3			"	8	Up	iP	02 26	20.5	
		Ud	iRg	06 50	36.7							micr	sec	
				Central Sweden.						Mx	E	1.0	26	
				Near-surface event.						Mx	N	1.0	26	
"	7	Ud	iP	10 01	21.1					Mx	Z	3.3	26	
"	7	Ki	iPKP	10 28	05.0			Ki	iP	02 26	06.5 C			
				New Hebrides Islands								micr	sec	
				(h = 110 km).						Mx	E	1.8	15	
"	7	Ud	iP	13 47	07.2			Sk	eP	02 26	29			
				Hindu Kush (h = N).				Um	iP	02 26	10.0 C			
"	7	Ud	iP	14 10	51.4					iSKS	02 36	47		
				Afghanistan-USSR (h = 70 km).				Ud	iP	02 26	28.6			
"	7	Ud	iP	14 12	04.6			De	iP	02 26	34.1			
				Värmland, Sweden,				Molucca Sea (h = 60 km).						
				59.6°N, 13.4°E.				M = 5.5 (Up,Ki).						
				Origin time = 15 21 56.		"	8	Ud	iP	08 31	51.7 C			
				M _L = 2.7 (Up,Sk,Um,Ud,De).				Washington (h = 50 km).						
				Felt.		"	8	Ud	iP	09 28	13.4			
"	7	Up	i	15 22	37.1			Mindanao (h = 35 km).						
			iSgl	15 23	03.2	"	8	Ud	iP	11 42	53.2			
		Ki	iSgl	15 26	33.4			"	8	Ud	iP	18 08	05.5	
		Sk	iSgl	15 23	59.1			Tadzhik SSR (h = 20 km).						
		Um	iSgl	15 24	37.8			"	8	Sk	iPKP	20 16	10.0	
		Ud	iPgl	15 22	05.0 C					Um	iPKP	20 16	02.3	
			iSgl	15 22	11.4						i	20 16	20.2	
		De	i	15 23	13.4			Ud	iPKP	20 16	12.9			
			iSn	15 23	24.8						i	20 16	30.6	
			iSgl	15 23	34.8			Santa Cruz Islands (h = 70 km).						
"	7	Up	iP	17 41	36.2			"	8	Up	iP	20 21	45.0	
			i	17 41	51.1						ipP	20 21	50.2	
				Romania (h = 160 km).							i	20 22	02.2	
"	7	Up	iP	22 19	24.8							micr	sec	
					micr					P	Z'	0.1	0.9	
					sec					pP	Z'	0.3	1.0	
			P	Z'	0.1	1.0		Ki	iP	20 21	48.7			
		Ki	iP	22 19	24.1				ipP	20 21	53.9			
				(cont.)				(cont.)						

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

1976				1976			
Sep.				Sep.			
8	(cont.)			9	Up	iP	09 51 22.0
	Ki		micr sec			i	09 51 27.3
		pP	Z' 0.1 1.1				micr sec
	Sk	iP	20 22 08.0 C			i	Z' 0.1 1.2
		ipP	20 22 13.0		Ki	iP	09 50 00.3
	Um	iP	20 21 40.8			i	09 51 08.0
		ipP	20 21 45.8		Sk	eP	09 51 31
	Ud	iP	20 22 01.3		Um	iP	09 51 07.5
		ipP	20 22 06.0			i	09 51 12.5
	De	iP	20 22 00.2		Ud	iP	09 51 33.2
	Kashmir-Tibet.				Formosa (h = 25 km).		
	h = 15 km (Up,Ki,Sk,Um,Ud).						
	m = 6.0 (Up,Ki).						
"	8	Ud	iP 22 22 20.7	"	9	Up	iP 10 05 55.1
		Japan (h = N).				Ki	iP 10 05 31.3
						Ud	iP 10 06 05.8
						Formosa (h = 25 km).	
"	9	Up	iSgl 03 15 00.0	"	9	Um	iP 11 55 28.9
		Ki	eSgl 03 13 20			Panama (h = N).	
		Um	iSgl 03 13 10.5	"	9	Ud	iP 12 05 54.7
		Ud	eSgl 03 15 36	"	9	Ud	iSgl 15 14 35.5
		Northwest USSR,		"	9	Up	iP 15 36 49.2
		65.2°N, 31.0°E.				Ki	iP 15 36 35.8
		Origin time = 03 10 42.				Um	iP 15 36 42.9
		M _L = 2.5 (Um).				Ud	iP 15 37 02.6
		Solution from Helsinki				Philippine Islands (h = 15 km).	
		regional bulletin.		"	9	Um	iP 16 22 15.7
"	9	Um	iP 09 06 11.8			Japan (h = 60 km).	
		Ud	iP 09 06 30.1	"	9	Up	iPKP 20 28 22.8
		Celebes (h = 190 km).				Ki	iPKP 20 28 08.7
"	9	Up	iP 09 32 01.0			Sk	ePKP 20 28 20
			micr sec			Um	iPKP 20 28 14.7 D
		P	Z' 0.1 1.0			De	iPKP 20 28 30.7
		Mx	E 1.2 11			New Hebrides Islands	
		Mx	N 2.3 13			(h = 200 km).	
		Mx	Z 3.4 13	"	10	Ki	iP 05 12 59.3
	Ki	iP	09 30 18.0			Ud	iP 05 13 24.9
		i	09 30 21.8			Mindanao (h = 70 km).	
		iS	09 32 20.9	"	10	Ki	iSgl 11 20 49.2
			micr sec	"	10	Up	iP 12 02 09.9
		i	Z' 0.9 1.4			Ki	iP 12 02 47.9
		Mx	E 3.4 12			Ud	iP 12 02 28.3
		Mx	N 5.9 14			Iran (h = N).	
		Mx	Z 4.7 14	"	10	Ud	iP 13 29 56.6
	Sk	iP	09 31 11.9			Volcano Islands (h = 130 km).	
	Um	iP	09 31 11.3 C				
		iS	09 33 45.4				
	Ud	iP	09 31 54.7				
		i	09 31 58.9				
	De	iP	09 32 34.5				
		iS	09 36 37.9				
	Svalbard (h = 5 km).						

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

1976				1976			
Sep.	10	Sk	iSgl	13 31 05.8	Sep.	11	(cont.)
		Ud	iSgl	13 30 40.8			Ki
				Coast of southwest Norway,			Mx
				59.8°N, 4.9°E.			E
				Origin time = 13 28 23.			N
				M _L = 2.2 (Ud).			Z
				By combination with Bergen		Sk	iP
				and Kongsberg readings.			iS
"	10	Up	iP	14 49 13.7		Um	iP
				micr sec			iS
		Mx	E	0.7 19		Ud	iP
		Ki	iP	14 48 50.3			i
		Sk	iP	14 49 20.5 C		De	iP
		Ud	iP	14 49 24.4			i
		De	eP	14 49 35			iLg1
				Formosa (h = N).		Austria (h = 15 km).	
						m = 5.6 (Up,Ki).	
"	10	Ki	eP	15 02 56	"	11	Up
				Mindanao (h = 55 km).			iP
"	10	Up	iP	15 07 28.3			i
		Ki	iP	15 06 36.2 C			iLg2
		Sk	iP	15 07 07.2			
		Um	iP	15 06 57.3			P
		Ud	iP	15 07 28.9			Z'
		De	iP	15 07 52.3			0.5
				Aleutian Islands (h = N).			1.2
"	10	Ud	iP	18 57 58.2			Mx
							E
"	10	Ud	iP	19 28 41.3			21
				Mindanao (h = N).			6
"	10	Ki	iP	20 48 09.2			Mx
				Mindanao (h = N).			N
"	11	Up	iP	02 51 12.9 C			19
		Ud	iP	02 51 13.3			11
				Aleutian Islands (h = 100 km).			Z
"	11	Ki	iSgl	10 58 36.4			22
		Sk	iSgl	10 58 57.5			9
"	11	Up	iP	16 34 28.8 D		Ki	iP
		i		16 37 37.6			iLg1
				micr sec			iLg2
		P	Z'	0.2 1.1			
		Mx	E	8.4 6			P
		Mx	N	9.4 12			Z'
		Mx	Z	15 9			1.1
		Ki	iP	16 36 04.6			1.6
				micr sec			6
		P	Z'	0.4 1.5			9
				(cont.)			9
"	11	Up	iPKP	23 52 14.9	"	11	Up
		Ki	ePKP	23 51 58			iPKP
		Sk	ePKP	23 52 09			Ki
		Um	iPKP	23 52 06.3			ePKP
		Ud	iPKP	23 52 17.8 C			23 52 09
"	12	Up	iPKP1	00 02 55.2			Um
		Ud	iPKP1	00 02 55.9			iPKP
		De	iPKP2	00 03 07.1			23 52 06.3
				Kermadec Islands (h = N).			Ud
							iPKP
							23 52 17.8 C

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

1976				1976			
Sep.	12	Up	iP	00 47 19.8	Sep.	12	(cont.)
			i	00 47 48.1			Ud iLg2 20 01 00.5
		Ud	iP	00 47 28.6 C			De iP 19 55 56.8
		De	iP	00 46 56.8			iS 19 58 07.2
				Dodecanese Islands (h = 170 km).			iLg2 19 58 59.4
"	12	Ki	iP	03 58 33.7	"	13	Austria (h = 5 km).
		Sk	iP	03 58 53.1			Um iP 00 36 19.1
"	12	Up	iP	04 00 09.8			Ud iP 00 36 46.8
		Ki	eP	03 59 17			Japan (h = 340 km).
		Ud	iP	04 00 15.6	"	13	Up iP 00 40 28.4
				Kurile Islands (h = 150 km).	"	13	Ud iP 01 25 45.9
"	12	Ud	iPKP	07 25 37.4	"	13	Um iPKP 06 36 56.2
				Eastern Island (h = N).	"	13	Ud iPKP 06 37 09.1
"	12	Sk	iPKP	09 21 50.3	"	13	Ki iP 06 53 13.7
				New Ireland (h = N).			Um iP 06 53 11.9
"	12	Ki	iPKP	14 36 44.4			Ud iP 06 53 55.4
				Argentina (h = 190 km).	"	13	Up iP 08 37 21.8 C
"	12	Up	iP	15 45 46.3			Ki iP 08 37 21.9
		Ki	iP	15 45 45.0			Um iP 08 37 19.8
		Sk	iP	15 46 06.1			Ud iP 08 37 31.5
		Ud	iP	15 46 00.5 C			i 08 37 52.5
				Nepal (h = N).			Sumatra (h = 55 km).
"	12	Ud	iP	17 19 43.5	"	13	Up iPKP1 09 09 18.2
				Hindu Kush (h = 190 km).			Ki eSKP1 09 11 49
"	12	Um	iPKP	17 39 23.8			Sk iSKP1 09 12 04.0
		Ud	iPKP1	17 39 28.7 D			Um iPKP 09 09 13.8
		De	iPKP1	17 39 39.0			iSKP1 09 12 00.3
				Tonga-Kermadec Islands			Ud iPKP1 09 09 20.2
				(h = 550 km).			iSKP1 09 12 12.3
"	12	Ki	i	18 15 39.0			De iPKP1 09 09 31.6
		Ud	ipP	18 16 08.6			i 09 11 36.1
				Mindanao (h = 35 km).			iSKP1 09 12 20.6
							Tonga-Kermadec Islands
"	12	Up	i	19 59 49.6	"	13	(h = 520 km).
			iLg2	20 01 02.8			Ud iP 13 09 22.7
				micr sec	"	13	Sk eSgl 14 14 47
		Ki	Mx E	1.2 9			Ud iSgl 14 13 48.6
			iP	19 58 21.5			De eSn 14 13 39
				micr sec			Southwest Norway,
		Sk	Mx E	0.8 11			58.5°N, 6.7°E.
			iP	19 57 34.1			Origin time = 14 11 44.
			iLg2	20 03 02.0			M _L = 2.3 (Ud).
		Um	iP	19 57 38.2			By combination with Bergen
			iLg2	20 03 12.3			and Kongsberg readings.
		Ud	iP	19 56 50.1			
				(cont.)			

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

1976

Sep. 13 Up iP 16 19 53.0
 Ki iP 16 19 10.2
 Ud iP 16 19 46.3
 De i 16 20 32.8
 California (h = N).

" 13 Ki iP 17 14 40.5
 Um iP 17 14 27.1
 Ud iP 17 14 49.0
 Afghanistan-USSR (h = 55 km).

" 13 Sk eSgl 17 42 02
 Ud iSgl 17 41 58.7
 Southern Norway.
 By combination with Bergen
 readings.

" 13 Up ipP 18 58 04.3
 iLgl 19 02 05.8
 Ki iP 18 59 40.8
 ipP 18 59 43.5
 micr sec
 Mx E 0.4 9
 Sk ipP 18 58 52.3
 iLgl 19 03 40.3
 Um iP 18 58 54.3
 iLgl 19 04 06.3
 Ud ipP 18 58 05.9
 iLgl 19 02 04.3
 De iP 18 57 14.6
 iLg2 19 00 18.8
 Austria (h = 10 km).

" 13 Um iP 20 41 41.2
 Ud iP 20 42 11.2

" 13 Up iPKP1 22 05 14.9 C
 Ki iPKP1 22 04 54.2
 Sk iPKP1 22 05 08.2 C
 Um iPKP1 22 05 03.2 C
 Ud iPKP1 22 05 16.8 C
 iPKP2 22 05 22.3
 De iPKP1 22 05 25.4 C
 i 22 05 29.7
 Kermadec Islands (h = 60 km).

" 14 Up iPKP1 02 46 09.6 C
 Ki i 02 45 53.4
 Sk iPKP1 02 46 04.6
 Um iPKP1 02 45 59.8 C
 Ud iPKP1 02 46 11.6 C
 De i 02 46 38.5
 The same focal area as the
 preceding event.

" 14 Up iP 06 53 21.7
 (cont.)

1976

Sep. 14 (cont.)
 Up i 06 53 34.3
 iS 07 01 00
 micr sec
 P Z' 0.1 0.6
 Ki iP 06 53 16.3
 i 06 53 28.6
 iS 07 00 49
 Sk iP 06 53 39.4
 i 06 53 51.6
 Um iP 06 53 14.1
 i 06 53 26.3
 iS 07 00 45
 Ud iP 06 53 36.4
 i 06 53 49.1
 De iP 06 53 37.8
 i 06 53 49.7
 Tibet (h = 80 km).
 Late arrivals wrt the NEIS
 solution.

" 14 Up iP 06 53 49.4
 micr sec
 P Z' 0.2 1.0
 Mx N 1.3 23
 Mx Z 1.1 17
 Ki iP 06 53 43.2
 micr sec
 P Z' 0.1 0.9
 Mx E 0.7 12
 Mx N 0.8 12
 Mx Z 0.7 13
 Sk iP 06 54 05.8
 Um iP 06 53 40.4
 Ud iP 06 54 03.7
 De iP 06 54 04.4
 Tibet (h = 15 km).
 m = 6.0, M = 5.0 (Up,Ki).
 Late arrivals wrt the NEIS
 solution.

" 14 Ki epP 08 23 12
 Um iP 08 23 07.8
 Mindanao (h = N).

" 14 Up iP 15 47 45.0
 Ki iP 15 47 28.3
 e 15 47 35
 Sk iP 15 47 57.5
 Um iP 15 47 30.7
 Ud iP 15 47 58.1
 Tsinghai, China (h = N).

" 14 Up iPP 16 07 48.4
 micr sec
 Mx N 0.8 22
 Mx Z 3.2 21
 (cont.)

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

1976

Sep. 14 (cont.)
 Ki ePKP 16 05 19
 iSKPl 16 08 51.1
 micr sec
 Mx E 1.0 19
 Mx N 0.7 16
 Mx Z 1.4 24
 Um iPKP 16 05 18.3
 Easter Island Cordillera
 (h = N).
 M = 5.5 (Up,Ki).
 " 14 Ki iPKPl 16 22 40.5
 South Island, New Zealand
 (h = N).
 " 14 Up iP 19 05 03.8
 micr sec
 P Z' 0.1 0.9
 Ki iP 19 04 47.9
 Sk iP 19 05 06.8
 Um iP 19 04 53.8
 Ud iP 19 05 12.6
 De iP 19 05 18.2
 Talaud Islands (h = 60 km).
 " 14 Up iPdiff 23 03 45.7
 i 23 04 24.7
 iPP 23 08 20.1
 iSKS 23 14 16
 micr sec
 P Z' 0.1 0.9
 Mx E 2.0 21
 Mx N 4.0 22
 Mx Z 4.4 26
 Ki iP 23 03 24.6
 i 23 04 01.7
 iPP 23 07 45.8
 iSKS 23 13 56
 micr sec
 P Z' 0.2 0.8
 Mx E 1.5 20
 Mx N 3.6 20
 Mx Z 1.9 23
 Sk iPdiff 23 03 49.0
 i 23 04 25.8
 iPP 23 08 18.4
 Um iPdiff 23 03 32.7
 i 23 04 12.2
 iPP 23 07 55.9
 iSKS 23 14 04
 Ud iPdiff 23 03 53.4
 iPP 23 08 22.7
 De iPdiff 23 04 01.0
 i(PP) 23 08 32.0
 (cont.)

1976

Sep. 14 (cont.)
 De iPP 23 08 43.2
 West Irian (h = 80 km).
 m = 7.1, M = 6.0 (Up,Ki).
 M uncorrected for focal depth.
 " 14 Up iP 23 49 00.2
 Ki iP 23 49 37.6
 Sk iP 23 49 36.2
 Um iP 23 49 14.3
 Ud iP 23 49 15.7
 De iP 23 48 59.3
 Iran (h = 25 km).
 " 14 Sk eP 23 59 58
 Guatemala (h = 100 km).
 " 15 Ki iP 02 12 16.4
 Ud iP 02 13 15.1
 De eP 02 13 41
 Komandorsky Islands (h = N).
 " 15 Ki eP 02 34 33
 Komandorsky Islands (h = N).
 " 15 Ud iP 03 17 27.9
 " 15 Up iP 03 18 36.3
 iS 03 21 18.3
 iLg1 03 22 34.6
 micr sec
 P Z' 1.0 1.5
 Mx E 50 8
 Mx N 60 9
 Mx Z 82 10
 Ki iP 03 20 14.3
 iS 03 24 13.9
 iLg2 03 27 06.2
 micr sec
 P Z' 1.8 1.4
 Mx E 24 10
 Mx N 61 9
 Mx Z 52 9
 Sk iP 03 19 21.1
 Um iP 03 19 29.3
 iS 03 22 54.7
 iLg1 03 24 36.1
 Ud iP 03 18 37.8
 iS 03 21 20.1
 De iP 03 17 46.6
 Austria (h = 10 km).
 m = 6.3 (Up,Ki).
 " 15 Up iP 04 42 11.6
 iLg1 04 46 19.4
 micr sec
 Mx E 1.5 9
 (cont.)

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

1976

Sep. 15

(cont.)

Up micr sec
 Mx N 0.8 9
 Mx Z 2.0 9
 Ki iP 04 43 47.5
 iLg2 04 50 52.0
 micr sec
 P Z' 0.1 1.2
 Mx E 0.7 10
 Mx N 1.2 9
 Mx Z 1.2 9
 Sk iP 04 43 56.2
 iLg2 04 48 22.0
 Um iP 04 43 04.3
 iLg1 04 48 08.8
 Ud iP 04 42 09.1
 iLg1 04 46 17.3
 De iP 04 41 20.1
 iLg1 04 44 05.0
 iLg2 04 44 20.7
 Austria (h = 10 km).

" 15 Up iP 05 02 01.9
 iS 05 04 45.7
 iLg2 05 06 12.1
 Ki iP 05 03 36.8
 iLg1 05 10 04.1
 Sk iP 05 02 47.1
 iLg2 05 08 12.8
 Um iP 05 02 54.9
 Ud iP 05 01 57.6
 iLg2 05 06 12.6
 De iP 05 01 08.7
 iS 05 03 10.5
 iLg1 05 03 53.7
 iLg2 05 04 08.3
 Austria (h = 10 km).

" 15 Ud iPKP1 05 27 06.1
 De iPKP1 05 27 17.2

" 15 Up iP 05 41 32.9
 Italy (h = 10 km).

" 15 Ki iP 08 30 56.0
 ipP 08 31 06.1
 Sk iP 08 31 29.9
 ipP 08 31 39.0
 Um iP 08 31 13.3
 ipP 08 31 23.8
 Ud iP 08 31 42.5
 ipP 08 31 53.1
 De iP 08 31 58.1
 Japan.
 h = 35 km (Ki,Sk,Um,Ud).

1976

Sep. 15

Up iP 09 24 34.5
 iS 09 27 13
 iLg1 09 28 27.8
 micr sec
 P Z' 0.4 1.1
 Mx E 83 10
 Mx N 39 9
 Mx Z 65 9
 Ki iP 09 26 11.5
 iS 09 30 24.5
 iLg2 09 33 14.2
 micr sec
 P Z' 1.6 1.6
 Mx E 48 8
 Mx N 50 8
 Mx Z 44 8
 Sk iP 09 25 19.3
 iS 09 28 38.1
 iLg2 09 30 38.0
 Um iP 09 25 27.5
 iS 09 28 49
 iLg1 09 30 41.6
 Ud iP 09 24 35.9
 iLg1 09 28 21.3
 De iP 09 23 44.5
 Austria (h = 15 km).
 m = 6.1 (Up,Ki).
 " 15 Ud iP 09 37 18.9
 Austria (h = 10 km).
 " 15 Ki eP 09 50 49
 Sk iP 09 50 00.5
 Um iP 09 50 09.1
 Ud iP 09 49 11.1
 De iP 09 48 22.2
 iLg2 09 51 22.7
 Austria (h = 10 km).
 " 15 Ud iP 10 20 55.9
 " 15 Up iP 11 14 28.6
 iLg2 11 18 41.8
 micr sec
 Mx E 2.8 10
 Mx N 1.6 9
 Mx Z 2.6 9
 Ki iP 11 16 05.2
 iS 11 20 08.7
 i 11 20 48.6
 iLg2 11 22 56.1
 micr sec
 P Z' 0.2 1.2
 Mx E 2.0 11
 Mx N 1.5 9
 (cont.)

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

1976

Sep. 15 (cont.)
 Ki micr sec
 Mx Z 1.3 8
 Sk iP 11 15 13.7
 iS 11 18 32.5
 iLg2 11 20 25.9
 Um iP 11 15 23.4
 iLg1 11 20 27.2
 iLg2 11 20 51.0
 Ud iP 11 14 28.3
 iLg1 11 18 21.5
 De iP 11 13 37.8
 iS 11 15 32.3
 iLg2 11 16 36.3
 Austria (h = 10 km).
 " 15 Sk eSg1 13 42 52
 Ud iSg1 13 42 29.2
 Southern Norway.
 By combination with Bergen
 readings.
 " 15 Up iP KP1 13 02 36.2
 iP KP2 13 02 42.2
 micr sec
 PKP2 Z' 0.1 0.7
 Ki iP KP1 13 02 14.3
 Sk ePKP1 13 02 30
 i 13 02 35.5
 Um iP KP1 13 02 23.8
 i 13 02 29.9
 Ud iP KP1 13 02 37.2
 iP KP2 13 02 45.1
 De iP KP1 13 02 45.1
 iP KP2 13 02 58.7
 Kermadec Islands (h = 450 km).
 " 15 Up iP 13 04 27.6
 Sk iP 13 04 20.7
 Ud iP 13 04 30.2
 De iP 13 04 35.9
 " 15 De iP 15 22 23.3
 Italy (h = 10 km).
 " 15 De iP 15 24 50.7
 i 15 25 37.6
 " 15 De iP 19 33 40.0
 Austria (h = 10 km).
 " 15 De iP 20 26 37.9
 Italy (h = 10 km).
 " 15 Ki iP 21 09 52.8
 Japan (h = 80 km).

1976

Sep. 15 De iP KP1 23 07 37.5
 Fiji Islands (h = 610 km).
 " 16 Up iP KP1 00 28 20.3
 Sk iP KP1 00 28 13.5
 Um i(PKP) 00 28 06.3
 iP KP1 00 28 08.3
 Ud iP KP1 00 28 21.7
 i 00 28 27.2
 De iP KP1 00 28 30.3
 " 16 Up iS 01 13 52
 Ki iP 01 08 04.0 C
 Sk iP 01 08 48.1
 Um iS 01 12 47
 Ud iP 01 09 29.1
 Probably Svalbard.
 " 16 De iP 01 33 10.0
 Austria (h = 10 km).
 " 16 ✓ Up iP 03 32 16.8
 i 03 32 22.0
 iS 03 36 36
 micr sec
 i Z' 2.7 2.8
 Mx E 2.0 18
 Mx N 12 26
 Mx Z 15 23
 Ki iP 03 30 47.7 C
 i 03 33 21.0
 iS 03 34 11
 micr sec
 P Z' 1.5 1.5
 Mx E 5.2 13
 Mx N 12 17
 Mx Z 7.9 17
 Sk iP 03 31 36.0 C
 iS 03 35 33.5
 Um iP 03 31 34.4
 iS 03 35 33.9
 Ud iP 03 32 12.0
 i 03 32 17.2
 iS 03 36 34.7
 De iP 03 32 46.6
 iS 03 37 34.5
 Svalbard (h = 10 km).
 m = 6.2 (Up, Ki).
 " 16 Ki iP 03 35 57.8
 Sk iP 03 36 45.5
 Ud iP 03 37 08.9
 Svalbard.
 " 16 Ud iP 03 55 19.2

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

1976

Sep. 16 Up iP 03 58 17.9
 i 03 58 23.4
 Ki iP 03 56 50.3
 i 03 56 56.9
 micr sec
 i Z' 0.1 1.0
 Sk iP 03 57 39.4
 i 03 57 43.7
 Um iP 03 57 38.6
 i 03 57 45.4
 Ud iP 03 58 15.5
 i 03 58 21.9
 De iP 03 58 48.5
 Svalbard (h = 10 km).
 Double P, small and large,
 average separation 5.9 sec.

" 16 Up iP 04 08 28.0
 i 04 08 32.6
 iS 04 12 48
 micr sec
 i Z' 0.2 1.4
 Mx E 1.1 19
 Mx N 3.0 21
 Mx Z 6.7 24
 Ki iP 04 06 59.5
 iS 04 10 22
 micr sec
 P Z' 0.7 1.9
 Sk iP 04 07 47.1
 iLg2 04 14 31.6
 i 04 16 13.2
 Um iP 04 07 46.0
 i 04 07 50.5
 iS 04 11 33
 iLg2 04 14 29.1
 Ud iP 04 08 26.6
 iLg1 04 15 13.0
 De iP 04 08 57.6
 Svalbard (h = 10 km).
 m = 5.6 (Up,Ki).

" 16 Up iP 04 18 40.3
 i 04 18 44.3
 iS 04 22 56
 micr sec
 i Z' 0.1 1.2
 Mx E 1.1 14
 Mx N 3.0 17
 Mx Z 5.0 17
 Ki iP 04 17 11.8
 iS 04 20 34
 micr sec
 P Z' 1.0 1.8
 Mx E 2.2 15
 (cont.)

1976

Sep. 16 (cont.)
 Mx N 6.5 16
 Mx Z 4.0 16
 Sk iP 04 17 58.0
 Um iP 04 17 57.3
 iS 04 21 47
 Ud iP 04 18 33.6
 De iP 04 19 06.9
 Svalbard (h = 10 km).
 m = 5.5 (Up,Ki).

" 16 Up iP 04 32 19.5
 i 04 32 24.7
 iS 04 36 52
 Ki iP 04 30 52.6 D
 i 04 30 57.3
 micr sec
 P Z' 0.3 1.5
 Sk iP 04 31 39.6
 Um iP 04 31 38.3 D
 iS 04 35 30
 Ud iP 04 32 17.5
 i 04 32 22.6
 De iP 04 32 47.5
 Svalbard (h = 10 km).

" 16 Up iP 04 33 45.4
 micr sec
 P Z' 3.2 3.0
 Mx E 1.1 19
 Mx N 6.8 21
 Mx Z 7.5 22
 Ki iP 04 32 17.9
 micr sec
 P Z' 2.1 2.2
 Mx E 3.1 13
 Mx N 8.5 17
 Mx Z 5.5 17
 Sk iP 04 33 05.2
 Um iP 04 33 03.8
 Ud iP 04 33 42.4
 De iP 04 34 13.5
 Svalbard (h = 15 km).
 m = 6.2 (Up,Ki).

" 16 Up iP 04 36 56.3
 Ki iP 04 35 34.0
 micr sec
 P Z' 0.2 1.6
 Sk iP 04 36 21.1
 Um iP 04 36 17.4
 Ud iP 04 36 57.8
 De iP 04 37 29.7
 Svalbard (h = 10 km).

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

1976				1976			
Sep. 16	Up	iP	05 18 27.7	Sep. 16	(cont.)		
		iS	05 22 50		Ud	iPKP	11 45 25.6
			micr sec		De	iPKP	11 45 29.9
		P	Z' 0.2 1.5		New Guinea (h = 15 km).		
		Mx	E 1.2 16		M = 5.8 (Up,Ki).		
		Mx	N 4.5 21	" 16	Ud	iP	12 49 02.9
		Mx	Z 7.9 23		California (h = 0).		
	Ki	iP	05 17 01.3	" 16	Ud	iP	12 57 33.6
		i	05 19 53.7	" 16	Ud	iP	14 54 21.7
		iS	05 20 25	" 16	Um	iP	18 05 12.6
			micr sec		Ud	iP	18 05 16.4
		P	Z' 1.0 1.7	" 16	Iran (h = N).		
		Mx	E 2.6 13	" 16	Up	iPKP	18 31 03.6
		Mx	N 6.0 16		Ud	iPKP	18 31 06.9
		Mx	Z 4.0 16	" 16	Up	iPKP1	23 31 37.7 C
	Sk	iP	05 17 48.4 C				micr sec
	Um	iP	05 17 47.0		Ki	PKP1 Z'	0.1 0.6
		iS	05 21 37			e(PKP)	23 31 21
	Ud	iP	05 18 24.1			iSKP1	23 34 10.8
	De	iP	05 18 57.1 C		Sk	ePKP1	23 21 30
	Svalbard (h = 10 km).					iPKP	23 31 32.6
	m = 5.6 (Up,Ki).				Um	iPKP1	23 31 25.6
" 16	Sk	iP	05 48 54.2			iSKP1	23 34 21.5
	Um	iP	05 49 10.7		Ud	iPKP1	23 31 39.7 C
		i	05 49 21.4		De	iPKP1	23 31 48.5
	Panama (h = 45 km).				Tonga-Kermadec Islands		
" 16	Up	iP	06 07 45.9		(h = 450 km).		
	Ud	iP	06 07 39.3	" 17	Up	iP	01 28 48.4
" 16	Ki	iP	10 15 24.2			iS	01 32 59
	Mariana Islands (h = 130 km).				Ki	eP	01 30 03
" 16	Ki	iP	10 22 05.1		Sk	iP	01 29 23.3
	Um	iP	10 21 40.5		Um	iP	01 29 22.5 C
	Queen Elizabeth Islands					iS	01 34 13
	(h = N).				Ud	iP	01 28 47.8
" 16	Up	iPKP	11 45 21.3		De	iP	01 28 11.0
		iPP	11 46 32		Sicily (h = 45 km).		
		i	11 49 04	" 17	Up	iP	07 28 29
		iSKS	11 52 06			iS	07 32 54
			micr sec		Ki	iP	07 26 59.3
		Mx	E 1.7 22				micr sec
		Mx	N 1.2 22			P	Z' 0.4 1.3
		Mx	Z 3.8 23		Sk	iP	07 27 46.0
	Ki	iPKP	11 45 12.1			i	07 31 13.3
			micr sec		Um	iP	07 27 45.4
		Mx	E 1.5 20			iS	07 31 45
		Mx	N 2.1 20		Ud	iP	07 28 18.5
		Mx	Z 1.4 20			i	07 28 29.6
	Sk	iPKP	11 45 21.7		Svalbard (h = 10 km).		
	Um	iPKP	11 45 15.1				
		i	11 48 07.3				
	(cont.)						

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

1976

Sep. 17 Ud iP 09 21 08.5
Austria (h = 10 km).

" 17 Ki eP 11 21 33

" 17 Up ipP 16 47 41.8
micr sec
Ki pP Z' 0.1 1.0
Ki iP 16 47 17.2
ipP 16 47 26.9
Sk iP 16 47 47.7
ipP 16 47 56.8
Um iP 16 47 19.4
ipP 16 47 28.0
Ud iP 16 47 46.8
De i 16 48 06.7
Sinkiang, China.
h = 30 km (Ki,Sk,Um).

" 17 Ud iP 17 27 24.1
Turkey (h = 10 km).

" 17 Up iP 23 14 41.0 C
Ud iP 23 14 55.8
Iran (h = N).

" 18 Up iPKP 01 40 02.0
Ki iPKP 01 39 51.9
Um i 01 40 39.0
De iPKP 01 40 10.4
New Britain (h = 100 km).

" 18 Up iP 02 26 16.4
Um iP 02 25 57.8 C
Ud eP 02 26 24
De iP 02 26 36.3

" 18 Um iP 08 07 40.1
Borneo (h = N).

" 18 Up iP 10 43 28.2 C
i 10 43 41.8
micr sec
P Z' 0.2 1.1
Mx E 1.3 23
Mx N 1.2 22
Mx Z 0.6 21
Ki iP 10 42 35.4
micr sec
P Z' 0.1 0.8
Mx E 0.8 17
Mx N 0.5 16
Sk iP 10 43 11.9
Um iP 10 43 00.3 C
i 10 43 14.9
(cont.)

1976

Sep. 18 (cont.)
Ud iP 10 43 32.0
De iP 10 43 53.1 C
Kamchatka (h = 35 km).
m = 6.0, M = 5.1 (Up,Ki).

" 18 Ki iSn 12 17 55.1
iSgl 12 18 11.9

" 18 Up iP 13 25 19.7
Ki iP 13 25 02.4
Sk iP 13 25 21.0
Um iP 13 25 07.8
Ud iP 13 25 27.5
De i 13 25 38.7
Molucca Passage (h = 50 km).

" 18 Up iPKP2 15 14 45.8
Sk iPKP1 15 14 34.7
Um iPKP1 15 14 41.3
Kermadec Islands (h = N).

" 18 Up micr sec
Ki Mx N 0.9 17
eP 19 24 44
micr sec
Mx N 0.4 14
Sk iP 19 25 17.8
Um iP 19 24 56.9
De iP 19 25 37.3
China (h = N).
M = 4.8 (Up,Ki).

" 19 Up iP 00 58 50.3 C
Sk iP 00 59 06.7
Um iP 00 58 43.0
Ud iP 00 59 03.5

" 19 Ud iP 02 12 14.5

" 19 Up iP 04 07 33.8
Sk iP 04 07 28.1
Um iP 04 07 22.7
Ud iP 04 07 36.6

" 19 Ki eP 06 58 27
Sk eP 06 59 13
Um iP 06 59 05.8

" 19 De iP 09 08 15.5
Turkey (h = N).

" 19 Um ipP 09 24 02.3
Ud ipP 09 24 33.0
Alaska (h = 140 km).

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

1976				1976			
Sep.	19	Up	eP	11 08 02	Sep.	19	(cont.)
"	19	Up	iP	12 36 24.8			Zambia.
		Ki	eP	12 36 22			h = 30 km (Up,Ki,Sk,Um,Ud,De).
		Sk	iP	12 36 10.7 C			m = 5.9, M = 5.3 (Up,Ki).
			iPP	12 39 27.6	"	19	Ud
		Um	iP	12 36 26.3			iP
		Ud	iP	12 36 15.4	"	19	Up
		De	i	12 36 30.0			iP
				Panama (h = 5 km).			Mx E
							Mx N
							Mx Z
"	19	Up	iP	13 23 08.9	Ki	iPn	16 10 39.4
		Ki	eP	13 22 28		iTSg	16 16 23.3
		Ud	iP	13 23 18.1			micr sec
				Japan (h = N).		Pn	Z' 0.1 1.0
						Mx	E 0.9 18
"	19	Up	iP	14 07 09.1 C		Mx	N 0.8 17
		Ki	iP	14 06 58.2		Mx	Z 0.6 16
		Sk	iP	14 07 21.4	Sk	eP	16 11 26
		Um	iP	14 06 59.3	Um	iP	16 11 30.9
		Ud	iP	14 07 21.1	Ud	iP	16 12 13.2
		De	iP	14 07 26.5		i	16 12 22.4
				Burma-China (h = 25 km).	De	iP	16 13 02.2
							Greenland Sea (h = N).
"	19	Up	i	14 55 49.4	"	19	Up
		Sk	iP	14 56 33.1			iP
		Um	iP	14 56 35.9			micr sec
		Ud	i	14 55 52.7			Mx E
				Yugoslavia (h = N).			Mx N
							Mx Z
"	19	Up	iP	15 11 04.3	Ki	iPn	16 18 57.2
			ipP	15 11 12.6		iSn	16 20 28.7
			iS	15 20 22		iTSg	16 24 40.4
				micr sec			micr sec
			P	Z' 0.1 1.0		Pn	Z' 0.1 1.0
			Mx	E 0.7 18		Mx	E 1.4 17
			Mx	N 0.9 16		Mx	N 1.0 16
			Mx	Z 1.1 16		Mx	Z 1.5 14
		Ki	iP	15 11 47.6	Sk	iP	16 19 45.2
			ipP	15 11 56.2	Um	iP	16 19 47.3
				micr sec		i	16 22 23.7
			P	Z' 0.2 1.4	Ud	iP	16 20 30.6
			pP	Z' 0.2 1.5		i	16 20 37.2
			Mx	E 0.8 14	De	iP	16 21 20.4
			Mx	N 0.6 14			Greenland Sea (h = N).
			Mx	Z 0.5 14	"	19	Ki
		Sk	iP	15 11 29.4			ePn
			ipP	15 11 38.1			Um
		Um	iP	15 11 23.8			iPn
			ipP	15 11 33.7			i
			iS	15 21 02			i
		Ud	iP	15 11 09.3			iP
			ipP	15 11 17.4			i
		De	iP	15 10 48.5			iP
			ipP	15 10 56.9			De
				(cont.)			Norwegian Sea (h = N).

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

1976

Sep. 19 Um iP 18 35 09.1
 Ud iP 18 35 59.8

" 19 ✓ Up eP 21 10 46
 ipP 21 11 08.9
 micr sec
 P Z' 0.1 1.1
 Ki iP 21 10 31.3 D
 ipP 21 10 53.2
 micr sec
 P Z' 0.4 1.5
 Sk iP 21 10 29.0 D
 ipP 21 10 49.9
 Um iP 21 10 41.9
 i 21 10 56.4
 ipP 21 11 03.3
 iS 21 21 17
 Ud iP 21 10 38.8
 ipP 21 10 54.8
 De iP 21 10 48.6
 i 21 11 02.7
 ipP 21 11 10.0

Mexico.
 h = 80 km (Up,Ki,Sk,Um,Ud,De).
 m = 6.0 (Up,Ki).

" 20 Ki iP 01 57 19.1
 Colombia (h = 160 km).

" 20 Ki iSgl 02 16 33.2

" 20 Ki iP 03 43 13.1
 Sk eP 03 42 50
 Leeward Islands (h = 50 km).

" 20 Ki iP 05 19 01.3
 Sk iP 05 19 22.5
 Um iP 05 19 06.1
 Ud iP 05 19 25.6
 Talaud Islands (h = 180 km).

" 20 Ud iP 05 21 58.4

" 20 Up i 09 16 11.0
 iLgl 09 17 17.7
 Ki eP 09 14 52
 i 09 15 39.4
 Sk eP 09 14 03
 Um iP 09 14 09.9
 Ud i 09 14 00.9
 De iLgl 09 15 00.8
 Austria (h = 20 km).

" 20 Ki eP 13 55 45
 Sumatra (h = 90 km).

1976

Sep. 20 Up e 15 17 59
 iS 15 28 54
 micr sec
 Mx E 1.0 17
 Mx N 0.9 16
 Mx Z 1.1 16
 Ki e 15 17 41
 iS 15 28 23
 micr sec
 Mx E 1.5 18
 Mx N 1.1 17
 Mx Z 1.4 17
 Sk e 15 18 01
 Um iP 15 17 41.9
 iSKS 15 28 07
 iS 15 28 31
 Ud iP 15 18 00.7
 Mindanao (h = 45 km).
 M = 5.5 (Up,Ki).

" 20 Um iP 16 06 08.4
 Ud iP 16 06 34.4
 Philippine Islands (h = N).

" 20 Ud iP 16 52 55.7

" 20 Um iP 18 17 27.7
 Mexico (h = N).

" 20 Up iP 22 55 35.7 D
 micr sec
 Mx N 0.6 18
 Ki iP 22 55 16.0
 micr sec
 Mx N 0.7 15
 Sk iP 22 55 45.0
 Um iP 22 55 20.8
 Ud iP 22 55 47.9
 Szechwan, China (h = 40 km).
 M = 4.8 (Up,Ki).

" 20 Um iP 23 38 27.3
 Austria (h = N).

" 21 Up iPKP1 02 36 33.0
 iSKP1 02 39 23.2
 Ki iPKP 02 36 26.3
 iSKP1 02 38 59.4
 Sk eSKP1 02 39 13
 Um i(PKP) 02 36 26.8
 iSKP1 02 39 11.0
 Ud iPKP1 02 36 35.5
 iSKP1 02 39 24.4
 De iPKP1 02 36 45.7
 i 02 36 50.2
 Fiji Islands (h = 580 km).

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

1976				1976					
Sep.	21	Up	iP	03 10 25.9	Sep.	21	(cont.)		
		Ki	iP	03 09 31.4			Um	iP	17 48 27.7
		Sk	iP	03 09 58.6				i	17 48 33.4
				Probably the same focal region as the following event.					
"	21	Up	iP	03 11 24.9			Ud	iP	17 48 59.7
		Ki	iP	03 10 30.3				i	17 49 04.1
		Sk	iP	03 10 57.1			De	iP	17 49 15.8
		Um	iP	03 10 58.7				i	17 49 22.0
		Ud	iP	03 11 21.0			Japan (h = 55 km).		
		De	iP	03 11 46.0	"	21	Sk	eSgl	17 53 11
		Kodiak Island (h = N).					Ud	iSgl	17 53 05.8
							Southern Norway. By combination with Bergen reading.		
"	21	Up	iP	04 26 24.2	"	21	Ud	iPKP1	18 21 18.2
		Sk	iP	04 26 10.3			Loyalty Islands (h = N).		
		Ud	iP	04 26 27.4	"	21	Up	iP	21 05 40.3
"	21	Ki	iP	06 56 51.9			Ki	iP	21 05 26.0
		Sk	iP	06 57 26.0			Sk	iP	21 05 46.6
		Um	iP	06 57 22.8			Um	iP	21 05 30.7
		Ud	iP	06 57 48.1			Ud	iP	21 05 48.3
"	21	Ud	iP	13 11 53.4			De	iP	21 05 54.1
							Celebes (h = 80 km).		
"	21	Sk	eSgl	14 13 14	"	21	Sk	iP	21 10 12.8
		Ud	eSgl	14 13 44			Celebes (h = 130 km).		
		Southern Norway. By combination with Bergen reading.			"	21	Up	iP	21 14 30.7
"	21	Up	iP	15 06 11.2			Ki	iP	21 14 19.4
		Ki	iP	15 07 25.2			Sk	iP	21 14 41.2
		Sk	iP	15 06 46.1			Um	iP	21 14 24.8
		i		15 10 13.8			Ud	iP	21 14 44.5
		Um	iP	15 06 49.6			Mindanao (h = N).		
		i		15 10 14.5	"	21	Up	iP	21 36 09.8
		Ud	iP	15 06 12.8 D			Ki	iP	21 35 55.5
		i		15 09 58.7			Um	iP	21 36 00.8
		De	iP	15 05 36.3 D			Ud	iP	21 36 18.5
		Sicily (h = 300 km).					De	eP	21 36 23
"	21	Ki	iP	16 08 04.9			Celebes (h = 90 km).		
"	21	Up	iP	16 54 11.3	"	22	Up	iP	00 27 02.3 C
		Ki	iP	16 53 52.2			i		00 27 04.3
		Um	iP	16 53 58.3			iS		00 35 53.8
		Ud	iP	16 54 21.7			iScS		00 36 54.5
		De	iP	16 54 28.1			iP'P'		00 55 14.7
		Luzon (h = 35 km).					i		00 55 39.7
"	21	Up	iP	17 48 53.5			micr sec		
		Ki	iP	17 48 09.8			i	Z'	0.5 0.9
		Sk	i	17 48 49.9			Mx	E	2.4 21
		(cont.)					Mx	N	5.5 25
							Mx	Z	5.5 26
							(cont.)		

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

1976

1976	Sep. 22	(cont.)				
		Ki	iP	00 26	16.0	C
			iPcP	00 26	59.6	
			iS	00 34	29	
				micr	sec	
			P	Z'	0.4 1.4	
			Mx	E	3.3 19	
			Mx	N	8.5 23	
			Mx	Z	3.9 23	
		Sk	iP	00 26	51.5	
			i	00 26	53.2	
		Um	iP	00 26	36.5	C
			iPcP	00 27	12.0	
			iS	00 35	07	
		Ud	iP	00 27	08.2	
			i	00 27	10.2	
			iS	00 36	14.2	
			iP'P'	00 55	33.3	
		De	iP	00 27	26.1	
			i	00 27	28.3	
			i	00 38	00.8	
		Kurile Islands (h = 60 km).				
		m = 6.4, M = 5.8 (Up,Ki).				
		Double P (Up,Sk,Ud,De),				
		small and large,				
		average separation 2 sec.				
"	22	Ud	iP	01 19	04.0	
"	22	Up	iP	02 41	21.2	
				micr	sec	
			Mx	N	1.2 22	
			Mx	Z	2.3 21	
		Ki	iP	02 40	29.1	
				micr	sec	
			Mx	E	0.7 20	
			Mx	N	0.6 19	
		Um	iP	02 40	55.8	
		Ud	iP	02 41	21.2	
		De	iP	02 41	45.3	
		Aleutian Islands (h = 45 km).				
		M = 5.0 (Up,Ki).				
"	22	Up	iP	03 12	55.1	
		Ud	iP	03 12	57.0	
"	22	Up	iP	08 32	50.7	
		Ki	iP	08 32	20.8	C
				micr	sec	
			P	Z'	0.1 0.8	
		Sk	iP	08 32	47.8	
		Um	iP	08 32	33.5	C
		Ud	iP	08 32	56.9	
		De	iP	08 33	09.8	
		Volcano Islands (h = 130 km).				
"	22	Up	iP	09 20	52.7	C
		(cont.)				

1976

1976	Sep. 22	(cont.)				
		Up	ipP	09 21	23.4	
				micr	sec	
			P	Z'	0.1 1.0	
		Ki	iP	09 20	35.6	
		Sk	iP	09 20	59.0	
			i	09 21	39.8	
		Um	iP	09 20	40.8	C
			i	09 21	18.8	
		Ud	iP	09 21	01.8	C
			ipP	09 21	31.3	
			i	09 21	42.1	
		Mindoro.				
		h = 120 km (Up,Ki).				
"	22	Up	iPKP1	11 24	32.9	
		Ki	iPKP1	11 24	11.8	
		Sk	iPKP1	11 24	26.2	
		Um	iPKP1	11 24	20.9	
		Ud	iPKP1	11 24	34.1	C
		De	iPKP1	11 24	43.5	
		Kermadec Islands (h = N).				
"	22	Up	eP	12 14	09	
			iS	12 25	06	
				micr	sec	
			Mx	E	0.8 20	
			Mx	N	0.7 20	
			Mx	Z	0.8 20	
		Ki		micr	sec	
			Mx	E	1.0 16	
			Mx	N	0.8 14	
			Mx	Z	0.5 14	
		Um	i	12 14	03.9	
			iS	12 24	43	
		Mindanao (h = N).				
		M = 5.4 (Up,Ki).				
"	22	Ud	iP	15 10	23.8	
"	22	Ud	iP	16 32	56.2	
"	22	Up	Mx	17 15		
				micr	sec	
			Mx	E	0.8 20	
			Mx	N	0.7 20	
			Mx	Z	1.9 20	
		Ki	Mx	17 20		
				micr	sec	
			Mx	E	0.7 19	
			Mx	N	1.4 20	
			Mx	Z	0.9 19	
		South Atlantic Ocean (h = N).				
		M = 5.5 (Up,Ki).				
"	22	Up	iP	19 48	24.8	
		Ki	i	19 48	57.8	
		Sk	eP	19 48	55	
		(cont.)				

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

1976

Date	Station	Type	Time	Phase	
Sep. 22	(cont.)	Sk	i	19 49 04.3	
		Um	i	19 48 45.6	
		Ud	i	19 48 44.3	
		De	i	19 48 38.7	
		Pakistan (h = N).			
" 22	✓ Up	iP		20 16 38.7 C	
		i		20 16 46.5	
		iS		20 24 26	
					micr sec
		P	Z'	0.2 0.9	
		Mx	E	3.4 18	
		Mx	N	2.8 16	
		Mx	Z	6.8 16	
		Ki	iP	20 16 12.8 C	
			i	20 16 19.4	
			iS	20 23 35	
					micr sec
			P	Z' 0.2 0.9	
			Mx	E 5.1 11	
			Mx	N 8.4 16	
	Mx	Z 2.7 10			
	Sk	iP 20 16 45.6 C			
	Um	iP 20 16 20.6 C			
		iS 20 23 53			
	Ud	iP 20 16 51.5 C			
	De	iP 20 17 01.3 C			
		i 20 17 10.3			
China (h = 30 km).					
m = 6.1, M = 5.8 (Up,Ki).					
" 22		Up	iP	21 56 26.1	
		Ki	iP	21 56 40.5	
		Sk	iP	21 56 55.2	
		Um	iP	21 56 26.9	
		Ud	iP	21 56 43.6 C	
		De	iP	21 56 39.0	
		Uzbek SSR (h = N).			
" 22		Up	iP	22 11 28.4	
		Ud	iP	22 11 30.6	
" 23		Up	eP	00 47 08	
		Ki	iP	00 46 48.4	
		Um	i	00 47 13.3	
		Ud	iP	00 47 15.2	
		Halmahera (h = 40 km).			
" 23		Um	iP	05 09 09.1	
		Ud	iP	05 09 40.3	
" 23		Up	iPKP1	08 24 12.0	
		Um	iPKP1	08 24 01.4	
		Ud	iPKP1	08 24 13.6 C	

1976

Date	Station	Type	Time	Phase	
Sep. 23		Up	iP	09 58 24.1	
		Ki	iP	09 57 38.8	
		Sk	iP	09 58 22.3	
		Um	iP	09 57 59.3	
		Ud	iP	09 58 35.6	
	De	eP	09 58 52		
Lake Baikal (h = N).					
" 23	Ud	iP	15 04 23.7		
" 23		Up	iP	15 05 53.9	
		Ki	iP	15 05 35.9	
					micr sec
			P	Z' 0.1 0.9	
		Sk	iP	15 05 57.5	
	Um	i	15 05 49.3		
	Ud	iP	15 06 01.7		
Philippine Islands (h = 70 km).					
" 23		Um	iP	15 58 27.4	
		Ud	iP	15 58 45.9	
" 23		Up	iRg	19 01 22.7	
		Ud	iRg	19 01 00.0	
Central Sweden. Near-surface event.					
" 23		Up	iP	19 13 19.3	
		Ud	iP	19 13 21.2	
" 23	Ud	iP	20 05 40.9		
Hindu Kush (h = 200 km).					
" 23		Ud	iPKP	22 41 17.3	
		De	iPKP	22 41 21.9	
		New Britain (h = 90 km).			
" 24		Up	iP	00 20 04.4 C	
		Ki	iP	00 19 57.9	
		Sk	iP	00 20 19.6 C	
		Um	iP	00 19 56.8 C	
		Ud	iP	00 20 17.7 C	
	De	iP	00 20 18.2		
Burma (h = 160 km).					
" 24		Ki	iP	06 49 37.0	
			i	06 49 45.9	
		Sk	iP	06 49 41.3	
	Um	iP	06 50 13.4		
" 24		Ki	iP	07 37 04.7	
			i	07 37 07.4	
			iS	07 38 48.8	
		Sk	iP	07 37 20.1	
		Um	iP	07 37 41.4	
(cont.)					

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

1976

Sep. 24 (cont.)
 Ud iP 07 38 08.6
 Jan Mayen region,
 near 71°N, 5°W.
 Origin time = 07 34 51.

" 24 Up iP 09 11 15.8

" 24 Ud iP 09 32 07.1

" 24 Ud iP 12 35 51.8

" 24 Sk iP 14 24 05.0
 Ud iP 14 24 12.8

" 24 Ud iP 16 01 44.2
 Crete.

" 24 Ud iP 20 08 38.5
 Aegean Sea (h = 10 km).

" 24 Up eP 20 56 04
 Sk eP 20 56 07
 Um iP 20 56 25.9
 Ud eP 20 55 55
 Central Mid-Atlantic Ocean
 (h = N).

" 25 Up iP 01 49 54.4
 i 01 50 23.2
 Ki iP 01 49 37.4
 Sk iP 01 49 59.1
 Ud iP 01 50 01.6
 Mindanao (h = 70 km).

" 25 Um iP 01 55 07.3

" 25 ✓ Up iP 03 43 08.4 C
 iS 03 54 08
 micr sec
 Mx E 1.4 15
 Mx N 0.8 15
 Mx Z 2.8 16
 Ki iP 03 42 52.6 C
 micr sec
 P Z' 0.1 1.4
 Mx E 2.2 17
 Mx N 1.7 16
 Mx Z 1.4 15
 Sk iP 03 43 14.0
 Um iP 03 42 58.5
 iSKS 03 53 25
 iS 03 53 48
 Ud iP 03 43 17.1 C
 Mindanao (h = 45 km).
 M = 5.7 (Up,Ki).

1976

Sep. 25 Ud iP 04 04 11.6
 Mindanao (h = N).

" 25 De iPKPl 04 58 21.8
 Tonga-Kermadec Islands
 (h = 510 km).

" 25 Ud iP 09 21 58.0

" 25 Up iP 12 00 37.7
 Ud iP 12 00 49.2
 De iP 12 01 01.8
 China (h = 35 km).

" 25 Up eP 12 54 45
 Sk iP 12 55 12.9
 Ud iP 12 55 02.5
 De iP 12 54 58.1
 Hindu Kush (h = 50 km).

" 25 Up iSgl 13 57 46.8
 Sk eSgl 13 57 08
 Ud ePgl 13 56 03
 iSgl 13 56 45.9
 De iSgl 13 57 54.2
 Southwest Norway,
 60.5°N, 7.2°E.
 Origin time = 13 55 06.
 M_L = 2.3 (Ud).

" 25 Up iP 19 20 44.4
 i 19 20 52.6
 Ud iP 19 20 56.4
 De iP 19 20 55.1
 Andaman Islands (h = 25 km).

" 25 Ud iP 22 33 45.6

" 26 Ud iP 02 08 12.0

" 26 Up iP 02 31 24.5
 Ud iP 02 31 37.2
 Formosa (h = 10 km).

" 26 Up iP 08 46 59.7
 Ki iP 08 47 03.3
 Sk iP 08 47 16.2
 Ud iP 08 47 12.1
 De iP 08 47 10.3
 Sumatra (h = 60 km).

" 26 Ud iP 10 01 49.7

" 26 Um iP 12 24 23.8
 Ud iP 12 24 56.8
 De iP 12 25 19.6
 Kamchatka (h = 80 km).

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

1976				1976			
Month	Day	Station	Time	Month	Day	Station	Time
Sep.	26	Ki	iPKP 14 52 15.0	Sep.	27	(cont.)	
		Ud	i 14 52 41.2			Um	iPKP 13 03 20.9 C
		South of Africa (h = 40 km).					iPKP1 13 03 22.4
"	26	Ud	eP 15 22 53			Ud	iPKP 13 03 29.1
							iPKP1 13 03 34.4
"	26	Um	iPKP 16 42 46.5			De	iPKP1 13 03 43.1
		Ud	iPKP 16 42 57.9				iPKP2 13 03 58.6
						South of Kermadec Islands (h = 45 km).	
"	26	Ki	iP 19 47 43.1	"	27	Ud	iP 14 16 25.2
		Um	iP 19 47 26.9				
		Ud	iP 19 47 28.5	"	27	Ud	iP 14 26 13.7
			i 19 47 38.7				
		De	iP 19 47 14.6	"	28	Up	iP 22 58 02.2
		Iran (h = N).				Ud	iP 22 58 10.9
"	26	Up	iSgl 23 44 17.2			Greece-Albania (h = 15 km).	
			iRg 23 44 48.5	"	28	Ud	iPKP 03 28 01.3
		Ki	i 23 46 40.3			De	i 03 28 07.8
		Sk	iSgl 23 46 08.2			New Hebrides Islands (h = 140 km).	
		Um	iSgl 23 44 37.0	"	28	Ud	iP 14 01 00.2
			i 23 44 49.4			De	eP 14 01 37
		Ud	i 23 44 57.0	"	28	Ud	eSgl 17 13 13
			iSgl 23 45 18.1			Southern Norway. By combination with Bergen reading.	
			i 23 45 28.6	"	28	Ki	iPKP2 18 24 47.6
		De	i 23 45 22.1			Um	iPKP1 18 24 26.9
			iSgl 23 45 43.8			Ud	ePKP2 18 24 49
		Northeast Esthonia, near 59 1/4°N, 28°E. Origin time = 23 41 43. M _L = 2.2 (Up,Um). Near-surface event.				De	iPKP2 18 24 45.4 C
"	27	Ud	iP 00 40 50.8			Macquarie Island (h = N).	
		Hindu Kush (h = 180 km).		"	28	Ud	iP 20 28 43.0
"	27	Ud	iP 02 31 22.6	"	28	Ud	iP 22 40 24.4
		Arabian Peninsula (h = N).		"	28	Ki	iP 23 22 43.3
"	27	Up	iPKP1 08 42 37.5			Sk	i 23 23 18.1
			i 08 42 41.2			Um	iP 23 22 53.5
		Sk	iPKP1 08 42 31.5			Ud	iP 23 23 28.9
		Um	iPKP1 08 42 26.0			China (h = N).	
			i 08 42 29.9	"	29	Ud	iP 01 59 14.7
		Ud	iPKP1 08 42 39.5 C	"	29	Up	iP 03 00 32.4
			i 08 42 43.5			Sk	iP 03 00 53.2
		De	iPKP1 08 42 47.1			Um	iP 03 00 27.8
		Kermadec Islands (h = 40 km).				Ud	iP 03 00 47.5 C
"	27	Up	iPKP1 13 03 32.4			Nepal (h = N).	
			iPKP2 13 03 41.7				
			micr sec				
		PKP1	Z' 0.1 1.0				
		Ki	iPKP1 13 03 12.6 C				
		Sk	iPKP1 13 03 28.0 C				
		(cont.)					

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

1976

Sep. 29 Up iP 03 04 24.8
iS 03 07 51.7
micr sec
P Z' 1.1 0.9
Mx E 0.7 7
Mx N 0.7 8
Mx Z 1.1 7
Ki iP 03 02 54.6 C
iS 03 05 07.8
micr sec
P Z' 1.8 1.2
Mx E 1.6 6
Mx N 1.3 6
Mx Z 1.3 6
Sk iP 03 04 04.1
iS 03 07 19.3
Um iP 03 03 32.5 C
iS 03 06 12.8
Ud iP 03 04 35.9
iS 03 08 17.5
De iP 03 05 07.9 C
iS 03 09 21.6

Novaya Zemlya.
m = 6.7 (Up,Ki).
Underground explosion.

" 29 Ud iP 05 00 54.3
" 29 Ud iP 07 23 34.1
" 29 Up iP 07 55 59.2
Ki iP 07 55 58.8
Sk iP 07 56 21.9
Um iP 07 55 55.9
Ud iP 07 56 14.9
Tibet-India (h = 30 km).
" 29 Ki iP 09 40 16.5
Ud iP 09 40 52.6
Mariana Islands (h = 25 km).
" 29 Up iP 10 04 28.9
i 10 04 43.3
Ki iP 10 04 22.5 C
micr sec
Mx E 0.7 15
Mx N 0.8 17
Mx Z 0.9 16
Sk iP 10 04 10.1
Um iP 10 04 29.3 C
i 10 04 43.7
Ud iP 10 04 17.9
De iP 10 04 23.9
Cuba (h = N).
" 29 Ud iP 10 48 32.0
Mindanao (h = 60 km).

1976

Sep. 29 Um iP 14 41 48.7
Ud iP 14 42 12.8 C
Afghanistan-USSR (h = 190 km).
" 29 Um iPKP 15 07 00.8
Ud iPKP1 15 07 04.3
De i 15 07 20.2
Tonga Islands (h = N).
" 29 Up i(PKP) 15 58 22.6
iPKP1 15 58 25.8
Ki iPKP 15 58 13.0
i 15 58 15.6
Sk iPKP 15 58 24.0
Um i(PKP) 15 58 15.5
i 15 58 23.5
Ud iPKP1 15 58 24.9 C
De iPKP1 15 58 35.9 C
Tonga-Kermadec Islands (h = N).
" 29 Ud iP 16 43 51.5
" 29 Up iP 17 01 19.6
Ki iP 17 01 21.2 D
Sk iP 17 01 06.7
Um iP 17 01 23.3
Ud iP 17 01 09.0
De iP 17 01 13.0
Colombia (h = 15 km).
" 29 Ki iP 20 25 41.9
Um iP 20 25 49.6
Ud iP 20 26 06.7
Mindanao (h = 50 km).
" 29 Ki iP 20 53 39.9
Um iP 20 53 55.3
Ud iP 20 54 24.9
Japan (h = 270 km).
" 29 Up iP 21 15 38.0
iS 21 26 42
micr sec
P Z' 0.2 1.4
Mx E 1.0 18
Mx N 1.6 18
Mx Z 3.9 18
Ki iP 21 15 22.3
iS 21 26 15
micr sec
P Z' 0.3 1.5
Mx E 2.0 16
Mx N 2.1 20
Mx Z 2.7 17
Sk iP 21 15 43.2
Um iP 21 15 27.5
(cont.)

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

1976

Sep. 29 (cont.)
 Um iSKS 21 25 59
 iS 21 26 19
 Ud iP 21 15 45.9
 Mindanao (h = 40 km).
 m = 6.3, M = 5.7 (Up,Ki).

" 30 Up iP 00 37 57.2
 iS 00 41 59.2
 micr sec
 P Z' 0.8 2.0
 Mx E 3.2 17
 Mx N 3.9 13
 Mx Z 8.3 13
 Ki iP 00 39 11.2
 micr sec
 P Z' 0.3 1.8
 Mx E 2.5 12
 Mx N 4.9 13
 Mx Z 3.0 11
 Sk iP 00 38 36.9
 Um iP 00 38 37.3
 iS 00 43 03
 Ud iP 00 38 04.2 D
 iS 00 42 12.0
 De iP 00 37 26.6
 Ionian Sea (h = 45 km).
 m = 5.8, M = 5.2 (Up,Ki).

" 30 Um iP 04 03 12.7
 Ud iP 04 03 35.0
 Mindanao (h = 35 km).

" 30 Ud iP 08 34 08.8

" 30 Um i 11 46 51.6
 Ud iP 11 47 02.2
 i 11 47 10.8
 Tadzhik (h = N).

" 30 Up iP 17 06 52.1 C
 Ki iP 17 05 58.4 C
 Sk iP 17 06 32.3
 Um iP 17 06 24.8 C
 Ud iP 17 06 53.6 C
 Aleutian Islands (h = 50 km).

" 30 Up iP 17 14 47.9
 Sk iP 17 15 28.9
 Ud iP 17 14 55.5
 Greece (h = 15 km).

" 30 Up iP 17 52 07.1 C
 (cont.)

1976

Sep. 30 (cont.)
 Ki iP 17 51 19.7
 Sk iP 17 51 54.7
 Um iP 17 51 41.3 C
 Ud iP 17 52 12.2
 De iP 17 52 31.7
 Kurile Islands (h = 60 km).

" 30 Um i 20 10 17.1
 Ud iP 20 10 15.3
 Mindanao (h = 55 km).

" 30 ✓ Up iP 23 53 57.7
 i 23 54 10.6
 micr sec
 PKP1 Z' 0.8 1.5
 i Z' 0.8 1.3
 Mx E 2.7 20
 Mx N 6.8 22
 Mx Z 12 22
 Ki iP 23 53 39.2
 i 23 53 43.9
 micr sec
 i Z' 0.2 1.5
 Mx E 3.7 20
 Mx N 6.7 20
 Mx Z 5.7 20
 Sk iP 23 53 49.8
 Um iP 23 53 44.8 C
 Ud iP 23 53 53.6
 iPKP1 23 53 58.5
 De iP 23 54 05.7
 iPKP2 23 54 16.9
 Kermadec Islands (h = 30 km).
 M = 6.5 (Up,Ki).

Norris John
 Ota Kulhánek
 Klaus Meyer
 Rutger Wahlström

June 15, 1978

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ,

UDDEHOLM and DELARY

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

OCTOBER 1 - 31, 1976

1976

Oct.	1	Ud	iP	01 13 57.5
"	1	Ki	iP	01 58 09.1
		Ud	iP	01 58 18.7
		De	iP	01 58 16.9
		Sumatra (h = N).		
"	1	Up	iPKP1	03 53 16.4
			i	03 53 45.1
			i	03 53 51.2
				micr sec
			i	Z' 0.1 1.2
			i	Z' 0.1 0.8
		Ki	iPKP	03 53 08.8
		Sk	i	03 53 43.0
			i	03 53 50.8
		Um	iPKP	03 53 11.1
			i	03 53 28.5
			i	03 53 36.4
		Ud	iPKP1	03 53 17.7
			i	03 53 22.2
			i	03 53 41.8
			i	03 53 48.6
		De	iPKP1	03 53 29.5
			i	03 53 31.7
			i	03 53 58.6
		Tonga-Kermadec Islands (h = 370 km).		
"	1	Up	iPKP1	07 32 23.3
		Ki	iPKP	07 32 19.0
			iSKP1	07 35 08.4
				micr sec
			SKP1	Z' 0.1 1.0
		Sk	e(PKP)	07 32 15
			iPKP	07 32 29.8
			iSKP1	07 35 23.7
		Um	i(PKP)	07 32 14.7
			iPKP	07 32 24.6
		(cont.)		

1976

Oct.	1	(cont.)		
		Um	iSKP1	07 35 20.3
		Ud	iPKP1	07 32 24.8
			iSKP1	07 35 34.5
		De	iPKP1	07 32 35.3
			i	07 32 37.7
			iSKP1	07 35 43.0
		Fiji Islands (h = 380 km).		
"	1	Um	iP	10 30 27.2
		Ud	iP	10 29 58.1
		Ascension Island (h = N).		
"	1	Up	iP	11 35 30.2
		Ki	iP	11 35 31.5
				micr sec
			P	Z' 0.1 0.5
		Sk	iP	11 35 52.2
		Um	iP	11 35 24.7
		Ud	iP	11 35 45.9
			i	11 36 21.8
		De	iP	11 35 45.0
		Kashmir-Sinkiang (h = 80 km).		
"	1	Ud	i(P)	16 02 02.4
"	1	Up	iP	17 54 07.1 C
			iS	17 56 47.4
				micr sec
			P	Z' 0.2 1.0
		Ki	iP	17 55 32.3
			i	17 55 37.1
			iPP	17 55 55.5
				micr sec
			i	Z' 0.1 1.0
			PP	Z' 0.1 0.7
		Sk	iP	17 55 00.3
			i	17 55 04.1
			iPP	17 55 19.5
		(cont.)		

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

1976

Oct. 1 (cont.)
 Um iP 17 54 48.4
 iPP 17 55 04.8
 Ud iP 17 54 22.4 C
 i 17 54 24.8
 De iP 17 53 43.3
 iPP 17 53 51.6
 Rumania (h = 150 km).
 m = 5.3 (Up,Ki).

" 1 Up iPKP 22 10 27.3
 Um iPKP 22 10 14.7
 Ud iPKP 22 10 28.1
 De iPKP 22 10 36.9

" 1 Up iP 23 47 48.6
 Ki iP 23 47 17.2
 Sk iP 23 47 45.3
 Um iP 23 47 30.9
 Ud iP 23 47 55.2
 Volcano Islands (h = N).

" 2 Up iPKP1 01 25 02.6
 i 01 25 13.6
 Sk iPKP1 01 24 54.8
 Ud iPKP1 01 25 07.2

" 2 Ud iP 02 31 24.3

" 2 Ki iP 06 36 02.1
 Sumatra (h = 45 km).

" 2 Up iP 10 11 20.7
 i 10 11 29.6
 micr sec
 i Z' 0.1 1.0
 Ki iP 10 12 11.2 C
 micr sec
 P Z' 0.1 1.3
 Sk eP 10 12 00
 Um iP 10 11 41.3
 i 10 11 44.1
 Ud i 10 11 40.2
 i 10 11 51.1
 De iP 10 11 16.7
 i 10 11 19.2
 Turkey (h = 40 km).
 m = 5.3 (Up,Ki).

" 2 Ud iP 10 16 35.3

" 2 Up iP 11 47 55.7
 Sk eP 11 48 47
 Um iP 11 48 09.8
 Ud iP 11 48 17.9

1976

Oct. 2 Up iPKP1 11 53 29.4
 Sk ePKP1 11 53 23
 Um i(PKP) 11 53 09.0
 iPKP1 11 53 17.4
 Ud iPKP1 11 53 29.5

" 2 Up iP 12 50 27.7
 Sk iP 12 51 06.5
 Um iP 12 51 04.4
 i 12 51 22.0
 Ud iP 12 50 33.7
 i 12 50 41.4
 De iP 12 50 58.3
 Greece (h = 70 km).

" 2 Up iPKP1 14 07 24.3
 iPKP2 14 07 34.7
 Ki iPKP1 14 07 04.5
 micr sec
 PKP1 Z' 0.4 1.5
 Sk iPKP1 14 07 19.6
 i 14 07 30.8
 Um iPKP1 14 07 14.2
 Ud iPKP1 14 07 26.2
 iPKP2 14 07 37.9
 i 14 07 47.2
 North Island, New Zealand
 (h = 35 km).

" 2 Up iP 15 57 02.2
 Sk iP 15 56 54.9
 Um iP 15 56 48.1
 Ud iP 15 57 03.6

" 2 Up iP 18 22 23.7
 Ki iP 18 21 52.1
 Um iP 18 22 05.2
 Ud iP 18 22 30.3
 Bonin Islands (h = 490 km).

" 2 Up iPKP1 18 57 43.2
 iPKP2 18 57 48.0
 Sk iPKP1 18 57 36.9
 Um iPKP1 18 57 31.8
 i 18 57 39.0
 Ud iPKP1 18 57 45.5
 iPKP2 18 57 49.9
 De iPKP1 18 57 54.4
 i 18 58 09.8
 Kermadec Islands (h = 70 km).

" 2 Up iPKP1 22 14 14.3
 iPKP2 22 14 24.3
 Ki iPKP1 22 13 54.8
 i 22 14 06.2
 (cont.)

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

1976

Oct. 2 (cont.)

Ki			micr	sec
	PKP1	Z'	0.1	0.9
Sk	iPKP1		22 14	08.9
Um	iPKP1		22 14	04.2
	i		22 14	16.3
Ud	iPKP1		22 14	16.1

South of Kermadec Islands
(h = 30 km).

" 2 Up iP 22 45 00.8
Ud iP 22 45 05.6
De iP 22 45 16.3

" 2 Um iP 23 31 25.9

" 3 Ud iP 00 58 54.4
Aegean Sea (h = 15 km).

" 3 Up iP 02 51 49.8
iPn 02 53 14.5
iPP 02 53 21.4
Ki i 02 52 05.6
i 02 52 20.9
Sk i 02 52 17.0
Um iP 02 51 49.7
i 02 51 54.3
Ud iP 02 52 07.0
i 02 52 09.7
De eP 02 52 03
i 02 52 08.8
Hindu Kush (h = 50 km).

" 3 Ud iP 05 27 25.7

" 3 Up iP2 05 44 07.5
iP3 05 44 10.6
Ki eP3 05 43 33
iP4 05 43 40.3
Sk eP4 05 44 11
Um iP1 05 43 38.8
iP2 05 43 45.4
iP3 05 43 49.0
Ud iP1 05 44 07.5
iP2 05 44 13.1
iP3 05 44 17.1
iP4 05 44 23.9
Japan (h = 45 km).
Multiple event in average
P2-P1 = 6 s, P3-P1 = 10 s
and P4-P1 = 17 s.

" 3 Ki iPgl 07 27 44.3
i 07 28 16.2
(cont.)

1976

Oct. 3 (cont.)

Ki	iSgl		07 28	19.2
Um	iSgl		07 29	27.7

North Finland, 67.8°N,
27.4°E.
Origin time = 07 26 57.
M_L = 2.2 (Ki,Um).
By combination with Finnish
station readings.

" 3 Up iPKP 08 12 29.3
Ki iPKP 08 12 17.4
Sk iPKP 08 12 28.3
Um iPKP 08 12 22.6
Ud iPKP 08 12 32.0
De iPKP 08 12 37.3
Solomon Islands (h = 55 km).

" 3 Ud iP 10 36 34.8

" 3 Ud iP 13 00 07.9
i 13 00 11.4

" 3 Up iP 15 12 27.5 C
i 15 12 30.0
Ki eP 15 12 31
Sk iP 15 12 49.5
Ud iP 15 12 42.5
i 15 12 47.2
Tibet-India (h = 15 km).

" 3 De iPKP1 15 37 08.9
Tonga-Kermadec Islands
(h = 580 km).

" 3 Up iP 18 39 24.9
Ud iP 18 39 33.2

" 3 Up i 20 21 28.5
Ki iPKP1 20 21 57.6
Um iPKP1 20 21 07.1
Ud iPKP1 20 21 19.9
i 20 21 28.4

" 3 Ud iP 22 51 22.7

" 4 Ud iP 00 24 21.2

" 4 Up iP 02 36 08.0
Ki iP 02 36 07.8
i 02 36 24.6
Sk iP 02 36 21.6
Um iP 02 36 05.2
(cont.)

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

1976				1976			
Oct.		(cont.)		Oct.		(cont.)	
	4	Um i	02 36 23.0		5	Up ipP	06 37 05.6
		Ud iP	02 36 17.6			Ki eP	06 37 35
		i	02 36 36.2			ipP	06 37 45.2
		Sumatra (h = 30 km).					micr sec
"	4	Up iPKP1	07 09 52.5			pP Z'	0.1 1.0
		i	07 09 59.8			Um iP	06 37 13.5
			micr sec			ipP	06 37 23.8
		i Z'	0.1 0.8			Madagascar.	
		Ki ePKP	07 09 37			h = 35 km (Up,Ki,Um).	
		Sk iPKP1	07 09 45.5			Large amplitude ratio pP/P	
		i	07 09 52.7			at Ki and Um.	
		Um iPKP1	07 09 41.0	"	5	Up iPKP1	14 03 06.7 C
		i	07 09 46.5				micr sec
		Ud iPKP1	07 09 53.7 C			PKP1 Z'	0.1 0.8
		i	07 10 01.5			Ki iPKP	14 02 56.5
		De iPKP1	07 10 02.2			Um iPKP1	14 02 54.3
		i	07 10 10.9			Ud iPKP1	14 03 09.1 C
		Kermadec Islands (h = N).				De iPKP1	14 03 19.3 C
"	4	Up iP	07 11 56.8			Tonga-Kermadec Islands	
			micr sec			(h = 500 km).	
		P Z'	0.1 1.2	"	5	Up iSgl	14 39 11.7
		Ki iP	07 11 39.3 C			Ud iSgl	14 39 13.7
			micr sec	"	5	Up iPKP1	16 17 13.4
		P Z'	0.2 1.4			i	16 17 24.0
		Sk iP	07 11 36.0 C				micr sec
		Um iP	07 11 50.8 C			i Z'	0.1 0.9
		Ud iP	07 11 47.0			Ki iPKP	16 16 58.0
		De iP	07 11 55.3			Sk iPKP1	16 17 06.2
		Mexico (h = 15 km).				i	16 17 17.3
		m = 6.0 (Up,Ki).				Um iPKP1	16 17 01.2
"	4	Ud iP	13 43 09.8			i	16 17 10.3
"	4	Um iPgl	14 36 11.0			Ud iPKP1	16 17 14.9
		iSgl	14 36 31.2			iPKP2	16 17 22.0
		iRg	14 36 35.0			De iPKP1	16 17 23.7
		Origin time = 14 35 44.				i	16 17 33.4
		Near-surface regional event.				Kermadec Islands (h = 15 km).	
"	4	Sk iPgl	14 37 01.2	"	5	Up i(PKP)	18 20 49.6
		iSgl	14 37 06.6			iPKP	18 21 00.0
		iRg	14 37 08.3			i	18 21 30.6
		Origin time = 14 36 54.				iPP	18 22 07.2
		Near-surface regional event.				iPKKP	18 31 28.0
"	4	Ud i(P)	16 18 24.2				micr sec
"	4	Ki iP	21 13 10.6			PP Z'	0.2 1.4
		De iP	21 14 24.9			Mx E	1.1 19
		Gulf of Alaska (h = N).				Mx N	2.8 22
"	5	Up i	06 36 54.8			Mx Z	3.6 22
		(cont.)				Ki iP	18 16 51.4
						iPKP	18 20 47.8
						i	18 20 51.6
						iPP	18 21 22.9
						(cont.)	

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

1976

Oct. 5 (cont.)
 Ki iPKKP 18 31 46.7
 micr sec
 i Z' 0.1 1.1
 PP Z' 0.4 2.5
 Mx E 3.5 23
 Mx N 4.7 23
 Mx Z 2.3 22
 Sk iPKP 18 20 58.6
 iPP 18 22 04.6
 Um iP 18 17 03.2
 iPKP 18 20 51.9
 i 18 20 55.6
 iPP 18 21 42.3
 iPKKP 18 31 39.8
 i 18 31 47.0
 Ud iP 18 17 24.8
 iPKP 18 21 01.8
 iPP 18 22 16.5
 i 18 30 26.8
 iPKKP 18 31 23.4
 De iPKP 18 21 07.0
 i 18 21 10.1
 iPP 18 22 35.6
 New Britain (h = 20 km).
 m = 6.5, M = 6.0 (Up,Ki).

" 6 Up iP 01 12 06.5
 i 01 12 08.4
 micr sec
 i Z' 0.1 1.3
 Mx E 0.8 14
 Mx N 0.8 11
 Mx Z 1.6 13
 Ki iP 01 11 33.9
 i 01 11 36.2
 micr sec
 i Z' 0.1 1.0
 Mx E 1.2 12
 Mx N 0.4 9
 Mx Z 0.6 10
 Sk iP 01 12 06.7
 i 01 12 08.5
 Um iP 01 11 46.0
 i 01 11 48.5
 Ud iP 01 12 16.3
 i 01 12 18.1
 De iP 01 12 28.5
 Yellow Sea (h = N).
 Multiple event.
 m = 5.8, M = 5.3 (Up,Ki).

" 6 Ki iP 01 37 03.8
 iPP 01 38 50.2

1976

Oct. 6 (cont.)
 Ud iP 01 37 11.9
 Pakistan (h = 50 km).
 " 6 Up iP 08 24 18.3
 Ki iP 08 23 44.2
 Sk eP 08 24 14
 Um iP 08 23 58.8
 Ud iP 08 24 25.3
 De iP 08 24 38.3
 Japan (h = 470 km).
 " 6 Up iSgl 11 36 37.0
 Ud iSgl 11 36 13.0
 " 6 Up[✓] iP 13 50 02.6
 ipP 13 50 22.3
 iPP 13 52 38.3
 iS 13 59 23
 micr sec
 P Z' 0.2 1.1
 Mx N 0.8 15
 Mx Z 1.5 22
 Ki iP 13 49 23.5 C
 ipP 13 49 43.5
 iPP 13 51 46.6
 micr sec
 P Z' 0.1 1.2
 pP Z' 0.1 1.2
 PP Z' 0.2 1.9
 Mx E 0.7 13
 Mx N 1.9 19
 Mx Z 1.9 20
 Sk iP 13 49 56.7 C
 ipP 13 50 16.4
 iPP 13 52 29.2
 Um iP 13 49 40.5 C
 ipP 13 50 00.6
 iPP 13 52 09.1
 iS 13 58 41
 Ud iP 13 50 09.9 C
 ipP 13 50 29.5
 iPP 13 52 51.9
 De iP 13 50 24.8
 iPP 13 53 09.6
 Japan.
 h = 80 km (Up,Ki,Sk,Um,Ud).
 m = 5.8, M = 5.3 (Up,Ki).

" 6 Up iPKP1 18 36 30.3
 Um iPKP1 18 36 15.8
 Ud iPKP1 18 36 29.0

" 7 Ud iRg 01 20 34.8
 Regional near-surface event.

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

1976

Oct. 7 Up iP 04 46 55.7
ipP 04 47 45.3
Ki iP 04 46 26.5 C
micr sec
P Z' 0.1 0.5
Sk iP 04 46 52.6
Um iP 04 46 38.9 C
ipP 04 47 26.9
Ud iP 04 47 01.8
ipP 04 47 51.3
De iP 04 47 13.5

Volcano Islands.
h = 200 km (Up,Um,Ud).

" 7 Up iPKP1 05 28 29.1
Sk iPKP1 05 28 24.0
Um iPKP1 05 28 19.4
Ud iPKP1 05 28 31.3
i 05 28 43.4

" 7 Up i(P) 05 47 47.2

" 7 Up iPKP2 07 29 52.6
Ki iPKP1 07 29 24.3
Sk iPKP1 07 29 40.7
Um iPKP1 07 29 35.1 D
Ud iPKP1 07 29 47.9 D
iPKP2 07 29 56.0
Kermadec Islands (h = 430 km).

" 7 Ki eP 07 41 10
Um iP 07 40 50.1
Ud iP 07 40 21.1
South Atlantic Ocean (h = N).

" 7 Ud iP 07 43 27.1
South Atlantic Ocean (h = N).

" 7 Up iP 07 44 34.6
Ki iP 07 45 18.6
Sk iP 07 44 48.3
Um iP 07 44 59.8
Ud iP 07 44 30.1
South Atlantic Ocean (h = N).

" 7 Ki iP 10 06 19.0
Sk iP 10 05 48.5
Um iP 10 06 00.0
Ud iP 10 05 30.6
South Atlantic Ocean (h = N).

" 7 Ki iP 10 15 33.3
Sk iP 10 15 02.6
Um iP 10 15 14.0
Ud iP 10 14 44.8
South Atlantic Ocean.

1976

Oct. 7 Up iSgl 17 11 30.5
Sk iSgl 17 10 47.9
Ud i 17 10 23.4
iSgl 17 10 27.9
De eSgl 17 11 26
Southern Norway, 60.5°N, 7.4°E.
Origin time = 17 08 48.
M_L = 2.0 (Ud).

By combination with Bergen
and Kongsberg readings.

" 8 Ud iP 01 17 25.5
i 01 17 33.6
Ionian Sea (h = N).

" 8 Up iPKP1 01 59 56.6
Um iSKP1 02 02 37.7
Ud iPKP1 01 59 58.7
Tonga-Kermadec Islands
(h = 570 km).

" 8 Ki iP 09 32 23.5
Komandorsky Islands (h = 35 km).

" 8 Ud iP 14 49 15.6
i 14 49 18.0
Kurile Islands (h = 70 km).

" 8 Up iP 17 17 28.9
i 17 17 49.8
micr sec
i Z' 0.1 1.1
Ki iP 17 18 14.7
ipP 17 18 21.0
iPP 17 19 20.6
micr sec

pP Z' 0.1 0.9
PP Z' 0.1 1.2
Ud iP 17 17 46.7
i 17 18 13.4
De iP 17 17 23.3

Turkey.
m = 25 km (Ki).

" 8 Ud iSgl 17 32 27.5
Southern Norway.
By combination with Bergen
and Kongsberg readings

" 8 Ud iP 20 51 37.6

" 8[✓] Up iP1 21 17 35.9 C
iP2 21 17 38.0
iS 21 27 38

(cont.)

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

1976								1976	
Oct.	8	(cont.)				Oct.	9		
		Up		micr	sec			Up	iP1
									iP2
		P2	Z'	0.2	1.0			Ki	iP1
		Mx	E	2.5	15				iP2
		Mx	N	3.4	16				i
		Mx	Z	5.4	14			Um	iP2
		Ki	iP1	21 17	15.5	C		Yunnan, China (h = N).	
			iP2	21 17	17.5			Multiple event.	
			ipP2	21 17	34.1				
				micr	sec		"	9	Ki
		P2	Z'	0.3	1.3				iP
		Mx	E	3.3	19				iP
		Mx	N	2.8	15			Ud	iP
		Mx	Z	3.0	15			De	iP
		Sk	iP2	21 17	43.4			Tadzhik SSR (h = 160 km).	
		Um	iP1	21 17	22.3	C		"	9
			iP2	21 17	24.5				Up
			ipP2	21 17	41.5				iSg1
			iS	21 27	13			Ki	iPg1
		Ud	iP1	21 17	45.8				iSg1
			iP2	21 17	47.2			Sk	i
		De	iP2	21 17	54.6				iSg1
		Luzon.						Um	iPn
		h = 60 km (Ki,Um).							iSn
		m = 6.0, M = 5.9 (Up,Ki).							iSg1
		"	9	Up	iP1	03 03	30.1	Ud	eSn
					iP3	03 03	33.6		iSg1
					i	03 03	40.3	De	eSg1
					i	03 03	49.5	Coast of Nordland, Norway,	
					i	03 04	04.9	67.5°N, 15.2°E.	
		Ki	iP2	03 02	43.4			Origin time = 09 24 55.	
			iP3	03 02	45.7			M _L = 2.8 (Up,Ki,Sk,Um,Ud).	
				micr	sec			Felt.	
		Um	P3	Z'	0.1	0.8		By combination with Tromsøe	
			iP1	03 03	03.7		"	9	Ud
			iP2	03 03	05.4				iP
			iP3	03 03	07.8		"	9	Ud
		Ud	iP1	03 03	35.2				iP
			iP3	03 03	39.2		"	9	Up
			i	03 03	46.3				iS
		De	iP3	03 03	57.2				
		Kurile Islands (h = 35 km).							micr
		Multiple event.							sec
		In average P2 - P1 = 1.7 s,						Mx	E
		P3 - P1 = 3.9 s.						Mx	N
		"	9	Um	iP	03 50	24.7	Ki	
									micr
		"	9	Ud	iSg1	05 53	21.1		sec
		Off coast of southwest Norway,						Um	iP
		near 66 1/4°N, 3 1/2°E.						Ud	iP
		Origin time = 05 50 40.						De	iP
		By combination with Bergen						Costa Rica (h = 90 km).	
		and Kongsberg readings.						M = 5.6 (Up,Ki).	
		"	9	Ki	eP	16 15	06	"	9
				Sk	iP	16 14	53.1		Ki
				(cont.)					iP

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

1976

Oct. 9 (cont.)
 Um iP 16 15 10.0
 Panama (h = N).
 P-arrivals are about 9 s
 late when related to the
 NEIS solution.

" 9 Um iP 19 36 18.8
 il 19 36 21.4
 Ud il 19 36 02.4
 Turkey (h = 5 km).
 If phases denoted il are
 interpreted as ipP a focal
 depth of 10 km (Um) is
 yielded.

" 9 Up ipP 22 22 11.9
 Ki iP 22 21 48.1
 ipP 22 21 55.9
 i 22 22 35.9
 iPP 22 25 34.4
 micr sec
 i Z' 0.1 1.1
 Sk ipP 22 22 17.4
 Um iP 22 21 52.8
 ipP 22 22 01.6
 Ud iP 22 22 12.2
 ipP 22 22 20.4
 iPP 22 26 03.9
 De ipP 22 22 25.8
 i 22 22 37.2
 Celebes Sea.
 h = 25 km (Ki,Um,Ud).

" 10 Ud iP 00 00 46.4

" 10 Up iP 03 09 56.5
 iPcP 03 10 23.7
 Um iP 03 09 31.3
 Ud iP 03 10 02.3
 ipP 03 10 11.8
 iPcP 03 10 29.6
 Kurile Islands.
 h = 30 km (Ud).

" 10 Ki iPKP 03 13 09.1
 Um iPKP 03 13 12.6
 Ud ePKP 03 13 22
 De iPKP 03 13 28.4
 New Hebrides Islands
 (h = 20 km).

" 10 Up iP 14 17 34.9
 Ki iP 14 16 49.5
 Um iP 14 17 10.6
 (cont.)

1976

Oct. 10 (cont.)
 Ud iP 14 17 41.1
 i 14 17 46.4
 Kurile Islands (h = N).

" 10 Up iP 14 43 06.4 C
 ipP 14 43 17.4
 micr sec
 P Z' 0.2 1.6
 Ki iP 14 42 21.3 C
 Sk iP 14 42 57.0
 Um iP 14 42 41.6 C
 ipP 14 42 52.9
 Ud iP 14 43 12.4 C
 i 14 43 14.8
 ipP 14 43 24.0
 De iP 14 43 31.2
 Kurile Islands.
 h = 40 km (Up,Um,Ud).

" 10 Ud iP 14 49 30.7

" 10 Up i 17 16 56.9
 iRg 17 17 00.5
 Ud i 17 17 14.3
 i(Sgl) 17 17 17.5
 iRg 17 17 26.6
 De iSgl 17 18 43.1
 East-central Sweden.
 Near-surface event.

" 10 Up iPKP1 22 47 52.0
 Ud iPKP1 22 47 54.1 C
 De iPKP1 22 48 04.1

" 10 Ud iP 22 50 46.8

" 11 Ud iP 00 10 14.6
 Hindu Kush (h = 110 km).

" 11 De iP 03 34 28.4

" 11 Sk iP 05 23 34.0
 Ud iP 05 22 58.5
 De iP 05 22 22.6

" 11 Ud iP 05 35 58.0

" 11 Up iP 06 42 15.7
 ipP 06 42 24.1
 micr sec
 P Z' 0.1 1.0
 pP Z' 0.2 1.1
 Ki iP 06 42 17.8
 ipP 06 42 26.2
 (cont.)

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

1976

Oct. 11 (cont.)

			micr	sec
Ki				
	P	Z'	0.1	1.2
	pP	Z'	0.2	1.0
Sk	iP		06 42	32.6
	ipP		06 42	41.1
Um	iP		06 42	14.3
	ipP		06 42	22.6
Ud	iP		06 42	26.6
	ipP		06 42	35.3
	iPP		06 45	13.1
De	iP		06 42	25.2
	ipP		06 42	34.2
	iPP		06 45	35.2
Sumatra.				
h = 30 km (Up,Ki,Sk,Um,Ud,De).				
m = 6.1 (Up,Ki).				
"	11	De iP	16 43	22.8
Colombia (h = 35 km).				
"	11	Ud iP	21 21	16.8
		i	21 21	19.0
		i	21 21	22.3
		De iP	21 21	26.0
		i	21 21	30.3
Fiji Islands (h = 400 km).				
"	11	Up iP	21 56	41.0
		Ki iP	21 56	35.7
		Ud iP	21 56	57.6
Sinkiang, China (h = 60 km).				
"	11	Ud iP	22 41	39.4
"	11	Ud iP	23 39	13.0
Iran (h = 55 km).				
"	11	Ud iP	23 40	10.1
"	12	Up iP	00 59	37.6
		i	01 00	10.6
		Ki iP	00 59	24.0
		ipPKP	00 59	53.7
		i	00 59	57.8
		Sk ePKP	00 59	36
		ipPKP	01 00	03.6
		i	01 00	09.2
		Um iP	00 59	29.7
		ipPKP	00 59	58.3
		i	01 00	03.8
		Ud iP	00 59	39.9
		ipPKP	01 00	08.7
		i	01 00	13.1
(cont.)				

1976

Oct. 12 (cont.)

		De iP	00 59	46.1 C
		ipPKP	01 00	14.1
		i	01 00	18.6
Solomon Islands.				
h = 100 km (Ki,Sk,Um,Ud,De).				
"		Ud iP	01 28	40.1
		i	01 28	45.9
"	12	Ud iP	04 31	03.6
Sicily (h = 55 km).				
"	12	Up iP	04 36	52.4
		Ki iP	04 36	16.2
		iPcP	04 36	35.8
		Um iP	04 36	31.8
		Ud iP	04 36	58.9
		i	04 37	11.1
Japan (h = 30 km).				
"	12	Up iP	05 22	03.0 C
		Ki iP	05 22	12.6 C
				micr sec
		P	Z'	0.1 0.8
		Um iP	05 22	01.7 C
		Ud iP	05 22	19.6 C
		De iP	05 22	15.3 C
Hindu Kush (h = 220 km).				
"	12	Ud iP	08 18	02.4
"	12	Up iP	15 30	09.9
				micr sec
		Mx	N	5.0 20
		Ki iP	15 30	00.5
				micr sec
		P	Z'	0.1 1.4
		Mx	N	2.6 16
		Ud iP	15 30	23.8
		i	15 30	32.2
Burma-China (h = N).				
M = 5.6 (Up,Ki).				
"	13	Up i	02 55	24.7
		iLg1	02 55	54.0
		Ki iP	02 53	32.7
		Um iP	02 52	50.9
		iLg1	02 57	56.2
		iLg2	02 58	20.3
		Ud iLg1	02 55	55.5
		De iP	02 51	09.1
		i	02 51	16.7
		iLg1	02 53	58.9
		iLg2	02 54	11.5
Austria (h = N).				

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

1976				1976					
Oct.	13	Ki	iP	06 32 03.6	Oct.	15	Ki	iP	16 46 00.7
		Ud	iP	06 32 11.2					micr sec
		Hindu Kush (h = 100 km).					P	Z'	0.1 0.7
"	13	Ud	i(P)	15 57 25.1	"	15	Up	ipP	16 59 47.3
"	13	Ki	iP	17 47 39.2				iS	17 09 18
			ipP	17 47 56.1					micr sec
		Ud	iP	17 47 23.4				pP	Z' 0.1 1.0
		Trinidad.						Mx	E 4.8 16
		h = 60 km (Ki).						Mx	N 12 16
"	13	Ud	iP	18 41 06.8			Ki	iP	16 59 12.8
"	14	Up	iP	03 28 15.5				ipP	16 59 20.1
		Ki	iP	03 27 52.5					micr sec
		Um	iP	03 28 00.3				P	Z' 0.1 1.5
			i	03 28 25.5				pP	Z' 0.1 0.9
		Ud	iP	03 28 31.2				Mx	E 4.7 19
		De	iP	03 28 40.7				Mx	N 6.3 15
		Mongolia (h = N).						Mx	Z 3.9 14
"	14	Um	iP	07 58 24.8			Sk	ipP	16 59 49.0
"	14	Ud	iP	09 46 32.1			Um	ipP	16 59 30.4
"	14	Ud	iP	14 21 58.2				iS	17 08 47
"	14	Ki	i(P)	17 36 33.2			Ud	ipP	16 59 56.9
		Sk	i(P)	17 36 41.3					Formosa.
		Um	i(P)	17 37 03.7					h = 25 km (Ki).
"	14	Ud	ipKP1	22 00 03.5 D	"	15	Sk	ipKP1	19 42 00.3
		Tonga-Kermadec Islands					Um	ipKP1	19 41 54.3
		(h = 540 km).					Ud	ipKP1	19 42 06.5
"	15	Up	iP	10 58 03.4					South of Kermadec Islands
			iS	11 00 26.7					(h = 55 km).
			iLg2	11 02 00.3	"	15	Up	iP	23 10 41.9
		Ki	iS	11 03 23.4					micr sec
			iLg2	11 05 40.2				P	Z' 0.1 1.0
		Sk	i	11 02 35.9				Mx	N 1.5 22
			iLg2	11 04 22.6			Ki	iP	23 11 19.3 C
		Um	iP	10 58 47.2				ipP	23 11 22.2
			iS	11 01 42.9					micr sec
			iLg2	11 03 37.0				P	Z' 0.2 1.0
		Ud	iP	10 58 18.1				Mx	E 1.2 15
			iS	11 00 55.3				Mx	N 1.6 20
			iLg2	11 02 45.3			Sk	iP	23 11 17.0
		De	iLg2	11 01 26.8				ipP	23 11 19.4
		Romania-USSR.					Um	iP	23 10 55.3
		Origin time = 10 55 00 .						ipP	23 10 58.0
"	15	Ud	iP	14 55 58.9			Ud	iP	23 10 56.8
								ipP	23 10 59.3
								iPP	23 12 38.7
							De	iP	23 10 40.0
								ipP	23 10 42.6
									Iran.
									h = 10 km (Ki,Sk,Um,Ud,De).
									m = 5.7, M = 5.0 (Up,Ki).

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

1976				1976			
Oct.	15	Ud	eP	23 46 00	Oct.	17	(cont.)
"	16	Up	iP	01 18 51.6			Ki iP 04 09 56.0 C
		Ki	iP	01 18 21.9			Ud iP 04 10 49.4 C
		Um	iP	01 18 34.5			Aleutian Islands (h = 30 km).
		Ud	iP	01 18 58.3	"	17	Up iP 05 08 23.0
				Volcano Islands (h = 110 km).			Ki iP 05 08 08.3
"	16	Um	iP	04 15 27.5			Sk iP 05 08 37.4
"	16	Up	i(PcP)	07 23 48.8			Ud iP 05 08 37.4
				micr sec			De iP 05 08 44.7
			(PcP) Z'	0.1 1.1			Sinkiang, China (h = N).
		Ki	i(PcP)	07 23 44.0	"	17	Up iP 06 18 01.9
		Ud	iP	07 23 35.1			Ki iP 06 18 10.8 C
			i(PcP)	07 24 01.3			micr sec
				Burma-China (h = N).			P Z' 0.1 0.6
"	16	Ki	iP	08 55 54.7			Sk iP 06 18 27.4 C
				Halmahera (h = 210 km).			Um iP 06 18 00.4
"	16	Ud	iP	10 49 25.6			Ud iP 06 18 18.4 C
				Japan (h = 460 km).			ipP 06 19 02.9
"	16	Ud	iP	17 48 17.9			De iP 06 18 14.9
				Iran-Iraq (h = 70 km).	"	17	Ki e(P) 06 38 45
"	16	Up	iP	23 16 46.4			i 06 39 42.3
				micr sec	"	17	Um iPKP1 07 06 25.0
			P Z'	0.1 0.9			Ud iPKP1 07 06 37.4
		Ki	iP	23 15 53.3	"	17	Um iPKP1 07 17 43.9
		Ud	iP	23 16 46.7			Ud iPKP1 07 17 55.6
				Aleutian Islands (h = N).	"	17	Ud iP 07 47 39.6
"	16	Up	iP	23 34 25.3			Afghanistan-USSR (h = 120 km).
		Sk	iP	23 34 39.4	"	17	Ki iP 11 41 18.4 C
		Ud	iP	23 34 38.6			micr sec
				Tibet (h = N).			P Z' 0.3 2.3
"	17	Ud	iP	00 27 21.0			North of Svalbard (h = 10 km).
			i	00 27 23.3	"	17	Ud iP 19 36 24.0
				Greece (h = N).			Turkey.
"	17	Ud	iP	00 32 25.0	"	18	Ki iP 00 45 06.0
			i	00 32 26.5			micr sec
				Greece (h = 20 km).			P Z' 0.1 1.0
"	17	Ki	iP	03 32 33.2			Sk iP 00 45 34.5
		Ud	iP	03 32 36.2			Alaska (h = 130 km).
		De	iP	03 32 31.9	"	18	Up iPKP1 01 11 43.7
				Uzbek SSR (h = N).			micr sec
"	17	Up	iP	04 10 48.4 C			PKP1 Z' 0.1 0.9
				micr sec			Ki ePKP1 01 11 23
			P Z'	0.1 1.0			Sk iPKP1 01 11 38.1
			(cont.)				(cont.)

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

1976

Oct. 18 (cont.)
 Sk i 01 11 52.3
 Um iPKP1 01 11 33.3 C
 Ud iPKP1 01 11 44.7
 i 01 12 00.4
 South of Kermadec Islands
 (h = N).
 " 18 Ud iP 03 59 21.9
 " 18 Up iP1 10 27 25.8
 iP2 10 27 27.1
 micr sec
 Mx E 1.5 10
 Ki iP1 10 28 03.6
 iP2 10 28 04.8
 i 10 28 19.5
 iPP 10 29 40.3
 micr sec
 P2 Z' 0.1 0.9
 PP Z' 0.1 1.1
 Mx E 0.9 15
 Mx N 1.8 20
 Sk i 10 28 06.7
 Um iP1 10 27 40.2
 iP2 10 27 41.4
 Ud iP1 10 27 40.0
 iP2 10 27 41.1
 De iP1 10 27 24.1
 iP2 10 27 25.7
 Iran (h = 20 km).
 Double P. In average
 P2 - P1 = 1.3 s.
 M = 4.9 (Up,Ki).
 " 18 Up iPKP1 12 23 00.7
 i 12 23 04.3
 Sk iPKP1 12 22 54.3
 Um iPKP1 12 22 46.4
 Ud iPKP1 12 23 00.1
 De iPKP1 12 23 08.5
 Kermadec Islands (h = 100 km).
 " 18 Ki iP 16 01 14.3
 " 18 Ud e(P) 18 34 58
 " 18 Ud iPKP1 20 46 15.8
 De iPKP1 20 46 27.4
 Fiji Islands (h = 500 km).
 " 18 Um iP 21 08 38.4
 Ud iP 21 08 54.5
 Uzbek SSR (h = N).

1976

Oct. 19 Up ePKP1 09 45 29
 i 09 45 38.8
 micr sec
 i Z' 0.9 1.1
 Sk iPKP1 09 45 21.8
 i 09 45 33.8
 Um iPKP1 09 45 16.4
 Ud iPKP1 09 45 29.8
 Kermadec Islands (h = 40 km).
 " 19 Ud iP 11 43 50.7
 " 19 Ud iP 11 48 56.6
 " 19 Ud iP 12 42 27.6
 i 12 42 47.2
 " 19 Up iPKP1 13 13 35.0
 Ki iPKP 13 13 29.8
 Ud iPKP1 13 13 37.0
 De iPKP1 13 13 46.2
 Fiji Islands (h = 600 km).
 " 19 Ud iP 15 41 02.8
 " 19 Up iP 17 53 18.3
 i1 17 53 28.4
 i2 17 53 37.3
 micr sec
 P Z' 0.2 1.3
 Ki iP 17 52 42.1
 i2 17 53 01.2
 micr sec
 i2 Z' 0.1 1.0
 Sk iP 17 53 14.2
 Um iP 17 52 57.8
 i1 17 53 07.9
 Ud iP 17 53 25.9
 i2 17 53 44.5
 De i1 17 53 50.9
 Japan (h = 70 km).
 Phases i1 interpreted as iP
 yield a focal depth of 35 km
 (Up,Um). Phases i2 interpreted
 as iP yield a focal depth
 of 70 km (Up,Ki,Ud).
 " 19 Um iP 23 14 25.5
 Ud iP 23 14 18.3
 Turkey (h = N).
 " 20 Up iPKP1 00 29 30.1
 iPKP2 00 29 38.3
 Ki iPKP1 00 29 10.7
 (cont.)

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

1976

Oct. 20 (cont.)
 Sk iPKP2 00 29 28.8
 Um iPKP1 00 29 20.2
 i 00 29 36.6
 Ud iPKP1 00 29 31.8
 iPKP2 00 29 41.2
 South of Kermadec Islands
 (h = 5 km).

" 20 Sk ePKP1 02 08 57
 Um iPKP1 02 08 51.1
 Ud iPKP1 02 09 04.8
 De ePKP1 02 09 14

" 20 Um iPKP1 05 09 14.5
 Ud iPKP1 05 09 28.5

" 20 Up iP 08 04 26.4
 i 08 04 33.2
 iS 08 08 00.6

micr sec
 P Z' 0.1 0.9
 i Z' 0.1 0.8

Ki iP 08 02 55.0
 iS 08 05 11.3

micr sec
 P Z' 0.1 0.6

Sk iP 08 04 04.7
 i 08 04 10.3
 iS 08 07 18.3

Um iP 08 03 34.0
 iPP 08 03 43.4

iS 08 06 16.0
 Ud iP 08 04 37.0

iS 08 08 29.9
 De iP 08 05 07.8

i 08 05 13.7
 iPP 08 05 37.2

i 08 09 40.8

Novaya Zemlya.
 Underground explosion.
 m = 5.7 (Up,Ki).

" 20 Up iP 10 44 42.7
 isP 10 45 26.0
 Ki iP 10 44 46.3
 ipP 10 45 11.8
 isP 10 45 28.2
 micr sec
 P Z' 0.1 0.8
 Sk iP 10 45 06.2
 ipP 10 45 32.2
 i 10 45 43.8
 Um iP 10 44 38.4
 (cont.)

1976

Oct. 20 (cont.)
 Um ipP 10 45 03.8
 Ud iP 10 44 59.5
 ipP 10 45 24.2
 De iP 10 44 58.4
 ipP 10 45 26.4
 isP 10 45 40.7

Tadzhik-Sinkiang.
 h = 120 km (Up,Ki,Sk,Um,Ud,De).

" 20 Up iP 11 52 04.9
 Ki iP 11 51 11.3
 Sk iP 11 51 38.1

Kodiak Islands (h = 20 km).

" 20 Sk eSgl 14 01 24
 Ud i 14 00 19.5
 iSgl 14 00 58.2

" 20 Sk ePgl 15 38 03
 Ud iSgl 15 38 40.6

Southern Norway.
 By combination with Bergen
 readings.

" 20 Ud i(P) 15 58 08.9

" 20 Sk ePKP 18 50 23
 Loyalty Islands (h = 25 km).

" 20 Um iP 22 28 14.1

" 21 Ki iP 01 21 28.6

" 21 Ud iP 02 58 17.7

" 21 Up iPKP2 04 08 28.5

Sk iPKP2 04 08 18.9

Um iPKP1 04 08 10.8

Ud iPKP1 04 08 22.8

i 04 08 36.7

South of Kermadec Islands
 (h = 30 km).

" 21 Up iP 12 53 24.1

il 12 53 50.7

Ki iP 12 54 30.3

i 12 54 48.5

Sk iP 12 54 03.4

il 12 54 30.4

i 12 54 49.5

Ud iP 12 53 32.3

il 12 53 58.4

De iP 12 53 00.7
 (cont.)

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

1976

Oct.	21	(cont.)					
		De	i	12 53	20.1		
		Dodecanese Islands					
		(h = 100 km).					
		Phases il interpreted as					
		ipP yield a focal depth					
		of 130 km (Up,Sk,Ud).					
"	21	Up	iP	13 34	28.5		
		Ki	iP	13 33	51.9		
		Sk	iP	13 34	23.7		
		Um	iP	13 34	07.9		
		Ud	iP	13 34	35.3		
		De	iP	13 34	49.0		
		Japan (h = N).					
"	21	Up	iP	15 05	32.1	C	
			i	15 06	09.2		
							micr sec
			P	Z'	0.1	1.0	
		Ki	iP	15 04	38.6	C	
			i	15 05	16.1		
							micr sec
			P	Z'	0.2	1.0	
		Sk	iP	15 05	09.0	C	
			i	15 05	54.7		
		Um	iP	15 05	05.4	C	
		Ud	iP	15 05	31.2	C	
		De	iP	15 05	54.1	C	
		Aleutian Islands (h = 35 km).					
		m = 6.0 (Up,Ki).					
"	21	Ki	iP	15 23	22.5		
		Sk	iP	15 23	52.2		
		Um	iP	15 23	48.7		
		Ud	iP	15 24	14.6		
		De	iP	15 24	37.0		
		Aleutian Islands (h = N).					
"	21	Ud	iP	17 36	26.2		
"	21	Ki	iSgl	17 48	43.4		
"	21	Up	iRg	18 04	18.8		
		Ud	iRg	18 03	55.0		
		Central Sweden.					
		Near-surface event.					
"	22	Ki	iP	11 22	38.5		
		Ud	iP	11 23	10.6		
		Luzon (h = N).					
"	22	Up	i	11 28	14.1		
							micr sec
			Mx	E	1.7	10	
		(cont.)					

1976

Oct.	22	(cont.)					
		Ki					micr sec
			Mx	E	1.4	11	
		Sk	iP	11 28	40.0		
			i	11 28	45.6		
		Um	i	11 28	48.0		
		Ud	iP	11 28	04.8		
			i	11 28	08.5		
		Italy (h = 30 km).					
		M = 4.7 (Up,Ki).					
"	22	Sk	iP	14 49	13.1		
"	22	Up	iPKP1	16 38	23.2		
			ipPKP1	16 38	52.5		
		Ud	iPKP1	16 38	25.3	D	
			i	16 38	34.4		
			ipPKP1	16 38	53.3		
		De	iPKP1	16 38	35.0		
		Tonga-Kermadec Islands.					
		h = 100 km (Up,Ud).					
"	22	Up	iPKP1	16 50	54.8		
		Sk	iPKP1	16 50	48.1		
		Um	iPKP1	16 50	43.4	D	
		Ud	iPKP1	16 50	57.2	D	
		De	iPKP1	16 51	05.5	D	
		Kermadec Islands (h = 330 km).					
"	22	Up	iP	18 45	59.1	C	
			i	18 45	59.9		
			ipP	18 46	06.5		
		Ki	iP	18 45	05.3	C	
			i	18 45	06.2		
			ipP	18 45	12.7		
			i	18 45	20.5		
		Sk	iP	18 45	32.4	C	
			i	18 45	33.3		
			ipP	18 45	39.8		
			i	18 45	48.1		
		Um	ipP	18 45	40.6		
		Ud	iP	18 45	56.2	C	
			i	18 45	57.0		
			ipP	18 46	03.9		
		De	iP	18 46	18.9		
			ipP	18 46	27.3		
		Kodiak Island.					
		h = 25 km (Up,Ki,Sk,Ud,De).					
		Double P, average separation					
		0.9 s.					
"	22	Ud	i(P)	18 51	19.8		
"	22	Ud	iP	23 53	08.3		

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

1976

Oct. 23 Ud iPgl 06 57 09.2
iSgl 06 57 34.2
iRg 06 57 47.3
Regional near-surface event.

" 23 Ud iP 07 00 52.9

" 23 Ud iP 07 13 28.8
Iran (h = 25 km).

" 23 Up iP 08 35 55.1
Ki iP 08 35 01.3
micr sec
P Z' 0.1 1.0
Sk iP 08 35 30.7
Um iP 08 35 28.9
Ud iP 08 35 53.6 D
De iP 08 36 16.5
Aleutian Islands (h = 190 km).

" 23 Up iRg 10 46 11.5
Ud i(Sgl) 10 45 51.3
iRg 10 45 58.8
Central Sweden.
Near-surface event.

" 23 Um iP 11 16 56.0
Ud iP 11 17 27.6
China (h = N).

" 23 Up iP 11 17 34.8 C
Ki iP 11 17 43.4
Um iP 11 17 33.0 C
Ud iP 11 17 51.3 C
De iP 11 17 48.4
Hindu Kush (h = 260 km).

" 23 Ud iP 11 20 47.7
De iP 11 20 15.6
Crete.

" 23 Sk eP 11 34 24
Ud iP 11 33 53.1
De iP 11 33 20.8
Crete (h = 45 km).

" 23 Sk eP 12 14 35
Ud iP 12 14 02.6 C
De iP 12 13 30.3
Crete (h = 80 km).

" 23 Ud iP KP 16 12 11.6
iPKP 16 12 38.0
De iP KP 16 12 14.7
(cont.)

1976

Oct. 23 (cont.)
De iP KP 16 12 43.4
New Ireland.
h = 100 km (Ud,De).

" 23 Up iP 16 18 46.0
Ki iP 16 18 44.1
Ud iP 16 19 00.7
Tibet (h = 60 km).

" 23 Up eP 22 10 14
Ki iP 22 10 57.2 D
micr sec
P Z' 0.1 1.5
Sk iP 20 10 25.8 D
ipP 20 10 30.2
Um iP 20 10 37.3 D
ipP 20 10 42.4
iPcP 20 10 52.8
Ud iP 20 10 07.6 D
ipP 20 10 12.6
De iP 20 09 48.1
ipP 20 09 53.5
South Atlantic Ocean.
h = 15 km (Sk,Um,Ud,De).

" 23 Um iP 22 50 13.2
Ud iP 22 50 44.1

" 23 Ki iP 23 09 25.2
Um iP 23 09 18.2
South Sandwich Islands (h = N).

" 24 Ud iP KP 00 32 21.5
i 00 32 51.5
Argentina (h = 45 km).

" 24 Up iP 02 18 19.3 C
ipP 02 18 41.2
i 02 18 51.8
micr sec
P Z' 0.2 1.5
Ki iP 02 18 01.1 C
ipP 02 18 21.0
micr sec
P Z' 0.1 1.3
Sk epP 02 18 46
Um iP 02 18 07.4 C
ipP 02 18 27.5
Ud iP 02 18 27.8 C
ipP 02 18 48.2

Samar.
h = 80 km (Up,Ki,Um,Ud).
m = 5.8 (Up,Ki).

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

1976

Oct. 24 Up iP 02 48 25.4
i 02 48 27.7
Sk i 02 48 29
Um iP 02 48 05.4
i 02 48 07.7
Ud iP 02 48 35.5
i 02 48 39.2
De iP 02 48 49.5
i 02 48 51.4

China (h = N).

" 24 Ud iP 05 16 57.6
Mariana Islands (h = 140 km).

" 24 Ud iP 06 56 28.0

" 24 Up iP 08 46 28.2
Ki iP 08 45 33.3
Sk iP 08 46 01.1
Um iP 08 46 02.0
Ud iP 08 46 25.1
Kodiak Island (h = 60 km).

" 24 Up iP 09 47 35.7
Ud iP 09 47 50.7
Sinkiang, China (h = N).

" 24 Ud eLgl 10 13 56
Czechoslovakia (h = N).

" 24 Um iP 11 00 12.9
Ud iP 10 59 44.8

" 24 Up iP 16 28 45.3
i 16 28 46.6
micr sec
i Z' 0.1 0.9
Ki eP 16 29 17
i 16 29 19.0
Sk eP 16 29 18
i 16 29 19.4
Um iP 16 28 56.2
i 16 28 57.6
Ud iP 16 29 00.6
i 16 29 01.9
De iP 16 28 46.0
i 16 28 47.4

Iran (h = 50 km).

Double event.

" 24 Up il 17 29 39.7
ipP 17 29 51.2
Ki il 17 28 42.5
ipP 17 28 54.7
(cont.)

1976

Oct. 24 (cont.)
Sk il 17 29 10.8
ipP 17 29 23.0
Um iP 17 29 07.0
il 17 29 12.1
ipP 17 29 24.2
Ud il 17 29 36.5
ipP 17 29 48.5

Alaska.

h = 70 km (Um).

Phases denoted il are about
5 s late to be interpreted
as P.

" 24 Ud iS 20 38 13.3
De eP 20 35 30
iS 20 37 03.7

Belgium (h = N).

" 24 Up iPKP1 20 39 38.2
i 20 39 49.2
Sk iPKP1 20 39 30.7
i 20 39 40.8
Um iPKP1 20 39 26.1
i 20 39 41.8
Ud iPKP1 20 39 38.7
iPKP2 20 39 45.4
De iPKP2 20 39 59.2

Kermadec Islands (h = 10 km).

" 24 Ud iP 21 23 51.5

" 24 Um iPKP1 23 09 02.0
Ud iPKP1 23 09 15.3

" 25 Ud iPKP1 07 01 09.2
Tonga-Kermadec Islands
(h = 660 km).

" 25 Up iPn 08 40 34.6
iPgl 08 40 38.4
iSn 08 41 09.7
iSgl 08 41 17.3
i 08 41 26.1
Ki iPn 08 41 51.3
i 08 41 53.1
iSn 08 43 26.1
i 08 43 58.2
iSgl 08 44 14.9
Sk iPn 08 41 25.9
i 08 41 55.5
iSn 08 42 40.7
iSgl 08 43 15.4
Um iPn 08 40 58.6
i 08 41 01.2

(cont.)

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

1976				1976					
Oct.	26	Up	iPKP1	13 20 20.3	Oct.	27	Up	iPKP1	16 17 17.4
			iPKP2	13 20 26.0					micr sec
			i	13 20 51.1				PKP1	Z' 0.1 1.0
				micr sec			Ki	iPKP	16 17 04.0
			PKP2	Z' 0.1 0.9			Sk	iPKP1	16 17 10.7
		Ki	iPKP	13 20 07.2			Um	iPKP1	16 17 05.5
		Sk	iPKP2	13 20 16.2			Ud	iPKP1	16 17 19.1 C
		Um	iPKP1	13 20 09.2 D				i	16 17 54.8
		Ud	iPKP1	13 20 21.7					Kermadec Islands (h = 90 km).
			iPKP2	13 20 28.6					
		De	ePKP1	13 20 30	"	27	Up	iPKP1	17 12 34.5
			iPKP2	13 20 42.3			Ud	iPKP1	17 12 36.6
				Kermadec Islands (h = 45 km).			De	iPKP1	17 12 47.7
"	26	Up	iP	13 27 35.2					Tonga-Kermadec Islands
		Ud	iP	13 27 50.6					(h = 330 km).
"	26	Ud	iRg	19 15 07.8	"	27	Sk	iP	21 57 46.0
				Regional near-surface event.			Ud	iP	21 58 12.6
"	26	Up	iP	20 24 03.5					Greenland Sea (h = 10 km).
		Ud	iP	20 24 06.1	"	28	Up	eP	00 24 26
"	26	Ud	iP	20 54 27.6			Ki	eP	00 24 06
				Talau Islands (h = 80 km).			Um	iP	00 24 11.1
"	27	Up	iSgl	00 28 40.6			Ud	iP	00 24 31.1
		Ud	iPgl	00 27 40.7 C					Mindanao (h = N).
			iSgl	00 27 43.7	"	28	Ki	eP	01 19 21
				Värmland, Sweden.			Um	iP	01 19 36.2 C
				Origin time = 00 27 36.					Japan (h = N).
"	27	Ud	iP	00 43 42.2	"	28	Ud	i(P)	01 54 15.4
				Greece (h = N).	"	28	Ud	iSgl	13 42 10.0
"	27	Ki	iP	03 44 59.5					Southwestern Norway.
		Ud	iP	03 44 37.5					Origin time = 13 40 36.
		De	iP	03 44 22.7					By combination with Bergen
"	27	Up	iP	05 12 08.6					and Kongsberg readings.
		Ki	iP	05 11 49.6	"	28	Up	iP	14 17 19.3
		Ud	iP	05 12 16.7			Ki	eP	14 16 34
				Talau Islands (h = 80 km).			Um	iP	14 16 52.3
"	27	Ud	iP	09 34 25.6			Ud	iP	14 17 24.9
				Crete (h = 60 km).					Kurile Islands (h = N).
"	27	Sk	iP	10 20 18.3	"	28	Up	iP	14 26 17.2
		Um	iP	10 20 19.0			Ud	iP	14 49 34.6
		Ud	eP	10 19 44					Kurile Islands (h = N).
			i	10 20 01.5	"	28	Up	iP	18 19 33.3
				Italy (h = N).			Ud	iP	18 19 36.7
				P-arrivals are about 11 s	"	28	Up	iP	20 48 02.7 C
				late when related to the				i	20 48 03.5
				NEIS solution.					(cont.)

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

1976

Oct. 28 (cont.)
 Ki iP 20 47 13.4
 Sk eP 20 47 51
 Um iP 20 47 36.0 C
 Ud iP 20 48 07.9 C
 i 20 48 08.8
 De iP 20 48 27.8
 i 20 48 28.7
 Kurile Islands (h = 140 km).

" 29 Up iP 01 11 58.0
 Ki eP 01 11 22
 Um iP 01 11 36.9
 Ud iP 01 12 04.6
 Japan (h = 40 km).

" 29 ✓ Up iP 03 05 37.1
 i 03 05 41.6
 i 03 09 43.5
 iPP 03 10 10.1
 iS 03 17 44
 iPKKP 03 20 49.1
 micr sec
 i Z' 0.1 1.0
 Mx E 31 21
 Mx N 47 19
 Mx Z 86 21
 Ki iP 03 05 12.3
 iPP 03 09 32.9
 iSKS 03 15 52
 iS 03 17 03
 iPKKP 03 21 09.5
 micr sec
 P Z' 0.1 1.0
 PP Z' 0.7 2.8
 Mx E 29 19
 Mx N 36 18
 Mx Z 32 23
 Sk i 03 05 41.9
 i 03 09 40.5
 i 03 09 48.0
 iPP 03 10 17.2
 iPKKP 03 20 48.3
 Um iP 03 05 20.7
 i 03 05 27.4
 i 03 09 39.0
 Ud iP 03 05 43.4
 i 03 05 46.8
 i 03 10 03.9
 iPP 03 10 21.5
 iPKKP 03 20 39.7
 De iP 03 05 52.0
 i 03 09 45.5
 iPP 03 10 37.1
 (cont.)

1976

Oct. 29 (cont.)
 De ePKKP 03 20 38
 West Irian (h = N).
 m = 6.9, M = 7.1 (Up,Ki).

" 29 Ki iP 04 09 29.4
 Ud iP 04 10 00.3
 West Irian (h = 25 km).

" 29 Ki i(pP) 05 01 34.4
 Ud i(pP) 05 01 36.2
 Mexico (h = 35 km).

" 29 Sk ePKP1 07 23 51
 Kermadec Islands (h = N).

" 29 Ki i(P) 08 34 47.6

" 29 Up iP 15 24 09.9
 Ki iP 15 24 18.5
 Um iP 15 24 07.8
 Ud iP 15 24 26.3
 De iP 15 24 23.3
 Afghanistan-USSR (h = 150 km).

" 29 Ud iP 17 08 55.7
 Windward Islands (h = 55 km).

" 29 Up i(P) 19 51 39.3

" 30 Up iP 00 55 17.9 C
 Ki iP 00 54 40.7
 Sk iP 00 55 12.8 C
 Um iP 00 54 56.5 C
 ipP 00 55 26.9
 Ud iP 00 55 24.9 C
 De iP 00 55 38.8 C
 Japan.
 h = 130 km (Um).

" 30 Ud ipP 01 24 36.9
 Hindu Kush (h = 220 km).

" 30 Ud iP 01 42 28.6
 Greece (h = 5 km).

" 30 Ud iP 02 10 18.9
 Tadzhik SSR (h = 25 km).

" 30 Ud iP 03 25 41.0

" 30 Up iP 03 26 34.3
 Ud iP 03 26 47.4

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

1976

Oct.	30	Up	iPKP1	04 04 03.2
		Sk	iPKP1	04 03 52.9
		Um	iPKP1	04 03 47.3
			i	04 03 51.7
		Ud	iPKP1	04 04 01.3
"	30	Up	eP	05 03 53
			i	05 04 40.9
		Ki	iP	05 03 37.2
		Sk	iP	05 04 08.3
		Um	iP	05 03 37.9
		Ud	iP	05 04 09.1
			iPn	05 05 17.9
		De	iPP	05 05 41.1
			Kazakh SSR.	
			Origin time = 04 57 00.	
			Underground explosion.	
"	30	Up	iP	07 05 48.6
		Ud	iP	07 05 54.3
"	30	Ud	iP	07 19 53.7
"	30	Up	iP	07 56 29.6 C
			i	07 56 34.5
		Sk	iP	07 56 41.7
			i	07 56 46.5
		Um	iP	07 56 15.4
		Ud	iP	07 56 43.3
			i	07 56 47.2
		De	iP	07 56 49.0
			i	07 56 53.7
			Tsinghai, China (h = 35 km).	
"	30	Ud	eP	08 08 21
			Ryukyu Islands (h = 70 km).	
"	30	Up	iPKP	08 25 28.1
			iSKP1	08 28 33.9
		Ki	iPKP	08 25 14.2 D
		Sk	iPKP	08 25 25.4
		Um	iPKP	08 25 20.7 D
		Ud	iPKP	08 25 30.7
			iSKP1	08 28 36.7
		De	iPKP	08 25 37.0 D
			iSKP1	08 25 47.7
			New Hebrides Islands (h = 200 km).	
"	30	Up	iP	08 55 54.3
		Ud	iP	08 56 00.1
"	30	Up	eP	09 36 56
			i	09 36 59.7
			il	09 37 02.2
			(cont.)	

1976

Oct.	30	(cont.)		
		Up	iS	09 47 13
				micr sec
			il	Z' 0.1 1.0
			Mx	E 0.9 16
			Mx	N 1.6 18
			Mx	Z 1.6 20
		Ki	iP	09 36 57.2 D
			il	09 37 03.6
			iS	09 47 17
				micr sec
			il	Z' 0.2 1.4
			Mx	E 1.5 20
			Mx	N 1.9 17
			Mx	Z 1.2 16
		Sk	i	09 37 15.6
			i	09 37 19.9
		Um	iP	09 36 53.2 D
			i	09 36 54.9
			il	09 36 59.7
		Ud	iP	09 37 06.6
			i	09 37 11.4
			il	09 37 13.0
		De	iP	09 37 04.7 D
			i	09 37 07.8
			Sumatra (h = 15 km).	
			m = 5.9, M = 5.5 (Up, Ki).	
			Phases il interpreted as	
			ipP yield a focal depth	
			of 20 km (Ki, Um, Ud).	
"	30	Ki	iP	16 06 57.3
		Um	iP	16 07 02.3
		Ud	iP	16 07 22.1
			Talaud Islands (h = 90 km).	
"	30	Up	iP	16 13 24.0
			i	16 13 50.7
		Ki	iP	16 13 24.1
		Sk	iP	16 13 40.6
		Um	iP	16 13 19.5
		Ud	iP	16 13 35.8
		De	iP	16 13 34.7
			Andaman Islands. h = 100 km (Up).	
"	30	Ud	iP	18 52 15.7
"	30	Ki	i	19 22 14.6
		Ud	iP	19 22 27.8
			ipP	19 22 35.3
		De	iP	19 22 28.9
			Kirgiz-Sinkiang. h = 25 km (Ud).	

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

1976

Oct. 30 Ki iP 19 51 24.7
ipP 19 51 35.2
Sumatra.
h = 35 km (Ki).

" 30 Ud iP 21 00 22.5

" 30 Ud iPKP1 21 04 26.6
Fiji Islands (h = 270 km).

" 30 Up iPKP 22 40 01.8
Ki iPKP 22 39 48.2
Sk iPKP 22 39 59.0
Um iPKP 22 39 53.3
Ud iP 22 40 04.4
De iP 22 40 10.5
Santa Cruz Islands
(h = 270 km).

" 31 Ud iP 02 10 06.9

" 31 Up iP 09 04 24.3
i 09 04 29.1
Ki iP 09 05 48.7
Sk eP 09 05 06
i 09 05 13.2
Ud eP 09 04 31
i 09 04 42.0
De iP 09 03 52.5
i 09 04 04.6
Greece (h = 30 km).

" 31 Ki iP 10 19 30.8
Molucca Passage (h = N).

" 31 Ki iP 12 27 41.2
Ud iP 12 28 05.3
Banda Sea (h = 80 km).

" 31 Up iP 12 41 03.0
Ki iP 12 40 19.5
Um iP 12 40 40.5
Ud iP 12 41 08.3
i 12 41 17.2
De iP 12 41 27.2
i 12 41 31.6
Japan (h = 60 km).

" 31 Ud iP 12 47 05.1
i 12 47 08.3

" 31 Ud iP 14 30 17.1

" 31 Ud iPKP1 14 47 28.0
(cont.)

1976

Oct. 31 (cont.)
Ud i 14 47 34.2
South of Kermadec Islands
(h = 190 km).

" 31 Up iP 18 15 19.9
Um iP 18 15 02.3
Ud iP 18 15 27.0

" 31 Up iP 18 46 44.7
Ki iP 18 46 35.4
Ud iP 18 46 57.3
Burma (h = N).

" 31 Up Mx 19 51
micr sec
Mx E 1.2 20
Mx N 1.1 20
Mx Z 2.3 24
Ki Mx 19 45
micr sec
Mx E 1.6 24
Mx N 1.4 23
Mx Z 1.3 19
New Britain (h = 80 km).
M = 5.6 (Up,Ki).

" 31 Up iP 19 33 39.6 C
ipP 19 34 15.8
micr sec
P Z' 0.1 1.0
Ki iP 19 33 13.2
micr sec
P Z' 0.1 1.2
Sk iP 19 33 41.8
Um iP 19 33 23.0 C
Ud iP 19 33 48.8 C
i 19 34 08.1
ipP 19 34 27.2
De iP 19 33 58.9 C
Formosa.
h = 150 km (Up,Ud).
m = 5.5 (Up,Ki).

" 31 Ud eP 19 51 50

" 31 Ki iP 21 36 44.4
Ud i 21 36 58.7
Sumatra (h = 55 km).

" 31 Ki i 21 44 23.3
i 21 44 29.3
Ud i 21 44 31.4
Sumatra (h = 80 km).

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

1976

Oct. 31 Ud iP 22 37 58.8

Conny Holmqvist
Ota Kulhánek
Klaus Meyer
Rutger Wahlström

May 24, 1978

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ,

UDDEHOLM and DELARY

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

NOVEMBER 1 - 30, 1976

1976				1976					
Nov.	1	Up	iP	02 19 18.9	Nov.	1	Ud	iPKP2	18 13 03.8
		Ki	iP	02 19 00.6			De	ePKP2	18 13 20
		Sk	eP	02 19 24			Kermadec Islands (h = 70 km).		
		Um	iP	02 19 06.4					
		Ud	iP	02 19 27.5	"	1	Ud	iP	20 38 18.5
				Luzon (h = 210 km).			Mindanao (h = 50 km).		
"	1	Ud	iP	04 16 01.3	"	1	Ud	iP	20 09 57.7
				Japan (h = 60 km).			Dodecanese Islands (h = 50 km).		
"	1	Ud	iP	06 00 25.0	"	1	Sk	iP	21 26 04.4
							Ud	iP	21 26 22.6
"	1	Ud	iPKP	06 39 47.7			De	iP	21 26 31.7
				Tonga Islands (h = 40 km).	"	1	Up	ePKP1	23 59 03
"	1	Up	iPP	07 12 39			Sk	iPKP1	23 58 56.7
				micr sec			Um	ePKP1	23 58 51
		Mx	E	1.5 19			Ud	iPKP1	23 59 04.8
		Mx	N	1.9 21			De	iPKP1	23 59 12.7
		Mx	Z	3.8 19			i		23 59 28.3
		Ki		micr sec			Kermadec Islands (h = 60 km).		
		Mx	E	2.5 23	"	2	Um	iP	03 25 44.0
		Mx	N	2.2 22	"	2	Um	iPKP	04 56 46.0
		Mx	Z	3.9 23			South of Australia (h = N).		
		Um	iPP	07 12 15	"	2	Sk	i(P)	07 00 40.3
				New Britain (h = 55 km).			i		07 00 42.6
				M = 5.8 (Up,Ki).	"	2	Up	iP	07 27 05.7
"	1	Ud	iPKP1	11 52 25.0			iPP		07 31 13.3
			i	11 52 28.7			micr sec		
				Kermadec Islands (h = 15 km).			Mx	E	2.5 15
"	1	Ud	eP	12 56 30			Mx	N	4.2 18
			i	12 56 32.9			Mx	Z	6.9 19
"	1	Ud	eP	15 51 02					

(cont.)

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

1976

Nov. 2 (cont.)
 Ki i(PP) 07 31 38.1
 i 07 31 54.0
 micr sec
 Mx E 4.1 17
 Mx N 6.4 19
 Mx Z 5.1 17
 Sk iPP 07 31 41.9
 i 07 31 51.2
 Um iPP 07 31 27.5
 Ud iPP 07 31 23.0
 Mid-Indian Ocean (h = N).
 M = 6.2 (Up,Ki).
 " 2 Ki iP 11 08 48.1
 Um iP 11 08 28.4
 i 11 08 32.9
 Ud iP 11 07 58.5 C
 De iP 11 07 38.6
 Ascension Island (h = N).
 " 2 Up iP 15 04 21.0
 micr sec
 P Z' 0.1 1.0
 Ki iP 15 03 37.4
 iPP 15 05 11.0
 micr sec
 PP Z' 0.1 1.0
 Sk iP 15 04 18.3
 Um iP 15 03 54.9
 iPP 15 05 39.9
 Ud iP 15 04 32.5 C
 De iP 15 04 50.6 C
 Lake Baikal (h = N).
 " 2 Up iP 19 33 53.0
 Ki iP 19 33 05.1
 Um iP 19 33 26.9
 Ud iP 19 33 58.0
 Kurile Islands (h = 35 km).
 " 2 Up iP 19 40 50.5 D
 i 19 41 01.4
 micr sec
 P Z' 0.6 0.6
 Ki iP 19 40 23.8 D
 micr sec
 P Z' 0.9 1.2
 Sk iP 19 40 52.5
 i 19 41 02.7
 Um iP 19 40 33.5 D
 i 19 40 39.6
 Ud iP 19 40 59.9
 i 19 41 19.9
 (cont.)

1976

Nov. 2 (cont.)
 De iP 19 41 09.8
 Formosa (h = 220 km).
 m = 6.4 (Up,Ki).
 " 2 Ki iP 22 22 48.7
 " 3 Um iP 04 10 51.2 D
 Ud iP 04 11 21.2
 Japan (h = 10 km).
 " 3 Up iP 05 51 42.8 C
 Ki iP 05 51 31.1 C
 Um iP 05 51 31.7
 Ud iP 05 51 54.1
 i 05 51 59.1
 Yunnan, China (h = 20 km).
 " 3 Um iP 08 33 24.6
 Philippine Islands (h = 40 km).
 " 3 Up iP 10 06 48.1
 micr sec
 P Z' 0.1 1.1
 Ki iP 10 06 49.8
 micr sec
 P Z' 0.4 1.9
 Sk eP 10 07 03
 Um iP 10 06 45.6
 Ud iP 10 06 59.5
 De iP 10 06 57.1
 Sumatra (h = 20 km).
 m = 5.9 (Up,Ki).
 " 3 Ki iP 11 09 12.3
 Um ipP 11 09 11.8
 Ud iP 11 09 21.8
 ipP 11 09 25.3
 Sumatra (h = 15 km).
 " 4 Ki iP 10 53 15.5
 California (h = 5 km).
 " 4 Ki iP 11 30 27.4
 Sk iP 11 31 02.6
 Um iP 11 30 47.7
 Ud iP 11 31 16.6
 Japan (h = 55 km).
 " 4 Up i(P) 12 45 14.3
 " 4 Ki iP 14 10 35.9
 " 4 Ki ipPKP 17 02 44.4
 (cont.)

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

1976

Nov. 4 (cont.)
 Ki iSKP1 17 05 17.2
 Sk iSKP1 17 05 33.0
 Um iSKP1 17 05 28.4 C
 Ud iPKP1 17 02 53.4
 iSKP1 17 05 41.4
 De iPKP1 17 03 05.0 C
 Fiji Islands (h = 590 km).

" 4
 Up iPKP 17 25 15.2
 Ki ePKP 17 25 03
 iSKP1 17 27 47.7
 Um iPKP1 17 25 04.3
 iSKP1 17 28 01.8
 Ud e(PKP) 17 25 11
 iPKP1 17 25 12.8
 iSKP1 17 28 12.1
 De iPKP1 17 25 23.2
 Fiji Islands (h = 460 km).

" 5
 Up iP 04 07 56.1 C
 micr sec
 P Z' 0.1 0.8
 Ki iP 04 07 04.4 C
 micr sec
 P Z' 0.1 1.0
 Sk iP 04 07 49.2 C
 Um iP 04 07 25.9
 Ud iP 04 08 06.0 C
 De iP 04 08 26.2 C
 Central Siberia.
 m = 5.6 (Up,Ki).
 Underground explosion.

" 5 Ud iP 06 41 06.0
 Kurile Islands (h = 35 km).

" 5 Up iP 20 22 26.1
 Ud iP 20 22 19.8

" 6 Up e(P) 04 43 29
 micr sec
 (P) Z' 0.1 1.2

" 6 Up iP 04 54 06.9
 Ki iP 04 53 57.9
 Ud iP 04 54 20.4 C
 Burma (h = 70 km).

" 6 Ki iP 07 30 09.3 C
 micr sec
 P Z' 0.1 1.2
 Um iP 07 30 54.0
 Svalbard (h = N).

1976

Nov. 6 Up iP 08 08 38.1
 iPP 08 11 23.1
 micr sec
 P Z' 0.2 0.7
 Ki iP 08 08 00.9
 micr sec
 P Z' 0.1 0.9
 Sk iP 08 08 33.1
 ePP 08 11 14
 Um iP 08 08 17.0 D
 Ud iP 08 08 45.3
 De iP 08 08 59.1
 Japan (h = 180 km).
 m = 5.8 (Up,Ki).

" 6 Ud iP 12 50 11.2
 Guatemala (h = 90 km).

" 6 Ki iP 15 10 40.8
 Ud iP 15 11 32.8
 Kurile Islands (h = N).

" 6 ✓ Up iP 18 14 35.7
 i 18 14 38.4
 ipP 18 14 42.3
 iS 18 23 09
 micr sec
 P Z' 0.2 0.7
 i Z' 0.5 1.0
 Mx E 12 17
 Mx N 58 18
 Mx Z 23 16
 Ki iP 18 14 21.9
 i 18 14 24.4
 iS 18 22 44
 micr sec
 P Z' 0.4 1.0
 i Z' 0.6 1.0
 Mx E 23 12
 Mx N 33 14
 Mx Z 20 11
 Sk iP 18 14 47.1
 i 18 14 50.1
 ipP 18 14 53.7
 Um iP 18 14 24.0 D
 i 18 14 26.5
 iS 18 22 46
 Ud iP 18 14 48.3
 ipP 18 14 54.6
 De iP 18 14 52.5
 ipP 18 14 59.7

Szechwan, China.
 h = 20 km (Up,Sk,Ud,De).
 (cont.)

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

1976						1976					
Nov.	6	(cont.) m = 6.6, M = 6.8 (Up,Ki). Double P (Up,Ki,Sk,Um), small and large, average separation, 2.9 sec.				Nov.	7	Um	iP	02 15 40.1	
								Ud	eP	02 15 06	
"	6	Up	iP	19 00 39.3		"	7 ^v	Up	iP	04 08 06.0	
				micr sec					iPP	04 09 32.2	
		P	Z'	0.2 1.4					iS	04 13 54	
		Ki	iP	19 00 25.5							
				micr sec							
		P	Z'	0.1 1.2							
		Sk	eP	19 00 52				Ki	iP	04 08 32.7	
		Um	iP	19 00 27.7						micr sec	
		Ud	iP	19 00 52.3					P	Z'	0.2 1.0
		Szechwan, China (h = N).							Mx	E	29 13
		m = 5.9 (Up,Ki).							Mx	N	116 19
"	6	Up	iP	20 35 04.5					Mx	Z	26 13
		Ki	eP	20 34 48				Sk	iP	04 08 39.8	
		Sk	eP	20 35 17				Um	iP	04 08 13.8	
		Ud	eP	20 35 15					iS	04 14 10	
		Szechwan, China (h = N).						Ud	iP	04 08 22.9 C	
"	6	Up	iP	21 01 41.4					iPP	04 09 55.7	
		Sk	iP	21 02 22.2				De	iP	04 08 12.3	
		Um	i	21 02 29.4					iPP	04 09 39.5	
		Ud	iP	21 01 46.6				Iran (h = 15 km).			
		Italy (h = N).						m = 5.8, M = 6.6 (Up,Ki).			
"	6	Up	iP	21 44 32.0		"	7	Ud	iP	04 59 39.2	
		Ki	iP	21 43 43.2				Off east coast of Kamchatka (h = N).			
		Um	eP	21 44 06		"	7	Ki	iP	05 50 00.9	
		Ud	iP	21 44 38.0				Ud	ipP	05 50 15.8	
"	6	Ud	iP	23 26 46.8				Sumatra (h = 25 km).			
		De	iP	23 26 34.4		"	7	Ki	iP	06 02 27.8 C	
		Iran (h = N).						Sk	iP	06 02 12.3 C	
"	7	Up	iPKP1	00 51 58.4				Um	iP	06 02 01.1 C	
		Ki	iPKP	00 51 49.6				Ud	iP	06 01 49.0 C	
		Um	ePKP1	00 51 51				Red Sea (h = 35 km).			
		Ud	iPKP1	00 51 58.5		"	7	Up	iP	07 22 48.8	
		De	iPKP1	00 52 09.8				Sk	eP	07 22 49	
		Fiji Islands (h = 580 km).						Um	iP	07 22 29.2	
"	7	Up	i(P)	01 23 20.7				Ud	eP	07 22 47	
"	7	Up	iP	02 08 10.9		"	7	Up	iP	08 24 29.6	
		Ki	iP	02 07 57.1				Ki	iP	08 24 14.7	
		Sk	iP	02 08 21.6				Sk	iP	08 24 41.6	
		Um	iP	02 07 59.4				Um	iP	08 24 18.8	
		Ud	eP	02 08 23				Ud	iP	08 24 41.7	
		Probably Szechwan, China.						Szechwan, China (h = N).			

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

1976				1976			
Nov.	7	✓ Up	iP	11 14 30.6 C	Nov.	7	(cont.)
				micr sec		✓ Up	micr sec
			P	Z' 0.3 1.1		P	Z' 0.1 1.0
		Ki	iP	11 15 13.1 C		Mx	E 1.5 19
				micr sec		Mx	N 1.4 16
			P	Z' 0.3 0.9		Mx	Z 2.3 19
		Sk	iP	11 15 08.3 C		Ki	iP
		Um	iP	11 14 47.0 C			21 02 04.0 C
		Ud	iP	11 14 46.4 C			micr sec
		De	iP	11 14 28.3 C		P	Z' 0.4 1.3
		Iran (h = 50 km).				Mx	E 1.7 16
		m = 6.2 (Up,Ki).				Mx	N 1.5 15
						Mx	Z 2.1 16
"	7	Ud	eP	14 50 05		Sk	iP
						Um	iP
							21 02 09.4 C
							iS
							21 12 56
"	7	Ki	iP	15 42 10.7 C		Ud	iP
				micr sec		De	iP
			P	Z' 0.1 1.5			21 02 28.3 C
		Sk	iP	15 42 11.1			21 02 33.6 C
		Off coast of Mexico				Mindanao (h = 30 km).	
		(h = 35 km).				m = 6.3, M = 5.7 (Up,Ki).	
"	7	✓ Up	iP	17 22 07.0	"	7	Ki
			i	17 22 11.5			iP
			iS	17 32 53			
				micr sec			
			P	Z' 0.2 1.2		7	Sk
			i	Z' 0.7 1.5			iPKP1
			Mx	E 23 20			Um
			Mx	N 27 19			iPKP1
			Mx	Z 56 22			Ud
		Ki	iP	17 21 50.2 C			iPKP1
			iS	17 32 27			De
				micr sec			
			P	Z' 0.4 1.2		8	Ki
			Mx	E 38 21			iP
			Mx	N 39 22			Ud
			Mx	Z 34 19			iP
		Sk	iP	17 22 11.9			
			i	17 22 28.6			
		Um	iP	17 21 55.9			
			iS	17 32 42			
		Ud	iP	17 22 16.3 C			
			iPKKP	17 39 24.0			
		De	iP	17 22 23.4			
		Mindanao (h = 60 km).					
		m = 6.7, M = 6.9 (Up,Ki).					
"	7	Ki	eP	20 31 08	"	8	✓ Up
		Sk	iP	20 30 52.4			iP
		Ud	iP	20 30 28.6			i
		Red Sea (h = N).					iPP
							iS
							micr sec
						P	Z' 0.7 1.5
						i	Z' 1.6 1.7
						Mx	E 12 16
						Mx	N 14 19
						Mx	Z 30 17
						Ki	iP
							08 30 09.1 C
							i
							08 30 21.1
							iS
							08 38 52
							micr sec
						P	Z' 2.4 3.0
						i	Z' 3.7 2.6
						Mx	E 16 15
						Mx	N 11 16
						Mx	Z 18 15
"	7	✓ Up	iP	21 02 19.9			
		(cont.)				(cont.)	

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

1976				1976								
Nov.	8	(cont.)		Nov.	8	Up	iP	23 38 10.0				
		Sk	iP			Ki	iP	23 37 56.0				
			i			Sk	iP	23 38 21.5				
			iPP			Ud	iP	23 38 23.0				
		Um	iP			Szechwan, China (h = N).						
			i			"	9	Up	iP	16 07 34.5		
			iS					Ki	iP	16 08 42.4		
		Ud	iP					Sk	iP	16 08 12.4		
			i					Ud	iP	16 07 40.9		
		De	iP					De	iP	16 07 10.0		
			i					Crete (h = 70 km).				
			iPP					"	9	Ud	iP	18 07 22.9
		Japan.						Iran (h = 30 km).				
		h = 40 km (Up,Ki,Sk,Um,Ud,De).										
		m = 6.9, M = 6.4 (Up,Ki).										
"	8	Up	iP	09 17 55.8	"	9	Up	iP	22 56 37.0			
				micr sec				iPP	22 58 15.3			
			P	Z' 0.1 0.5					micr sec			
		Ki	iP	09 17 09.6				P	Z' 0.2 0.9			
				micr sec			Ki	iP	22 56 40.9 D			
			P	Z' 0.2 1.0					micr sec			
		Sk	iP	09 17 45.3				P	Z' 0.2 0.7			
		Um	iP	09 17 29.7			Sk	iP	22 57 01.1 D			
		Ud	iP	09 18 01.9				iPP	22 58 53.8			
		De	iP	09 18 20.0			Um	iP	22 56 32.9 D			
		Sea of Okhotsk (h = 400 km).						iPP	22 58 08.5			
		m = 5.7 (Up,Ki).					Ud	iP	22 56 53.9 D			
								iPP	22 58 34.0			
"	8	Up	iSgl	10 18 30.5			De	iP	22 56 52.0			
		Um	iSgl	10 19 28.9				iPP	22 58 26.4			
		Baltic Sea, 59.6°N, 23.2°E.					Tadzhik-Sinkiang (h = 160 km).					
		Origin time = 10 17 05.					m = 5.8 (Up,Ki).					
		Solution from Helsinki					"	10	Ud	ipP	00 00 41.4	
		regional bulletin.					Gulf of Aden (h = N).					
"	8	Up	iP	11 01 35.1	"	10	Up	iP	02 46 10.4			
			i	11 02 23.4			Ki	i	02 46 07.3			
		Ki	iP	11 01 17.1			Sk	eP	02 46 23			
		Sk	eP	11 01 38			Um	iP	02 45 59.2			
			i	11 02 09.8			Ud	iP	02 46 23.0			
		Um	iP	11 01 23.8			Burma (h = 60 km).					
		Ud	iP	11 01 42.9			"	10	Ki	iP	10 53 42.7	
			i	11 02 16.9			Sinkiang, China (h = 45 km).					
			i	11 02 32.5								
		Mindanao (h = 140 km).					"	10	Up	iP	13 01 29.4	
"	8	Up	iPKP1	18 49 05.0				Ki	iP	13 01 38.7 C		
				micr sec				Um	iP	13 01 27.8 C		
			PKP1	Z' 0.1 1.1					ipP	13 02 12.5		
		Sk	iPKP1	18 48 58.2 C			Ud	iP	13 01 45.6			
		Um	iPKP1	18 48 53.3				ipP	13 02 30.9			
		Ud	iPKP1	18 49 07.2 C			De	iP	13 01 42.5			
		De	iPKP1	18 49 15.6			Hindu Kush.					
			i	18 49 27.5			h = 220 km (Um,Ud).					
		Kermadec Islands (h = N).										

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

1976

Nov. 10 Up iSgl 13 49 47.5
 Sk iSgl 13 50 33.2
 Ud iSgl 13 48 56.1
 De i 13 49 11.4
 iSgl 13 49 14.6
 Coast of Bohuslän, Sweden,
 near 58 1/2°N, 11°E.
 Origin time = 13 47 57.
 $M_L = 2.0$ (Ud,De).
 Probably explosion.

" 10 Up iSgl 13 52 09.2
 Sk i 13 52 49.2
 iSgl 13 52 54.7
 Ud iPn 13 50 45.5
 iSgl 13 51 18.0
 De iSgl 13 51 36.5
 Same location as the preceding
 event.
 Origin time = 13 50 19.
 $M_L = 2.2$ (Ud,De).
 Probably explosion.

" 10 Sk eSgl 14 32 40
 Ud eSgl 14 32 15
 De eSgl 14 33 20
 i 14 33 26.8
 Southwest Norway,
 60.4°N, 7.4°E.
 Origin time = 14 30 39.
 $M_L = 2.5$ (Ud).
 By combination with Bergen
 readings.

" 10 Ud i(PKP) 15 08 16.8
 De iPKP1 15 08 30.5
 Tonga-Kermadec Islands
 (h = 540 km).

" 10 Ud iP 15 13 15.8

" 10 Up iP 16 20 40.3
 Ki iP 16 20 09.8
 Um iP 16 20 23.2
 Ud iP 16 20 47.6

" 10 Up iP 17 41 29.3
 micr sec
 Mx E 1.1 19
 Mx N 1.0 18
 Mx Z 2.2 20
 Ki iP 17 41 10.1
 i 17 41 23.1
 (cont.)

1976

Nov. 10 (cont.)
 Ki micr sec
 Mx E 1.0 19
 Mx N 1.1 17
 Mx Z 1.4 20
 Sk iP 17 41 32.1
 Um iP 17 41 16.0
 i 17 41 29.4
 iS 17 52 12
 Ud iP 17 41 36.1
 Mindanao.
 h = 45 km (Ki,Um).
 M = 5.5 (Up,Ki).

" 10 Ki iP 17 57 56.2
 Sk iP 17 58 17.8
 Um iP 17 58 02.1
 Ud iP 17 58 22.4
 Mindanao (h = 35 km).

" 10 Ud iP 18 31 35.7
 TadzhiK-Sinkiang (h = 55 km).

" 10 Up i 19 01 23.1
 Ki iP 19 00 54.3
 Sk iP 19 01 16.2
 Ud iP 19 01 20.3
 Mindanao (h = 55 km).

" 11 Up iP 02 27 41.5
 micr sec
 P Z' 0.1 1.0
 Ki iP 02 27 44.1 C
 iP 02 27 56.5
 micr sec
 P Z' 0.2 0.6
 Sk iP 02 28 04.7 C
 iP 02 28 17.7
 iPP 02 29 42.7
 Um iP 02 27 36.2 C
 Ud iP 02 27 58.1 C
 De iP 02 27 56.7
 TadzhiK-Sinkiang.
 h = 50 km (Ki,Sk).
 m = 5.9 (Up,Ki).

" 11 √Up iP 03 29 05.8
 iS 03 39 50
 micr sec
 P Z' 0.2 1.5
 Mx E 1.2 21
 Mx Z 1.4 21
 Ki iP 03 29 06.8
 micr sec
 P Z' 0.3 1.5
 (cont.)

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

1976				1976				
Nov.	11	(cont.)		Nov.	12	Um	iP	13 23 35.8
		Sk	iP			Ud	iP	13 24 02.7
		Um	iP			China (h = N).		
			iS					
		Ud	iP	"	12✓	Up	iP	14 54 06.9
		De	eP					micr sec
		Panama (h = N).					P	Z' 0.1 1.0
		m = 6.5 (Up,Ki).					Mx	E 1.8 16
"	11	Ud	iP				Mx	N 3.6 17
		Molucca Passage (h = N).					Mx	Z 8.7 19
"	11	Sk	eP			Ki	eP	14 53 17
		Ud	iP					micr sec
			i				P	Z' 0.2 1.0
"	11	Ud	iP				Mx	E 5.0 13
		Mindanao (h = 100 km).					Mx	N 3.2 17
"	11	Ud	iP				Mx	Z 4.9 20
		Crete (h = N).				Sk	iP	14 53 27.9
"	11	Ud	iP			Um	iP	14 53 44.2
		Windward Islands (h = 140 km).				Ud	iP	14 53 56.1 C
"	11	Ud	iP				i	14 54 01.6
		Kurile Islands (h = 80 km).				De	iP	14 54 22.3
"	11	Ud	iP				i	14 54 45.4
		Baffin Bay (h = N).				m = 5.7, M = 5.3 (Up,Ki).		
"	11	Ud	i(P)	"	12	Sk	i	19 41 55.0
		Italy (h = N).					i	19 42 14.7
"	12	Ud	iP			Ud	iP	19 41 13.6
		Aegean Sea (h = 25 km).					i	19 41 22.7
"	12	Ud	i(P)			Italy (h = N).		
"	12	Up	iP	"	12	Ki	iP	20 47 10.4
		Um	iP			Ud	eP	20 47 04
		Ud	eP	"	12	Up	iP	21 37 41.0
		De	iP			Ki	iP	21 37 26.8
		Szechwan, China (h = N).				Um	iP	21 37 26.5
"	12	Up	eP			Ud	eP	21 37 53
						Fiji Islands (h = 600 km).		
		Mx	E	"	12	Up	ePKP1	23 20 02
		Mx	N			Ud	iPKP1	23 20 01.4
		Mx	Z			De	iPKP1	23 20 12.6
		Ki	e	"	13	Up	iP	05 25 15.1
						Ud	eP	05 25 18
						Italy (h = 10 km).		
				"	13	Up	iP	06 15 09.6 C
								micr sec
							P	Z' 0.2 1.2
						Ki	iP	06 16 18.9
								micr sec
							P	Z' 0.2 1.2
						(cont.)		

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

1976

Nov. 13 (cont.)
 Sk iP 06 15 48.1 C
 Um iP 06 15 43.1
 Ud iP 06 15 16.2 C
 De iP 06 14 42.1 C
 Crete (h = 30 km).
 m = 5.8 (Up,Ki).

" 13 Up iP 09 43 48.2
 Ki iP 09 42 17.9
 iTPg 09 47 17.5
 P Z' 0.1 1.0
 Sk iP 09 42 54.0
 iS 09 44 35.4
 Um iP 09 43 06.2
 Ud iP 09 43 41.2
 i 09 43 56.9
 De iP 09 44 31.7
 Norwegian Sea,
 72.4°N, 6.7°E.
 Origin time = 09 40 43.

" 13 Sk iP 10 19 31.3
 Ud i 10 19 20.1
 Iran (h = N).

" 13 Up iP 10 20 18.4
 Ki iP 10 20 48.9
 Sk iP 10 20 50.7
 Um iP 10 20 29.4
 Ud iP 10 20 32.7
 De iP 10 20 19.4
 Iran (h = N).

" 13 Ud iP 16 14 25.2
 Philippine Islands (h = N).

" 13 Ud iP 19 00 34.7

" 13 Ki iP 21 31 45.9
 iTSg 21 37 05.5
 Sk eP 21 32 21
 iS 21 34 03.9
 Um iP 21 32 33.8
 Ud iP 21 33 10.7
 Greenland Sea (h = N).

" 14 Up Mx 04 55
 micr sec
 Mx E 1.1 14
 Mx Z 2.1 13
 Ryukyu Islands (h = 60 km).

" 14 Up iP (cont.) 05 22 07.7

1976

Nov. 14 (cont.)
 Up i 05 22 14.3
 Ud iP 05 22 15.1
 i 05 22 23.2

" 14 Up iP KP 13 46 30.1 C
 Ki iP KP 13 46 45.6
 Sk ePKP 13 46 40
 Um iP KP 13 46 38.4 C
 Ud iP KP 13 46 28.6 C
 South Sandwich Islands
 (h = 100 km).

" 14 Up iP 13 56 29.1
 Ud iP 13 56 31.7

" 14 Up iP 17 22 24.8
 Ki iP 17 21 45.8
 Sk eP 17 22 19
 Um iP 17 22 02.7
 Ud iP 17 22 32.2
 Japan (h = 45 km).

" 15 Up iP 03 25 31.3
 Ki iP 03 24 41.3
 Sk iP 03 25 18.8
 Um iP 03 25 03.9
 Ud iP 03 25 35.2
 Kurile Islands (h = 50 km).

" 15 Up eP 07 18 07 C
 Ki iP 07 18 34.8 C
 Sk iP 07 18 07.9
 Um iP 07 17 47.8
 Ud iP 07 18 14.5
 Japan (h = 60 km).

" 15 Up iP 08 09 56.4
 i 08 10 03.2
 micr sec
 P Z' 0.1 0.9
 i Z' 0.1 1.0
 Ki iP 08 10 38.7 C
 micr sec
 P Z' 0.2 0.9
 Sk iP 08 10 33.8
 Um iP 08 10 12.8 C
 Ud iP 08 10 11.5
 i 08 10 20.4
 iP 08 11 21.0
 De eP 08 09 54 C
 Iran (h = 50 km).
 m = 5.9 (Up,Ki).

" 15 Up iSgl (cont.) 09 50 06.6

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

1976				1976			
Nov.	15	(cont.)		Nov.	15	Ki iP	18 18 56.4
		Ki eSgl	09 52 07			Japan (h = 40 km).	
		Sk i	09 48 22.5	"	16	Um iP	02 31 40.4
		eSgl	09 49 22			Guatemala (h = 90 km).	
		Um iSgl	09 50 57.9	"	16	Up iP	13 02 04.2
		Ud iPgl	09 48 01.3			Sk iP	13 02 39.1
		iSgl	09 49 00.8			Um iP	13 02 26.8
		De i	09 49 27.8			Ud iP	13 02 16.4
		iSgl	09 49 49.6			Red Sea (h = N).	
		Off coast of southwest Norway, 60.1°N, 4.5°E.		"	16	Ki iP	13 33 20.2
		Origin time = 09 46 41.				Mariana Islands (h = 110 km).	
		M _L = 3.3 (Up,Sk,Um,Ud).		"	16	De iP	15 53 18.8
"	15	Up iP	10 26 02.0			Fiji Islands (h = 560 km).	
		Ki iP	10 25 23.6 C	"	16	Ud iP	15 56 03.4
		Sk iP	10 25 56.1	"	16	Up Mx	19 27
		Um iP	10 25 40.1 C			micr sec	
		Ud iP	10 26 07.1			Mx E	0.7 18
		Japan (h = 30 km).				Mx N	3.2 20
"	15	Ud iP	12 57 42.8			Mx Z	3.3 20
		Kirgiz SSR (h = 35 km).				Ki Mx	19 30
"	15	Up iP	14 03 16.5 D			micr sec	
		iS	14 11 36			Mx E	4.1 22
		micr sec				Mx N	3.2 19
		P Z'	1.8 1.8			Mid-Indian Ocean (h = N).	
		Mx E	24 12			M = 6.0 (Up,Ki).	
		Mx N	51 13	"	17	Up iP	05 44 00.6
		Mx Z	62 12			i	05 44 10.9
		Ki iP	14 02 44.5 D			iP	05 44 27.1
		iS	14 10 36			Ki iP	05 43 08.0
		micr sec				Sk iP	05 43 48.4
		P Z'	1.1 1.8			Um iP	05 43 35.5
		Mx E	55 14			iP	05 43 01.2
		Mx N	62 12			Ud iP	05 44 05.7
		Mx Z	44 14			i	05 44 16.3
		Sk iP	14 03 18.3 D			iP	05 44 32.9
		Um iP	14 02 56.7 D			De iP	05 44 25.2
		ipP	14 03 03.3			Kamchatka.	
		iS	14 11 00			h = 110 km (Up,Um,Ud).	
		Ud iP	14 03 27.6 D	"	17	Up iP	06 08 48.3
		ipP	14 03 34.2			Ud iP	06 09 04.2
		De iP	14 03 39.8 D			Sinkiang, China (h = N).	
		China.		"	17	Ud iP	09 55 27.4
		h = 20 km (Um,Ud).				De iP	09 55 37.9
		m = 6.7, M = 7.0 (Up,Ki).				Tonga-Kermadec Islands	
"	15	Up eP	14 24 58			(h = 680 km).	
		micr sec					
		P Z'	0.1 1.2				
		Ud iP	14 25 05.4 D				
		Kurile Islands (h = 150 km).					

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

1976

Nov. 17 Ud iP 11 03 50.5
De eP 11 03 36

" 17 Up i(P) 14 46 32.1

" 17 ✓ Up iP 17 30 46.4 C
iPP 17 32 22.9
micr sec
P Z' 1.0 1.1
Ki iP 17 30 54.9 C
ipP 17 31 43.0
micr sec
P Z' 1.1 1.0
Sk iP 17 31 11.7 C
ipP 17 32 00.0
Um iP 17 30 44.6 C
ipP 17 31 32.6
Ud iP 17 31 03.0 C
ipP 17 31 52.6
De iP 17 30 59.3 C
ipP 17 31 48.5

Afghanistan-USSR.

h = 240 km (Ki,Sk,Um,Ud,De).

m = 6.3 (Up,Ki).

" 18 ✓ Up iPKP 03 42 49.3
ipPKP 03 42 55.4
iPP 03 44 18.5
iPKKP 03 53 02.6
micr sec
pPKP Z' 0.1 1.0
PP Z' 0.5 1.8
PKKP Z' 0.1 1.6
Mx E 4.2 20
Mx N 6.7 18
Mx Z 8.0 24
Ki i 03 42 43.4
i(PP) 03 43 28.7
iPP 03 43 41.5
micr sec
PP Z' 0.4 2.0
Mx E 6.0 18
Mx N 8.4 16
Mx Z 10 21
Sk iPKP 03 42 47.4
i 03 43 18.2
Um iPKP 03 42 43.0
ipPKP 03 42 48.7
iPP 03 43 53.4
Ud iPKP 03 42 52.3
ipPKP 03 42 57.2
iPP 03 44 25.4
De iPKP 03 42 57.0
iPP 03 44 40.7
(cont.)

1976

Nov. 18 (cont.)
Solomon Islands.
h = 15 km (Up,Um,Ud).
m = 6.9, M = 6.4 (Up,Ki).

" 18 ✓ Up iP 05 57 57.9
i 05 58 01.6
ipP 05 58 04.1
e(PP) 06 02 03
iPP 06 02 30.7
iS 06 09 52
micr sec
PP Z' 0.1 1.3
Mx E 5.8 18
Mx N 7.9 20
Mx Z 12 20
Ki iP 05 57 38.5
ipP 05 57 43.9
micr sec
pP Z' 0.1 1.0
Mx E 13 21
Mx N 10 19
Mx Z 10 19
Um iP 05 57 45.8
ipP 05 57 51.7
iPP 06 02 03.8
iS 06 09 30
Ud iP 05 58 06.1
ipP 05 58 11.8
i(PP) 06 02 12.5
iPP 06 02 36.5
De eP 05 58 14
i(PP) 06 02 18.1
iPP 06 02 52.7
West Irian.
h = 20 km (Up,Ki,Um,Ud).
M = 6.5 (Up,Ki).

" 18 Sk i(P) 10 53 08.2

" 18 Sk i(P) 11 33 19.8
i 11 33 22.4

" 18 Sk i(P) 11 34 57.9

" 18 Up iP 12 14 27.8
i 12 14 36.3
Ud iP 12 14 39.6
De eP 12 14 00
i 12 14 14.0
Greece (h = 70 km).

" 18 Up i 12 45 43.6
Ud iP 12 45 38.4
(cont.)

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

1976

Nov. 18 (cont.)
De eP 12 45 01
i 12 45 05.9
Greece (h = 60 km).

" 18 Up i 14 25 08.1
iRg 14 25 10.4
Ud i 14 25 21.9
iRg 14 25 25.3
East-central Sweden.
Near-surface event.

" 18 Ud iP 16 13 13.5

" 18 Up iP 21 46 32.7
Um iP 21 46 14.3 D
Ud iP 21 46 39.8
De iP 21 46 52.4
Japan (h = 460 km).

" 19 Ud i(P) 04 20 41.2

" 19 Ud iSgl 10 19 50.1
De iSgl 10 21 09.7

" 19 Um iP 15 25 12.6
Japan (h = 45 km).

" 19 Ud iP 18 06 21.4

" 19 Ud iP 18 23 23.9
Taiwan (h = 70 km).

" 19 Um iP 20 14 11.2

" 19 Up iP 21 57 09.5
Ki iP 21 57 08.2
Sk iP 21 57 22.7
Um iP 21 57 06.2
Ud iP 21 57 18.8
De iP 21 57 17.6
Sumatra (h = 120 km).

" 19 Up iPKP1 23 48 30.6
Um i 23 48 35.6
Ud iPKP1 23 48 32.0
De iPKP1 23 48 43.7 C
Fiji Islands (h = 570 km).

" 20 Up iP 01 30 45.8

" 20 Up i 04 27 14.7
(cont.)

1976

Nov. 20 (cont.)
Sk i 04 27 46.4
Um iP 04 27 10.2
Ud iP 04 27 28.1
i 04 27 37.0
Hindu Kush (h = 35 km).

" 20 Ud eP 10 11 57

" 20 Up iP 12 06 25.6
i 12 06 28.0
micr sec
P Z' 0.1 1.3
Ki i 12 06 57.3
micr sec
i Z' 0.1 1.0
Ud i 12 06 11.9
Azores Islands (h = N).
m = 5.4 (Up,Ki).

" 20 Ud iP 12 41 22.7

" 20 Ud iPKP1 17 54 43.0 C
De iPKP1 17 54 54.6 C
i 17 54 55.9
Tonga-Kermadec Islands
(h = 590 km).

" 21 Up iPKP1 06 28 23.6 C
micr sec
PKP1 Z' 0.1 0.8
Ud iPKP1 06 28 25.4 C
Tonga-Kermadec Islands
(h = 40 km).

" 21 Ki iP 12 55 15.1
Mariana Islands (h = 130 km).

" 21 ✓ Up iP 17 47 43.2 D
iPP 17 51 30.7
micr sec
P Z' 0.1 0.8
PP Z' 0.2 1.3
Ki iP 17 47 26.6 D
micr sec
P Z' 0.2 1.0
Um iP 17 47 31.5 D
Ud iP 17 47 51.7 D
Halmahera (h = 80 km).
m = 6.0 (Up,Ki).

" 21 Ud iP 23 35 12.5

" 22 Um iP 13 16 59.7 C
Ud iP 13 17 30.3 C
Japan (h = 10 km).

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

1976				1976							
Nov.	22	De	i(P)	14 30 13.0	Nov.	23	(cont.)				
"	22	De	i(P)	14 32 06.3			Up				
"	22	Up	iP	15 27 59.6			P1	Z'	0.5	1.1	
		Ki	iP	15 27 32.9			Ki	iP2	10 56 21.2		
			i	15 27 47.4				ipP2	10 56 32.5		
		Um	iP	15 27 43.6					micr	sec	
		Mariana Islands (h = 250 km).					Sk	P2	Z'	0.2	1.0
"	22	Up	iPKP1	18 26 14.4			Sk	iP2	10 56 57.7		
			iSKP1	18 29 05.1				ipP2	10 57 08.9		
		Ki	iPKP	18 26 08.8			Um	iP2	10 56 46.4		
			iSKP1	18 28 42.0				ipP2	10 56 56.4		
				micr	sec		Ud	iP1	10 57 17.4		
			SKP1	Z'	0.1	1.2		iP2	10 57 18.0		
		Um	iPKP1	18 26 09.3				ipP2	10 57 27.8		
			iSKP1	18 28 53.7			De	iP2	10 57 38.8		
		Ud	iPKP1	18 26 17.0				ipP2	10 57 48.7		
			iSKP1	18 29 06.4			Kamchatka.				
		De	iPKP1	18 26 28.3 C			h = 35 km (Ki,Sk,Um,Ud,De).				
		Fiji Islands (h = 580 km).				"	23	Up	eP	16 35 17	
"	22	Up	iP	19 49 35.6			Ki	iP	16 36 21.2		
		Ki	iP	19 50 00.9					micr	sec	
				micr	sec			P	Z'	0.1	0.60
			P	Z'	0.1	1.0	Sk	eP	16 35 55		
"	23	Up	iP	03 30 24.0			Ud	iP	16 35 24.3		
		Um	iP	03 30 06.8				i	16 35 26.0		
		Ud	iP	03 30 26.8			De	iP	16 34 53.6		
		De	iP	03 30 35.3			Eastern Mediterranean Sea (h = 40 km).				
"	23	Up	iP	05 09 54.9 C			"	24	Ki	iP	04 07 43.7
			iPn	05 11 00.6					Ud	iP	04 07 55.4
			iPP	05 11 13.7			Tibet-India (h = 60 km).				
				micr	sec	"	24	Ud	i(P)	09 02 22.9	
			P	Z'	1.3	1.0	"	24	Up	i(P)	09 24 26.7
		Ki	iP	05 09 38.5 C			"	24	Ud	iSgl	11 19 41.1
				micr	sec			De	eSgl	11 20 01	
			P	Z'	0.9	0.8	"	24	Up	iP	12 27 54.9
		Sk	iP	05 10 10.0 C					iS	12 32 26.7	
			iPn	15 11 33.0						micr	sec
		Um	iP	05 09 39.4 C				P	Z'	5.9	1.5
			iPn	05 10 41.7				Mx	E	266	18
		Ud	iP	05 10 11.5 C				Mx	N	657	24
		De	iP	05 10 18.7 C				Mx	Z	570	27
			i	05 11 19.0			Ki	iP	12 28 39.1		
			iPn	05 11 41.1					micr	sec	
		Kazakh SSR.						P	Z'	2.3	1.0
		Origin time = 05 03 00.						Mx	E	362	17
		m = 6.8 (Up,Ki).						Mx	N	532	21
		Underground explosion.						Mx	Z	378	15
"	23	Up	iP1	10 57 13.4			Sk	iP	12 28 33.3		
			iP2	10 57 13.9			(cont.)				
		(cont.)									

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

1976

Nov. 24 (cont.)
Um iP 12 28 11.5
Ud iP 12 28 10.4
De iP 12 27 52.3
Iran-USSR (h = 35 km).
m = 7.0, M = 7.3 (Up,Ki).

" 24 Up iP 12 36 18.8
micr sec
P Z' 0.7 1.7
Ki iP 12 37 00.8
micr sec
P Z' 0.2 1.0
Um iP 12 36 34.3
Ud iP 12 36 34.1
De iP 12 36 14.9
Turkey (h = N).
m = 6.0 (Up,Ki).

" 24 ✓ Up iP 12 42 21.6
micr sec
P Z' 0.5 1.3
Ki iP 12 43 06.2
micr sec
P Z' 0.5 1.0
Um iP 12 42 39.2
Ud iP 12 42 37.4
De iP 12 42 20.7
Iran-USSR (h = N).
m = 6.2 (Up,Ki).

" 24 Up iP 13 23 42.6
Ki iP 13 24 28.7
Ud iP 13 23 58.9 C
De iP 13 23 41.2
Turkey (h = N).

" 24 Ki iP 14 17 34.5
Ud iP 14 17 06.6
De iP 14 16 48.9
Turkey (h = N).

" 24 Up i 15 09 42.4
i 15 09 44.9
Ki iP 15 10 22.8
micr sec
P Z' 0.1 1.1
Ud iP 15 09 54.2
i 15 09 58.3
De iP 15 09 35.5
i 15 09 41.2
Turkey (h = 40 km).

1976

Nov. 24 Up iPn 15 16 59.6
micr sec
Pn Z' 0.1 1.0
Ki iP 15 17 26.2
micr sec
P Z' 0.2 1.3
Sk iPn 15 18 06.4
Um iP 15 16 58.7
Ud iP 15 16 57.6
De iP 15 16 39.9
Iran-USSR (h = 40 km).
m = 5.6 (Up,Ki).

" 24 ✓ Up iP 16 19 54.0
i 16 19 57.0
ipP 16 20 07.2
i 16 20 19.0
micr sec
P Z' 0.3 1.1
pP Z' 0.6 1.1
i Z' 0.5 1.1
Ki iP 16 19 01.6
i 16 19 03.3
ipP 16 19 14.1
i 16 19 25.5
micr sec
P Z' 0.1 0.8
pP Z' 0.3 1.0
i Z' 0.2 1.1
Sk iP 16 19 38.0
i 16 19 40.1
ipP 16 19 52.0
Um iP 16 19 27.4
i 16 19 28.7
ipP 16 19 39.1
i 16 19 49.7
Ud iP 16 19 58.4
i 16 20 00.7
ipP 16 20 12.0
i 16 20 21.4
De iP 16 20 19.5
i 16 20 23.7
ipP 16 20 31.5
i 16 20 43.4

Kamchatka.
h = 45 km (Up,Ki,Sk,Um,Ud,De).
m = 6.4 (Up,Ki).

" 24 Ki eP 16 47 27
Ud iP 16 46 57.7
De iP 16 46 38.4
Caucasus.

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

1976

Nov. 25 (cont.)
 Sk iSKP1 14 27 56.3
 Um i(PKP) 14 24 47.4
 i(PKP) 14 24 52.3
 i(PKP) 14 24 54.2
 iPKP 14 25 01.2
 iSKP1 14 27 51.1
 Ud i(PKP) 14 24 59.3
 iPKP1 14 25 01.5
 iSKP1 14 28 04.7
 iSKKP 14 36 47.6
 De i(PKP) 14 25 11.9
 iPKP1 14 25 12.7
 iSKP1 14 28 14.8
 iSKKP 14 36 34.2
 Fiji Islands (h = 440 km).

" 25 Up iP 15 12 03.7
 Ki iP 15 12 07.1
 Sk iP 15 11 51.6
 Um iP 15 12 07.7
 Ud iP 15 11 54.4
 De iP 15 11 56.2
 Colombia (h = 200 km).

" 25 Up iPKP1 16 31 45.8
 micr sec
 PKP1 Z' 0.1 0.7
 Ki iPKP 16 31 30.7
 Sk iPKP1 16 31 37.8
 Um iPKP1 16 31 33.2
 Ud iPKP1 16 31 48.1
 De iPKP1 16 31 56.9
 Kermadec Islands (h = 80 km).

" 26 Up iPKP1 00 54 51.8
 micr sec
 PKP1 Z' 0.1 0.8
 Ki iPKP1 00 54 32.1
 ePKP 00 54 37
 Sk iPKP1 00 54 44.8
 i 00 54 53.3
 Um iPKP1 00 54 39.4
 Ud iPKP1 00 54 53.5
 De iP 00 55 02.6
 Kermadec Islands (h = N).

" 26 De iPKP 10 11 29.1
 New Britain (h = 190 km).

" 26 Ud i(P) 10 26 16.3

" 26 Ki iPKP 11 26 45.5
 Um iP 11 26 51.5
 New Hebrides Islands
 (h = 25 km).

1976

Nov. 26 Up iP 11 31 04.7
 i 11 31 09.9
 iS 11 40 42
 micr sec
 P Z' 0.1 1.0
 i Z' 0.3 1.0
 Mx E 17 19
 Mx N 40 17
 Mx Z 49 17
 Ki iP 11 30 24.8
 i 11 30 26.2
 i 11 30 30.7
 iS 11 39 30
 micr sec
 P Z' 0.6 2.0
 i Z' 1.3 2.3
 Mx E 21 14
 Mx N 21 15
 Mx Z 25 14
 Sk iP 11 30 37.7
 i 11 30 39.6
 i 11 30 43.7
 Um iP 11 30 47.0
 i 11 30 47.9
 i 11 30 52.0
 iS 11 40 12
 Ud iP 11 30 57.6
 i 11 30 58.8
 i 11 31 03.2
 De i 11 31 18.1
 i 11 31 21.5
 California (h = 15 km).
 m = 6.5, M = 6.7 (Up,Ki).

" 26 Up i(P) 13 06 58.0

" 26 Ud iP 21 15 42.2 C
 Hindu Kush.

" 26 Ki iP 21 24 38.1
 Iran-USSR (h = 70 km).

" 27 De iP 02 15 05.1
 Dodecanese Islands (h = N).

" 27 Up ePKP1 04 18 27
 Ki iPKP 04 18 11.6
 iSKP1 04 20 42.0
 micr sec

 SKP1 Z' 0.1 1.1
 Sk iSKP1 04 20 59.5
 Um iSKP1 04 20 54.0
 Ud iPKP1 04 18 18.9
 iPKP 04 18 29.2
 iSKP1 04 21 09.7
 De iPKP1 04 18 26.8
 Fiji Islands (h = 580 km).

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

1976				1976						
Nov.	27	Up	iP	04 25 06.6	Nov.	27	Sk	iP	18 17 54.4	
		Ki	iP	04 24 48.5			Um	iP	18 18 11.6	
		Um	iP	04 24 56.0			Panama (h = N).			
		Ud	iP	04 25 14.4						
		Mindoro (h = 60 km).				"	27	Um	iPKP	18 43 39.6
								i	18 43 46.1	
"	✓ 27	Up	iP	04 45 14.0 C			Ud	i(PKP)	18 43 20.7	
			ipP	04 45 21.5				iPKP	18 43 29.5	
				micr sec				i	18 43 36.9	
		P	Z'	0.1 1.0			Falkland Islands (h = N).			
		pP	Z'	0.1 1.0						
		Ki	iP	04 45 52.7 C		"	27	Ki	iP	18 50 57.3
				micr sec				Sk	iP	18 50 23.2
		P	Z'	0.1 1.0				Ud	iP	18 49 51.3
		Sk	iP	04 45 20.1				i	18 49 57.2	
		Um	iP	04 45 36.9 C			Ionian Sea (h = N).			
			ipP	04 45 43.7						
		Ud	iP	04 45 06.4 C		"	27	✓ Up	iP	21 49 37.6 C
		De	iP	04 44 50.5 C				ipP	21 50 19.4	
			i	04 45 06.9				iS	21 55 36	
		Central Atlantic Ocean.							micr sec	
		h = 25 km (Up,Um).						P	Z' 5.0 1.0	
		m = 5.9 (Up,Ki).					Ki	iP	21 49 46.7 C	
								ipP	21 50 28.0	
"	27	Um	iP	06 28 20.4				iS	21 55 49	
		Ud	iP	06 28 49.6					micr sec	
		Japan (h = 220 km).						P	Z' 3.6 1.1	
"	27	Up	i	10 01 38.0			Sk	iP	21 50 03.7 C	
			iRg	10 01 42.6				iPP	21 51 48.0	
		Ud	iRg	10 01 30.0			Um	iP	21 49 36.4	
		Central Sweden.						ipP	21 50 17.1	
		Near-surface event.						iS	21 55 32	
"	27	Up	iPKP1	12 32 23.2			Ud	iP	21 49 54.6 C	
			iSKP1	12 35 11.9				ipP	21 50 36.5	
				micr sec			De	iP	21 49 51.0 C	
		SKP1	Z'	0.1 1.5			Afghanistan-USSR.			
		Um	iSKP1	12 35 00.5			h = 200 km (Up,Ki,Um,Ud).			
		Ud	iPKP1	12 32 25.1			m = 6.9 (Up,Ki).			
			iSKP1	12 35 13.1		"	28	Ud	iP	02 44 19.9
		De	iPKP	12 32 35.4		"	28	Ud	i(P)	10 14 18.9
			ipPKP1	12 32 36.5		"	28	Ud	eP	12 05 50
		Tonga-Kermadec Islands					Caucasus (h = 60 km).			
		(h = 590 km).				"	28	Up	iP	13 04 29.8
"	27	Up	iP	15 19 47.2			Ki	iP	13 03 48.7	
		Ud	iP	15 20 04.2			Sk	iP	13 04 22.3	
		Afghanistan-USSR (h = 110 km).					Um	iP	13 04 06.4	
"	27	Up	iP	15 41 36.4			Ud	iP	13 04 37.8	
		Sk	iP	15 42 16.2			Japan (h = 15 km).			
		Ud	iP	15 41 44.3						
		Ionian Sea (h = N).				"	28	Ud	iP	15 22 00.5
							Ionian Sea (h = N).			

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

1976				1976					
Nov.	28	Ki	iP	16 13 22.9	Nov.	29	(cont.)		
		Um	iP	16 13 29.9			Ud	iP	17 21 39.2
		Ud	iP	16 13 57.1				i	17 21 44.5
"	28	Up	iP	19 30 18.0 C				i	17 22 06.4
				micr sec			De	iP	17 21 06.4
			P	Z' 0.1 0.9				i	17 21 12.0
		Ki	iP	19 31 30.7			Crete (h = 45 km).		
			ipP	19 31 38.3	"	30	Up	iP	00 55 12.1
				micr sec				i(PP)	00 58 12.4
			P	Z' 0.1 1.0				i(PP)	00 59 14.4
		Sk	iP	19 30 56.7 C				iPP	00 59 25.3
		Um	iP	19 30 57.5				i	01 05 12.8
			ipP	19 31 03.9				iPKKP	01 10 55.6
		Ud	iP	19 30 23.6 C				i	01 11 04.7
			ipP	19 30 30.1				iP'P'	01 19 02.6
		De	iP	19 29 47.3 C					micr sec
		Ionian Sea.						P	Z' 1.9 2.5
		h = 25 km (Ki,Um,Ud).						PP	Z' 8.1 2.5
		m = 5.5 (Up,Ki).						Mx	E 64 24
"	28	Ud	iP	20 46 43.6				Mx	N 87 25
		Uzbek SSR (h = N).						Mx	Z 86 21
"	28	Ud	eP	21 47 45			Ki	iP	00 55 24.9
"	29	Up	iP	06 25 33.6				i(PP)	00 59 36.0
				micr sec				iPKKP	01 10 31.3
			P	Z' 0.3 1.5				i	01 10 41.6
"	29	Up	iP	08 26 59.3				i	01 10 52.9
		Ki	iP	08 26 16.2				(PP)	Z' 1.5 2.3
		Sk	iP	08 26 51.4				Mx	E 80 21
		Um	iP	08 26 35.6				Mx	N 39 20
		Ud	iP	08 27 06.3				Mx	Z 55 21
		De	iP	08 27 22.5			Sk	iP	00 55 05.8
		Japan (h = 70 km).						i	00 55 09.5
"	29	Up	iP	10 12 28.8				i	00 56 07.2
			i	10 12 41.1				i(PP)	00 57 59.9
				micr sec				i(PP)	00 59 06.1
			P	Z' 0.1 1.1				iPKKP	01 10 42.9
			i	Z' 0.1 1.2				i	01 10 53.5
"	29	Ki	ipP	13 14 37.6				iP'P'	01 19 06.2
		Sk	ipP	13 14 15.3			Um	iP	00 55 21.1
		Ud	iP	13 13 56.4				i	00 56 08.1
			ipP	13 14 18.6				i(PP)	00 59 31.1
		De	iP	13 13 54.4				iPKKP	01 10 32.0
		Windward Islands.						i	01 10 42.4
		h = 90 km (Ud).					Ud	iP'P'	01 18 59.1
"	29	Up	iP	17 21 32.5			Ud	iP	00 55 03.7
		Ki	iP	17 22 38.9				i(PP)	00 58 07.0
		Sk	iP	17 22 13.3				i(PP)	00 59 03.4
		(cont.)						iPP	00 59 08.5
								iPKKP	01 11 01.3
								i	01 11 14.0
							De	iP	00 54 58.6
								i(PP)	00 58 00.7
								iPP	00 59 00.2
							(cont.)		

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

1976

Nov. 30 (cont.)
 De iPKKP 01 11 06.0
 i 01 11 18.2
 iP'P' 01 19 04.8
 Chile-Bolivia (h = 80 km).
 M = 7.3 (Up,Ki).
 P-arrivals are consistently
 12 s delayed when related to
 the NEIS solution.

" 30 Um iPKP 08 15 22.5
 New Hebrides Islands
 (h = 55 km).

" 30 Ud eP 11 28 42

" 30 Up iPKP1 13 51 33.0
 Sk iPKP1 13 51 23.0
 Um iPKP1 13 51 18.0
 Ud iPKP1 13 51 31.3
 De iPKP1 13 51 44.1

" 30 Ud iP 19 53 13.2

Conny Holmqvist
 Ota Kulhánek
 Klaus Meyer
 Rutger Wahlström

July 3, 1978



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

D E C E M B E R 1 - 31, 1976

1976	1976
Dec. 1	Dec. 2 (cont.)
Up iP 05 12 09.4	Ki micr sec
Sk iP 05 12 44.7	i Z' 0.1 1.0
Um iP 05 12 32.0	Sk iP 01 31 19.3 D
Ud iP 05 12 20.0	i 01 31 25.9
Red Sea (h = N).	Um iP 01 31 02.6 D
" 1 Um iP 08 11 19.6	i 01 31 10.0
" 1 Ki iP 09 09 20.8	Ud iP 01 31 29.6 D
Ud iP 09 09 35.4	i 01 31 37.1
Tadzhik-Sinkiang (h = N).	i 01 31 55.7
" 1 Ki iP 12 07 52.8	De iP 01 31 42.9 D
Ud iP 12 07 33.0	i 01 31 49.3
Iran (h = 45 km).	Japan (h = 35 km).
" V1 Up iP 14 28 22.3	m = 6.0 (Up,Ki).
	Double P, in average 6.9 sec
	apart.
	" 2 Ki iP 05 46 09.6
	Sk iP 05 45 50.7
	Um iP 05 46 10.6
	Venezuela (h = 40 km).
	" 2 Ud eP 11 34 47
	Japan (h = 80 km).
" 2 Sk iSgl 00 31 55.6	" 2 Ki iP 17 27 30.7
" 2 Ki iP 01 23 49.2	Sinkiang, China (h = 40 km).
Ud iP 01 24 04.4	" 2 Up iP 21 57 12.5
Tadzhik-Sinkiang (h = 60 km).	Ki eP 21 56 55
" V 2 Up iP 01 31 22.8 D	Ud iP 21 57 21.1
i 01 31 29.9	Mindanao (h = 45 km).
	" 3 Um iP 07 12 15.7
	" 3 Up iP 10 42 10.9
	Ud iP 10 42 16.0
	" 3 Up iPKP2 13 45 42.2 C
	(cont.)
P Z' 0.2 1.1	
i Z' 0.2 1.1	
Ki iP 01 30 48.2 D	
i 01 30 54.8	
P Z' 0.1 1.2	
(cont.)	

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

1976				1976				
Dec.	3	(cont.)		Dec.	4	Up	iPKP 14 36 22.8	
		Ki	iPKP1 13 45 09.6			Ki	iPKP 14 36 38.4	
			iPKP2 13 45 15.8			Ud	ePKP 14 36 21	
		Um	iPKP1 13 45 16.7 C			South Sandwich Islands		
			iPKP2 13 45 27.2			(h = N).		
		Ud	iPKP2 13 45 48.2		"	4	Ki	iP 15 45 16.9
		New Zealand (h = 220 km).					Molucca Passage (h = 50 km).	
"	3	Ud	iP 14 09 21.8		"	4	Ki	iP 21 20 28.7
		Japan (h = 80 km).					Ud	iP 21 20 42.8
"	3	Up	iPKP1 17 21 02.7				Tadzhik-Sinkiang (h = 40 km).	
			micr sec		"	4	Ki	iPKP1 21 45 06.6
			PKP1 Z' 0.1 1.0					micr sec
		Ki	iPKP1 17 20 40.8				Mx	E 2.2 20
		Sk	iPKP1 17 20 56.4			Um	iPKP1 21 45 06.7	
		Um	iPKP1 17 20 51.2 C			West of Macquarie Island		
			i 17 21 06.3			(h = N).		
		Ud	iPKP1 17 21 04.5		"	4	Ud	iP 22 55 49.6
		De	iPKP1 17 21 15.6				Leyte (h = 100 km).	
		Kermadec Islands (h = N).			"	5	Ud	iP 13 45 08.8
"	3	Ud	i(P) 18 11 16.4				Tadzhik-Sinkiang (h = 40 km).	
"	4	Up	iP 04 16 07.4		"	5	Up	iP 22 12 48.4 D
			micr sec					micr sec
			P Z' 0.1 1.0				P	Z' 0.1 0.5
		Ki	iP 04 16 52.1			Ki	iP 22 12 15.9 D	
			micr sec					micr sec
			P Z' 0.1 1.0				P	Z' 0.1 0.5
		Ud	iP 04 16 24.0			Sk	iP 22 12 44.8	
			i 04 16 41.6			Um	iP 22 12 29.9 D	
		Turkey (h = 20 km).				Ud	iP 22 12 55.3 D	
		m = 5.4 (Up,Ki).				De	iP 22 13 07.1	
"	4	Ud	iP 05 44 09.4			Bonin Islands (h = 370 km).		
"	4	Up	iPKP2 05 51 03.8			m = 5.8 (Up,Ki).		
		Sk	iPKP1 05 50 51.2		"	5	Up	iP1 23 41 07.2
		Um	iPKP1 05 50 46.0					micr sec
			i 05 50 53.9				P1	Z' 0.1 1.0
		Ud	iPKP1 05 50 58.9			Ki	iP1 23 40 48.4	
		Kermadec Islands (h = N).					iP2 23 40 53.7	
"	4	Ki	iP 07 22 28.6					micr sec
			micr sec				P2	Z' 0.1 1.0
			P Z' 0.1 1.0			Sk	eP2 23 41 16	
"	4	Ki	iP 09 17 13.7			Ud	iP1 23 41 15.3	
		Um	eP 09 17 27				iP2 23 41 19.3	
		Ud	iP 09 17 51.9			De	eP1 23 41 25	
		Bonin Islands (h = 540 km).				Luzon (h = 40 km).		
"	4	Ud	eP 11 14 41			m = 5.5 (Up,Ki).		
"	4	Ud	eP 11 14 41		"	6	Up	iP 04 03 39.8
							(cont.)	

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

1976				1976			
Dec.		(cont.)		Dec.		(cont.)	
	6	Up i	04 04 00.0		7	Ud iP	09 47 46.3
		Ki iP	04 04 24.9			Japan (h = 340 km).	
			micr sec		"	8	Ud iP
		P Z'	0.1 1.0				08 48 34.1
		Ud iP	04 03 55.8		"	8	Ud iP
		De iP	04 03 38.9				09 30 40.9
		Iran-USSR (h = 50 km).					Bonin Islands (h = 500 km).
"	6	Ki iP	04 12 23.6 C	"	8	Um iP	15 01 05.3
		Ud eP	04 11 56			Ud iP	15 01 11.2
		Turkey-Iran (h = 70 km).				Nevada.	
"	6	Ud eP	04 37 05			Underground explosion.	
"	6	Ki eP	06 04 58	"	8	Up iP	19 30 41.4
		i	06 05 01.2			i	19 30 42.7
		Kirgiz-Sinkiang (h = 40 km).				i	19 30 54.0
"	6	Ud iP	07 12 13.2				micr sec
		North of Ascension Island				i Z'	0.2 1.0
		(h = N).				i Z'	0.3 1.3
"	6	Up iP	16 23 28.0			Mx E	0.4 15
		Ki iP	16 23 23.5			Ki iP	19 29 56.2
		i	16 23 26.2			i	19 30 05.7
		Sk iP	16 23 43.8				micr sec
		Ud iP	16 23 41.5			P Z'	0.1 1.0
		ipP	16 24 02.7			Mx E	0.7 17
		Burma-India.				Mx N	0.6 15
		h = 90 km (Ud).				Mx Z	0.5 14
"	7	Up iP	05 03 55.4 C			Sk iP	19 30 31.6
		iPn	05 05 01.5			Um iP	19 30 16.6
		iPP	05 05 14.1			i	19 30 28.4
			micr sec			Ud iP	19 30 47.5
		P Z'	0.7 0.6			i	19 30 59.1
		Ki iP	05 03 38.8 C			De iP	19 31 05.8
		iPn	05 04 38.5			i	19 31 09.0
			micr sec			Kurile Islands (h = N).	
		P Z'	1.2 0.6			m = 6.1, M = 5.3 (Up,Ki).	
		Sk iP	05 04 09.9 C	"	9	Sk i	03 38 27.1
		iPP	05 05 33.7			i	03 38 35.9
		Um iP	05 03 39.6 C			Ud iPKP2	03 38 31.7
		Ud iP	05 04 11.6 C			Kermadec Islands (h = 70 km).	
		De iP	05 04 18.7 C	"	9	Up iP	10 02 27.0
		iPP	05 05 44.9			i	10 02 34.1
		Eastern Kazakh SSR.				iS	10 11 55
		m = 6.8 (Up,Ki).					micr sec
		Underground explosion.				i Z'	0.1 1.3
"	7	Up iP	09 47 39.1			Mx E	3.1 23
		Ki iP	09 47 03.8			Mx N	2.6 24
		Um iP	09 47 18.3			Mx Z	7.0 25
		(cont.)				Ki iP	10 01 44.2
							micr sec
						Mx E	6.0 23
						(cont.)	

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

1976				1976			
Dec.	9	(cont.)		Dec.	9	(cont.)	
		Ki	micr sec			Ki	iP 15 47 45.1 D
		Mx	N 5.9 21				micr sec
		Mx	Z 4.3 20			P	Z' 0.1 0.7
		Sk	iP 10 02 00.1			Sk	iP 15 48 21.1
			i 10 02 05.7			Um	iP 15 48 05.3 D
		Um	iP 10 02 07.8			Ud	iP 15 48 37.0 D
			i 10 02 13.8			De	iP 15 48 55.1 D
			i 10 02 24.6			Kurile Islands (h = 110 km).	
			iS 10 11 18			m = 5.7 (Up,Ki).	
		Ud	iP 10 02 20.8		"	9	Up iP 16 09 58.3
			i 10 02 28.2				Ki iP 16 09 05.3
			i 10 02 46.4				Um iP 16 09 30.5
		De	iP 10 02 39.9				Ud iP 16 10 01.7
			i 10 02 47.2				Kamchatka (h = N).
		Oregon (h = 20 km).			"	9	Ud iP 18 32 07.3 C
		M = 5.8 (Up,Ki).			"	9	Ki iP 20 10 42.0
"	9	Up	eP 10 09 42				i 20 10 44.6
		Sk	eP 10 09 16				Ud iP 20 10 22.7
			i 10 09 18.9				Iran (h = 55 km).
		Ud	iP 10 09 36.0		"	10	Up iP 10 42 14.3
		Oregon (h = 20 km).					Ki iP 10 41 47.7
"	9	Up	ipP 10 39 37.8				Mariana Islands (h = 480 km).
		Sk	epP 10 39 12		"	10	Ki iP1 11 00 27.7
		Ud	eP 10 39 26				iP2 11 00 31.6
			ipP 10 39 33.7				micr sec
		Oregon (h = 20 km).					P2 Z' 0.1 0.9
"	9	Ud	eP 10 47 26			Um	iP2 11 00 36.8
			i 10 47 40.6			Ud	iP1 11 00 53.9
		Oregon (h = 20 km).					iP2 11 00 57.1
"	9	Up	iP 13 14 59.8				Mindanao (h = 40 km).
		Ki	iP 13 14 14.4		"	10	Ud iP 11 52 54.4
		Ud	iP 13 15 06		"	10	Up iP 18 04 18.7
		Kurile Islands (h = N).					iPP 18 05 56.7
"	9	Up	iSgl 14 27 49.0			Ki	iP 18 04 22.6
		Sk	iSgl 14 27 50.4			Um	iP 18 04 14.4
		Ud	iSgl 14 26 48.0			Ud	iP 18 04 35.5
		De	eSgl 14 26 55				i 18 05 31.2
		Coast of south Norway,					Tadzhik-Sinkiang (h = 160 km).
		58.3°N, 6.5°E.			"	10	Ud iP 20 37 19.6
		Origin time = 14 24 43.			"	10	Up iP 20 47 30.3
		M _L = 2.7 (Ud).					micr sec
		By combination with Bergen					P Z' 0.1 1.0
		and Kongsberg readings.				Ki	iP 20 47 29.5
"	9	Up	iP 15 48 31.1 D				i 20 47 48.9
			micr sec				(cont.)
		P	Z' 0.1 0.6				
		(cont.)					

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

1976

Dec. 10 (cont.)
 Ki micr sec
 P Z' 0.1 1.0
 Sk iP 20 47 43.1
 Um iP 20 47 27.0
 Ud iP 20 47 39.4
 Sumatra (h = 90 km).
 m = 5.9 (Up,Ki).

" 10 ✓ Up iP 23 18 08.0
 ipP 23 18 17.8
 iS 23 28 38
 micr sec
 P Z' 0.1 1.0
 pP Z' 0.2 1.2
 Mx E 2.2 19
 Mx N 1.3 15
 Ki iP 23 17 48.7
 ipP 23 17 57.7
 iS 23 28 07
 micr sec
 P Z' 0.2 1.4
 pP Z' 0.1 1.1
 Mx N 2.9 17
 Um iP 23 17 53.3
 ipP 23 18 04.4
 iSKS 23 28 12
 iS 23 28 16
 Ud iP 23 18 17.1
 ipP 23 18 26.2
 Luzon.
 h = 35 km (Up,Ki,Um,Ud).
 m = 6.1, M = 5.7 (Up,Ki).

" 11 Ki iP 00 09 20.3
 Iran-USSR (h = 30 km).

" 11 Up iP 01 18 24.8
 Ki iP 01 18 03.0
 Ud iP 01 18 33.2
 Formosa (h = 20 km).

" 11 Up iP 04 15 51.7
 Ki iP 04 16 35.5
 Sk iP 04 16 29.5
 Um iP 04 16 08.6
 Ud iP 04 16 07.4
 De iP 04 15 48.9
 Iran-Iraq (h = 40 km).

" 11 Ud iP 05 48 01.5
 Japan (h = 70 km).

" 11 Up iSn 07 54 24.9
 (cont.)

1976

Dec. 11 (cont.)
 Up iS* 07 55 08.2
 Ki i(P) 07 51 41.0
 iPn 07 51 45.1
 iSn 07 52 25.4
 iSgl 07 52 42.6
 Sk iPn 07 51 58.7
 iSn 07 52 46.7
 Um iPn 07 52 15.5
 i 07 52 18.9
 iSn 07 53 12.8
 iS* 07 53 35.9
 Ud e(P) 07 52 42
 i 07 52 51.1
 iSn 07 54 09.9
 Off coast of northern Norway,
 near 68°N, 11°E.
 Origin time = 07 50 52.
 M_L = 3.7 (Ki).

" 11 Ki iSgl 07 46 09.6
 Sk iSn 07 46 15.7
 Um iSn 07 46 23.0
 iSgl 07 46 37.2
 Ud iSgl 07 48 02.9
 Nordland, Norway, near
 66 1/2°N, 14°E.
 Origin time = 07 44 42.
 M_L = 2.3 (Ki,Sk,Um,Ud).
 Explosion?

" 11 Um iP 08 08 43.5
 Ud iP 08 07 56.6
 i 08 08 03.4

" 11 Up iP 08 49 30.8
 Ki iP 08 48 37.8
 e 08 48 50
 Sk iP 08 49 14.7
 Um iP 08 49 03.6
 Ud iP 08 49 35.3
 Kamchatka (h = N).

" 11 Sk eSgl 11 34 28
 Ud iSgl 11 34 02.3
 De eSgl 11 35 06
 Southwest Norway, 60.4°N,
 7.1°E.
 Origin time = 11 32 23.
 M_L = 2.2 (Ud).

By combination with Bergen
 and Kongsberg readings.

" 11 ✓ Up iP 18 19 51.4
 (cont.)

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

1976

Dec.	11	(cont.)					
		Up	i	18 19	53.7		
			i	18 19	59.4		
			iS	18 29	31		
						micr	sec
			i	Z'	0.2	1.0	
			i	Z'	0.3	1.1	
			Mx	E	3.0	16	
			Mx	N	5.6	22	
			Mx	Z	5.7	17	
		Ki	iP	18 19	53.6		
			i	18 19	54.9		
			i	18 19	59.8		
						micr	sec
			i	Z'	0.4	1.4	
			i	Z'	0.7	1.5	
			Mx	E	4.2	16	
			Mx	N	6.6	17	
			Mx	Z	4.8	17	
		Sk	iP	18 20	08.6		
			i	18 20	10.0		
		Um	iP	18 19	49.6		
			i	18 19	56.4		
			iS	18 29	26		
		Ud	iP	18 20	03.5		
			i	18 20	04.8		
			i	18 20	10.9		
		De	iP	18 20	01.3		
			i	18 20	03.0		
			i	18 20	11.0		
		Nicobar Islands (h = N).					
		m = 6.4, M = 6.0 (Up,Ki).					
		Double P, small and large,					
		in average 1.6 sec apart.					
"	11	Up	iP1	18 43	35.8		
		Ki	iP1	18 43	37.6		
			iP2	18 43	42.7		
		Sk	eP2	18 43	58		
		Um	iP1	18 43	32.5		
		Ud	iP1	18 43	47.3		
		De	eP2	18 43	49		
		Nicobar Islands (h = N).					
"	11	Up	iS	23 31	24		
						micr	sec
			Mx	E	1.4	18	
			Mx	N	1.1	21	
			Mx	Z	2.7	20	
		Ki	eP1	23 20	33		
			iP2	23 20	37.1		
			i	23 20	48.1		
						micr	sec
			i	Z'	0.1	1.2	
			Mx	E	2.2	15	
		(cont.)					

1976

Dec.	11	(cont.)					
		Ki				micr	sec
			Mx	N	1.5	15	
			Mx	Z	2.4	17	
		Sk	eP1	23 20	35		
		Um	iP1	23 20	47.4		
			iP2	23 20	50.6		
		Ud	iP2	23 20	52.5		
		Gulf of California (h = N).					
		M = 5.6 (Up,Ki).					
"	12	Ud	iP	01 18	02.9		
"	12	Up	iP	01 20	09.1	C	
			ipP	01 21	58.3		
			iPP	01 23	16.2		
			i(Sp)	01 29	18.5		
			iS	01 29	30.0		
						micr	sec
			P	Z'	1.6	1.0	
			Mx	E	2.2	19	
			Mx	N	2.2	18	
			Mx	Z	3.3	20	
		Ki	iP	01 19	37.7	C	
			i	01 20	25.9		
			ipP	01 21	24.9		
			iPP	01 22	12.6		
			iS	01 28	30.6		
						micr	sec
			P	Z'	1.1	0.9	
			Mx	E	2.2	15	
			Mx	N	2.9	16	
			Mx	Z	1.9	15	
		Sk	iP	01 20	06.1	C	
			i	01 20	28.2		
			ipP	01 21	54.7		
			iPP	01 23	13.9		
			iS	01 29	25.5		
		Um	iP	01 19	51.0	C	
			ipP	01 21	37.5		
			iS	01 28	55.3		
		Ud	iP	01 20	16.1	C	
			ipP	01 22	05.3		
			iS	01 29	43.7		
		De	iP	01 20	27.6	C	
			ipP	01 22	21.0		
			iS	01 30	07.2		
		Bonin Islands.					
		h = 510 km (Up,Ki,Sk,Um,Ud,De)					
		m = 6.4, M = 5.7 (Up,Ki).					
"	12	Up	iP2	05 33	38.6		
		Ki	iP1	05 33	33.8		
			iP2	05 33	41.5		
		(cont.)					

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

1976

Dec. 12 (cont.)

Ki			micr	sec
	P2	Z'	0.1	1.0
Sk	iP2		05 33	55.9
Um	iP1		05 33	30.8
	iP2		05 33	36.9
Ud	iP2		05 33	49.9
De	iP2		05 33	47.7
Nicobar Islands (h = N).				
"	12	Up	iPKP1	05 47 43.9
		Ud	iPKP1	05 47 46.4
			i	05 47 57.0
		De	iPKP2	05 48 01.7
Kermadec Islands (h = 70 km).				
"	12	Up		micr sec
		Mx	E	1.2 20
		Mx	N	1.8 20
		Ki	iP	08 00 40.5
			i	08 00 48.7
				micr sec
		P	Z'	0.1 1.0
		Mx	E	1.2 12
		Mx	N	1.3 13
		Mx	Z	0.9 11
		Sk	iP	08 00 13.1
		Ud	iP	08 00 12.5
Iran-USSR (h = 40 km).				
M = 4.8 (Up,Ki).				
"	12	Ud	iP	10 47 27.1
Sinkiang, China (h = 70 km).				
"	12	Up	ipP	13 14 22.8
		Ud	iP	13 14 21.1
Albania (h = N).				
"	12	Ud	iP	20 32 55.9
"	12	Ud	iP	21 25 37.2
			i	21 25 45.3
"	✓13	Up	iP	06 47 28.3
			ipP	06 47 33.1
			iS	06 56 02
				micr sec
		P	Z'	0.2 1.2
		pP	Z'	0.2 1.1
		Mx	E	3.9 17
		Mx	N	14 17
		Mx	Z	6.8 20
		Ki	iP	06 47 13.7
(cont.)				

1976

Dec. 13 (cont.)

Ki	i		06 47 15.1	
	ipP		06 47 19.2	
	i		06 47 32.7	
			micr sec	
	i	Z'	0.1 0.9	
	i	Z'	0.2 1.0	
	Mx	E	7.4 13	
	Mx	N	5.6 13	
	Mx	Z	7.9 13	
"	13	Sk	iP	06 47 39.5
			i	06 47 40.2
			ipP	06 47 44.2
			iPP	06 50 09.0
		Um	iP	06 47 17.0
			i	06 47 17.7
			ipP	06 47 21.6
			iS	06 55 32
		Ud	iP	06 47 40.5
			i	06 47 41.7
			ipP	06 47 46.1
Szechwan, China.				
h = 15 km (Up,Ki,Sk,Um,Ud).				
m = 6.2, M = 6.2 (Up,Ki).				
"	13	Um	iP	21 25 47.9
		Ud	iP	21 26 01.8
			i	21 26 07.3
"	13	✓Up	iP	23 13 31.5 D
				micr sec
			P	Z' 0.1 0.9
		Ki	iP	23 12 55.4 D
				micr sec
			P	Z' 0.1 0.9
		Sk	iP	23 13 25.9
		Um	iP	23 13 11.1 D
			i	23 13 16.5
		Ud	iP	23 13 38.1 D
Japan (h = N).				
m = 5.7 (Up,Ki).				
"	14	Ud	iP	11 56 27.7
Bay of Bengal (h = N).				
"	14	✓Up	iP	16 18 30.7 D
			iS	16 28 14.8
				micr sec
		P	Z'	2.1 1.3
		Mx	E	24 15
		Mx	N	18 14
		Mx	Z	46 14
		Ki	eP	16 18 03
			iS	16 27 18
(cont.)				

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

1976

Dec. 14 (cont.)
 Ki micr sec
 Mx E 37 14
 Mx N 16 13
 Mx Z 30 14
 Sk iP 16 18 30.0 D
 iPP 16 21 23.8
 Um iP 16 18 12.2 D
 i 16 18 24.5
 iS 16 27 40
 Ud iP 16 18 38.9 D
 Ryukyu Islands (h = 40 km).
 M = 6.8 (Up,Ki).
 " 14 Sk iP 19 08 49.3
 Ryukyu Islands (h = N).
 " 14 ✓ Up iP 19 46 51.5
 micr sec
 P Z' 0.2 1.0
 Mx E 2.2 12
 Mx N 1.6 13
 Mx Z 4.3 13
 Ki micr sec
 Mx E 2.9 13
 Mx N 1.3 13
 Mx Z 2.2 13
 Sk iP 19 46 50.1 D
 Um iP 19 46 32.7
 Ud iP 19 46 59.0 D
 Ryukyu Islands (h = 40 km).
 M = 5.8 (Up,Ki).
 " 14 Ud eP 20 32 48
 Kamchatka (h = 45 km).
 " 15 Up iP 00 34 52.6
 i 00 35 01.1
 i 00 35 05.3
 micr sec
 P Z' 0.1 0.7
 i Z' 0.1 0.6
 i Z' 0.1 0.5
 Sk iP 00 35 05.1
 i 00 35 17.6
 Um iP 00 34 35.9
 i 00 34 44.1
 i 00 34 48.5
 Ud iP 00 35 07.8
 i 00 35 16.2
 i 00 35 20.2
 Kazakh-Sinkiang (h = N).
 " 15 Up iP 04 45 34.0
 (cont.)

1976

Dec. 15 (cont.)
 Up micr sec
 P Z' 0.1 0.6
 Sk iP 04 45 49.6 D
 Um iP 04 45 27.1 D
 Ud iP 04 45 46.7 D
 Burma-India (h = 100 km).
 " 15 Ud i(PKP) 07 29 31.2
 iPKP 07 29 41.5
 Tonga Islands (h = 80 km).
 " 15 Up iP 10 12 03.0
 Ki iP 10 13 11.8
 Ud iP 10 11 58.5
 " 15 Ki iP 10 44 11.7
 " 15 ✓ Up iP 12 37 47.3
 micr sec
 P Z' 0.1 0.9
 Ki iP 12 37 17.3
 micr sec
 P Z' 0.1 1.0
 Um iP 12 37 29.5
 Ud iP 12 37 55.2
 Ryukyu Islands (h = 5 km).
 m = 5.7 (Up,Ki).
 " 15 ✓ Up iP 13 28 35.1
 micr sec
 P Z' 0.1 1.0
 Ki iP 13 28 08.8
 micr sec
 P Z' 0.2 1.1
 Sk iP 13 28 33.3
 Um iP 13 28 18.7
 Ud iP 13 28 41.4
 iPP 13 32 38.4
 Mariana Islands (h = 80 km).
 m = 6.2 (Up,Ki).
 " 15 Ki iP 16 12 50.3
 Sk iP 16 12 19.7
 Ud iP 16 11 48.7
 De iP 16 11 14.1
 i 16 11 17.6
 Crete (h = 50 km).
 " 15 Ki iP 18 19 14.2
 Ud iP 18 19 31.4
 Sinkiang, China (h = N).
 " 15 Ki iP 20 45 08.7
 (cont.)

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

1976				1976				
Dec.	15	(cont.)		Dec.	18	Ud	iP	03 17 22.2
		Sk	eP					Japan (h = 50 km).
			i					
		Um	iP	"	18	✓Up	iP	05 16 02.8
							ipP	05 16 13.1
		Ud	i					micr sec
							P	Z' 0.1 1.2
"	16	Ki	iP				pP	Z' 0.1 1.0
		Ud	iP			Ki	iP	05 15 31.8
		Tadzhik-Sinkiang (h = N).					ipP	05 15 43.4
"	16	Ki	iPKP					micr sec
							P	Z' 0.1 1.0
							pP	Z' 0.1 1.0
			PKP			Sk	iP	05 16 01.7
			Z'				ipP	05 16 13.8
		Um	iPKP			Um	iP	05 15 44.0
							ipP	05 15 55.5
		Ud	e(PKP)			Ud	iP	05 16 09.7 D
		Fiji Islands (h = 560 km).					ipP	05 16 22.2
"	16	Ud	iSg1			De	iP	05 16 25.5
								Ryukyu Islands.
"	16	Ki	iSg1					h = 40 km (Up,Ki,Sk,Um,Ud).
			iSg2					m = 5.9 (Up,Ki).
		Um	iSg1			"	18	Um
			iSg2					iP
		Finnish Lapland, 67.9°N, 26.8°E.				"	18	Up
		Origin time = 15 59 33.						iP1
		By combination with Finnish station readings.						iP2
"	16	Ud	iP			Ki	eP1	11 05 34
							iP2	11 05 38.9
"	16	Ki	iP			Um	iP1	11 05 30.2
		Ud	iP				iP2	11 05 34.7
		Sumatra (h = N).				Ud	iP2	11 05 48.3 C
"	17	Ki	iP					Nicobar Islands (h = N).
						"	18	Up
								iPKP1
								15 15 07.8
								Ud
								iPKP1
								15 15 09.1
								De
								iPKP1
								15 15 18.8
								Kermadec Islands (h = 55 km).
"	17	Ki	iP			"	18	Ud
								iP
								15 25 15.1
"	17	Up	iP			"	18	Ud
								iP
								23 18 48.6
								Crete (h = N).
"	17	Ki	iP			"	19	Ki
								iP
								00 53 00.4
								Sk
								iP
								00 53 19.3
								Um
								iP
								00 52 50.7
								Ud
								iP
								00 53 11.0 D
								Tadzhik SSR (h = 190 km).
"	17	Ud	iP			"	19	Ud
								iP
								01 02 17.1 C
"	17	Up	iP			"	19	Up
								iP
								04 02 22.8
								Ki
								iP
								04 02 21.8 C
								Sk
								iP
								04 02 36.1
								Um
								iP
								04 02 19.8 C
"	17	Ud	iP					Ud
								iP
								04 02 31.9
								Sumatra (h = 100 km).

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

1976

Dec. 19 Um iPKP 09 29 11.6 C
 Ud iPKP 09 29 19.1
 Fiji Islands (h = 600 km).

" 19 ✓ Up iP 11 02 33.8
 micr sec
 P Z' 0.1 1.1
 Mx E 1.4 18
 Mx N 1.0 18
 Mx Z 2.6 19
 Ki iP 11 02 13.1 C
 micr sec
 P Z' 0.3 1.2
 Mx N 0.8 17
 Sk iP 11 02 35.7
 Um iP 11 02 20.7 C
 Ud iP 11 02 41.4
 iPP 11 06 38.9
 De iP 11 02 49.5
 West Caroline Islands (h = N).
 m = 6.4, M = 5.4 (Up,Ki).

" 19 Ud iP 11 54 27.9
 Kurile Islands (h = N).

" 19 Up iP 14 48 39.2
 i 14 49 05.4
 micr sec
 i Z' 0.1 1.3
 Ki iP 14 47 51.2
 Sk iP 14 48 28.5
 Um iP 14 48 13.8
 Ud iP 14 48 44.4 C
 De iP 14 49 02.6
 Kurile Islands (h = 90 km).

" 19 Ud iP 19 22 18.7
 Tadzhik SSR (h = 2 km).

" 19 Up iPKP1 22 04 57.5
 Sk iPKP1 22 04 49.9
 Ud iPKP1 22 04 58.6

" 20 Up iP 03 01 01.8
 Ki eP 03 00 42

" 20 Um iP 03 22 35.2

" 20 ✓ Up iP 10 31 39.0
 iP 10 31 52.1
 micr sec
 P Z' 0.3 1.8
 Ki iP 10 31 34.6 C
 iP 10 31 48.3
 (cont.)

1976

Dec. 20 (cont.)
 Ki micr sec
 P Z' 0.5 2.0
 Um iP 10 31 39.7 C
 iP 10 31 52.8
 Ud iP 10 31 29.5
 iP 10 31 43.2
 De iP 10 31 33.8 C
 iP 10 31 47.7
 Costa Rica.
 h = 50 km (Up,Ki,Um,Ud,De).
 m = 6.3 (Up,Ki).

" 20 Up iP 17 23 41.4
 Ki eP 17 22 58
 i 17 23 10.1
 Ud iP 17 23 34.9
 i 17 23 52.5
 Vancouver Island (h = 10 km).

" 20 Up iP 18 40 44.9
 Ud iP 18 40 49.2
 Kamchatka (h = N).

" 20 Up iP 19 56 36.2
 Ud iP 19 56 38.9
 Aleutian Islands (h = 100 km).

" 20 ✓ Up iP 20 44 11.6 D
 i 20 44 20.0
 iS 20 53 10.8
 micr sec
 P Z' 0.1 1.1
 i Z' 0.5 1.3
 Mx E 17 18
 Mx N 30 16
 Mx Z 42 18
 Ki iP 20 43 25.9 D
 i 20 43 35.1
 eS 20 51 48
 micr sec
 P Z' 0.2 1.5
 i Z' 0.5 1.7
 Mx E 30 15
 Mx N 37 17
 Mx Z 46 17
 Sk iP 20 43 44.1
 i 20 43 52.3
 Um iP 20 43 50.6 D
 i 20 44 00.3
 iS 20 52 35
 Ud iP 20 44 03.1
 De iP 20 44 26.5
 i 20 44 34.7
 Vancouver Islands (h = 10 km).
 m = 6.5, M = 6.7 (Up,Ki).

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

1976				1976					
Dec.	20	Up	iP	21 17	39.7	Dec.	22 (cont.)		
		Ud	iP	21 17	33.6	Up	iPP		
		Vancouver Island (h = 10 km).					i		
"	20	Up	iP	21 23	49.6		iS		
		Ud	iP	21 23	41.8				
		Vancouver Island (h = 10 km).							
"	20	Up	iP	21 32	33.5		P		
		Ud	iP	21 32	26.3		Z'		
		Vancouver Island (h = 10 km).							
"	21	Ki	iP	00 10	16.3		Mx		
		Um	eP	00 10	22		E		
		Ud	eP	00 10	41		N		
		Molucca Passage (h = N).							
"	21	Up	iP	04 10	00.4		Mx		
		Ki	eP	04 09	30		Z		
		Ryukyu Islands (h = N).							
"	21	Ki	iP	04 30	31.6		Sk		
		Ud	iP	04 30	21.5		i		
		Mindanao (h = 70 km).							
"	21	Um	iP	15 17	55.6		Um		
		Ud	iP	15 18	25.1		iPP		
		Japan (h = 60 km).					iS		
"	21	Up	iP	18 47	41.0		Ud		
		Ki	iP	18 47	27.6		iP		
		Um	iP	18 47	30.0				
		Ud	iP	18 47	53.5		De		
		Szechwan, China (h = N).							
"	21	Up	iP	21 33	16.0		Volcano Islands (h = 50 km).		
		Ud	iP	21 33	13.5		m = 6.6, M = 5.6 (Up,Ki).		
"	21	Up	iP	22 28	44.5 C	"	22	Up	
		i		22 28	56.0			iP	
		micr sec						i	
		P	Z'	0.1	0.9			Ki	
		Ki	iP	22 28	10.8 C			iP	
		micr sec						Um	
		P	Z'	0.1	1.0			i	
		Sk	iP	22 28	40.4			Ud	
		Um	iP	22 28	25.4 C			iP	
		i		22 28	37.3			De	
		Ud	iP	22 28	51.0 C			iP	
		De	iP	22 29	03.9				
		Bonin Islands (h = N).						Colombia (h = 160 km).	
		m = 5.6 (Up,Ki).					"	22	Ki
"	22	Up	iP	01 14	17.1 D			iP	
		(cont.)						Sk	
								iPKP1	
								Um	
								iPKP1	
								iPKP1	
								North Island, New Zealand	
								(h = 290 km).	
"	23	Up	iP	07 08	09.7				
		Ki	iP	07 07	16.8				

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

1976

Dec. 23 Up iPKP1 08 55 45.5
Um iPKP1 08 55 32.7
Ud iPKP1 08 55 47.9
De iPKP1 08 55 58.1
Tonga-Kermadec Islands
(h = 570 km).

" 23 ✓ Up iP 09 50 36.5 D
i 09 50 45.7
micr sec
P Z' 0.2 1.2
i Z' 0.1 1.0
Mx E 1.6 21
Mx N 3.4 19
Mx Z 4.3 17
Ki iP 09 49 57.3 D
i 09 50 10.1
micr sec
P Z' 0.2 1.5
Mx E 4.7 16
Mx N 1.9 16
Mx Z 2.8 20
Sk eP 09 50 10
Um iP 09 50 17.6
iS 09 59 37
Ud iP 09 50 30.3 D
De eP 09 50 48
California (h = 15 km).
m = 6.1, M = 5.8 (Up, Ki).

" 23 Up i(P) 09 54 06.5

" 23 Up iP 14 22 50.1
Ud iP 14 23 00.6

" 24 Ud iP 03 33 18.7

" 24 Up iPKP1 14 37 41.4
micr sec
PKP1 Z' 0.1 1.0
Ki iPKP 14 37 22.8
Sk iPKP1 14 37 35.2
Um iPKP1 14 37 30.2 C
Ud iPKP1 14 37 43.5 C
De i 14 37 50.1
iPKP1 14 37 51.9
Kermadec Islands (h = 110 km).

" 24 Up iP 14 52 17.8
De eP 14 51 59
Rumania (h = 160 km).

" 24 Ud iP 21 53 52.1
Dodecanese Islands (h = 160 km).

1976

Dec. 25 Up iP 01 17 21.3
Ki iP 01 17 13.2
ipP 01 17 31.2
Sk iP 01 17 36.8
Ud iP 01 17 34.8 D
ipP 01 17 52.5

Burma-India.
h = 70 km (Ki, Ud).

" 25 Ki ePn 20 53 28
i 20 54 33.2
Sk iPn 20 53 21.8 C
iSn 20 54 10.1
Um iSn 20 54 57.3
Ud iSn 20 55 37.3

Norwegian Sea, near 67 3/4° N
7 1/2° E.

Origin time = 20 52 17.
By combination with Finnish
station readings.

" 25 Ki iP 22 25 31.6
micr sec
P Z' 0.1 1.0
Iran-USSR (h = N).

" 26 Up iPKP1 02 46 39.0
iPKP2 02 46 43.8
micr sec
PKP1 Z' 0.1 0.9
PKP2 Z' 0.1 1.0
Ki iPKP 02 46 22.9
Sk iPKP1 02 46 33.3
Um iPKP1 02 46 26.9 C
i 02 46 39.3
Ud iPKP1 02 46 40.7
Kermadec Islands (h = 40 km).

" 26 Ud iP 08 46 19.6
Greece (h = N).

" 26 Ki iP 14 57 22.0
Sk epP 14 57 59
Um iP 14 57 49.4
Ud iP 14 58 14.1
Alaska Peninsula (h = 40 km).

" 27 Ki iP 01 28 26.1 C
Sk iP 01 28 46.4
Um iP 01 28 17.9 C
ipP 01 28 43.3

Tadzhik-Sinkiang.
h = 120 km (Um).

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

1976				1976					
Dec.	27	Um	iP	04 33 13.4	Dec.	28	Up	iP	16 56 14.8
				Japan (h = N).			Ki	iP	16 55 38.2
"	27	Up	iP	07 58 52.6			Um	iP	16 55 54.0
			i	07 58 56.0				i	16 56 07.4
				micr sec					Japan (h = N).
			i	Z' 0.2 1.0	"	28	Up	iP	18 11 48.5 C
		Mx	E	3.6 13					micr sec
		Mx	N	1.7 10				P	Z' 0.1 1.0
		Mx	Z	3.0 9			Ki	iP	18 11 14.8 C
		Ki	iP	08 00 10.7					micr sec
				micr sec				P	Z' 0.1 1.0
		Mx	E	5.4 12			Sk	iP	18 11 22.9
		Mx	N	2.9 9			Um	iP	18 11 34.0 C
		Mx	Z	1.4 10					Nevada.
		Sk	iP	07 59 33.4					m = 6.0 (Up,Ki).
			i	07 59 41.5					Underground explosion.
		Um	iP	07 59 35.4	"	28	Up	iPKP1	20 35 02.9
			i	07 59 41.5					Tonga-Kermadec Islands
			iS	08 04 01					(h = 490 km).
				Greece-Albania (h = 30 km).					
				M = 5.3 (Up,Ki).					
"	27	Up	iP	08 01 48.5	"	29	Up	iP	14 47 59.7
		Sk	iP	08 02 30.7				iS	14 57 10
				Probably Greece-Albania,					micr sec
				from the same focal area				P	Z' 0.3 1.2
				as the preceding event.			Ki	iP	14 47 21.4
"	27	Ki	iP	16 27 15.7				i	14 47 22.7
				Mindanao (h = 110 km).					micr sec
"	27	Um	i(P)	16 39 32.9				i	Z' 0.3 1.1
			i	16 40 16.9			Sk	iP	14 47 54.9
"	27	Up	iP	18 19 16.8			Um	iP	14 47 37.4
		Um	iP	18 18 53.4				iS	14 56 31
			i	18 18 56.2					Japan (h = 150 km).
				Japan (h = 60 km).					m = 6.0 (Up,Ki).
"	28	Ki	iP	03 08 31.7	"	29	Um	iP	20 28 48.0
		Um	iP	03 08 32.9				i	20 29 06.9
				North Atlantic Ocean (h = N).					Adriatic Sea (h = 10 km).
"	28	Ki	iP	11 54 47.5	"	30	Up	iP	04 03 52.7 C
		Um	iP	11 54 37.0				iPP	04 05 02.4
				Afghanistan-USSR (h = 220 km).					micr sec
"	28	Up	iSKS	14 16 31				P	Z' 0.1 1.0
				micr sec			Ki	iP	04 03 37.0 C
		Mx	E	1.8 19					micr sec
		Um	iSKS	14 16 42				P	Z' 0.1 0.5
				Chile-Bolivia (h = 90 km).			Sk	iP	04 04 08.1 C
							Um	iP	04 03 37.4 C
									Eastern Kazakh SSR.
									m = 5.8 (Up,Ki).
									Underground explosion.

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

1976

Dec. 30 Up iP 05 32 36.3
 Ki iP 05 31 43.6
 i 05 31 54.0
 Um iP 05 32 07.9
 i 05 32 18.5
 Kamchatka (h = 25 km).

" 30 Up iPKP1 13 28 14.8 C
 micr sec
 PKP1 Z' 0.1 0.7
 Ki iPKP 13 28 04.2
 Um iPKP1 13 28 03.3
 De iPKP1 13 28 27.3
 Tonga-Kermadec Islands
 (h = 500 km).

" 30 Up iP 15 17 31.5
 Sk iP 15 18 12.1
 Um iP 15 18 07.8
 De iP 15 17 03.2
 i 15 17 10.4
 Greece (h = 35 km).

" 30 ✓ Ki iP 18 39 29.2
 micr sec
 P Z' 0.1 1.2
 Um iP 18 39 39.6
 South of Mariana Islands
 (h = 30 km).

" 30 Ki iP 20 14 12.6
 Um iP 20 14 23.3
 South of Mariana Islands
 (h = 20 km).

" 30 Up iP 22 13 13.2
 i 22 13 23.8
 micr sec
 i Z' 0.1 1.2
 Kurile Islands (h = 40 km).

" 30 Up iPKP1 23 29 24.0
 Um i 23 29 21.6
 Ud iPKP2 23 29 29.0
 De iPKP1 23 29 35.9
 Kermadec Islands (h = N).

" 31 Up iP 09 27 57.8
 micr sec
 P Z' 0.1 1.2
 Ki iP 09 27 14.4
 micr sec
 P Z' 0.2 1.1
 Um iP 09 27 33.6
 (cont.)

1976

Dec. 31 (cont.)
 Ud iP 09 28 04.7
 Japan (h = 110 km).
 m = 5.8 (Up,Ki).

" 31 Ki iP 23 33 41.8
 Ceram (h = N).

Ingrid Båth
 Ota Kulhánek
 Klaus Meyer
 Rutger Wahlström

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