



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, 1974

1974	July	1	Up	iPKP	00 20 11.3	1974	July	1	Ki	iP	07 09 51.0
			Ki	iPKP	00 20 00.2				Sk	iP	07 09 23.1
			Ud	iPKP	00 20 15.8				Um	iP	07 09 35.8
			Alternatively, these readings could be SKP.						Ud	iP	07 09 08.4
									Atlantic Ocean (h = N).		
"		1	Ud	iP	01 29 20.6	"		1	Ki	iP	07 30 40.7
				iS	01 31 30.2						micr sec
			De	iP	01 28 42.9				P	Z'	0.1 0.8
				iS	01 30 20.8				Mx	E	0.4 10
				i	01 31 26.6				Mx	N	0.9 18
			France. Rockburst.						Mx	Z	0.8 16
									Sk	iP	07 31 27.8
"		1	Ud	iP	03 20 23.1				Um	iP	07 31 32.0
			Kurile Islands-Japan.							i	07 31 56.4
"		1	Up	iP	05 16 44.0				Ud	iP	07 32 15.9
			Ki	eP	05 15 09					i	07 32 26.9
			Sk	eP	05 16 05					i	07 32 36.4
			Um	iP	05 16 04.2				De	iP	07 32 57.8
				i	05 16 10.7				Greenland Sea (h = N).		
			Ud	iP	05 16 38.2	"		1	Ud	iSgl	09 09 46.0
				i	05 16 44.9				De	i	09 07 40.8
			De	eP	05 17 16					iSgl	09 07 53.5
			Greenland Sea (h = N).			"		1	Ud	iPKP1	13 29 55.4
"		1	Ud	iP	05 30 30.2				De	iPKP1	13 30 05.8
			Lake Baikal (h = N).							i	13 30 16.4
"		1	Up	iPKP1	06 42 02.0	"		1	Up	iSn	15 02 49.5
			Ud	iPKP1	06 42 09.8					iSgl	15 03 02.0
			De	iPKP1	06 42 19.1				Ki	iSgl	15 05 34.5
"		1	Ud	i	07 02 27.3				Sk	eSgl	15 04 52
				iSgl	07 02 39.6				Um	iSgl	15 03 38.1
			De	i(Pgl)	07 00 25.1				Ud	iSn	15 03 37.1
				i	07 00 59.1					eSgl	15 04 06
				iSgl	07 01 02.1				De	iSgl	15 04 31.0
										iSg2	15 04 42.1
									Esthonia. Explosion.		

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

1974				1974			
July	2	Up	iP	15	23	26.7	
"	2	Up	iP	16	34	24.0	
			i	16	34	26.1	
		Ki	iP	16	34	22.4	
			i	16	34	24.4	
		Sk	iP	16	34	46.8	
		Um	iP	16	34	17.0	
			i	16	34	19.3	
		Ud	iP	16	34	39.8	
			i	16	34	41.8	
		De	iP	16	34	42.3	
		Kashmir-Tibet (h = N).					
		Double P, with Sk,De only showing the later P.					
"	2	Up	iP	16	48	30.6	
			iLgl	17	01	16	
				micr		sec	
		Mx	N	1.7	14		
		Mx	Z	0.5	8		
		Ki	iP	16	48	29.1	
			eLgl	17	01	22	
				micr		sec	
			Mx	E	0.5	9	
			Mx	N	1.5	11	
			Mx	Z	0.5	8	
		Sk	eP	16	48	50	
			i	16	48	58.0	
		Um	iP	16	48	23.0	
			i	16	48	31.7	
			i	17	00	49.5	
			iLgl	17	01	18.5	
		Ud	iP	16	48	47.3	
			i	16	48	51.4	
			i	16	48	56.0	
		De	iP	16	48	48.4	
			i	16	48	53.6	
		Alma-Ata (h = N).					
		M = 5.2 (Up,Ki).					
"	2	Up	i(pP)	17	37	13.8	
		Mindoro (h = 110 km).					
"	2	Ki	iSn	18	10	55.3	
			iSgl	18	11	08.9	
		Um	i	18	12	24.5	
			iSgl	18	12	44.0	
		USSR-Norway.					
		Explosion.					
"	2	Ud	iPKP1	18	40	10.4	
		De	iPKP1	18	40	19.9	
"	2	Up	iP	18	41	43.9	
		Um	iP	18	41	40.8	
"	2	Up	iP	19	31	02.5	
		(cont.)					
July	2	(cont.)					
		Sk	iP	19	30	57.7	
		Um	iP	19	30	39.4	
		Ud	iP	19	31	09.6	
			ipP	19	31	31.1	
		Japan.					
		h = 80 km (Ud).					
"	2	Up	iP	20	36	16.2	
		Ki	iP	20	35	33.8	
		Um	iP	20	35	52.2	
		Ud	iP	20	36	23.1	
		De	iP	20	36	39.4	
		Japan (h = 30 km).					
"	2	Up	eP	23	44	00	C
			iPKP	23	46	05.0	
			iPKP1	23	46	08.5	C
			iPP	23	49	35.8	
				micr		sec	
			PKP	Z'	0.2	1.5	
			PKP1	Z'	2.1	1.0	
			Mx	E	25	24	
			Mx	N	60	25	
			Mx	Z	72	24	
		Ki	i(PKP)	23	45	47.1	
			iPKP	23	45	53.5	
			iSKP	23	49	29	
				micr		sec	
			(PKP)	Z'	0.1	1.0	
			PKP	Z'	1.0	1.6	
			Mx	E	33	21	
			Mx	N	73	23	
			Mx	Z	51	23	
		Sk	iPKP1	23	46	00.2	C
		Um	iPKP1	23	45	55.5	C
			iPP	23	49	25	
		Ud	iPKP	23	46	06.0	
			iPKP1	23	46	09.9	
		De	iPKP	23	46	11.7	C
			iPKP1	23	46	18.9	C
		Kermadec Islands (h = N).					
		M = 7.4 (Up,Ki).					
"	3	Up	iP	02	47	27.1	
		Ki	iP	02	47	19.4	
		Ud	iP	02	47	39.0	
		Burma.					
"	3	De	iPKP1	05	00	27.3	
"	3	Up	eX	05	12	58	
				micr		sec	
			Mx	E	0.8	20	
			Mx	N	1.4	16	
			Mx	Z	1.2	18	
		Ki	iP	05	12	03.7	
			iX	05	12	15.4	
		(cont.)					

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1974				1974			
July	3	(cont.)		July	3	(cont.)	
		Ki	micr sec			Up	micr sec
		Mx	E 1.0 16			Mx	E 4.1 21
		Mx	N 0.9 15			Mx	N 4.3 20
		Mx	Z 1.0 17			Mx	Z 7.2 21
		Sk	eP 05 12 17			Ki	i(PKP) 23 44 28.8
			iX 05 12 28.4				iPKP 23 44 34.6
		Um	iP 05 12 25.5				iPP 23 47 28
			iX 05 12 37.0				iSKP 23 48 08
		Ud	iP 05 12 35.7				micr sec
			iX 05 12 47.2			(PKP)	Z' 0.1 1.0
		California (h = 10 km).				PKP	Z' 0.6 1.6
		M = 5.4 (Up,Ki).				Mx	E 4.5 18
"	3	Ud	iPKP1 06 09 24.1			Mx	N 8.9 20
"	3	Ud	iP 07 49 59.3			Mx	Z 7.6 20
		Aleutian Islands (h = 90 km).				Sk	iPKP1 23 44 43.4 D
"	3	Sk	iPKP1 10 22 09.6			Um	iPKP1 23 44 38.0 D
		Ud	ePKP1 10 22 19			Ud	iPKP 23 44 48.2
"	3	De	iP 11 24 31.7				iPKP1 23 44 51.6
"	3	Up	iPKP1 14 24 54.8			De	iPKP 23 44 54.5
		Sk	iPKP1 14 24 46.9				i 23 44 57.5
			ipPKP1 14 24 57.7				iPKP1 23 45 00.6
		Um	iPKP1 14 24 42.0			Kermadec Islands (h = N).	
		Ud	iPKP1 14 24 55.7			M = 6.5 (Up,Ki).	
			ipPKP1 14 25 06.4	"	4	Up	iP 03 50 11.5
		De	iPKP1 14 25 04.7			Ud	iP 03 50 18.4
			ipPKP1 14 25 15.4	"	4	Ud	iP 07 38 11.6
		Kermadec Islands.				De	iP 07 38 08.7
		h = 35 km (Sk,Ud,De).		"	4	Up	iPKP2 08 37 49.1
"	3	Up	iSgl 15 50 07.6			Sk	iPKP1 08 37 37.6
		Ud	iPgl 15 49 23.0			Um	iPKP1 08 37 32.7 D
			iSgl 15 49 46.5			Ud	iPKP1 08 37 46.6
			iRg 15 49 56.7			Kermadec Islands.	
		De	iSgl 15 49 56.8	"	4	Sk	iPKP 11 13 12.6
		Probably Västergötland, Sweden.				Um	iPKP 11 13 08.2
		Origin time = 15 48 52.				Ud	iPKP 11 13 21.9
		Explosion?				De	iPKP 11 13 28.2
"	3	Sk	iPKP1 22 26 16.7	"	4	Up	iPKP1 11 17 11.2 C
		Ud	i(PKP1) 22 26 31.2			Sk	iPKP1 11 17 04.0 C
		De	iPKP1 22 26 34.7				ipPKP1 11 17 15.0
"	3	Up	iPKP 23 44 47.5			Um	iPKP1 11 16 59.0 C
			iPKP1 23 44 51.0			Ud	iPKP1 11 17 12.3 C
			iPP 23 48 14				iPKP2 11 17 16.7
			micr sec				ipPKP1 11 17 23.9
		PKP	Z' 0.3 1.8			De	iPKP1 11 17 22.1 C
		PKP1	Z' 1.8 1.0				ipPKP1 11 17 33.3
		(cont.)				Kermadec Islands.	
				"	4	h = 35 km (Sk,Ud,De).	
				"	4	Ud	iP 11 46 08.2

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1974				1974			
July				July (cont.)			
4	Sk	iPKP	12 21 27.3	4	Ud	iP	19 39 17.9 C
	Ud	iPKP1	12 21 34.4			ipP	19 39 24.8
	De	iPKP1	12 21 46.5		De	iP	19 39 27.3 C
	Fiji Islands (h = 420 km).				Mongolia.		
"	4	Sk	eSgl 13 10 09		h = 25 km (Up,Ki,Sk,Um,Ud).		
		Um	iSgl 13 08 44.0		m = 6.3, M = 7.5 (Up,Ki).		
		Ud	iSgl 13 09 25.8		Alternatively, pP could		
	Western USSR. Explosion.				instead be P of a second, larger shock.		
"	4	Up	iPKP1 13 53 59.7	"	4	Up	iP 19 47 27.6
			iPKP2 13 54 02.9				micr sec
			micr sec			P	Z' 0.2 1.2
		PKP1	Z' 0.1 0.9		Ki	iP	19 47 06.0
	Sk	iPKP1	13 53 52.1				micr sec
	Um	iPKP1	13 53 47.6			P	Z' 0.2 1.5
	Ud	iPKP1	13 54 01.0		Sk	iP	19 47 39.3
		iPKP2	13 54 04.9		Um	iP	19 47 11.0
	De	iPKP1	13 54 10.4		Ud	iP	19 47 42.6
		iPKP2	13 54 19.5		De	i(P)	19 47 48.2
	Kermadec Islands (h = N).					iP	19 47 52.0
"	4	Um	iSgl 14 34 36.5		Mongolia (h = N).		
		Ud	iSgl 14 36 04.7		m = 5.9 (Up,Ki).		
	Lake Ladoga region. Explosion.			"	4	Up	iP 19 52 48.7 C
"	4	Ud	iSgl 15 11 19.2				micr sec
		De	eSgl 15 10 59			P	Z' 0.1 1.1
"	4	Ud	iP 18 43 46.6		Sk	iP	19 52 57.8
"	4	Ud	iP 18 43 46.6		Um	iP	19 52 31.0
"	4	Ud	iP 18 43 46.6		Ud	iP	19 53 02.9 C
"	4	Ud	iP 18 43 46.6		De	iP	19 53 12.2 C
"	4	Ud	iP 18 43 46.6		Mongolia (h = N).		
"	4	Up	iP 19 39 03.7 C	"	4	Up	iP 20 10 10.7
		ipP	19 39 10.6			Ki	iP 20 09 48.0
		iPP	19 40 52			Sk	iP 20 10 21.7
		iS	19 45 42			Um	iP 20 09 53.3
			micr sec			Ud	iP 20 10 24.7
		P	Z' 0.6 1.0			De	iP 20 10 34.2 C
		pP	Z' 1.5 1.1		Mongolia.		
		Mx	E 140 12		Origin time = 20 01 49.		
		Mx	N 190 12		Origin times are based on our		
		Mx	Z 150 12		own records only, and there-		
	Ki	iP	19 38 40.8 C		fore approximate in case of		
		ipP	19 38 47.8		teleseisms.		
		iS	19 45 08	"	4	Ud	iP 20 48 58.0
			micr sec			De	iP 20 49 04.3
		P	Z' 0.1 1.0	"	4	Up	iPKP1 20 57 05.6
		pP	Z' 0.6 1.3				iPKP2 20 57 08.7
		Mx	E 200 11		Sk	iPKP1	20 56 58.2
		Mx	N 310 17		Um	iPKP1	20 56 53.2
		Mx	Z 210 12		Ud	iPKP1	20 57 07.0
	Sk	iP	19 39 13.8 C			iPKP2	20 57 10.7
		ipP	19 39 21.0		De	iPKP1	20 57 16.4
	Um	iP	19 38 46.1 C		Tonga-Kermadec Islands.		
		ipP	19 38 53.0				
		iPP	19 40 29				
		iS	19 45 14				
	(cont.)						

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

1974								1974						
July	4	Up	iP	21 34	57.9	C		July	5	Up	iSgl	07 41	02.6	
			ipP	21 35	38.9					Ki	iSgl	07 41	44.4	
		Ki	iP	21 35	06.3					Sk	iSgl	07 42	10.7	
		Sk	iP	21 35	23.5					Um	iSgl	07 40	22.7	
		Um	iP	21 34	55.6					Ud	iSgl	07 41	55.6	
		Ud	iP	21 35	14.3					De	iSgl	07 42	43.9	
			ipP	21 35	55.1					Lake Ladoga region. Explosion.				
		De	iP	21 35	10.8									
		Hindu Kush. h = 200 km (Up,Ud).							"	5	Ud	iPKP1	09 09	26.0
"	4	Ki	iP	22 40	18.9			"	5	Ud	iP	09 27	19.7	
		Sk	iP	22 40	15.9					De	iP	09 27	42.4	
		Ud	iP	22 40	24.4									
		Mexico (h = 80 km).							"	5	Up	iSgl	11 08	07.1
"	4	Up	Mx	23 36						Sk	eSgl	11 09	54	
				micr	sec					Um	i	11 08	31.8	
			Mx	E	1.2	21					iSgl	11 08	40.8	
			Mx	N	1.9	21				Ud	iSgl	11 09	08.6	
			Mx	Z	3.1	21				De	iSgl	11 09	43.6	
		Ki	Mx	23 42						Esthonia. Explosion.				
				micr	sec									
			Mx	E	1.2	16			"	5	Up	iSgl	11 26	29.7
			Mx	N	1.8	18				Ki	iPn	11 22	21.9	
			Mx	Z	1.7	17					iSn	11 23	21.2	
		South Pacific Ocean (h = N). M = 6.0 (Up,Ki).									iS*	11 23	39.9	
"	5	Up	i(P)	03 56	29.7					iSgl	11 23	44.8		
"	5	Up	eSgl	04 53	46					Sk	iSgl	11 26	05.5	
		Ki	iSgl	04 51	49.0					Um	iSn	11 23	59.8	
		Sk	iSgl	04 51	53.2						i	11 24	17.4	
		Um	iSn	04 52	03.5						iSgl	11 24	34.0	
			iSgl	04 52	16.7					Ud	eSn	11 26	04	
		Ud	iSgl	04 53	40.4						i	11 27	02.2	
		Nordland, Norway, 66.5°N, 14.1°E. Origin time = 04 50 20. Explosion.									iSgl	11 27	09.1	
										De	iSgl	11 28	44.1	
"	5	Up	Mx	06 14				"	5	Up	iSgl	11 34	10.7	
				micr	sec					Ki	iSgl	11 36	48.2	
			Mx	E	0.9	22				Sk	eSgl	11 36	03	
			Mx	Z	1.1	21				Um	iSgl	11 34	44.4	
		Chile (h = N).								Ud	iSgl	11 35	14.6	
"	5	Ud	iP	06 38	51.2					De	iSgl	11 35	40.5	
"	5	Up	iP	07 25	33.2					Esthonia. Explosion.				
		Ki	iP	07 25	38.8				"	5	Up	iSgl	12 23	22.1
		Sk	iP	07 25	57.1					Ki	iSgl	12 25	20.0	
		Um	iP	07 25	29.3					Sk	iSgl	12 25	09.5	
		Ud	iP	07 25	49.1					Um	iSgl	12 23	36.0	
		De	iP	07 25	47.0						iRg	12 24	06.5	
		Tadzhik SSR (h = N).								Ud	eSn	12 23	42	
											iSgl	12 24	19.5	
										Western USSR. Explosion.				

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1974				1974			
Month	Day	Station	Time	Month	Day	Station	Time
July	5	Up iSgl	15 37 02.0	July	5	Ud iPKP1	23 38 46.0
		Sk iSgl	15 38 22.9				
		Um iSgl	15 36 33.4				
		Ud iSgl	15 37 57.7				
		De eSgl	15 38 56				
		Lake Ladoga region. Explosion.					
"	5	Up iSn	16 21 27.1	"	6	Up iPKP1	04 50 25.7
		iSgl	16 21 47.7			Sk iPKP1	04 50 17.6
		Sk iSgl	16 23 02.0			Um iPKP1	04 50 12.6
		Um iSgl	16 23 42.7			Ud iPKP1	04 50 27.0
		Ud iPn	16 20 37.9			De iPKP1	04 50 35.9
		iPgl	16 20 41.2			Tonga-Kermadec Islands.	
		iSgl	16 21 18.5				
		De iPn	16 20 11.9	"	6	Up iP	06 26 48.5
		iPgl	16 20 13.4			Ud iP	06 27 04.2
		iSn	16 20 29.2			De iP	06 27 09.9
		iSgl	16 20 32.2			Mongolia. Origin time = 06 18 27.	
		Halland, Sweden, 57.3°N, 12.1°E. Origin time = 16 19 50.		"	6	Up iP	09 19 47.8
						Ki iP	09 19 14.9
						Sk eP	09 19 45
						Um iP	09 19 29.0
						Ud iP	09 19 55.0
						South of Japan (h = 450 km).	
"	5	Up iPKP1	18 23 56.2	"	6	Up iP	09 47 44.2
		iX	18 24 19.7			Ud iP	09 48 00.3
			micr sec	"	6	Up iP	11 06 50.8
		X Z'	0.1 1.0			Ki iP	11 06 33.1
		Ki iX	18 24 04.3			Sk eP	11 06 56
		Sk iPKP1	18 23 48.9 C			Um iP	11 06 38.6
		i	18 23 57.2			Ud eP	11 07 02
		iX	18 24 08.3			Luzon.	
		Um iPKP1	18 23 43.6 C	"	6	Ki iPn	11 09 22.4
		Ud iPKP1	18 23 56.6			iSn	11 10 11.3
		iPKP2	18 24 01.2			iS*	11 10 25.6
		iX	18 24 19.9			iSgl	11 10 28.9
		De iPKP1	18 24 06.7 C			Um iSgl	11 11 55.2
		iPKP2	18 24 15.4			i	11 12 00.5
		iX	18 24 25.6			USSR-Norway. Explosion.	
		Kermadec Islands (h = N). X probably belongs to another, larger shock in the same area, 21 sec later.		"	6	Um iP	11 44 34.2
						Ud iP	11 45 04.4
"	5	Ud iP	18 52 51.5			Japan (h = 30 km).	
"	5	Up iP	20 21 54.3	"	6	Ki i(Pn)	12 31 09.3
		ipP	20 22 01.5			iSn	12 31 58.9
		Ki iP	20 21 49.2			iSgl	12 32 20.6
		ipP	20 21 56.6			Sk eSgl	12 34 56
		Sk iP	20 21 36.7			Um eSn	12 32 50
		ipP	20 21 44.5			iSgl	12 33 26.4
		Um iP	20 21 55.0			Northwest USSR. Explosion.	
		ipP	20 22 02.4				
		Ud iP	20 21 43.8	"	6	Um iPKP	12 40 19.3
		ipP	20 21 51.4			i	12 40 34.4
		Caribbean Sea. h = 30 km (Up,Ki,Sk,Um,Ud).				Ud ePKP	12 40 12
						(cont.)	

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

1974				1974			
July	6	(cont.)		July	6	(cont.)	
		Ud	i 12 40 22.5			Um	iP 21 39 13.5
		Easter Island region (h = N).					ipP 21 39 19.7
"	6	De	iP 13 01 42.6			Ud	iP 21 38 49.6
							ipP 21 38 56.1
"	6	Sk	ipKP1 13 12 16.6			South Atlantic Ocean.	
			ipKP1 13 12 28.0			h = 25 km (Um,Ud).	
		Ud	ipKP1 13 12 25.4	"	6	Up	ipKP1 23 39 08.5
			ipKP1 13 12 36.9				micr sec
		Kermadec Islands.					PKP1 Z' 0.1 0.8
		h = 40 km (Sk,Ud).				Ki	ipKP 23 38 51.5
"	6	Sk	ipKP1 13 13 51.2			Sk	ipKP1 23 39 01.4
"	6	Up	ipKP 15 10 25.6			Um	ipKP1 23 38 57.2
			ipPKP 15 10 33.9			Ud	ipKP1 23 39 10.3
			micr sec				ipPKP1 23 40 30.6
		Mx	N 0.9 20			De	ipKP1 23 39 19.9
		Mx	Z 0.8 20				ipKP2 23 39 25.4
		Ki	ipPKP 15 10 44.6			Tonga-Kermadec Islands.	
		Sk	ipPKP 15 10 40.4			h = 330 km (Ud).	
		Um	ipPKP 15 10 41.7	"	7	Sk	ipKP1 00 14 26.7
		Ud	ipKP 15 10 24.1			Um	ipKP1 00 14 27.0
			ipPKP 15 10 32.7			Ud	ipKP1 00 14 40.8
		De	ipPKP 15 10 26.2	"	7	Ki	iP 00 49 58.6
		Scotia Sea.				Ud	iP 00 50 25.0
		h = 30 km (Up,Ud).				Mindanao (h = N).	
"	6	Up	iP 15 53 57.4	"	7	Up	ipKP1 02 59 41.7
		Ki	iP 15 53 25.7			Sk	ipKP1 02 59 34.2
		Um	iP 15 53 34.7				ipPKP1 02 59 44.2
			i 15 53 40.6			Um	ipKP1 02 59 30.8
		Ud	iP 15 54 01.2			Ud	ipKP1 02 59 43.4
"	6	Up	iP 20 24 21.5				ipPKP1 02 59 53.6
			micr sec			De	ipKP1 02 59 52.3
		P	Z' 0.1 1.0				ipPKP1 03 00 02.4
		Ki	ipP 20 23 47.2 D			Kermadec Islands.	
		Sk	ipP 20 24 19.5			h = 35 km (Sk,Ud,De).	
		Um	ipP 20 24 01.1 D	"	7	Ki	iSn 06 33 50.0
		Ud	ipP 20 24 29.8 D				iSgl 06 34 13.1
			i 20 24 40.0			Um	i 06 34 39.7
		Japan (h = 70 km).					iSgl 06 35 02.1
"	6	Up	iP 20 29 27.9			Northwest USSR.	
		Um	iP 20 29 09.6			Explosion.	
		De	iP 20 29 51.4	"	7	Up	iSgl 07 31 43.5
		Mongolia (h = N).				Ud	eSgl 07 31 29
"	6	Ud	iP 21 31 38.2				e 07 31 46
		De	iP 21 31 35.4			De	ipGl 07 29 18.5
"	6	Up	iP 21 38 53.1				iSgl 07 29 45.3
		Sk	iP 21 39 05.1			Baltic Sea, south of Sweden.	
		(cont.)				Explosion.	
"	6	Ud	iP 07 53 30.2	"	7	Ud	iP 07 53 30.2
		North Atlantic Ocean (h = N).				North Atlantic Ocean (h = N).	

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

1974				1974			
July	8	(cont.)		July	9	(cont.)	
		De	iP 06 05 12.0			Ki	iP 02 38 34.7 C
			i 06 05 17.5				micr sec
		Sinkiang, China.				Mx	E 0.5 9
"	8	Ud	eSgl 07 46 15			Mx	N 0.4 9
			i 07 46 24.8			Mx	Z 0.4 9
		De	ePgl 07 44 02			Sk	iP 02 38 08.0
			iSgl 07 44 26.7			Um	iP 02 37 58.0
		Baltic Sea, south of Sweden.					i 02 38 05.7
		Explosion.				Ud	iP 02 37 38.0
							ipP 02 37 52.5
"	8	Ud	i(Sgl) 08 31 22.2			De	iP 02 37 06.7
			i 08 31 27.4				i 02 37 12.0
		De	iPgl 08 29 01.0			Dodecanese Islands.	
			iSgl 08 29 28.8			h = 70 km (Up,Ud).	
		Baltic Sea, south of Sweden.				M = 4.7 (Up,Ki).	
		Explosion.		"	9	Up	iP 07 13 11.8 C
"	8	Ud	iPKP1 10 08 30.4			Ki	iP 07 12 40.4 C
"	8	Up	iP 12 20 19.3			Sk	iP 07 13 08.5
			i 12 20 51.8			Um	iP 07 12 53.9 C
		Ki	iP 12 19 24.6			Ud	iP 07 13 18.6
		Sk	iP 12 20 01.4			De	iP 07 13 30.4
		Ud	iP 12 20 21.7			Bonin Islands (h = 430 km).	
		De	iP 12 20 43.4	"	9	Sk	iP 07 27 26.5
		Kamchatka (h = 60 km).				Ud	iP 07 27 23.8
						India-China (h = 55 km).	
"	8	Um	iSgl 12 20 18.9	"	9	Up	micr sec
		Western USSR.				Mx	N 0.5 14
		Explosion.				Ki	iP 09 03 38.6
"	8	Ud	e 13 00 29			Sk	eP 09 04 12
		De	ePgl 12 58 06			Um	iP 09 03 54.7
			iSgl 12 58 32.0			Ud	iP 09 04 23.5
		Baltic Sea, south of Sweden.				Japan (h = 15 km).	
		Explosion.		"	9	Um	iSgl 12 08 35.3
"	8	Up	iP 21 01 25.2			Ud	iSgl 12 09 29.5
"	8	De	iPKP1 22 36 28.3			De	iSgl 12 09 50.5
"	8	Ud	iP 23 39 58.4			Western USSR.	
		De	iP 23 40 00.5			Explosion.	
		Mongolia.		"	9	Sk	ePKP1 12 09 49
"	9	Ud	iPKP1 01 29 13.2			Ud	iPKP1 12 09 57.6
		De	iPKP1 01 29 24.6	"	9	Ki	iPn 12 24 46.8
"	9	Up	iP 02 37 28.2 C				iPgl 12 24 54.8
			ipP 02 37 41.4				iSn 12 25 33.2
			micr sec				iSgl 12 25 47.6
		Mx	E 1.4 15			Sk	eSgl 12 28 36
		Mx	N 0.8 15			Um	iSgl 12 27 28.0
		Mx	Z 0.8 15			USSR-Norway.	
		(cont.)				Explosion.	
"	9	Up	iSgl 13 41 31.7	"	9	Up	iSgl (cont.)

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

1974				1974			
July	9	(cont.)		July	9	(cont.)	
		Sk eSgl	13 41 47			Ki iPgl	20 49 57.4
		Ud iPgl	13 40 10.2			iSgl	20 50 32.6
			iSgl			Sk iPgl	20 49 59.3
		De eSgl	13 41 41			iSgl	20 50 37.0
		Southeast Norway, 59.7°N, 10.5°E. Origin time = 13 39 42.				iSg2	20 50 41.0
"	9	Ud i(Sgl)	14 12 11.8			Um iPgl	20 50 12.5
		De iSgl	14 10 20.2			iSn	20 50 46.3
		Baltic Sea, south of Sweden. Explosion.				iSgl	20 51 00.5
"	9	Up iP	16 31 02.1 C			Ud iSgl	20 52 27.6
			micr sec			Nordland, Norway, 66.4°N, 14.4°E. Origin time = 20 49 10. Explosion.	
		P Z'	0.1 0.7	"	9	Up iP	23 43 33.5
		Ki iP	16 30 45.7 C			Ki iP	23 43 04.6
			micr sec			Um iP	23 43 20.5
		Mx E	0.5 12			De iP	23 43 53.8
		Mx N	0.6 16			Mariana Islands (h = 120 km).	
		Mx Z	0.5 12	"	10	Up iP	03 03 52.9 C
		Sk iP	16 31 12.5			iPn	03 04 58.4
		Um iP	16 30 49.4 C			Ki iP	03 03 37.4 C
		Ud iP	16 31 14.3 C				micr sec
		Szechwan, China (h = N).				P Z'	0.1 0.5
"	9	Up iP	17 04 32.7 C			Sk iP	03 04 08.3
		Sk iP	17 04 25.3 C			iPP	03 05 30.1
		Um iP	17 04 20.0			Um iP	03 03 37.8
		Ud iP	17 04 34.3 C			iPn	03 04 35.0
			iPKP2			Ud iP	03 04 09.3 C
		De iP	17 04 43.0			iPP	03 05 32.4
		Kermadec Islands (h = N).				De iP	03 04 17.1
"	9	Up iSgl	17 27 46.7			iPP	03 05 44.1
		Um iSgl	17 28 34.7			Kazakh SSR. Underground explosion.	
		Ud iSgl	17 28 48.1	"	10	Um iP	03 28 29.0
		Near coast of southwest Finland. Explosion? Solution from Helsinki regional bulletin.				Ud iP	03 28 51.0
"	9	Ki iP	17 49 35.6			De iP	03 28 49.8
		Sk eP	17 49 21			Fergana.	
			ipP	"	10	Up iP	04 19 28.3
		Um iP	17 49 40.7			Ud iP	04 19 29.8
			ipP	"	10	Up iP	04 42 09.4 C
		Ud epP	17 49 38			ipP	04 42 20.2
		Caribbean Sea. h = 30 km (Sk,Um).				Ki iP	04 42 11.2
"	9	Ud iP	17 58 16.3			ipP	04 42 21.9
"	9	Ud iP	18 12 59.1			Sk iP	04 42 24.8
"	9	Up iSgl	20 52 38.0			ipP	04 42 35.7
		(cont.)				Um iP	04 42 07.4
						ipP	04 42 18.0
						Ud iP	04 42 20.1 C
						ipP	04 42 31.0
						De iP	04 42 17.7 C
						ipP	04 42 29.0
						(cont.)	

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

1974
July 10 (cont.)
Sumatra.
h = 40 km (Up,Ki,Sk,Um,Ud,
De).
" 10 Ki iSgl 07 18 55.4
Sk eSgl 07 21 30
Um iSgl 07 20 07.0
North Finland,
68.0°N, 28.0°E.
Origin time = 07 17 24.
By combination with Finnish
station readings.
" 10 Up iP 09 11 39.4
Ud iP 09 11 47.0
" 10 Sk iP 11 56 25.9
Ud iP 11 56 08.6
" 10 Um iP 12 00 39.8
" 10 Ud iP 12 20 38.0
De iP 12 20 05.1
Dodecanese Islands
(h = 45 km).
" 10 Um iSgl 12 38 43.6
Ud iSgl 12 39 33.6
De iSgl 12 39 55.6
Western USSR.
Explosion.
" 10 Ki i 12 47 22.0
iSn 12 47 33.1
iS* 12 47 45.3
USSR-Norway.
Explosion.
" 10 Up iP 12 55 57.8
i 12 56 11.2
Ki iP 12 55 40.7
Sk eP 12 56 09
Ud iP 12 56 10.6
Szechwan, China (h = N).
" 10 Ki iSgl 14 01 32.2
Sk iSgl 14 01 48.8
Um iSgl 14 00 03.2
Ud iSgl 14 01 28.6
Lake Ladoga region.
Explosion.
" 10 Up iP 16 11 48.9 C
micr sec
P Z' 0.2 1.1
Ki iP 16 11 14.7 C
(cont.)

1974
July 10 (cont.)
Ki micr sec
P Z' 0.3 1.5
Sk iP 16 11 22.6 C
Um iP 16 11 34.0 C
Ud iP 16 11 41.0 C
De iP 16 11 57.6
Nevada.
m = 6.2 (Up,Ki).
Underground explosion.
" 10 Up iSn 16 15 54.4
iSgl 16 16 03.4
iRg 16 16 22.0
Ud iPgl 16 14 53.1
iSgl 16 15 13.3
iRg 16 15 22.3
De iSgl 16 15 44.9
Dalsland, Sweden,
58.8°N, 12.4°E.
Origin time = 16 14 28.
Near-surface event.
" 10 Up i 17 48 31.5
i(Sgl) 17 48 43.8
" 10 Up iP 18 20 35.4 C
Ki iP 18 20 24.5
Sk iP 18 20 49.8
Um iP 18 20 25.1 C
Ud iP 18 20 48.9 C
India-China (h = N).
" 10 Up iP 18 36 14.4
Sk iP 18 36 30.5
De iP 18 36 13.6
" 10 Ud iP 18 42 52.9
Molucca Passage (h = N).
" 10 Sk iP 19 40 33.0
Ud iP 19 40 00.8 C
Greece (h = 60 km).
" 11 Ki iP 02 26 41.7
Alaska (h = 90 km).
" 11 ✓ Up iP 05 47 43.9
micr sec
P Z' 0.1 1.0
Mx E 0.7 18
Mx Z 1.1 17
Ki iP 05 47 17.6 C
micr sec
P Z' 0.1 1.0
Sk iP 05 47 41.7
Um iP 05 47 28.6 C
(cont.)

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

1974

July 11 (cont.)
 Um i 05 47 35.1
 ipP 05 47 41.6
 Ud iP 05 47 50.6
 Mariana Islands.
 h = 50 km (Um).
 m = 6.1 (Up,Ki).

" 11 Up iSgl 13 41 57.6
 Ki iSgl 13 44 01.6
 Sk eSgl 13 43 40
 Um iSgl 13 42 19.4
 Ud iSgl 13 43 00.8
 Western USSR.
 Explosion.

" 11 Up iSgl 14 32 48.6
 Sk eSgl 14 32 48
 Um iSgl 14 34 10.0
 Ud iPgl 14 30 54.5
 iSn 14 31 32.9
 i 14 31 44.0
 iSgl 14 31 50.6
 De eSgl 14 32 11
 Southwest Norway,
 58.5°N, 6.4°E.
 Origin time = 14 29 45.
 By combination with Bergen
 and Kongsberg readings.

" 11 Up i(pP) 16 05 28.1
 Ki eP 16 04 19
 Um iP 16 04 40.4
 ipP 16 04 58.4
 Ud iP 16 05 11.1
 Japan.
 h = 70 km (Um).

" 11 Up iP 17 59 43.1
 i 17 59 54.1
 micr sec
 i Z' 0.1 1.0
 Mx E 0.8 14
 Mx N 1.2 14
 Mx Z 2.0 17
 Ki iP 17 58 32.1 C
 iS 18 00 14.5
 micr sec
 P Z' 0.2 1.0
 Mx E 2.5 16
 Mx N 3.3 15
 Mx Z 1.4 15
 Sk iP 17 58 42.5
 iS 18 00 32.5
 Um iP 17 59 08.9 C
 i 17 59 19.0
 (cont.)

1974

July 11 (cont.)
 Ud iP 17 59 28.6
 i 17 59 41.0
 De iP 18 00 17.5
 Jan Mayen (h = N).
 M = 4.3 (Up,Ki).

" 11 Ud iPKP1 19 30 28.2
 De iPKP1 19 30 38.4
 Tonga-Kermadec Islands
 (h = 220 km).

" 12 Sk iPKP1 03 04 27.1

" 12 Up iSgl 12 01 23.3
 Um iSgl 12 01 56.0
 Ud iSgl 12 02 25.1
 Esthonia.
 Explosion.

" 12 Ki iPn 12 20 41.5
 iSgl 12 21 44.9
 USSR-Norway.
 Explosion.

" 12 Up iSgl 12 47 05.1
 Ki iPn 12 42 56.3
 iSn 12 43 55.6
 Sk iSgl 12 46 44.1
 Um iSn 12 44 36.9
 i 12 44 52.0
 iSgl 12 45 10.5
 Ud iSgl 12 47 41.9
 De iSgl 12 49 15.2
 Northwest USSR.
 Explosion.

" 12 Um eSgl 12 48 42
 Lake Ladoga region.
 Explosion.

" 12 Sk iPKP1 13 18 24.5
 Um iPKP1 13 18 19.2
 Ud iPKP2 13 18 42.7

" 12 Up iPKP1 16 02 04.4
 Sk iPKP1 16 01 55.5
 Ud iPKP1 16 02 08.5

" 12 Up iPKP1 16 51 39.0
 Sk iPKP1 16 51 31.9
 ipPKP1 16 51 44.6
 Um iPKP1 16 51 27.2
 Ud iPKP1 16 51 40.7 C
 iPKP2 16 51 44.9
 De iPKP1 16 51 50.2 C
 Kermadec Islands.
 h = 45 km (Sk).

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

1974				1974							
July	12	Sk	iPKP1	18 25 33.4	July	13	Sk	iP	01 37 36.6 C		
			ipPKP1	18 25 46.0			Um	iP	01 37 53.5		
		Ud	iPKP1	18 25 42.7			Panama-Colombia.				
		De	iPKP1	18 25 51.7			Origin time = 01 25 10.				
		Kermadec Islands.					"	13	Up	i(P)	01 38 30.9
		h = 45 km (Sk).							Sk	iP	01 38 31.0
		Origin time = 18 06 04.							Um	iP	01 38 41.3
"	12	Ki	iP	18 39 58.9	"	13	Um	iP	01 40 44.0		
		Ud	iP	18 40 22.3			"	13	Up	iP	01 43 35.9 C
		Molucca Passage (h = 55 km).							iX	01 44 10.2	
"	12	Ud	iP	19 28 08.8					iY	01 44 32.9	
"	13	Ki	iPn	00 32 08.2					micr sec		
			iSn	00 33 04.6				X	Z'	0.2 1.5	
			eS*	00 33 24			Ki	iP	01 43 36.3 C		
		Northwest USSR.						iX	01 44 10.3		
		Explosion.						micr sec			
"	13	Up	iP	01 31 04.1 C				P	Z'	0.1 1.2	
			iX	01 31 25.3				X	Z'	1.0 1.9	
			i	01 31 33.1			Sk	iP	01 43 22.5 C		
			iSKS	01 41 26				ipP	01 43 26.3		
			iS	01 41 38				iX	01 43 56.6		
			micr sec				Um	iP	01 43 39.2 C		
		P	Z'	1.2 1.5				ipP	01 43 43.1		
		X	Z'	3.6 2.0				iX	01 44 11.9		
		Mx	E	79 23			Ud	iP	01 43 25.9 C		
		Mx	N	60 24				iX	01 44 02.5		
		Mx	Z	160 23				iY	01 44 21.0		
		Ki	iP	01 31 04.2 C			De	iP	01 43 28.7		
			iX	01 31 26.0				ipP	01 43 32.4		
			iSKS	01 41 31				iX	01 44 04.7		
			iP'P'	01 57 07.2				i	01 44 44.6		
			micr sec				Panama-Colombia.				
		P	Z'	3.0 1.8			h = 15 km (Sk,Um,De).				
		X	Z'	8.3 2.4			m = 6.4 (X) (Up,Ki).				
		Mx	E	120 22			In average, X - P = 34.6 sec,				
		Mx	N	95 22			X probably being P of another				
		Mx	Z	110 22			shock.				
		Sk	iP	01 30 49.5	"	13	Up	iP	01 52 43.1		
			iX	01 31 13.0			Ki	iP	01 52 44.3		
			iP'P'	01 57 13.3			Sk	iP	01 52 28.7		
		Um	iP	01 31 06.5				i	01 52 31.2		
			iX	01 31 28.7			Um	iP	01 52 46.6		
			iS	01 41 45				i	01 52 47.9		
			iP'P'	01 57 10.8			Ud	iP	01 52 33.4		
		Ud	iP	01 30 53.9 C				i	01 52 39.0		
			iX	01 31 15.4			De	iP	01 52 36.0		
		De	iP	01 30 57.3			Colombia (h = 20 km).				
			iX	01 31 18.5	"	13	Sk	iP	02 04 58.5		
		Panama-Colombia (h = 10 km).					Um	iP	02 05 15.7		
		m = 7.0 (P), 7.4 (X),					Ud	iP	02 05 01.5		
		M = 7.2 (Up,Ki).					Panama-Colombia.				
		Complex P-wave group.					Origin time = 01 52 34.				
		X - P = 21.9 sec in average,									
		X probably being P of another									
		shock in the same area.									

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

1974

July 13 Ki iP 02 09 19.1 C
Sk iP 02 09 04.6
Um iP 02 09 22.0 C
Ud iP 02 09 09.1
Panama-Colombia (h = N).

" 13 Up iP 02 14 58.4
Ki eP 02 15 00
Sk eP 02 14 46
Um iP 02 15 03.3
De iP 02 14 53.3
Panama-Colombia (h = N).

" 13 Up iP 02 15 44.6
i 02 15 48.5

" 13 ✓ Up iP 02 19 55.3
Ki iP 02 19 53.1 C
P Z' 0.1 1.5
Sk iP 02 19 39.3 C
ipP 02 19 43.9
Um iP 02 19 56.6 C
ipP 02 20 00.8
Ud iP 02 19 46.0 C
De iP 02 19 50.3
Panama-Colombia.
h = 15 km (Sk,Um).

" 13 Up iP 02 25 17.7
Ki iP 02 25 18.2 C
Sk iP 02 25 04.0
Um iP 02 25 21.2 C
i 02 25 23.6
Ud iP 02 25 10.3
De iP 02 25 10.9
Panama-Colombia (h = N).

" 13 Ki iP 02 27 33.9
Sk iP 02 27 20.6
Um iP 02 27 37.6
Ud iP 02 27 23.7
De iP 02 27 26.9
Panama-Colombia (h = 25 km).

" 13 ✓ Up iP 02 33 00.8
ipP 02 33 16.8
P Z' 0.2 1.6
Ki iP 02 33 01.3 C
ipP 02 33 14.8
P Z' 0.2 1.5
Sk iP 02 32 47.5 C
ipP 02 33 03.5
Um iP 02 33 04.3 C
(cont.)

1974

July 13 (cont.)
Um ipP 02 33 19.6
Ud iP 02 32 50.9 C
De iP 02 32 53.8
ipP 02 33 09.8

Panama-Colombia.
h = 55 km (Up,Ki,Sk,Um,De).
m = 6.1 (Up,Ki).

" 13 Ki iP 02 43 26.6
Sk iP 02 43 12.6
Panama-Colombia.

Origin time = 02 30 48.

" 13 Up iP 02 51 33.1
Ki iP 02 51 32.2
Sk iP 02 51 18.0
i 02 51 24.9
Um iP 02 51 34.8
Ud iP 02 51 22.4
De iP 02 51 22.8
Panama-Colombia (h = N).

" 13 Ki iP 02 55 44.9
Sk iP 02 55 30.6
Um iP 02 55 46.3
Panama-Colombia (h = 50 km).

" 13 Ki iP 03 00 44.4
Sk eP 03 00 28
Um iP 03 00 48.1
Panama-Colombia (h = N).

" 13 Ki iP 03 11 25.0 C
Sk iP 03 11 11.4
Um iP 03 11 28.0 C
Panama-Colombia (h = N).

" 13 Up iP 03 24 35.6
Ki iP 03 24 19.1
Sk iP 03 24 46.7
Um iP 03 24 22.4
i 03 24 33.5
Ud iP 03 24 47.9
Szechwan, China (h = N).

" 13 Up iP 03 36 50.7

" 13 Sk iP 03 52 53.3

" 13 Ki iP 03 57 56.9
Sk iP 03 57 42.1
Um iP 03 57 59.1
Ud iP 03 57 46.2
Panama-Colombia (h = 40 km).

" 13 Up ipP 04 03 51.2
(cont.)

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

1974				1974			
July	13	(cont.)		July	13		
		Ki	iP 04 03 43.4			Sk	iP 09 44 49.2
			ipP 04 03 52.6	"	13	Ki	iP 09 53 28.0
			micr sec			Panama-Colombia (h = N).	
			Z' 0.2 1.7				
		Sk	iP 04 03 28.9	"	13	Up	iP 10 34 04.9
			ipP 04 03 37.7				i 10 34 07.4
		Um	iP 04 03 46.1			Ki	iP 10 34 05.7
			ipP 04 03 55.1			Sk	iP 10 33 51.8
		Ud	iP 04 03 33.4				i 10 33 54.4
			ipP 04 03 43.0			Um	iP 10 34 08.0
		De	iP 04 03 37.5				i 10 34 10.5
			i(pP) 04 03 44.1			Ud	iP 10 33 55.4
		Panama-Colombia.				De	iP 10 33 57.4
		h = 35 km (Ki,Sk,Um,Ud).					i 10 34 00.5
		Alternatively, pP, being larger than P, could be P of another shock in the same area. This interpretation is more likely, considering the general absence or weakness of pP in this series of shocks.				Panama-Colombia (h = 10 km).	
"	13	Ki	iP 04 42 13.5	"	13	Up	iP 10 49 43.9
		Sk	iP 04 42 00.2				micr sec
		Panama-Colombia (h = N).					P Z' 0.1 1.0
"	13	Ki	iP 05 07 35.1	"	13	Ki	iP 10 49 15.9
		Sk	iP 05 07 20.3			Sk	iP 10 49 45.6
		Um	iP 05 07 37.0			Um	iP 10 49 26.0
		Panama (h = N).				Ud	iP 10 49 52.8
"	13	Ud	iP 05 46 54.8				i 10 50 29.8
		Kurile Islands.				De	iP 10 50 03.0
"	13	Ki	iP 05 58 27.3	"	13	Formosa (h = 100 km).	
		De	iP 05 58 20.2			Ki	iP 11 56 45.0 C
		Panama-Colombia (h = N).				Sk	iP 11 56 30.8
"	13	Ki	iP 06 10 11.2			Um	iP 11 56 48.0
		Sk	iP 06 09 56.8			Ud	iP 11 56 33.3
		Panama-Colombia (h = 50 km).				Panama-Colombia (h = 40 km).	
"	13	Um	iP 06 18 16.3	"	13	Up	eSgl 12 18 47
"	13	Up	iPKP1 07 33 56.8			Ki	iPn 12 14 29.1
		Ud	iPKP1 07 33 59.2				iPgl 12 14 41.0
"	13	Up	iP 08 46 11.7 C				iSn 12 15 25.3
		Ki	iP 08 46 11.8				iSgl 12 15 46.9
		Sk	iP 08 46 37.8			Sk	eSn 12 17 29
		Ud	iP 08 46 28.0				iSgl 12 18 17.7
		Sinkiang, China (h = 55 km).				Um	iSn 12 16 08.0
"	13	Sk	iP 09 12 21.8				iSgl 12 16 45.0
		Ud	iP 09 12 26.0			Northwest USSR.	
		Panama (h = N).				Explosion.	
"	13	Ki	iP 12 24 25.7	"	13	Ki	iP 12 53 57.2
		Panama (h = N).					i 12 54 02.8
"	13	Sk	iP 12 54 20.5	"	13	Sk	iP 12 54 20.5
		Alaska (h = 55 km).				Alaska (h = 55 km).	
		Our readings are late compared to the NEIS solution.				Our readings are late compared to the NEIS solution.	
"	13	Ki	iP 13 00 18.7	"	13	Ki	iP 13 00 18.7
		(cont.)				(cont.)	

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

1974

July	13	(cont.)					
		Ki	i	13 00	22.1		
		Sk	iP	13 00	07.3		
		Um	iP	13 00	21.6		
			i	13 00	25.2		
		Panama-Colombia (h = 30 km).					
"	13	Ki	iP	13 13	35.2		
			i	13 14	01.1		
		Sk	iP	13 13	19.2		
		Um	iP	13 13	37.4		
			i	13 13	50.8		
		Ud	iP	13 13	25.9		
		De	iP	13 13	30.4		
		Panama-Colombia (h = N).					
"	13	Ud	iSgl	13 17	36.6		
		Southwest Norway.					
		Origin time = 13 15 45.					
		By combination with Bergen readings.					
"	13	Ki	iP	14 15	05.7		
		Sk	iP	14 14	51.3		
		Um	iP	14 15	08.5		
			i	14 15	13.4		
		Panama-Colombia (h = N).					
"	13	Ki	eP	14 57	35		
		Alaska (h = 90 km).					
"	13	Sk	eP	15 57	20		
		Um	iP	15 57	36.5		
		Panama-Colombia (h = 7 km).					
"	13	Up	iP	16 02	50.2 C		
					micr sec		
		P	Z'	0.1	1.0		
		Mx	E	0.4	12		
		Mx	N	0.6	16		
		Mx	Z	0.7	17		
		Ki	iP	16 03	59.0		
					micr sec		
		Mx	E	1.0	14		
		Mx	N	0.5	15		
		Mx	Z	0.5	12		
		Sk	iP	16 03	14.3		
		Um	iP	16 03	26.0		
		Ud	iP	16 02	43.7		
			i	16 04	18.3		
		De	iP	16 02	12.3 C		
			i(pP)	16 02	21.7		
		Algeria (h = 35 km).					
		M = 4.6 (Up,Ki).					
"	13	Up	iP	16 28	33.5		
		Ki	iP	16 28	36.3		
		(cont.)					

1974

July	13	(cont.)					
		Sk	iP	16 28	22.2		
			i	16 28	31.6		
		Um	iP	16 28	39.0		
		Ud	iP	16 28	25.7		
		De	iP	16 28	28.6		
		Panama-Colombia (h = 20 km).					
"	13	Up	iP	16 40	24.5 C		
			i	16 40	31.0		
"	13	Ki	iP	16 47	59.6		
		Sk	iP	16 47	45.9 C		
		Um	iP	16 48	03.0		
		Ud	iP	16 47	49.6 C		
		De	iP	16 47	52.4		
		Panama-Colombia (h = 35 km).					
"	13	Ud	i(P)	17 07	38.9		
"	13	Up	iP	18 01	32.3		
		Ki	iP	18 01	32.5		
		Sk	iP	18 01	18.2		
		Um	iP	18 01	35.6		
		Ud	iP	18 01	22.3		
		De	iP	18 01	24.0		
		Panama-Colombia (h = 20 km).					
"	13	Um	iP	18 08	16.5		
"	13	Up	iP	18 11	24.6		
			iS	18 21	55		
					micr sec		
		P	Z'	0.2	1.7		
		Mx	E	0.9	18		
		Mx	N	0.9	20		
		Mx	Z	1.5	18		
		Ki	iP	18 11	23.5		
					micr sec		
		P	Z'	0.7	2.2		
		Mx	E	1.4	17		
		Mx	N	1.3	17		
		Mx	Z	1.2	16		
		Sk	iP	18 11	08.4		
		Um	eP	18 11	26		
			iS	18 22	05		
		Ud	iP	18 11	14.1		
		De	iP	18 11	16.1		
			i	18 11	19.1		
		Panama-Colombia (h = 5 km).					
		m = 6.3, M = 5.4 (Up,Ki).					
		P Z' exhibits unusually long periods.					
"	13	Up			micr sec		
		Mx	E	0.7	18		
		Mx	N	0.8	18		
		Mx	Z	1.2	18		
		(cont.)					

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

1974				1974									
July	14	Up	iP	04	09	27.1	July 14 (cont.) relative numbers: Sk:Ki:Um:Ud:De:Up = 2.6: 2.6:2.4:1.8:1.3:1, which is not typical for our stations.						
		Ki	iP	04	09	34.1							
		Sk	eP	04	09	52							
		Um	iP	04	09	24.0							
		Ud	iP	04	09	42.3							
		De	eP	04	09	42							
		Afghanistan-USSR (h = 120 km).		"	14	Up	iP	09	51	31.2			
"	14	Ki	iP	05	44	07.1	↙Ki	iP	09	51	19.7		
		Sk	iP	05	43	52.6		iSKS	10	01	40		
		Um	iP	05	44	08.3					micr sec		
		Panama-Colombia.					Mx	N	0.9	22			
		Origin time = 05 31 28.					Ud	iP	09	51	39.9		
		Greenland Sea (h = 15 km).					Flores Island (h = 120 km).						
"	14	Up	iP	06	16	52.2	"	14	Up	eP	11	26	11
		Ki	iP	06	15	31.1			Sk	iP	11	26	48.1
		Sk	iP	06	16	13.1			Ud	iP	11	26	16.0
		Um	iP	06	16	12.2			Greece (h = 40 km).				
		Ud	iP	06	16	47.9	"	14	Up	iP	11	43	52.2
		Greenland Sea (h = 15 km).							Sk	iP	11	44	35.2
"	14	Up	iSn	06	29	15.2			Ud	iP	11	43	57.0
			i	06	30	12.8			Ionian Sea.				
			iSgl	06	30	17.6	"	14	Up	iPKP1	13	17	04.0
		Ki	iPn	06	26	03.8			Sk	iPKP1	13	16	56.4
			iSn	06	27	02.0			Um	iPKP1	13	16	51.6
			iSgl	06	27	23.4			Ud	iPKP1	13	17	05.4
		Sk	eSn	06	28	53			De	iPKP1	13	17	14.7
			iSgl	06	29	49.9			Kermadec Islands.				
		Um	iSn	06	27	43.1			Origin time = 12 57 23.				
			iSgl	06	28	15.9	"	14	Sk	iPKP1	14	08	53.1
		Ud	iSn	06	29	41.9			Um	iPKP1	14	08	48.0
			iSgl	06	30	46.5			Ud	iPKP1	14	09	01.4
		De	iSgl	06	32	17.7			Kermadec Islands (h = 35 km).				
		Northwest USSR.					"	14	Up	iP	15	36	24.7
		Explosion.							Ki	iP	15	35	48.0
"	14	Ki	i(P)	07	02	04.6	"	14	Sk	iP	15	36	20.4
"	14	Sk	iPKP1	07	24	13.7			Um	iP	15	36	04.0 C
		Um	iPKP1	07	24	08.6			Ud	iP	15	36	32.1 C
			iX	07	24	23.3			De	iP	15	36	45.8
		Ud	iPKP1	07	24	21.6			Japan (h = 130 km).				
			iX	07	24	38.2							
		Kermadec Islands (h = 15 km).					"	14	Up	iP	16	35	13.8
"	14	Ki	eP	07	26	09			Ki	iP	16	34	23.5
		Sk	iP	07	25	55.0			Sk	iP	16	34	59.6
		Um	iP	07	26	12.0			Um	iP	16	34	47.0
		Ud	iP	07	25	58.0			Ud	iP	16	35	18.6
		Panama-Colombia (h = 35 km).							De	iP	16	35	39.1
		Arranging our stations in order of sensitivity (measured by number of recorded shocks) for the Panama-Colombia series on July 13-14, we find the following sequence and (cont.)					"	14	Up	i	17	35	28.3
										iSgl	17	35	31.8
										iRg	17	35	38.1
									(cont.)				

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

1974				1974			
July	15	Ki	iP	19 42	50.4	July	16 (cont.)
		Sk	iP	19 42	38.1		Um iP
		Um	iP	19 42	53.4		12 48 23.5
		Ud	iP	19 42	43.7		Panama-Colombia (h = N).
				Panama-Colombia (h = 40 km).		"	16
"	15	Up	iP	23 24	07.7 C	Up	iSgl
					micr sec	Ki	iSgl
			P	Z'	0.1 1.3	Sk	iSgl
		Ki	iP	23 24	08.1	Um	iSgl
					micr sec	Ud	iSgl
			P	Z'	0.1 1.3	De	eSgl
		Sk	iP	23 23	54.5 C	Esthonia. Explosion.	
		Um	iP	23 24	11.2 C	"	16
		Ud	iP	23 23	58.0 C	Up	iSgl
		De	iP	23 24	00.9	Ki	iSgl
				Panama-Colombia (h = 30 km). m = 5.9 (Up,Ki).		Sk	eSgl
"	16	Sk	iPKP1	02 32	26.1	Um	iSgl
			i	02 32	39.7	Ud	iSgl
		Um	iPKP1	02 32	22.0	De	iSgl
		Ud	iPKP1	02 32	36.2	Western USSR. Explosion.	
		De	iPKP1	02 32	45.1	"	16
				Kermadec Islands (h = 60 km).		Um	iSgl
"	16	Up	iPKP1	02 39	48.0	14 14 38.2	
		Sk	iPKP1	02 39	39.8	Western USSR. Explosion.	
		Um	iPKP1	02 39	35.2	"	16
		Ud	iPKP1	02 39	49.6	Ki	iP
		De	iPKP1	02 39	58.2	Um	iP
				Kermadec Islands (h = 70 km).		Ud	e(P)
"	16	Ki	iP	04 19	12.9	16 08 57.5	
		Ud	iP	04 18	59.6	16 08 25	
"	16	Up	iPKP1	07 08	58.9 C	Azores Islands (h = N).	
			ipPKP1	07 09	12.1	"	16
		Sk	iPKP1	07 08	51.6	De	iPKP
			ipPKP1	07 09	04.5	16 35 47.2	
		Um	iPKP1	07 08	46.6	Solomon Islands (h = 150 km).	
			ipPKP1	07 08	59.9	"	17
		Ud	iPKP1	07 09	00.5 C	Up	iP
			ipPKP2	07 09	04.0	Ki	iP
			ipPKP1	07 09	13.4	00 05 37.2	
		De	iPKP1	07 09	09.0	00 05 36.5 C	
			ipPKP1	07 09	22.4	00 05 52.2	
				Kermadec Islands. h = 45 km (Up,Sk,Um,Ud,De).		micr sec	
"	16	Sk	iP	08 02	38.1	P	Z'
		Ud	iP	08 02	38.8	Sk	iP
				Windward Islands (h = 60 km).		Um	iP
"	16	Up	iP	12 48	19.4	Um	ipP
		Ki	iP	12 48	20.1	Ud	iP
		Sk	iP	12 48	05.7	00 05 50.1	
				(cont.)		00 05 46.5 C	
						00 05 52.3	
						00 05 46.0	
						Sumatra. h = 60 km (Ki,Um).	
"	16	Sk	iP	08 02	38.1	"	17
		Ud	iP	08 02	38.8	Ki	iP
				Windward Islands (h = 60 km).		Ud	iP
"	16	Up	iP	12 48	19.4	02 53 51.9	
		Ki	iP	12 48	20.1	02 54 49.7	
		Sk	iP	12 48	05.7	Kamchatka (h = N).	
				(cont.)		"	17
						Up	iP
						i	
						ipP	
						iS	
						iLg2	
						05 12 46.3	
						05 12 51.3	
						05 13 00.9	
						05 15 23	
						05 17 29	
						(cont.)	

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

1974				1974			
July	17	(cont.)		July	17		
		Up	micr sec			Up	iSgl 13 04 29.9
		P	Z' 0.2 0.8			Ki	eSgl 13 07 05
		i	Z' 0.4 1.1			Sk	eSgl 13 06 23
		Mx	E 0.6 3			Um	iSgl 13 05 04.7
		Mx	N 0.8 3			Ud	eSgl 13 05 30
		Mx	Z 0.8 4			De	iSgl 13 06 01.7
		Ki	iP 05 14 09.5 C				Esthonia.
		i	05 14 15.8				Explosion.
		iS	05 18 08	"	17	Um	iSgl 15 00 15.5
			micr sec			Ud	iSgl 15 01 39.0
		P	Z' 0.3 0.9				Lake Ladoga region.
		i	Z' 0.7 0.9				Explosion.
		Mx	E 1.3 7	"	17	Up	i 19 59 13.2
		Mx	N 0.8 9			iSgl	19 59 25.8
		Mx	Z 0.8 5			Ki	iSgl 20 01 21.8
		Sk	iP 05 13 39.3 C			Sk	iSgl 20 01 02
		i	05 13 44.3			Um	iSgl 19 59 46.6
		Um	iP 05 13 27.9 C			Ud	iSgl 20 00 15.7
		iS	05 16 42				Western USSR.
		Ud	iP 05 13 01.8				Explosion.
		i	05 13 08.5	"	17	Ud	iP 23 32 14.9
		i	05 13 20.5	"	18	Up	iP 00 27 34.6
		De	iP 05 12 22.6				micr sec
		i	05 12 30.7			P	Z' 0.1 1.0
			Rumania (h = 150 km).			Ki	iP 00 26 40.6
			m = 5.8 (Up,Ki).				micr sec
			Double P, smaller and			P	Z' 0.1 1.1
			larger, in average 6.2 sec			Sk	eP 00 27 18
			apart.			Um	iP 00 27 05.7
"	17	Ud	iP 05 36 40.7			Ud	iP 00 27 37.8
			Kurile Islands (h = 100 km).			De	iP 00 27 59.8
"	17	Ud	iPKP1 06 51 42.0				Kamchatka (h = N).
		De	iPKP1 06 51 50.9				m = 5.9 (Up,Ki).
			Tonga Islands (h = N).	"	18	Up	iP 00 42 08.8
"	17	Ki	iPKP 07 38 57.2			Ki	iP 00 41 15.2
			micr sec			Sk	eP 00 41 53
		PKP	Z' 0.1 1.5			Um	iP 00 41 40.6
			South Sandwich Islands			Ud	iP 00 42 12.5
			(h = N).			De	iP 00 42 33.7
"	17	Up	iP 10 53 41.3				Kamchatka (h = N).
		ipP	10 53 53.2	"	18	Up	ipPKP1 02 00 46.6
		Ki	iP 10 52 48.2			Sk	ipPKP1 02 00 27.5
		Ud	iP 10 53 40.4				ipPKP1 02 00 42.5
		De	iP 10 54 02.8			Um	ipPKP1 02 00 21.4
			Aleutian Islands.				ipPKP1 02 00 34.6
			h = 45 km (Up).			Ud	ipPKP1 02 00 33.7
"	17	Um	eSgl 12 21 22				ipPKP1 02 00 47.8
		Ud	iSgl 12 22 10.6			De	ipPKP1 02 00 56.0
		De	iSgl 12 22 37.2				Kermadec Islands.
			Western USSR.				h = 50 km (Sk,Um,Ud).
			Explosion.				

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

1974				1974							
July	18	Up	iSn	02 29 08.1	July	18	(cont.)				
			iSgl	02 29 25.2			Ki				
		Ud	iSgl	02 29 31.1			Mx	E 0.5 17			
		De	iPgl	02 27 28.1			Mx	Z 0.7 17			
			i	02 27 42.8			Ud	ePKP 18 48 56			
			iSgl	02 27 44.8			Chile (h = N).				
			iRg	02 27 52.4			M = 5.5 (Up,Ki).				
		Baltic Sea, south of Sweden, 55.5°N, 15.1°E.					"	18			
		Origin time = 02 27 07.					Up	iP	19 34 08.1		
		Explosion.						ipP	19 34 22.5		
"	18	Up	iPKP	11 24 01.0					micr sec		
			iPP	11 26 24.8			P	Z' 0.1	1.5		
				micr sec			Ki	iP	19 33 53.0		
		PP	Z'	0.2 2.0			Sk	iP	19 33 50.3		
		Mx	E	1.2 20				ipP	19 34 03.9		
		Mx	N	2.6 21			Um	iP	19 34 03.6		
		Mx	Z	3.4 21				ipP	19 34 17.7		
		Ki	iPKP	11 23 46.1			Ud	iP	19 33 59.6		
			iPP	11 25 39.1			De	iP	19 34 08.7		
				micr sec			Mexico.				
		PP	Z'	0.2 1.8			h = 50 km (Up,Sk,Um).				
		Mx	E	1.8 20			"	18	De	iPKP1 22 17 04.0	
		Mx	N	2.3 21			Fiji Islands (h = 300 km).				
		Mx	Z	1.9 20			"	18	Up	iP	22 25 25.7
		Sk	iPKP	11 23 55.7				i	22 25 32.8		
			iPP	11 26 11.5			Um	iP	22 25 40.1 D		
		Um	iPKP	11 23 53.8			Ud	iP	22 25 43.1 D		
			iPP	11 26 05.8			De	iP	22 25 28.1		
		Ud	iPKP	11 24 01.6 C			Caucasus (h = N).				
			ipPKP	11 24 12.4			"	18	Up	iP	22 31 51.5
			iPP	11 26 25.5				iS	22 34 31.8		
		De	iPKP	11 24 08.7				i	22 34 49.0		
		Tonga Islands.						iLg2	22 36 30.0		
		h = 40 km (Ud).					Ki	eLg1	22 39 41		
		m = 6.1, M = 6.0 (Up,Ki).					Sk	iP	22 32 44.5		
		PP is consistently early.						i	22 37 23.2		
"	18	Ud	iP	11 40 04.3				iLg2	22 38 52.1		
		Hindu Kush.					Um	iP	22 32 34.4		
		Intermediate depth.						i	22 32 46.0		
"	18	Up	iSgl	12 17 15.1				iLg1	22 38 05.0		
		Sk	eSgl	12 19 10			Ud	iP	22 32 08.9		
		Um	iSgl	12 17 31.0				i	22 32 14.3		
		Ud	iSgl	12 18 20.4			De	iP	22 31 29.2		
		Western USSR.						i	22 31 39.9		
		Explosion.					Probably Rumania.				
"	18	Ud	iP	17 29 25.1			Intermediate depth.				
		Origin time = 22 28 29.					"	18	Up	iPKP1 23 18 47.3	
"	18	Ud	iP	17 53 34.8				Sk	iPKP1 23 18 40.2		
		De	iP	17 53 34.6				Um	iPKP1 23 18 36.4		
"	18	Up		micr sec				Ud	iPKP1 23 18 48.9		
		Mx	E	0.9 19			Kermadec Islands (h = N).				
		Mx	N	0.7 19			"	18	Up	iPKP1 23 30 31.2	
		Mx	Z	1.7 18			(cont.)				
		(cont.)									

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

1974			1974		
July	18	(cont.)	July	19	Up iSgl 13 59 44.6
		Ud iPKP1 23 30 31.3			Sk eSgl 14 01 32
		De iPKP1 23 30 43.3			Um iSgl 13 59 58.8
		Fiji Islands (h = 600 km).			Ud iSgl 14 00 42.3
"	19	Ki iP 00 17 15.3			De eSgl 14 01 18
		Sk eP 00 16 56			Western USSR.
		De iP 00 17 02.6			Explosion.
		Colombia (h = 160 km).	"	19	Up iSgl 14 08 38.6
"	19	Up ePKP 02 00 36			Um iSgl 14 08 58.3
		Ki iPKP 02 00 21.8			Ud eSgl 14 09 42
		Sk iPKP 02 00 32.5			Western USSR.
		Um iPKP 02 00 28.0			Explosion.
		Ud iPKP 02 00 38.0	"	19	Up i 14 38 30.4
		De iPKP 02 00 44.5			Ki eSgl 14 40 39
		Santa Cruz Islands			Sk iSgl 14 40 19.7
		(h = 200 km).			Um iSgl 14 38 51.7
"	19	Ud iPKP 02 21 28.3			Ud iSgl 14 39 33.2
		Chile (h = 45 km).			Western USSR.
"	19	Up iP 07 45 50.2			Explosion.
		Ud iP 07 45 59.1	"	19	Up iPgl 16 24 31.2
		De iP 07 45 38.3			iSgl 16 24 36.1
		Cyprus (h = 70 km).			iRg 16 24 37.3
"	19	Events recorded at Up,Ud on			Um eSgl 16 26 27
		July 19: 10 22, 12 00, 14 02,			i 16 26 32.7
		14 03, 15 49;			Ud iPgl 16 25 02.0
		July 22: 10 39, 14 01;			iSgl 16 25 29.9
		July 23: 14 52;			Upland, Sweden,
		July 24: 11 04, 12 12, 13 22,			60.1°N, 17.5°E.
		16 22			Origin time = 16 24 25.
		are underwater explosions off			Ore mine explosion at
		coast of Södermanland, Sweden,			Dannemora.
		58.9°N, 18.4°E.	"	19	Ud iP 17 42 13.9
		The epicentral distances are:			Japan (h = 50 km).
		Up 110 km and Ud 300 km.	"	19	Up iPgl 17 48 34.1
"	19	Up eSgl 11 12 11			iSgl 17 48 58.7
		Um iSgl 11 12 46.4			Ki iSgl 17 51 31.7
		Esthonia.			Um i 17 49 04.5
		Explosion.			i 17 49 34.6
"	19	Ki iSn 11 32 28.2			iSgl 17 49 40.4
		iS* 11 32 47.2			Ud iSgl 17 49 54.8
		Northwest USSR.			Off coast of southwest
		Explosion.			Finland, 60.7°N, 21.0°E.
"	19	Up iPKP1 13 14 44.6			Origin time = 17 48 03.
		Um iPKP1 13 14 34.6			By combination with Finnish
		Ud iPKP1 13 14 46.0			station readings.
"	19	Um eP 13 15 21	"	19	Up iPKP 18 04 10.2
		Panama-Colombia (h = N).			iPP 18 05 29.1
					Ki iPKP 18 03 58.6
					iPP 18 04 41.7
					(cont.)

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

1974

July 19 (cont.)
 Ki micr sec
 PP Z' 0.3 2.2
 Sk iPKP 18 04 09.1
 Um iPKP 18 04 03.5
 iPP 18 04 57.0
 Ud iPKP 18 04 12.2
 iPP 18 05 32.7
 De iPKP 18 04 18.7
 Solomon Islands (h = 160 km).

" 19 Up iP 18 48 16.8
 Ud iP 18 48 36.0

" 19 Up iP 18 55 54.8
 Ki iP 18 55 10.7
 Sk iP 18 55 46.4
 Um iP 18 55 30.0
 Ud iP 18 56 01.3
 De iP 18 56 21.9
 Japan (h = 40 km).

" 19 Up eP 19 05 21
 ipP 19 05 28.7
 Ki iP 19 05 21.6
 iX 19 05 38.8
 Um epP 19 05 28
 Ud iP 19 05 34.1
 ipP 19 05 41.7
 De iX 19 05 50.1
 Sumatra.
 h = 30 km (Up,Ud).

" 19 Ki iP 21 31 27.5
 Hindu Kush.
 Intermediate depth.

" 19 Ki eP 23 40 01
 Um iP 23 40 45.8
 i 23 40 50.5
 Ud iP 23 41 34.7
 i 23 41 40.3
 De iP 23 42 19.0
 Greenland Sea.

" 20 Sk iPKP1 00 04 12.1
 Ud iPKP1 00 04 21.5
 Kermadec Islands (h = 45 km).

" 20 Ud iP 00 09 14.5

" 20 Up eP 00 59 03
 Ki iP 00 58 09.5
 iPcP 00 58 54.3
 Um iP 00 58 37.9
 (cont.)

1974

July 20 (cont.)
 Um iPcP 00 59 10.5
 Ud iP 00 59 02.4
 Aleutian Islands (h = 45 km).

" 20 Ud iP 01 15 31.9
 Aleutian Islands (h = N).

" 20 Ki iPn 02 22 35.7
 iPgl 02 22 45.5
 iSn 02 23 27.5
 iS* 02 23 43.7
 Um iSn 02 24 12.3
 iS* 02 24 38.8

Northwest USSR,
 67.9°N, 32.2°E.
 Origin time = 02 21 27.
 By combination with Tromsøe
 readings.

" 20 Um i(P) 02 53 16.4

" 20 Ki iSn 06 38 51.4
 iSgl 06 39 07.3
 Um iSn 06 40 01.6
 i 06 40 20.3
 iSgl 06 40 39.2

USSR-Norway.
 Explosion.

" 20 Ud iPKP1 11 35 18.7
 De iPKP1 11 35 29.3

" 20 Ki iPn 11 51 43.2
 iPgl 11 51 52.9
 iSn 11 52 31.9
 iSgl 11 52 47.7
 Um iSgl 11 54 20.0
 USSR-Norway.
 Explosion.

" 20 Ki iPn 12 31 37.2
 iSn 12 32 33.6
 iS* 12 32 50.1
 Sk iSgl 12 35 25.6
 Um iSn 12 33 17.6
 i 12 33 30.3
 eSgl 12 33 54

Northwest USSR.
 Explosion.

" 20 Ki iP 13 09 39.0
 Sk iP 13 09 25.8
 Um iP 13 09 42.4
 Ud iP 13 09 29.2
 Panama-Colombia (h = N).

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

1974				1974			
July	22	(cont.)		July	23	De	iPKP1 00 47 44.4 Tonga Islands (h = N).
		Ud	iP 01 36 50.4			"	23
		De	iP 01 37 20.0			Up	iP 03 17 00.5
		Novaya Zemlya. Possibly an aftereffect of a nuclear explosion in the southern test area on Novaya Zemlya on Oct. 27, 1973. Cf July 7, 1974, at 16 15.					ipP 03 17 11.6
						Sk	iP 03 17 18.5
							ipP 03 17 27.9
						Um	iP 03 16 55.2
						Ud	iP 03 17 15.0
						Burma-India. h = 40 km (Up,Sk).	
"	22	Up	iP 03 54 01.5			"	23
		Ki	iP 03 53 21.9 C			Up	iP 07 18 37.3
		Um	iP 03 53 38.9				micr sec
		Ud	iP 03 54 09.7				Mx N 0.9 20
		Sea of Japan (h = 300 km).				Ki	iP 07 18 39.4
							micr sec
"	22	Up	iP 07 23 52.5				Mx N 1.4 16
		i	07 24 02.0				Mx Z 1.5 16
		i	07 24 08.6			Sk	eP 07 19 03
			micr sec				iPP 07 20 40.2
		P	Z' 0.1 0.7			Um	iP 07 18 30.7
		Ki	iP 07 25 06.9			Ud	iP 07 18 51.2
		Sk	iP 07 24 27.9				iPP 07 20 27.2
		i	07 24 30.5			De	iP 07 18 49.7
		Um	iP 07 24 31.2			Kirghiz SSR (h = N). M = 4.8 (Up,Ki).	
		i	07 24 34.6			"	23
		Ud	iP 07 23 54.2			Up	eP 07 44 21
		i	07 23 55.5			Ki	iP 07 44 24.7
		De	iP 07 23 17.0			Sk	eP 07 44 45
		Tyrrhenian Sea (h = 270 km).					iPP 07 46 24.7
"	22	Ud	iP 11 36 19.5			Um	iP 07 44 16.8
"	22	De	iPKP1 12 33 36.8 C			Ud	iP 07 44 37.8
		Fiji Islands (h = 680 km).				De	iP 07 44 35.3
"	22	Um	iSgl 12 46 11.0			Tadzhik-Sinkiang (h = 40 km).	
		Western USSR. Explosion.				"	23
"	22	Ud	iP 13 28 56.1			Ki	eSgl 08 22 30
		Kamchatka (h = 170 km).				Sk	eSgl 08 22 55
						Um	iSgl 08 21 04.4
						Ud	iSgl 08 22 44.2
						Lake Ladoga region. Explosion.	
"	22	Up	iP 16 46 38.5			"	23
			micr sec			Ki	iPn 09 09 08.1
		P	Z' 0.1 1.2				iSn 09 09 54.6
		Ki	iP 16 45 30.2				iS* 09 10 08.2
"	22	Ud	i(P) 18 12 11.1			Um	iSgl 09 11 41.7
						USSR-Norway. Explosion.	
"	22	Up	iPKP 18 30 54.8			"	23
		Ki	iPKP 18 31 02.7			Ki	eSn 09 56 44
		Sk	iPKP 18 30 53.6			Northwest USSR. Explosion.	
		Um	iPKP 18 31 00.6			"	23
		Ud	iPKP 18 30 51.8			Ud	iP 10 29 36.2
		De	iPKP 18 30 49.3			Pamir.	
		Chile (h = 90 km).					

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

1974				1974									
July	25	(cont.)		July	26								
		Ki	iSgl	13 15	45.6	Sk	ePKP1	02 47 46					
			iSg2	13 15	57.8	Um	iPKP1	02 47 40.5					
			i	13 16	05.8	Ud	iPKP1	02 47 52.5					
		Sk	e	13 14	33	"	26	Ud	iPKP1	04 45 59.6			
			iSgl	13 14	57.7	"	26	Ki	iP	06 14 12.0			
		Um	iSgl	13 13	42.0			Sk	eP	06 14 23			
		Ud	iPn	13 12	36.6	"	26	Ki	i	10 23 37.2			
			iSn	13 13	43.3				iSn	10 24 01.4			
			iSgl	13 14	10.9				iSgl	10 24 20.5			
		De	iSgl	13 14	37.5			Um	iSgl	10 25 20.4			
		Esthonia. Explosion.						Northwest USSR. Explosion.					
"	25	Up	iP	14 35	01.0	"	26	Sk	iP	11 33 55.4			
		Ud	iP	14 35	13.1			Yugoslavia (h = N).					
"	25	Ki	iPKP	14 48	20.2	"	26	Sk	iP	12 09 46.1			
		Easter Island (h = N).				"	26	Ki	eSn	12 16 31.2			
"	25	Up	iPKP	17 36	21.0			Northwest USSR, 68.1°N, 39.1°E. Origin time = 12 13 30. Solution from Helsinki regional bulletin.					
		Ki	ePKP	17 36	06			"	26	Um	iSgl	12 20 48.1	
								Western USSR. Explosion.					
		Mx	E	0.8	19			"	26	Up	iP	13 15 01.6	
		Mx	N	0.5	16						iSP	13 28 25	
		Mx	Z	0.6	16							micr sec	
		Um	iPKP	17 36	14.8			Mx	E	0.9	18		
		Ud	iPKP	17 36	23.3			Mx	N	1.1	20		
		De	iPKP	17 36	29.1			Mx	Z	1.3	19		
		New Britain (h = N).					Ki	iP	13 14	46.1			
"	25	Um	iPKP1	17 40	09.9			ipP	13 14	52.2			
"	25	Um	iP	17 56	17.9			iPP	13 18	49			
		Ud	iP	17 56	06.4							micr sec	
"	25	Ud	iSgl	19 11	43.4			P	Z'	0.1	1.0		
		Southwest Norway, 59.3°N, 7.0°E. Origin time = 19 09 51. By combination with Bergen and Kongsberg readings.							Mx	E	1.1	20	
"	25	Sk	eSgl	19 16	19			Mx	N	0.9	20		
		Ud	iSgl	19 15	29.2			Mx	Z	1.6	21		
		Southwest Norway, 59.3°N, 7.0°E. Origin time = 19 13 38. By combination with Bergen and Kongsberg readings.					Sk	eP	13 15	08			
"	25	Ud	iP	21 21	00.3			Um	iP	13 14	51.1		
		Greece.						ipP	13 14	56.8			
"	25	Ud	iP	21 37	40.1			i	13 15	15.7			
"	25	Ud	iP	23 23	54.2			Ud	iP	13 15	09.8		
								Ceram. h = 20 km (Ki,Um). M = 5.4 (Up,Ki).					
"	25	Ud	iP	23 23	54.2	"	26	Ki	iP	13 23	35.9		
"	25	Ud	iP	23 23	54.2	"	26	Up	i	14 09	54.2		
								(cont.)					

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

1974				1974			
July	26	(cont.)		July	27		
		Up	iSg1 14 10 04.1		Um	i(PKP1)	03 06 47.3
			iSg2 14 10 13.2			i	03 06 53.4
		Ud	eSg1 14 10 09	"	27	Up	iP 04 37 05.2
		De	i 14 08 06.2			iS	04 45 28
			iSg1 14 08 23.0				micr sec
			iRg 14 08 32.9			P	Z' 0.1 1.3
		Southern Baltic Sea, near Bornholm. Probably explosion.				Mx	E 1.2 20
						Mx	N 1.9 21
						Mx	Z 2.7 22
"	26	Ud	iP 16 12 04.2		Ki	iP	04 36 12.9
			i 16 12 11.7				micr sec
		Japan (h = 35 km).				P	Z' 0.1 1.3
						Mx	E 2.0 19
"	26	Ki	iSg1 18 38 49.1			Mx	N 2.8 20
		Um	iSg1 18 37 15.2			Mx	Z 2.8 20
"	26	Up	iP 20 48 22.8		Sk	iP	04 36 51.9
		Ki	iP 20 47 30.1 C		Um	iP	04 36 37.9
			ipP 20 47 44.0			iS	04 44 35
		Um	iP 20 47 56.2		Ud	iP	04 37 08.2
		Ud	iP 20 48 21.7		De	iP	04 37 31.0
			ipP 20 48 36.4		Komandorsky Islands (h = N). m = 5.8, M = 5.4 (Up,Ki).		
		De	iP 20 48 44.4	"	27	Ud	iP 08 18 22.5
		Aleutian Islands. h = 55 km (Ki,Ud).		"	27	Ki	iP 10 12 51.6
"	26	Ki	iP 20 53 24.5			i	10 13 05.0
		Sk	iP 20 53 38.7		Tibet (h = N).		
		Ud	iP 20 53 30.3	"	27	Ud	iP 18 31 47.2
		Hindu Kush (h = 80 km).			Aleutian Islands (h = 55 km).		
"	26	Ud	iP 22 16 59.1	"	27	Ki	iP 21 32 32.9 C
"	27	Up	iP 01 07 07.5			Um	iP 21 32 23.0 C
		Ki	iP 01 06 22.7		Azores Islands (h = N).		
		Sk	iP 01 06 58.5	"	27	Ki	iP 23 43 59.9
		Um	iP 01 06 43.0			Ud	iP 23 44 15.5
			ipP 01 06 53.6	"	28	Up	iP 04 17 48.1
		Ud	iP 01 07 13.8			Ki	iP 04 17 49.3 C
			ipP 01 07 26.3			Sk	iP 04 18 10.8
		Kurile Islands. h = 45 km (Um,Ud).				ipP	04 18 25.5
"	27	Up	iPKP1 01 22 34.5			Um	iP 04 17 42.4 C
			iPKP2 01 22 39.6			ipP	04 17 57.4
		Sk	iPKP1 01 22 29.6		Ud	iP	04 18 04.7 C
		Um	iPKP1 01 22 23.0		De	iP	04 18 04.3 C
		Ud	iPKP1 01 22 36.8		Sinkiang, China. h = 70 km (Sk,Um).		
			iPKP2 01 22 42.5	"	28	Up	iP 04 49 53.2
		De	iPKP1 01 22 46.5			Sk	iP 04 50 29.8
		Kermadec Islands. Origin time = 01 02 55.				Ud	iP 04 50 06.5
"	27	Sk	iP 01 44 25.7	"	28	Ud	iP 05 42 45.7
		Colombia (h = 240 km).			Greece.		

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

1974				1974			
July	28	(cont.)		July	28	(cont.)	
		Sk	iP 12 30 24.7			Ud	iP 13 42 38.2 C
		Um	iP 12 30 11.1 C			ipP	13 42 52.6
		Ud	iP 12 30 42.2 C			De	iP 13 42 56.6
		Kurile Islands (h = N).				ipP	13 43 11.7
"	28	Um	iP 12 37 52.8			Kurile Islands.	
"	28	Up	iP 12 54 25.7			h = 55 km (Up,Ki,Um,Ud,De).	
			ipP 12 54 38.5	"	28	Um	iP 13 48 24.3
		Ki	iP 12 53 38.3	"	28	Up	iP 13 52 34.5 C
		Um	iP 12 54 00.6 C				micr sec
		Ud	iP 12 54 31.2			P	Z' 0.5 1.5
		De	iP 12 54 48.8			Mx	E 1.4 15
		Kurile Islands.				Mx	N 3.0 17
		h = 45 km (Up).				Mx	Z 5.1 18
		Origin time = 12 43 32.				Ki	iP 13 51 46.7 C
"	28	Um	iP 13 08 14.2				micr sec
		Kurile Islands.				P	Z' 0.1 0.9
"	28	Up	iP 13 15 13.2			Mx	E 5.1 15
			micr sec			Mx	N 4.6 16
		P	Z' 0.1 1.1			Mx	Z 4.9 16
		Ki	iP 13 14 23.7			Sk	iP 13 52 22.6
		Sk	eP 13 15 01			Um	iP 13 52 08.9 C
		Um	iP 13 14 47.4			ipP	13 52 19.1
		Ud	iP 13 15 18.0			Ud	iP 13 52 39.9 C
		Kurile Islands (h = 45 km).				ipP	13 52 51.0
"	28	Um	iP 13 17 40.9			De	iP 13 52 59.0
		Ud	iP 13 18 11.7			Kurile Islands.	
		Kurile Islands.				h = 40 km (Um,Ud).	
		Origin time = 13 07 12.				m = 6.2, M = 5.9 (Up,Ki).	
"	28	Um	iP 13 39 15.1			Surface waves (Mx) partially	
		Kurile Islands.				mixed with those of 13 42.	
"	28	Up	ipP 13 42 00.8	"	28	Um	iP 13 53 26.2
		Ki	iP 13 41 02.4			Ud	i(pP) 13 54 08.6
		Um	iP 13 41 24.7	"	28	Um	iP 13 59 35.0
		Ud	iP 13 41 55.4			Ud	eP 14 00 07
		Kurile Islands.				Kurile Islands.	
		Origin time = 13 30 56.				Origin time = 13 49 06.	
"	28	Up	iP 13 42 33.0	"	28	Ki	iP 14 02 05.0
		ipP	13 42 48.0			Um	iP 14 02 27.4
			micr sec			Ud	iP 14 02 59.1
		P	Z' 0.9 2.0			Kurile Islands.	
		Ki	iP 13 41 45.0 C			Origin time = 13 51 59.	
		ipP	13 41 59.6	"	28	Ud	iP 14 05 30.0
			micr sec			Kurile Islands.	
		P	Z' 0.9 2.0	"	28	Ki	iP 14 07 22.2
		Sk	eP 13 42 20			Um	iP 14 07 43.8
		Um	iP 13 42 07.3 C			ipP	14 07 56.7
		ipP	13 42 22.1			Ud	iP 14 08 15.3
		(cont.)				(cont.)	

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

1974				1974				
July	28	(cont.)		July	29	Ki	iP	01 22 21.2
		Ki	micr sec			Um	iP	01 21 51.1
		Mx	E 0.8 18			Turkey.		
		Mx	N 1.0 16					
		Mx	Z 1.4 17	"	29	Up	iP	01 25 42.1 C
		Sk	eP 18 11 31			Ki	iP	01 24 53.8
		Um	iP 18 11 15.0 C			Um	iP	01 25 16.1 C
		Ud	iP 18 11 46.1			Ud	iP	01 25 47.4 C
			ipP 18 11 58.5			Kurile Islands (h = 55 km).		
		De	iP 18 12 05.3					
		Kurile Islands. h = 45 km (Ud).		"	29	Up	iP	01 59 09.1
"	28	Up	iP 18 23 24.7			Ki	eP	01 58 21
		Sk	iP 18 23 51.1			Um	iP	01 58 42.9
"	28	Ki	iP 18 29 30.1			Ud	iP	01 59 14.1
		Um	iP 18 29 52.2	"	29	Kurile Islands (h = N).		
		Ud	eP 18 30 23			Up	iP	02 24 43.4 D
		Kurile Islands (h = 40 km).						micr sec
"	28	Ki	iP 18 39 17.0				P	Z' 0.1 1.0
		Um	iP 18 39 39.2			Ki	iP	02 23 55.6 D
		Ud	iP 18 40 10.4			Um	iP	02 24 17.8 D
		Kurile Islands. Origin time = 18 29 10.				Ud	iP	02 24 49.2 D
"	28	Um	iP 20 11 23.3				ipP	02 25 02.3
		Ud	iP 20 11 54.9			Kurile Islands. h = 50 km (Ud).		
		Kurile Islands. Origin time = 20 00 54.		"	29	Up	iP	03 26 13.4 C
"	28	Up	ePKP1 20 34 56			i		03 26 16.6
		Sk	ePKP1 20 34 51			iS		03 35 06
		Um	iPKP1 20 34 45.0					micr sec
		Ud	iPKP1 20 34 57.9			P	Z' 0.7 1.1	
		Kermadec Islands (h = 15 km).				Mx	E 14 27	
"	28	Up	iP 22 02 40.6 D			Mx	N 7.5 20	
		Ki	iP 22 02 25.6 D			Mx	Z 14 19	
			micr sec			Ki	iP	03 25 25.5 C
		P	Z' 0.1 1.0			i		03 25 28.7
		Um	iP 22 02 30.4 D			iS		03 33 44
		Ud	iP 22 02 49.1 D					micr sec
		De	iP 22 02 54.4 D			P	Z' 0.4 1.1	
		Talaud Islands (h = 100 km).				Mx	E 19 17	
"	28	Um	iP 23 32 52.1			Mx	N 23 19	
		Kurile Islands.				Mx	Z 34 19	
"	29	Um	iP 00 31 21.9			Sk	iP	03 26 01.0 C
		Kurile Islands.				i		03 26 04.2
"	29	Um	iP 01 17 46.8			Um	iP	03 25 47.4 C
		Ud	iP 01 18 17.7			i		03 25 50.8
		Kurile Islands. Origin time = 01 07 18.				iS		03 34 20
"	29	Um	iP 03 54 31.2			Ud	iP	03 26 18.8 C
		Kurile Islands.				De	iP	03 26 37.2 C
"	29	Um	iP 03 54 31.2			i		03 26 40.7
		Kurile Islands.				Kurile Islands (h = 40 km). m = 6.7, M = 6.3 (Up,Ki). Probably double event, the smaller first P followed after 3.2 sec by another larger onset.		

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

1974				1974					
July	29	Um	iP	03 56 39.6	July	29	Up	iP	09 08 27.7
							Um	iP	09 08 01.4 D
							Ud	iP	09 08 32.4
"	29	Ki	iP	04 09 38.5					Kurile Islands.
		Um	iP	04 10 00.8					Origin time = 08 57 33.
			ipP	04 10 12.7	"	29	Up	eP	09 39 46
		Ud	iP	04 10 31.3					micr sec
							Mx	E	1.3 17
							Mx	N	1.8 20
							Mx	Z	2.9 18
							Ki	iP	09 38 57.5
"	29	Um	iP	04 35 56.5					micr sec
							Mx	E	1.1 17
							Mx	N	2.0 18
							Mx	Z	1.5 18
"	29	Um	iP	05 26 21.7			Um	iP	09 39 19.3 C
								ipP	09 39 32.3
							Ud	iP	09 39 50.4 C
"	29	Up	iP	07 27 23.9 C					Kurile Islands.
			ipP	07 27 36.3					h = 50 km (Um).
			iS	07 36 18					M = 5.4 (Up,Ki).
					"	29	Um	eP	10 37 48
							Ud	iP	10 38 17.3
									Kurile Islands.
									Origin time = 10 27 18.
					"	29	Up	iP	14 32 14.0 D
									micr sec
							P	Z'	0.1 1.0
							Ki	iP	14 31 26.5
							Sk	iP	14 32 00.8
							Um	iP	14 31 48.4 D
							Ud	iP	14 32 19.1
									Kurile Islands (h = 35 km).
					"	29	Up	iP	15 06 52.6
							Ki	iP	15 06 35.4
					"	29	Up	iSn	15 32 00.5
								iS*	15 32 04.9
							Um	iSgl	15 32 54.6
							Ud	iSn	15 32 49.0
								iS*	15 33 08.6
							De	iPn	15 32 08.6
									Off southwest coast of Finland.
									Explosion.
"	29	Um	iP	08 31 41.4	"	29	Up	iSn	15 34 17.7
								iS*	15 34 21.3
							Um	iSgl	15 35 10.3
							Ud	iS*	15 35 23.7
									Off southwest coast of Finland.
									Explosion.
"	29	Up	iP	09 05 19.8					
			ipP	09 05 36.7					
		Um	iP	09 04 53.8					
			ipP	09 05 10.8					
		Ud	iP	09 05 24.9					
			ipP	09 05 41.2					
									Kurile Islands.
									h = 60 km (Up,Um,Ud).
									Origin time = 08 54 25.

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

1974				1974							
July	29	Up	iPKP1	15 58 34.2	July	29	(cont.)				
		Ud	iPKP1	15 58 37.0			Ki	iSKP1	22 34 41.9		
		De	iPKP1	15 58 46.4					micr sec		
"	29	Um	iP	15 59 10.3			Sk	SKP1	Z' 0.1 1.5		
		Ud	eP	15 59 42				i(PKP)	22 32 14.9		
		Kurile Islands.					Um	iSKP1	22 35 00.5		
		Origin time = 15 48 41.						i(PKP)	22 32 16.3		
"	29	Ki	iP	17 36 42.1				iPKP	22 32 20.2		
		Um	iP	17 36 31.4			Ud	iSKP1	22 34 56.0		
		Ud	iP	17 37 04.0				i(PKP)	22 32 20.1		
		Sinkiang, China (h = 55 km).						iPKP	22 32 24.0		
"	29	Up	iSgl	18 01 15.7				i	22 32 31.2		
		Ud	iSgl	18 00 06.5				iSKP1	22 35 09.4		
		South Norway.					De	iPKP	22 32 29.4		
		Origin time = 17 58 13.				"	Fiji Islands (h = 590 km).				
		By combination with				"	29	Up	iP	23 50 41.9 C	
		Kongsberg readings.				"	30	Ud	iP	00 21 38.1	
"	29	Up	iP	19 20 55.2				Kurile Islands.			
		Ki	iP	19 20 07.2 C			"	30	Um	iP	02 02 15.8
		Um	iP	19 20 29.4				Molucca Passage (h = 90 km).			
			i	19 20 34.1			"	30	Up	iP	05 20 04.0 C
		Ud	iP	19 21 00.7					ipP	05 20 54.7	
		Kurile Islands (h = 40 km).							iPP	05 21 41	
"	29	Um	iP	20 00 13.6					iS	05 25 58	
		Ud	iP	20 00 44.8						micr sec	
		Kurile Islands.						P	Z' 4.1 1.0		
		Origin time = 19 49 41.						Mx	E 48 13		
"	29	Up	iP	20 01 39.5 C				Mx	N 99 12		
				micr sec				Mx	Z 94 10		
			P	Z' 0.1 0.9			Ki	iP	05 20 13.3 C		
		Ki	iP	20 00 51.7				ipP	05 21 04.6		
		Um	iP	20 01 13.3 C				iS	05 26 17		
		Ud	iP	20 01 44.9 C					micr sec		
		Kurile Islands (h = N).						P	Z' 5.2 1.0		
		The order of sensitivity of						Mx	E 80 15		
		our stations for the Kurile						Mx	N 100 12		
		Islands shocks on July 28-29						Mx	Z 190 18		
		(measured in the same way as					Sk	iP	05 20 30.0 C		
		for the Panama-Colombia						ipP	05 21 23.1		
		series on July 13-14, cf					Um	iP	05 20 02.7 C		
		July 14 at 07 26) is as						ipP	05 20 53.8		
		follows:						iS	05 25 57		
		Um:Ud:Ki:Up:Sk:De =					Ud	iP	05 20 20.5 C		
		4.7:3.9:2.9:2.6:1.2:1, which						ipP	05 21 12.2		
		is more typical.					De	iP	05 20 16.9 C		
"	29	Um	iP	21 22 54.5				Hindu Kush.			
"	29	Up	i(PKP)	22 32 17.4				h = 250 km (Up,Ki,Sk,Um,Ud).			
			iPKP	22 32 21.6				m = 6.9, M = 7.0 (Up,Ki).			
		Ki	iPKP	22 32 13.4				M uncorrected for focal depth.			
		(cont.)				"	30	Ki	iP	07 51 45.2	
								Um	iP	07 51 34.8	
								Ud	iP	07 51 52.3	
								Hindu Kush (h = 230 km).			

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

1974	July 30	Up	iP	09 33 12.9	1974	July 30	Um	iSKP1	22 03 56.5
									Fiji Islands (h = 610 km).
	" 30	Up	iP	11 49 12.9	" 30	Up	iP	22 50 40.7 C	
			iPP	11 50 53.1			P	Z' 0.1 1.0	
				micr sec			Ki	iP	22 49 52.0 C
			P	Z' 0.2 1.0					micr sec
		Ki	iP	11 49 22.3			Mx	E 0.6 15	
		Sk	iP	11 49 38.1			Mx	N 0.9 20	
		Um	iP	11 49 11.4			Mx	Z 1.1 19	
		Ud	iP	11 49 29.1		Sk	iP	22 50 28.3	
			iPP	11 51 15.6		Um	iP	22 50 14.9 C	
		De	iP	11 49 25.9		Ud	iP	22 50 46.0 C	
			iPP	11 51 05.1		De	iP	22 51 06.1	
				Hindu Kush (h = 70 km).				Kurile Islands (h = 40 km).	
	" 30	Ud	iSgl	12 18 50.9	" 30	Ud	iP	23 30 15.5	
				South Norway.					
				Origin time = 12 16 58.		" 31	Ki	iP	00 43 02.4
				By combination with					micr sec
				Kongsberg readings.			P	Z' 0.1 1.1	
	" 30	Up	iSgl	12 36 42.1		Um	iP	00 43 04.3	
		Ud	iSgl	12 35 36.7				Ceram (h = N).	
				South Norway.		" 31	Up	i	01 44 50.4
				Origin time = 12 33 45.				i(Sgl)	01 45 44.8
				By combination with		" 31	Ud	i(P)	08 30 05.8
				Kongsberg readings.		" 31	Ki	iP	09 30 01.9
	" 30	Up	iSgl	12 43 00.6					Alaska (h = 45 km).
		Ki	iSgl	12 45 35.3		" 31	Ud	iP	10 48 07.3
		Um	iSgl	12 43 32.5		" 31	Up	iSgl	13 08 39.0
		Ud	iSgl	12 44 06.0			Ki	iSgl	13 11 14.1
				Esthonia.			Sk	iSgl	13 10 46.5
				Explosion.			Um	iSgl	13 09 18.5
	" 30	Ud	iP	13 10 34.4			Ud	i	13 09 35.7
	" 30	Um	iSgl	14 04 57.3				iSgl	13 09 48.3
				Western USSR.			De	iSgl	13 10 14.5
				Explosion.					Esthonia.
	" 30	Um	iSgl	14 06 08.2					Explosion.
	" 30	Up	iP	17 43 51.5		" 31	Um	iP	15 56 25.4
		Um	iP	17 44 12.7		" 31	Ud	iP	16 03 28.8
	" 30	Up	iPKP1	18 24 35.3		" 31	Um	iP	21 24 10.8
		Ud	iPKP1	18 24 37.6					Kurile Islands.
	" 30	Um	i(Sgl)	18 35 27.8		" 31	Up	iPKP1	22 50 53.6
	" 30	Ud	iP	21 11 48.3			Sk	iPKP1	22 50 45.8
				Kurile Islands.			Um	iPKP1	22 50 41.7
							Ud	iPKP1	22 50 55.1
							De	ePKP1	22 51 05
									Kermadec Islands (h = 60 km).

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

NOTE. As a rule, regional events (within Fennoscandia and neighbouring areas) will henceforth be included only in case of earthquakes or possible earthquakes, whereas regional explosions (of conventional nature, performed for various purposes) will be excluded.

AUGUST 1 - 31, 1974

1974					1974					
Aug.	1	Up	eP	00 21 33	Aug.	1	(cont.)			
		Ki	iP	00 21 31.8			Ki			
		Sk	iP	00 21 19.4			P	Z'	0.1 1.1	
		Um	iP	00 21 35.0			i	Z'	0.2 0.8	
		De	iP	00 21 27.1			Mx	E	4.3 19	
		Panama-Colombia (h = N).					Mx	N	9.7 19	
"	1	Up	iPKP	01 45 15.8			Mx	Z	7.6 20	
		Solomon Islands (h = 30 km).					Sk	iP	05 18 04.0	
"	1	Sk	iP	04 03 28.8			i		05 18 07.0	
		Hindu Kush. Intermediate depth.					Um	iP	05 18 05.3	
"	1	Up	iP	05 16 49.0			i		05 18 08.8	
		Ki	iP	05 15 54.6			iS		05 26 19	
		Sk	iP	05 16 21.9			Ud	iP	05 18 28.1	
		Um	iP	05 16 22.9 C			i		05 18 30.7	
		Ud	iP	05 16 46.3			De	iP	05 18 52.2	
		De	iP	05 17 09.3			i		05 18 54.9	
		Kodiak Island (h = 25 km).					Kodiak Island (h = 10 km). m = 6.0, M = 5.8 (Up,Ki). Double P, smaller and larger, 3.0 sec apart in average.			
"	1	Up	iP	05 18 31.4	"	1	De	iPKP	05 18 31.7	
		i		05 18 34.4			Loyalty Islands (h = 50 km).			
		iS		05 27 08	"	1	Up	iP	05 21 04.3	
				micr sec			Ki	iP	05 20 10.0 C	
		P	Z'	0.1 1.0					micr sec	
		i	Z'	0.1 0.8			P	Z'	0.1 1.0	
		Mx	E	2.2 17			Sk	iP	05 20 36.7	
		Mx	N	3.2 18			Um	iP	05 20 38.1 C	
		Mx	Z	6.4 19			Ud	iP	05 21 01.2	
		Ki	iP	05 17 37.1			De	iP	05 21 24.6 C	
		i		05 17 40.2			Kodiak Island.			
		iS		05 25 26			Origin time = 05 10 35.			
		(cont.)					(cont.)			

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

1974

Aug. 1 (cont.)
Origin times for teleseisms are based on our own records only, and therefore accurate only to within a few seconds.

" 1 ✓ Up iP 06 06 06.8 C
iS 06 14 41
iP'P' 06 35 16.6
micr sec
P Z' 0.7 1.3
Mx E 3.4 18
Mx N 6.4 21
Mx Z 9.7 21
Ki iP 06 05 12.6 C
micr sec
P Z' 0.6 1.3
Mx E 8.1 22
Mx N 15 20
Mx Z 14 21
Sk iP 06 05 39.5 C
iP'P' 06 35 25.5
Um iP 06 05 40.8 C
iP'P' 06 35 17.5
Ud iP 06 06 03.4 C
De iP 06 06 27.3 C
Kodiak Island (h = N).
m = 6.6, M = 6.0 (Up,Ki).

" 1 Up iP 06 06 50.8
micr sec
P Z' 0.4 1.5
Sk iP 06 06 22.3
Um iP 06 06 26.3
Ud iP 06 06 48.3
De iP 06 07 09.7
Kodiak Island.
Origin time = 05 56 22.

" 1 Up iP 06 08 38.1
micr sec
P Z' 0.1 1.0
Ki iP 06 07 43.9 C
micr sec
P Z' 0.1 1.0
Sk iP 06 08 10.8
Um iP 06 08 12.8
Ud iP 06 08 34.3
De iP 06 08 58.6
Kodiak Island.
Origin time = 05 58 09.
m = 5.9 (Up,Ki).

" 1 Up iP 06 17 48.7
Ki iP 06 16 53.9 C
Sk iP 06 17 21.9
Um iP 06 17 22.4
Ud iP 06 17 44.3
Kodiak Island (h = 15 km).

1974

Aug. 1 Ki iP 06 26 38.6
Sk i(P) 06 27 11.4
Um iP 06 27 06.4
Kodiak Island (h = 20 km).

" 1 Ki iP 06 41 38.2
Um iP 06 42 05.5
Ud iP 06 42 28.7
Kodiak Island (h = 7 km).

" 1 Up iP 06 58 46.5
Ki iP 06 57 52.1
Sk iP 06 58 19.4
Um iP 06 58 20.1
Ud iP 06 58 43.0
Kodiak Island (h = 15 km).

" 1 Ki iP 07 20 24.0
Sk iP 07 20 51.6
Um iP 07 20 51.9
Ud iP 07 21 16.2
Kodiak Island (h = 15 km).

" 1 Ki iP 07 24 43.2
Kodiak Island (h = N).

" 1 Ki iP 07 27 49.2
Kodiak Island (h = 15 km).

" 1 Up iP 08 10 26.0
ipP 08 10 31.3
micr sec
P Z' 0.1 1.1
Mx E 0.9 18
Mx N 1.1 21
Mx Z 1.3 19
Ki iP 08 09 32.0
ipP 08 09 37.0
micr sec

P Z' 0.1 0.9
Mx E 0.8 14
Mx N 2.3 19
Mx Z 1.9 18
Sk iP 08 09 58.7 C
ipP 08 10 04.1
Um iP 08 09 59.9 C
ipP 08 10 05.6
i 08 10 29.4
Ud iP 08 10 22.8
ipP 08 10 27.7
De iP 08 10 46.3 C
ipP 08 10 52.0

Kodiak Island.
h = 20 km (Up,Ki,Sk,Um,Ud,De).
m = 5.9, M = 5.2 (Up,Ki).

" 1 Sk iP 08 27 28.6
Kodiak Island (h = N).

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

1974

Aug.	1	Ki	iP	08 36 16.3	
		Sk	iP	08 36 43.1	
		Kodiak Island (h = N).			
"	1	Up	iP	09 48 20.0 C	
		Ki	iP	09 49 01.1 C	
		Sk	eP	09 48 43	
		Um	iP	09 48 39.5 C	
			i	09 48 40.7	
		Ud	iP	09 48 23.3 C	
		De	iP	09 48 02.0	
		Zambia (h = 15 km).			
"	1	Ki	e(P)	12 27 41	
		Ud	i(P)	12 26 53.8	
"	1	Sk	iP	15 01 41.0	
		Hindu Kush. Intermediate depth.			
"	1	Sk	iP	15 39 32.1	
		Kodiak Island (h = N).			
"	1	Up	iP	18 36 23.7 C	
		Ki	iP	18 35 55.0 C	
		Sk	iP	18 36 21.0 C	
		Um	iP	18 36 07.3 C	
		Ud	iP	18 36 30.2 C	
		De	iP	18 36 41.7	
		Mariana Islands (h = 320 km).			
"	1	Um	iP	20 02 31.4	
		Ud	iP	20 02 50.7	
"	1	Up	Mx	21 01	
				micr sec	
		Mx	E	1.1 22	
		Mx	N	0.9 21	
		Mx	Z	1.3 19	
		Ki	Mx	21 06	
				micr sec	
		Mx	E	0.9 18	
		Mx	N	1.2 18	
		Mx	Z	1.1 19	
		Indian Ocean (h = N). M = 5.6 (Up,Ki).			
"	1	Up	eP	21 16 01	
			i	21 16 07.8	
		Ud	iP	21 15 53.3	
"	1	✓ Up	iP	22 50 01.8	
			i	22 50 04.1	
			i	22 50 14.4	
			iX	22 50 32.9	

(cont.)

1974

Aug.	1	(cont.)			
		Up		micr sec	
		Mx	E	1.3 22	
		Mx	N	2.8 22	
		Mx	Z	4.5 22	
		Ki	iP	22 49 10.5 C	
			iX	22 49 28.8	
				micr sec	
		Mx	E	1.8 20	
		Mx	N	2.4 23	
		Mx	Z	2.6 23	
		Sk	eP	22 49 48	
			iX	22 50 16.2	
		Um	eP	22 49 35	
			i	22 49 37.3	
			iX	22 49 58.7	
		Ud	iP	22 50 07.4	
			i	22 50 08.8	
			iX	22 50 34.6	
		De	iP	22 50 30.7	
			iX	22 51 05.0	
		Kurile Islands (h = 40 km). M = 5.5 (Up,Ki). Even though X fits PcP for Up,Ud, it is more likely that X stands for P of another earthquake with somewhat different epicenter.			
"	2	Up	iP	00 31 38.6	
		Ki	iP	00 31 15.3	
		Sk	iP	00 31 42.3	
		Ud	iP	00 31 48.9	
		Ryukyu Islands.			
"	2	Um	iP	07 24 15.4	
		Ud	iP	07 24 34.4 C	
		De	iP	07 24 47.7	
"	2	Up	iP	08 30 47.7	
		Ki	eP	08 31 28	
			i	08 31 33.2	
				micr sec	
		Mx	E	0.5 13	
		Mx	N	0.5 15	
		Mx	Z	0.4 11	
		Sk	iP	08 31 24.2	
		Um	iP	08 31 02.0	
			iPP	08 32 30.5	
		Ud	iP	08 31 03.0	
			i	08 31 21.3	
		De	iP	08 30 45.8	
			i	08 30 50.8	
		Iran (h = 45 km).			
"	2	Up	iP	09 32 51.6	
		Kodiak Island (h = 60 km).			

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

1974

Aug. 2 Up eP 10 02 18
 Ki eP 10 01 40
 Sk iP 10 02 14.9
 Um iP 10 01 54.6
 i 10 01 58.6
 Ud iP 10 02 22.8
 Japan (h = 40 km).

" 2 Um iPKP1 10 10 16.4 C

" 2 Up iP 10 28 33.0
 Ki iP 10 28 16.4
 Sk iP 10 28 37.1
 Um iP 10 28 20.8
 Ud iP 10 28 41.4
 Talaud Islands (h = 55 km).

" 2 Up iP 10 35 34.0
 Ki iP 10 36 41.0
 Ud iP 10 35 41.9
 De iP 10 35 10.0
 Crete (h = 50 km).

" 2 Up iPKP1 10 41 15.7
 iPKP2 10 41 21.2
 micr sec
 PKP2 Z' 0.1 1.2
 Sk iPKP1 10 41 09.4
 Um iPKP1 10 41 04.4 D
 Ud iPKP1 10 41 17.6
 i 10 41 32.7
 De ePKP1 10 41 27
 iPKP2 10 41 37.6
 Kermadec Islands (h = N).

" 2 Up iP 12 21 51.0
 Ud iP 12 21 58.4

" 2 Up i(P) 13 00 10.7
 Ud i(P) 12 59 08.3

" 2 Up iP1 14 45 09.9
 iP2 14 45 14.3
 iPcP1 14 45 26.8
 iPcP2 14 45 31.6
 micr sec
 P1 Z' 0.1 1.2
 Ki iP1 14 44 33.8
 iP2 14 44 38.2
 micr sec
 Mx E 0.6 15
 Mx N 0.8 17
 Sk iP1 14 45 05.0
 iP2 14 45 10.1
 Um iP1 14 44 49.4
 iP2 14 44 53.6
 Ud iP1 14 45 16.9
 (cont.)

1974

Aug. 2 (cont.)
 Ud iP2 14 45 21.9
 De iP1 14 45 32.1
 Japan (h = 25 km).
 Double P, 4.6 sec apart in
 average.

" 2 Up iP1 16 17 07.1
 iP2 16 17 10.4
 Ki iP1 16 16 31.0
 micr sec
 Mx E 0.6 15
 Mx N 0.7 17
 Sk iP1 16 17 01.8
 Um iP1 16 16 46.4
 iP2 16 16 50.5
 Ud iP1 16 17 14.6
 iP2 16 17 19.0
 De iP2 16 17 32.5
 Japan (h = 35 km).
 Double P.

" 2 Ki iP1 17 05 00.6
 iP2 17 05 06.7
 Um iP1 17 05 16.3
 iP2 17 05 22.1
 Japan (h = 60 km).

" 2 Um iP 17 31 52.9
 Hindu Kush.
 Intermediate depth.

" 2 Um iP 21 11 44.8

" 3 Up iP 04 16 44.0
 i 04 16 49.6
 micr sec
 P Z' 0.1 1.0
 Mx N 0.8 15
 Mx Z 0.7 10
 Ki iP 04 16 40.3
 i 04 16 45.5
 micr sec
 Mx E 0.5 12
 Mx N 2.6 14
 Mx Z 0.5 13
 Sk iP 04 17 03.6
 i 04 17 08.7
 Um iP 04 16 35.6
 i 04 16 42.4
 Ud iP 04 16 59.3
 i 04 17 04.8
 De iP 04 17 01.1
 i 04 17 04.8
 Kashmir-Tibet (h = 20 km).
 M = 5.2 (Up,Ki).

" 3 Um eP 05 53 38

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

1974

Aug.	4	(cont.)					
		Ki	ipP	00 44	15.1		
		Um	iP	00 44	25.7		
			ipP	00 44	36.3		
		Ud	iP	00 44	56.7		
		Kurile Islands.					
		h = 40 km (Ki,Um).					
"	4	Up	iP	02 05	12.5		
		Ki	iP	02 04	38.5	C	
		Um	iP	02 04	53.0	C	
			i	02 04	58.8		
		Ud	iP	02 05	19.5		
			i	02 05	26.1		
		De	iP	02 05	32.2		
		South of Japan (h = 90 km).					
"	4	Ud	iP	08 59	46.2		
"	4	Up	Mx	11 16			
					micr	sec	
		Mx	E	0.6	20		
		Mx	N	0.5	19		
		Mx	Z	0.6	19		
		South Pacific Ocean (h = N).					
"	4	Up	iP	13 21	48.3		
		Ki	iP	13 21	31.3		
		Sk	iP	13 21	50.2		
		Um	iP	13 21	35.5		
		Ud	iP	13 21	53.4		
		De	iP	13 21	58.3		
		Molucca Sea (h = 110 km).					
"	4	Up	iP	13 58	54.5		
		Sk	eP	13 59	22		
		Um	iP	13 58	53.7		
		Ud	iP	13 59	10.9		
		De	iP	13 59	06.7		
		Pakistan (h = 30 km).					
"	4	Up	iP	15 11	35.2		
			iPn	15 11	45.7		
			iPP	15 12	08.8		
			iS	15 15	57		
			iSn	15 16	07.2		
					micr	sec	
		P	Z'	0.3	1.1		
		Pn	Z'	0.3	1.1		
		PP	Z'	0.3	1.0		
		Mx	E	1.9	13		
		Mx	N	2.6	15		
		Mx	Z	4.0	15		
		Ki	iP	15 12	14.7	C	
			iPn	15 12	50.8		
		(cont.)					

1974

Aug.	4	(cont.)					
		Ki	iSn	15 17	55.0		
					micr	sec	
			P	Z'	0.2	1.1	
			Pn	Z'	0.4	1.1	
			Mx	E	2.3	11	
			Mx	N	2.0	12	
			Mx	Z	2.2	12	
		Sk	iP	15 12	12.5		
			i	15 12	19.2		
			iPn	15 12	57.0		
			iSn	15 17	50.2		
		Um	iP	15 11	48.3	C	
			iPP	15 12	24.3		
			iS	15 16	22		
			iSn	15 16	44.7		
		Ud	iP	15 11	52.6	C	
			iPn	15 12	07.9		
			iSn	15 16	56.6		
			iSS	15 17	42.2		
		De	iP	15 11	37.8	C	
			iPn	15 11	52.5		
			i	15 12	27.8		
			iSn	15 16	18.6		
		Caucasus (h = N).					
		m = 5.9, M = 5.1 (Up,Ki).					
		Clear cases of teleseismic					
		Pn and Sn.					
"	4	Up	iP	17 33	22.1		
		Ki	iP	17 33	28.7		
		Sk	iP	17 33	46.6		
		Um	iP	17 33	19.3		
		Ud	iP	17 33	38.7	C	
			ipP	17 34	27.6		
		Afghanistan-USSR.					
		h = 240 km (Ud).					
"	4	Ud	iP	20 40	16.6		
"	4	Up	iP	21 46	44.1		
		Ki	iP	21 45	49.9		
		Sk	iP	21 46	16.9		
		Um	iP	21 46	18.2		
		Ud	iP	21 46	40.9		
		De	iP	21 47	04.6		
		Kodiak Island (h = 40 km).					
"	4	Ud	iP	22 35	00.3		
"	5	Ki	iP	00 28	04.1		
"	5	Ki	iP	00 59	29.8		
"	5	Ki	eP	01 04	07		
		(cont.)					

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

1974				1974			
Aug.	5	(cont.)		Aug.	6	(cont.)	
		Ud	iP 01 04 59.3			Sk	i 08 12 59.2
			ipP 01 05 18.4			Ud	iSgl 08 12 06.7
		De	iP 01 05 22.6			De	iSgl 08 12 01.3
			ipP 01 05 40.8			North Sea, off east coast of Scotland.	
		Aleutian Islands.				By combination with Kongsberg and Bergen readings.	
		h = 70 km (Ud,De).					
"	5	Ud	iP 06 29 16.4	"	6	Up	iP 11 15 34.4
"	5	Up	iP 13 27 16.0			Ki	iP 11 13 57.0 C
		Ki	iP 13 27 52.0 C				micr sec
			iPP 13 29 39.8				P Z' 0.1 1.3
			micr sec			Sk	iP 11 14 46.7 C
		P	Z' 0.1 0.8			Um	iP 11 14 51.0
		Mx	E 0.5 12			Ud	iP 11 15 27.4
		Mx	N 0.4 12			De	iP 11 16 10.8 C
		Mx	Z 0.5 12			Greenland Sea (h = N).	
		Sk	iP 13 27 50.6 C	"	6	Ki	iP 13 09 33.9
		Um	iP 13 27 29.2 C			Sk	iP 13 10 00.6
			iPP 13 29 09.9			Kodiak Island (h = 15 km).	
		Ud	iP 13 27 31.1 C	"	6	Up	iSgl 15 38 51.1
		De	iP 13 27 15.4			Ud	iPgl 15 37 50.3
		Iran (h = 10 km).					iSgl 15 38 11.6
"	5	Ud	iPgl 15 06 20.5			De	iPgl 15 38 09.2
			iSgl 15 06 42.8				iSgl 15 38 41.8
			iRg 15 06 51.4			Lake Vener region, Sweden.	
		De	eSgl 15 07 38			Origin time = 15 37 25.	
		Probably Oslo Fjord region.		"	6	Up	iP 16 59 57.1 C
"	5	Up	iPKP1 17 58 40.7			i	16 59 58.1
		Sk	iPKP1 17 58 33.5				micr sec
			i 17 58 40.9			P	Z' 0.1 0.9
		Um	ePKP1 17 58 26			Ki	iP 16 59 09.9 C
			i 17 58 30.8			ipP	16 59 55.7
		Ud	iPKP1 17 58 42.3				micr sec
			i 17 58 57.2			P	Z' 0.4 0.7
		Kermadec Islands.				Sk	iP 16 59 45.6
"	5	Up	iPn 18 29 09.4			i	16 59 47.6
		Ud	iP 18 29 25.0			Um	iP 16 59 31.4 C
			iPn 18 29 38.8			i	16 59 32.7
		Caucasus.				ipP	17 00 17.3
"	6	Ki	iP 02 46 39.3			Ud	iP 17 00 02.6 C
			ipP 02 47 10.8			i	17 00 04.1
		Ud	iP 02 47 31.7			ipP	17 00 50.6
			ipP 02 48 03.8			De	iP 17 00 22.4
		De	iP 02 47 57.0			Kurile Islands.	
		Alaska.				h = 200 km (Ki,Um,Ud).	
		h = 140 km (Ki,Ud).				m = 5.9 (Up,Ki).	
"	6	Up	iSgl 08 12 52.5	"	6	Ki	iP 18 14 59.6
		e	08 13 34			Sk	iP 18 15 26.6
		i	08 14 11.0			Ud	iP 18 15 51.8
		Sk	iSgl 08 12 19.6			Kodiak Island (h = N).	
		(cont.)					

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

1974

Aug. 7 (cont.)
 Ki iP 19 02 49.4
 Sk iP 19 03 10.2
 Um iP 19 02 54.3
 Ud iP 19 03 13.5
 De iP 19 03 20.1
 Talaud Islands (h = 160 km).

" 7 Ki iP 21 16 24.0
 Sk iP 21 16 40.6
 Um iP 21 16 12.9
 Ud iP 21 16 31.2
 ipP 21 16 59.2
 De iP 21 16 28.2
 Afghanistan-USSR.
 h = 140 km (Ud).

" 7 Ki iP 23 30 27.4
 iS 23 31 42.7
 e(T) 23 35 36
 iTSg 23 35 58.8
 Sk iP 23 31 06.0
 iS 23 32 53.0
 Norwegian Sea.
 Origin time = 23 28 46.

" 8 Ki iP 01 24 38.9
 iS 01 25 52.8
 i(S) 01 26 09.1
 iTSg 01 30 15.0
 Sk iP 01 25 18.2
 i 01 25 22.6
 iS 01 26 59.6
 Um iP 01 25 29.2
 Ud i(P) 01 26 12.3
 Norwegian Sea.
 Origin time = 01 22 56.

" 8 Up eP 01 28 32
 iPP 01 28 51.1
 iS 01 31 29
 iTSg 01 36 31.8
 micr sec
 Mx E 2.0 18
 Mx N 7.8 19
 Mx Z 9.7 18
 Ki iP 01 26 55.7
 iS 01 28 10.7
 iTPg 01 31 51.3
 iTSg 01 32 31.9
 micr sec
 P Z' 0.1 0.8
 Mx E 9.7 18
 Mx N 9.9 20
 Mx Z 12 19
 Sk iP 01 27 34.4
 iS 01 29 20.8
 (cont.)

1974

Aug. 8 (cont.)
 Sk iTSg 01 34 24.1
 Um iP 01 27 43.9
 iS 01 29 52
 iTSg 01 34 27.8
 Ud iP 01 28 21.9
 i(S) 01 31 02.6
 iTSg 01 36 25.9
 De iP 01 29 13.4
 iPP 01 29 26.7
 Norwegian Sea (h = N).
 Clear T phases; notation follows Båth and Shahidi (1971), Pure Appl. Geophys., 92: 74-114.

" 8 Up i(P) 03 18 46.7
 Ki i(P) 03 18 25.2
 Sk i(P) 03 17 59.1

" 8 Ki iP 06 02 31.1
 iS 06 03 44.3
 iTSg 06 08 01.1
 Sk iP 06 03 09.1
 iS 06 04 55.6

Norwegian Sea.
 Origin time = 06 00 49.

" 8 Ud iPKP1 09 49 50.0
 De iPKP1 09 50 00.7

" 8 Ki iP 10 12 45.2
 iS 10 13 59.1
 i(S) 10 14 14.2
 iTPg 10 17 46.1
 iTSg 10 18 21.4
 Sk iP 10 13 24.4
 iS 10 15 08.6
 Um iP 10 13 30.9
 Ud i(P) 10 14 24.1

Norwegian Sea.
 Origin time = 10 11 03.

" 8 Ud iPKP1 10 40 20.8
 De iPKP1 10 40 31.4
 Fiji Islands (h = 570 km).

" 8 Ud i(P) 11 18 05.5
 " 8 Up i 12 53 12.4
 De e 12 53 38
 i(Sgl) 12 53 48.6

" 8 Ki iP 13 09 35.9
 Ud iP 13 09 46.1

" 8 Ud i 14 49 23.4
 (cont.)

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

1974
Aug. 8 (cont.)
Ud i(Rg) 14 49 31.8
De e 14 49 39
i(Rg) 14 49 56.1

" 8 Up iSgl 18 03 38.7
Ud iPgl 18 02 36.5
iSgl 18 02 58.2
De iPgl 18 02 42.0
iSgl 18 03 14.5

Dalsland, Sweden,
58.7°N, 12.2°E.
Origin time = 18 02 05.

" 8 Up i(S) 19 11 30.4
iTSG 19 16 09.8
micr sec
Mx E 0.6 17
Mx N 1.3 18
Mx Z 1.5 19
Ki iP 19 06 41.6
iS 19 07 54.3
i(S) 19 08 11.1
iTPg 19 11 37.3
iTSG 19 12 09.8
micr sec
P Z' 0.1 0.9
Mx E 0.8 12
Mx N 1.0 14
Mx Z 1.9 18
Sk iP 19 07 20.2
iS 19 09 05.7
eTSG 19 13 56
Um iP 19 07 29.2
iS 19 09 17.2
iTSG 19 14 07.1
Ud iP 19 08 08.2
i(P) 19 08 19.6
i(S) 19 10 56.1
iTSG 19 16 04.2
De iP 19 08 56.0
Norwegian Sea (h = N).

" 8 √ Up iP 19 28 34.3
i 19 28 41.2
iS 19 38 08
micr sec
P Z' 0.2 1.3
Mx E 15 21
Mx N 38 21
Mx Z 17 15
Ki iP 19 28 10.2
i 19 28 15.9
iS 19 37 26
micr sec
P Z' 0.5 1.9
(cont.)

1974
Aug. 8 (cont.)
Ki micr sec
Mx E 19 14
Mx N 23 16
Mx Z 11 12
Sk iP 19 28 32.8
i 19 28 42.1
Um iP 19 28 22.2
iS 19 37 43
Ud iP 19 28 45.4
De iP 19 28 53.2
i 19 29 15.2
Formosa (h = 30 km).
m = 6.2, M = 6.7 (Up,Ki).

" 8 Up i(P) 20 50 38.1
De i(P) 20 50 30.8

" 8 Um iP 23 08 34.8
Ud i(P) 23 08 03.0

" 8 Up i(S) 23 31 13.1
iTSG 23 35 54.5
micr sec
Mx N 1.0 19
Mx Z 1.2 18
Ki iP 23 26 23.4
iS 23 27 36.6
i(S) 23 27 52.8
iTPg 23 31 21.3
iTSG 23 32 04.0

micr sec
Mx E 0.9 13
Mx N 0.7 15
Mx Z 0.9 13

Sk iP 23 27 02.8
i(P) 23 27 11.6
iS 23 28 48.4
eTSG 23 33 49

Um i 23 27 00.0
iP 23 27 13.3
iTSG 23 33 56.8

Ud iP 23 27 50.3
i(P) 23 27 59.2
i 23 28 11.7
i 23 30 47.5
iTSG 23 35 42.6

De iP 23 28 39.8
Norwegian Sea (h = N).

" 9 Ki iP 02 46 03.8
Um i(P) 02 45 30.7
Ud iP 02 45 10.7
Ascension Island (h = N).

" 9 √ Up iP 05 06 52.2
(cont.)

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

1974				1974							
Aug.	9	(cont.)		Aug.	10	Um	i(P)	05 37 39.4			
		Up	micr sec			Ud	iP	05 37 48.8			
		P	Z' 0.1 1.3			De	iP	05 38 02.3			
		Ki	iP								
			05 06 56.6								
			micr sec								
		P	Z' 0.1 1.3	"	10	Up	iPKP	10 05 44.8			
		Sk	iP				i	10 05 48.9			
		Ud	iP				iSKP1	10 08 27.3			
		De	iP			Ki	iPKP	10 05 39.2			
			05 06 41.5				iSKP1	10 08 01.6			
			05 06 42.4			Sk	ePKP	10 05 49			
			05 06 41.5				i	10 05 50.8			
			Peru-Brazil (h = 160 km).				iSKP1	10 08 20.1			
			m = 6.2 (Up,Ki).				i	10 08 26.7			
"	9	Up	iP			Um	iPKP	10 05 44.2			
		Ki	iP				i	10 05 47.2			
			06 49 48.0				iSKP1	10 08 14.8			
			06 49 33.4 C			Ud	iPKP	10 05 44.9			
			micr sec				iSKP1	10 08 28.9			
		P	Z' 0.1 1.0			De	iPKP	10 05 55.6			
		Um	iP				i	10 05 59.5			
		Ud	iP								
		De	iP								
			06 49 38.7 C								
			06 49 57.8								
			06 50 03.9								
			Halmahera (h = 100 km).								
"	9	Ki	i(P)								
			10 31 43.4								
			Mariana Islands (h = 35 km).	"	10	Ud	iPP	10 07 29.0			
"	9	Ki	iP			De	iPP	10 07 17.6			
			14 56 30.9					Chile-Bolivia (h = 120 km).			
"	9	Um	iP			"	10	Up	iPKP	11 40 38.9	
		Ud	iP						micr sec		
			18 11 37.5						Z' 0.1 0.9		
			18 11 59.6			Ki	iPKP	11 40 31.0			
			Hindu Kush (h = 140 km).				iSKP1	11 43 04.1			
"	9	Um	iSKP1						micr sec		
		Ud	ePKP1						Z' 0.1 1.0		
			18 36 05.8						Z' 0.1 1.2		
			18 33 25			Sk	i(PKP)	11 40 31.8			
			18 33 26.2				iPKP	11 40 41.7			
		De	iPKP1			Um	i(PKP)	11 40 26.6			
			18 33 36.8				i(PKP)	11 40 33.8			
			Tonga-Kermadec Islands				iPKP	11 40 37.7			
			(h = 520 km).				iSKP1	11 43 14.3			
"	9	Ki	i			Ud	iPKP	11 40 40.9			
		Um	iP				iSKP1	11 43 29.5			
			19 19 23.2			De	iPKP	11 40 51.7			
			19 18 29.2				iSKP1	11 43 37.9			
"	9	Um	iP						Fiji Islands (h = 600 km).		
			19 25 12.8								
"	9	Up	iP			"	10	Up	eP	12 52 35	
		Um	iP						i	12 53 14.2	
		Ud	iP						i	12 54 15.2	
			20 20 29.3						iS	12 54 43.9	
			20 21 16.0			Ki	iP	12 53 25.6			
			20 20 34.4				eS	12 56 29			
			Greece.			Sk	eP	12 52 22			
"	9	Up	iP						iS	12 54 18.3	
			22 33 36.4						i	12 54 48.8	
"	9	Um	iPKP						Um	i	12 53 22.9
		Ud	iPKP							(cont.)	
			22 36 14.1								
			22 36 05.3								
			Chile (h = N).								
"	9	Ud	iP								
		De	iP								
			22 54 06.6								
			22 54 06.8								
			Sinkiang, China.								

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

1974				1974			
Aug.	11	Ki eP	02 32 11	Aug.	11	(cont.)	
		Sk iP	02 32 33.2			Ud iP	02 59 45.9
		Um iP	02 32 03.8			De eP	02 59 44
		Ud iP	02 32 25.8			Tadzhik-Sinkiang.	
		De iP	02 32 24.6			Origin time = 02 51 53.	
		Tadzhik-Sinkiang.		"	11	Ud iP	03 07 17.8
		Origin time = 02 24 34.		"	11	Ud iP	03 10 17.9
"	11	Up iP	02 37 22.7	"	11	Ud iP	03 10 47.4
		Ki iP	02 37 25.5	"	11	Ud iP	03 11 22.8
		Sk iP	02 37 46.6	"	11	Ud iP	03 12 28.4
		Um iP	02 37 17.9	"	11	Up iP	03 12 47.6
		Ud iP	02 37 39.7 C			Ki iP	03 12 49.0
		De iP	02 37 38.3			i	03 12 56.5
		Tadzhik-Sinkiang (h = N).				Um iP	03 12 43.8
"	11	Up iP	02 40 59.8	"	11	Ud iP	03 13 03.1
		Ki iP	02 41 02.6			De iP	03 13 04.3
		Sk iP	02 41 23.8			Tadzhik-Sinkiang (h = N).	
		Um iP	02 40 55.7	"	11	Ud iP	03 15 58.6
		Ud iP	02 41 16.7	"	11	Ki iP	03 23 32.5
		De iP	02 41 15.5			Ud iP	03 23 46.4
		Tadzhik-Sinkiang.				Tadzhik-Sinkiang.	
		Origin time = 02 33 25.				Origin time = 03 15 54.	
"	11	Up iP	02 44 45.0	"	11	Ki iP	03 31 48.1
		iPP	02 46 14.1			Um iP	03 31 40.6
		Ki iP	02 44 47.5			Ud iP	03 32 03.3
		Sk iP	02 45 08.6			De iP	03 32 01.3
		iPP	02 46 53.1			Tadzhik-Sinkiang (h = N).	
		Um iP	02 44 39.8	"	11	Up iP	03 35 32.6
		i	02 44 45.2			Ki iP	03 35 36.8
		Ud iP	02 45 01.2 C			Um iP	03 35 30.8
		De iP	02 45 00.0 C			Ud iP	03 35 49.1
		Tadzhik-Sinkiang (h = N).				Tadzhik-Sinkiang.	
"	11	Ud iP	02 51 03.1			Origin time = 03 27 59.	
"	11	Up iP	02 51 21.7	"	11	Ud iP	03 42 30.1
		Ki eP	02 51 24	"	11	Ki iP	03 46 35.0
		Tadzhik-Sinkiang.				Ud iP	03 46 48.7
		Origin time = 02 43 46.				Tadzhik-Sinkiang.	
"	11	Ki iP	02 52 33.3			Origin time = 03 38 57.	
		Um iP	02 52 24.4	"	11	Ud iP	03 55 35.0
		Ud iP	02 52 47.5			Um iP	03 55 30.7
		De iP	02 52 45.6			Tadzhik-Sinkiang.	
		Tadzhik-Sinkiang.				Origin time = 03 47 59.	
		Origin time = 02 44 55.		"	11	Up eP	03 57 31
"	11	Ki iP	02 54 12.0			(cont.)	
		De iP	02 54 25.2				
		Tadzhik-Sinkiang.					
		Origin time = 02 46 34.					
"	11	Ki iP	02 59 30.9				
		(cont.)					

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

1974
 Aug. 11 (cont.)
 Ki eP 03 57 30
 Sk iP 03 57 53.0
 Ud iP 03 57 43.2
 De iP 03 57 46.7
 Tadzhik-Sinkiang.
 Origin time = 03 49 54.

" 11 Ki eP 03 59 59
 Sk iP 04 00 19.1
 Um iP 03 59 52.4
 Ud iP 04 00 13.3
 De eP 04 00 13
 Tadzhik-Sinkiang.
 Origin time = 03 52 21.

" 11 Sk eP 04 06 53
 Ud eP 04 06 43
 Tadzhik-Sinkiang.
 Origin time = 03 58 52.

" 11 Ki iP 04 22 31.3
 Sk eP 04 22 56
 Um eP 04 22 22
 Ud iP 04 22 46.0
 Tadzhik-Sinkiang.
 Origin time = 04 14 54.

" 11 Up iP 04 36 22.1
 i 04 36 29.2
 iPP 04 37 57.4
 i 04 38 16.4
 i 04 38 38.6
 Ki iP 04 36 24.7 C
 i 04 36 30.7
 micr sec
 P Z' 0.1 0.8
 Sk iP 04 36 45.8
 i 04 36 51.0
 iPP 04 38 25.0
 Um iP 04 36 17.2
 i 04 36 22.3
 iPP 04 37 49.3
 Ud iP 04 36 38.9 C
 i 04 36 43.6
 iPP 04 38 24.8
 De iP 04 36 37.9 C
 i 04 36 43.0
 iPP 04 38 18.9
 Tadzhik-Sinkiang (h = N).
 Double P, average separation
 5.5 sec.

" 11 Up iP 04 43 17.6
 Ki iP 04 43 19.1
 Um iP 04 43 11.0
 (cont.)

1974
 Aug. 11 (cont.)
 Ud iP 04 43 33.4
 Tadzhik-Sinkiang.
 Origin time = 04 35 41.

" 11 Um iP 04 44 44.2
 Ud iP 04 45 06.9
 Tadzhik-Sinkiang.
 Origin time = 04 37 14.

" 11 Ki iP 04 48 13.5
 Um iP 04 48 08.0
 Ud iP 04 48 28.3
 De eP 04 48 24
 Tadzhik-Sinkiang.
 Origin time = 04 40 36.

" 11 Ud iP 04 51 47.6

" 11 Up iP 05 20 06.8
 i 05 20 11.2
 iPP 05 21 26.5
 micr sec
 P Z' 0.2 1.0
 Mx E 1.3 14
 Mx N 4.2 14
 Mx Z 2.3 11
 Ki iP 05 20 10.8 C
 i 05 20 14.0
 micr sec
 P Z' 0.2 0.8
 Mx E 1.9 11
 Mx N 3.6 13
 Mx Z 1.7 10
 Sk iP 05 20 31.4 C
 i 05 20 34.6
 iPP 05 22 13.6
 Um iP 05 20 03.2 C
 i 05 20 06.2
 iPP 05 21 26.9
 Ud iP 05 20 24.8 C
 i 05 20 27.9
 De iP 05 20 23.7 C
 i 05 20 26.9
 iPP 05 22 04.5
 Tadzhik-Sinkiang (h = N).
 m = 5.8, M = 5.4 (Up,Ki).
 Double P, average separation
 3.5 sec.

" 11 Ki iP 05 24 43.5
 Ud iP 05 24 57.4
 De iP 05 24 55.7
 Tadzhik-Sinkiang.
 Origin time = 05 17 06.

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

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Aug. 11 Up iP 05 27 08.7
 Ki iP 05 27 10.0
 i 05 27 17.7
 micr sec
 P Z' 0.1 0.9
 Sk iP 05 27 31.4
 Um iP 05 27 02.9
 Ud iP 05 27 23.8
 i 05 27 34.9
 De iP 05 27 22.7
 i 05 27 24.1
 Tadzhik-Sinkiang (h = 30 km).

" 11 ✓Up iP 05 31 27.6 C
 iPP 05 32 57.5
 iSS 05 40 18.0
 micr sec
 P Z' 0.2 0.9
 PP Z' 0.1 1.0
 Mx E 1.8 12
 Mx N 6.0 17
 Mx Z 4.0 12
 Ki iP 05 31 30.3 C
 micr sec
 P Z' 0.5 0.8
 Mx E 4.6 13
 Mx N 9.9 13
 Mx Z 4.4 13
 Sk iP 05 31 51.3 C
 iPP 05 33 31.0
 Um iP 05 31 22.7 C
 iPP 05 32 53.3
 Ud iP 05 31 44.5 C
 De iP 05 31 43.1 C
 iPP 05 33 22.2
 Tadzhik-Sinkiang (h = 25 km).
 m = 6.0, M = 5.6 (Up,Ki).

" 11 Up iP 05 41 22.8
 Ki iP 05 41 25.3
 Sk iP 05 41 45.3
 Um iP 05 41 17.6
 Ud iP 05 41 39.1
 De iP 05 41 38.4
 Tadzhik-Sinkiang (h = N).

" 11 Ud iP 06 14 41.0

" 11 Ki eP 06 16 13
 Ud iP 06 16 27.1
 De iP 06 16 26.1
 Tadzhik-Sinkiang.
 Origin time = 06 08 35.

" 11 Ki iP 06 20 16.0
 Ud iP 06 20 29.9
 Tadzhik-Sinkiang.
 Origin time = 06 12 38.

1974

Aug. 11 Ki iP 06 20 55.9
 Ud iP 06 21 10.4
 De eP 06 21 10
 Tadzhik-Sinkiang.
 Origin time = 06 13 18.

" 11 Ud iP 06 25 02.4

" 11 Ud iP 07 07 27.7

" 11 Up iP 07 09 44.6
 i 07 10 24.3
 iPP 07 11 10.1
 i 07 11 24.1
 micr sec

P Z' 0.1 1.0
 Mx E 2.1 14
 Mx N 4.8 18
 Mx Z 2.9 13

Ki iP 07 09 46.1
 i 07 09 50.4
 micr sec

P Z' 0.2 0.8
 Mx E 1.7 12
 Mx N 6.5 13
 Mx Z 1.8 11

Sk iP 07 10 06.1
 i 07 10 11.0

iPP 07 11 50.9
 Um iP 07 09 38.1

i 07 09 40.9
 iPP 07 11 11.5

Ud iP 07 09 59.2
 i 07 10 04.8

iPP 07 11 46.4
 De iP 07 09 58.3

i 07 10 00.3
 i(PP) 07 11 47.6

Tadzhik-Sinkiang (h = N).
 m = 5.6, M = 5.4 (Up,Ki).
 Multiple P.

" 11 Ki iP 07 22 08.0
 Ud eP 07 22 20

i 07 22 28.0
 De iP 07 22 18.3

Tadzhik-Sinkiang.
 Origin time = 07 14 28.

" 11 Ud iP 07 26 34.1

" 11 Ud iP 08 02 43.7

" 11 Up iP 08 10 31.9
 i 08 11 07.8

i(PP) 08 12 07.0
 Ki iP 08 10 34.8 C

(cont.)

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

1974

Aug. 11 (cont.)
 Ki i 08 10 40.3
 iPP 08 12 09.3
 micr sec
 P Z' 0.1 1.0
 Sk iP 08 10 55.7 C
 iPP 08 12 35.8
 Um iP 08 10 27.2 C
 i 08 10 33.6
 Ud iP 08 10 49.0 C
 iPP 08 12 33.5
 De iP 08 10 48.1 C
 Tadzhhik-Sinkiang (h = 10 km).

" 11 Ki iP 09 09 37.5
 Um iP 09 09 30.5
 Ud iP 09 09 51.8
 De iP 09 09 50.3
 Tadzhhik-Sinkiang.
 Origin time = 09 02 00.

" 11 Ud iP 09 11 32.9

" 11 Up iP 09 16 34.8
 iPn 09 17 52.9
 iPP 09 18 09.5
 micr sec
 Mx E 0.8 14
 Mx N 1.3 18
 Mx Z 1.1 14
 Ki iP 09 16 37.5 C
 micr sec
 P Z' 0.1 0.8
 Mx E 0.7 9
 Mx N 0.9 13
 Mx Z 0.8 10
 Sk iP 09 16 58.3
 Um iP 09 16 29.8
 i 09 16 35.1
 Ud iP 09 16 51.5 C
 De iP 09 16 50.1 C
 i 09 16 54.7
 Tadzhhik-Sinkiang (h = 30 km).
 M = 5.1 (Up,Ki).

" 11 Ki iP 09 21 08.7
 Sk iP 09 21 29.8
 Ud iP 09 21 20.1
 Tadzhhik-Sinkiang.
 Origin time = 09 13 30.

" 11 Ud iP 10 06 10.3

" 11 Ud iP 10 14 04.0

" 11 Ud iP 10 19 07.4

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Aug. 11 Ki iP 10 37 36.4
 Sk iP 10 37 57.2
 Um iP 10 37 28.0
 Ud iP 10 37 50.1
 De iP 10 37 48.8
 Tadzhhik-Sinkiang.
 Origin time = 10 29 58.

" 11 Ud iP 10 53 22.6

" 11 Ki iP 11 09 00.6
 Um i(P) 11 08 57.7
 Ud iP 11 09 14.2
 Tadzhhik-Sinkiang.
 Origin time = 11 01 23.

" 11 Ud iP 11 38 00.6

" 11 Ki iP 11 45 00.0
 Ud iP 11 45 13.9
 Tadzhhik-Sinkiang.
 Origin time = 11 37 22.

" 11 Up iP 12 13 58.7
 Ki iP 12 14 00.1
 micr sec
 Mx N 0.5 13
 Sk iP 12 14 21.6
 Um iP 12 13 52.2
 Ud iP 12 14 14.2
 De iP 12 14 12.7
 Tadzhhik-Sinkiang (h = N).

" 11 Up iP 12 28 08.5
 Ki iP 12 28 09.8
 micr sec
 Mx E 0.3 12
 Mx N 0.5 13
 Sk iP 12 28 31.2
 Um iP 12 28 02.8
 Ud iP 12 28 23.7
 De eP 12 28 21
 i 12 28 23.2
 Tadzhhik-Sinkiang (h = N).

" 11 Up iP 12 52 39.1
 Ki iP 12 52 41.9 C
 micr sec
 Mx E 0.4 11
 Mx Z 0.3 13

Sk iP 12 53 02.4
 iPP 12 54 43.7
 Um iP 12 52 34.0 C
 Ud iP 12 52 55.8 C
 De iP 12 52 54.7
 Tadzhhik-Sinkiang (h = N).

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

1974				1974			
Aug.	11	Ud	iP	13 08 17.4	Aug.	11	(cont.)
"	11	Up	iP	13 16 21.6			Ud iP 15 17 07.4
		Ud	eP	13 16 39			Tadzhik-Sinkiang.
				Tadzhik-Sinkiang.			Origin time = 15 09 15.
				Origin time = 13 08 47.	"	11	Ki iP 16 52 18.4
"	11	Ki	iP	13 28 55.2			Ud iP 16 52 32.3
				micr sec			Tadzhik-Sinkiang.
		Mx	N	0.5 13			Origin time = 16 44 40.
		Um	iP	13 28 48.4	"	11	Ud iP 16 55 29.7
		Ud	iP	13 29 10.0			
		De	eP	13 29 08	"	11	Up iP 17 29 04.2
			i	13 29 09.0			Ki iP 17 29 06.1
				Tadzhik-Sinkiang (h = N).			Ud iP 17 29 20.1
"	11	Ki	iP	13 40 16.5			De iP 17 29 19.3
		Um	iP	13 40 10.7			Tadzhik-Sinkiang.
		Ud	iP	13 40 29.8			Origin time = 17 21 28.
		De	iP	13 40 28.9	"	11	Up iP 17 48 18.4
				Tadzhik-Sinkiang.			Ki iP 17 48 21.4
				Origin time = 13 32 39.			Sk iP 17 48 42.2
"	11	Up	iP	13 46 01.1			Um iP 17 48 13.7
		Ki	iP	13 46 02.1			Ud iP 17 48 35.4
		Sk	iP	13 46 24.0			De iP 17 48 34.4
		Um	iP	13 45 54.7			Tadzhik-Sinkiang (h = N).
			i	13 45 58.9	"	11	Ki iP 17 50 30.9
		Ud	iP	13 46 16.4			Ud iP 17 50 41.7
			i	13 46 20.0			De iP 17 50 41.0
		De	iP	13 46 15.2			Tadzhik-Sinkiang.
				Tadzhik-Sinkiang (h = N).			Origin time = 17 42 51.
"	11	Up	iP	14 07 00.2	"	11	Ud e 18 15 15
		Ki	iP	14 07 00.8			iSgl 18 15 55.3
			i	14 07 03.2	"	11	Ki iP 18 19 35.3
				micr sec			Ud iP 18 19 48.1
		P	Z'	0.1 0.8			Tadzhik-Sinkiang.
		Sk	iP	14 07 21.6			Origin time = 18 11 56.
			i	14 07 23.6	"	11	Ud iP 19 01 42.5
		Um	iP	14 06 53.0	"	11	Ud iP 19 04 29.4
			i	14 06 55.4			Kurile Islands.
		Ud	iP	14 07 14.8	"	11	Ki iP 19 34 57.5
			i	14 07 17.3			Ud iP 19 35 12.2
		De	iP	14 07 13.6			Tadzhik-Sinkiang.
			i	14 07 16.1			Origin time = 19 27 20.
				Tadzhik-Sinkiang (h = N).	"	11	Up iP 19 38 15.4
				Double P, average separation			i 19 38 19.0
				2.4 sec.			Ki iP 19 38 14.9
"	11	Ud	iP	14 23 40.4			i 19 38 22.0
"	11	Ud	iP	14 40 58.6			(cont.)
				Tadzhik-Sinkiang.			
"	11	Ki	eP	15 16 54			
				(cont.)			

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

1974				1974				
Aug.	11	(cont.)		Aug.	11	Ud	iP	20 55 23.4
		Sk	iP			"	Ud	iPKP1
			iPP				De	iPKP1
		Um	iP			"	11	Up
			iPP					iP
		Ud	iP					i
			i					iPP
		De	eP					iS
			i					
		Tadzhik-Sinkiang (h = N).						micr sec
							P	Z' 0.4 1.2
"	11	Up	iP				PP	Z' 1.6 2.0
							Mx	E 14 10
"	11	Up	iP				Mx	N 18 18
			i				Mx	Z 28 10
			iPP			Ki	iP	21 29 13.7 D
			iS				i	21 29 16.5
							iPP	21 30 45
							iS	21 35 23
								micr sec
							P	Z' 1.0 1.5
							Mx	E 49 12
							Mx	N 50 12
							Mx	Z 47 12
						Sk	iP	21 29 33.9 D
							i	21 29 36.7
							iPP	21 31 13.2
						Um	iP	21 29 05.4 D
							i	21 29 08.6
							iPP	21 30 34.2
						Ud	iP	21 29 27.3 D
							i	21 29 30.3
							iPP	21 31 06.0
						De	iP	21 29 26.2 D
							i	21 29 29.0
							iPP	21 31 09.4
						Tadzhik-Sinkiang (h = 9 km).		
						m = 6.1, M = 6.5 (Up,Ki).		
						As distinct from most other		
						aftershocks in this series,		
						this shock shows a very clear		
						P dilatation and not		
						compression.		
						"	11	Ud
								iP
								21 49 42.6
						"	11	Up
								iP
								21 57 43.1
								Ki
								iP
								21 57 44.0
								Sk
								iP
								21 58 04.6
								Um
								iP
								21 57 36.4
								Ud
								iP
								21 57 58.0
								De
								iP
								21 57 57.0
						Tadzhik-Sinkiang (h = N).		
						"	11	Up
								iP
								22 04 04.7
								Ki
								iP
								22 04 05.3
						(cont.)		

Tadzhik-Sinkiang (h = N).
m = 6.1, M = 5.9 (Up,Ki).
Double P, average separation
3.2 sec.
In this series of aftershocks,
Ki is one of our most
sensitive stations (for P),
while PP Z' almost never shows
up clearly at Ki, as distinct
from our other stations.

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

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Aug.	11	(cont.)			
		Sk	iP	22 04	26.3
		Um	iP	22 03	57.7
		Ud	iP	22 04	19.1
		De	iP	22 04	17.4
		Tadzhik-Sinkiang (h = N).			
"	11	Ki	iP	22 04	34.8
		Sk	eP	22 04	59
		Um	iP	22 04	25.7
		Ud	iP	22 04	49.0
		De	iP	22 04	48.7
		Tadzhik-Sinkiang.			
		Origin time = 21 56 58.			
"	11	De	iPKP	22 11	45.8
"	11	Up	iP	22 18	02.1
			i	22 18	04.9
		Ki	iP	22 18	04.7
		Sk	iP	22 18	25.7
		Um	iP	22 17	57.3
			i	22 18	00.2
		Ud	iP	22 18	18.8
			i	22 18	21.7
		De	iP	22 18	17.6
			i	22 18	20.6
		Tadzhik-Sinkiang (h = N).			
		Double P, average separation			
		2.9 sec.			
"	11	Ki	iP	22 24	28.4
		Ud	iP	22 24	42.5
		Tadzhik-Sinkiang.			
		Origin time = 22 16 50.			
"	11	Ki	iP	22 31	03.3
			i	22 31	07.2
		Sk	eP	22 31	28
		Um	iP	22 30	58.9
		Ud	eP	22 31	16
			i	22 31	23.6
		De	eP	22 31	21
		Tadzhik-Sinkiang.			
"	11	Ki	eP	22 33	13
		Ud	iP	22 33	22.5
		Tadzhik-Sinkiang.			
		Origin time = 22 25 33.			
"	11	Ki	iP	22 43	36.3
"	11	Ki	eP	22 48	58
"	11	Up	iP	22 51	37.4
		Ki	i(P)	22 51	09.3

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Aug.	11	Ud	iP	22 56	26.4
"	11	Up	iP	23 26	31.0
			iPP	23 28	01.7
				micr sec	
			Mx	E	0.5 11
			Mx	N	0.7 15
			Mx	Z	0.7 11
		Ki	iP	23 26	34.2 D
			iPP	23 28	06.7
				micr sec	
			P	Z'	0.1 0.7
			Mx	E	0.8 12
			Mx	N	0.5 12
			Mx	Z	0.8 12
		Sk	iP	23 26	54.8 D
		Um	iP	23 26	26.7
		Ud	iP	23 26	48.4 D
		De	iP	23 26	47.1 D
			iPP	23 28	26.8
		Tadzhik-Sinkiang (h = N).			
		M = 4.9 (Up,Ki).			
"	11	Ud	iP	23 34	32.3
"	12	Ud	iP	00 18	20.3
"	12	Ki	iP	00 20	24.3
		Ud	iP	00 20	37.3
		Tadzhik-Sinkiang.			
		Origin time = 00 12 45.			
"	12	Ki	eP	00 44	45
		Ud	iP	00 44	59.5
		Tadzhik-Sinkiang.			
		Origin time = 00 37 08.			
"	12	Ki	iP	00 51	44.5
		Um	iP	00 51	36.5
		Ud	iP	00 51	58.5
		Tadzhik-Sinkiang.			
		Origin time = 00 44 07.			
"	12	Ki	iP	00 58	38.7
		Ud	iP	00 58	47.6
		Tadzhik-Sinkiang.			
"	12	Ki	iP	01 24	41.7
		Um	iP	01 24	34.6
		Ud	iP	01 24	55.7
		Tadzhik-Sinkiang.			
		Origin time = 01 17 04.			
"	12	Ud	iP	01 26	44.4
"	12	Ki	iP	01 44	09.2
		Um	iP	01 44	43.9

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

1974				1974			
Aug.	12	(cont.)		Aug.	12	(cont.)	
		Tadzhik-Sinkiang (h = N). M = 5.1 (Up,Ki).				Up	micr sec
						Mx	E 0.6 12
						Mx	N 1.2 17
						Mx	Z 0.8 12
"	12	Up iP	14 22 42.3			Ki iP	21 25 27.5
		Ki iP	14 22 45.3				micr sec
		Sk iP	14 23 08.6			P	Z' 0.1 1.0
		Um iP	14 22 37.4			Mx	E 1.3 15
		Ud iP	14 22 59.1			Mx	N 1.4 13
		De iP	14 22 56.7			Mx	Z 1.1 13
		Tadzhik-Sinkiang. Origin time = 14 15 07.				Sk iP	21 25 48.5
						Um iP	21 25 19.7
"	12	Ki eP	14 28 30			i	21 25 23.1
		Sk eP	14 27 55			iPP	21 26 52.7
		Um iP	14 28 10.1			Ud iP	21 25 41.5
		Ud iP	14 27 39.9			iPP	21 27 26.7
		North of Ascension Island (h = N).				De iP	21 25 40.5
						i	21 25 45.0
						i	21 27 37.9
"	12	Sk eP	15 02 09			Tadzhik-Sinkiang (h = 25 km). M = 5.0 (Up,Ki).	
		Ud e(P)	15 01 26				
		i	15 01 40.7				
		Greece.		"	12	Up eP	21 40 06
						ipP	21 40 19.2
"	12	Ud iP	16 35 46.4			Ki eP	21 39 49
						ipP	21 40 04.8
"	12	Up iP	17 36 29.4			Sk eP	21 39 44
		i	17 36 35.0			ipP	21 39 58.7
		Um iP	17 36 51.3			Um iP	21 39 56.8
		Ud iP	17 36 56.2			ipP	21 40 09.1
						Ud iP	21 40 06.0
"	12	Up iP	19 06 35.3			ipP	21 40 18.0
		Ki iP	19 06 41.8			De ipP	21 40 19.1
		Sk iP	19 07 00.3			Mexico. h = 50 km (Up,Ki,Sk,Um,Ud).	
		Um iP	19 06 32.3				
		Ud iP	19 06 51.9				
		De iP	19 06 49.7	"	12	Up iP	22 04 52.4
		Afghanistan-USSR. Intermediate depth.					micr sec
						Mx	E 0.6 12
						Mx	N 0.8 16
"	12	Ki eP	20 26 04			Mx	Z 0.8 12
		Sk iP	20 26 30.3			Ki iP	22 04 55.5
		Ud iP	20 26 22.9				micr sec
		Tadzhik-Sinkiang. Origin time = 20 18 30.				Mx	E 0.6 15
						Mx	N 0.7 13
						Mx	Z 0.5 12
"	12	Um iP	21 01 42.2			Sk iP	22 05 15.8
		i	21 01 56.2			i	22 05 25.8
		Ud iP	21 02 14.3			Um iP	22 04 47.3
		Kurile Islands.				Ud iP	22 05 09.6
						i	22 05 18.1
"	12	Up iP	21 25 25.2			De iP	22 05 08.3
		i	21 25 37.1			Tadzhik-Sinkiang (h = N). M = 4.9 (Up,Ki).	
		i	21 26 11.5				
		iPP	21 26 55.8				
		(cont.)					

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

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Aug. 12 Ki iP 22 10 12.3
i 22 10 14.6
Sk eP 22 10 32
Um iP 22 10 06.6
Ud iP 22 10 26.1

Tadzhik-Sinkiang.

Origin time = 22 02 34.

" 12 Up iP 22 52 09.5
Ki iP 22 52 12.8
Sk iP 22 52 33.4
i 22 52 36.1
Um iP 22 52 05.6
Ud iP 22 52 26.8
De iP 22 52 23.0
i 22 52 28.3

Tadzhik-Sinkiang (h = N).

" 12 Up iP 23 58 02.8
Ki iP 23 57 38.2
Sk iP 23 58 06.0
Um iP 23 57 47.1
Ud iP 23 58 12.4
De iP 23 58 24.1

Formosa (h = 25 km).

" 13 Ki iP 00 26 08.7
Ud iP 00 26 30.9

" 13 Ud iP 00 53 48.9

" 13 Ud iP 03 22 22.5

" 13 Ki iPKP 03 30 17.7
South Sandwich Islands
(h = N).

" 13 ✓ Up iP 03 57 15.5 C
iS 04 06 07
iP'P' 04 25 27.8
micr sec
P Z' 0.2 0.9
Mx E 5.8 19
Mx N 5.7 20
Mx Z 9.8 20
Ki iP 03 56 22.7 C
iPP 03 58 41
iScP 04 01 06.9
iP'P' 04 25 42.7
micr sec
P Z' 0.2 1.4
Mx E 8.5 20
Mx N 5.8 19
Mx Z 6.1 20
Sk iP 03 56 57.3
iPcP 03 57 29.0
(cont.)

1974

Aug. 13 (cont.)

Sk iScP 04 01 31.5
iP'P' 04 25 35.6

Um iP 03 56 48.7
iScP 04 01 28.1

iS 04 05 21
iP'P' 04 25 35.5

Ud iP 03 57 16.3
iP'P' 04 25 32.7

De iP 03 57 38.0 C
i 03 57 53.3

Aleutian Islands (h = 50 km).
m = 6.1, M = 6.0 (Up, Ki).

" 13 Ud iP 04 10 49.5

" 13 Up iP 04 34 37.4
iPP 04 36 15.2

Ki iP 04 34 48.1
Sk iP 04 35 03.8

ipP 04 35 37.1
Um iP 04 34 36.7

Ud iP 04 34 54.0
ipP 04 35 30.4

De iP 04 34 52.9
Hindu Kush.

h = 170 km (Sk, Ud).

" 13 Up micr sec
Mx N 1.0 22
Mx Z 1.4 21
Ki iPKP 06 12 14.3

micr sec
Mx E 0.7 20
Mx N 0.8 19

Mx Z 1.2 20

Fiji Islands (h = 30 km).
M = 5.6 (Up, Ki).

" 13 Ki iP 07 31 16.9
Molucca Passage (h = N).

" 13 Up Mx 08 36
micr sec

Mx N 0.8 21
Mx Z 1.5 22

Fiji Islands (h = N).

" 13 Ud iP 10 30 25.2

" 13 Up iP 11 22 12.9
Ki iP 11 22 16.6

Sk iP 11 22 38.1
Ud iP 11 22 30.2

De iP 11 22 29.9
Tadzhik-Sinkiang (h = 20 km).

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

1974					1974					
Aug.	13	Up		micr sec	Aug.	13	(cont.)			
		Mx	E	1.0 20			Ud	iPKP	15 21 47.6	
		Mx	N	1.9 21			De	iPKP	15 21 51.2	
		Mx	Z	2.7 22			New Britain (h = 100 km).			
		Ki	iPKP	13 11 47.4		"	13	Ki	iP	16 46 03.1
				micr sec				Tadzhik-Sinkiang.		
		Mx	E	1.5 20		"	13	Sk	iSgl	19 55 28.0
		Mx	N	1.6 19				Ud	iSgl	19 54 48.2
		Mx	Z	2.4 20				De	iSgl	19 54 53.3
		Fiji Islands (h = 55 km).						Southwest Norway.		
		M = 5.9 (Up,Ki).								
"	13	Ki	iPKP	14 00 34.2		"	13	Ki	iP	21 26 55.5
		Fiji Islands (h = N).						i	21 26 57.1	
"	13	Ki	iP	14 00 49.4				Sk	iP	21 27 18.1
		Ud	iP	14 01 04.0				Um	iP	21 26 48.6
		Tadzhik-Sinkiang.						Ud	iP	21 27 11.6
		Origin time = 13 53 11.						De	iP	21 27 09.1
"	13	Ki	iP	14 23 42.9				Tadzhik-Sinkiang (h = N).		
		Sk	iP	14 24 03.4		"	14	Ki	iP	01 23 42.1
		Ud	iP	14 23 56.9				Um	iP	01 23 36.2
		De	iP	14 23 56.4				Ud	iP	01 23 58.1
		Tadzhik-Sinkiang (h = N).						Tadzhik-Sinkiang.		
"	13	Um	iP	14 41 53.7				Origin time = 01 16 05.		
		Ud	iP	14 42 29.7		"	14	Ki	iP	01 38 40.2
		Kurile Islands (h = N).						Sk	eP	01 39 01
"	13	Ki	iP	14 55 49.1				Um	iP	01 38 32.2
		i		14 55 53.4				Ud	iP	01 38 54.0
		Ud	iP	14 56 03.3				De	iP	01 38 53.5
		Tadzhik-Sinkiang (h = N).						Tadzhik-Sinkiang (h = N).		
"	13	Up	iPKP1	15 05 35.9		"	14	Ki	iP	02 26 28.6
				micr sec				Sk	iP	02 26 50.0
			PKP1	Z' 0.1 1.4				Um	iP	02 26 21.3
		Ki	ePKP	15 05 30				Ud	iP	02 26 42.8
			iPKP1	15 05 34.7				i	02 26 47.7	
				micr sec				De	iP	02 26 42.1
			PKP1	Z' 0.2 1.2				Tadzhik-Sinkiang.		
		Mx	E	0.8 18				Origin time = 02 18 51.		
		Mx	N	0.6 19		"	14	Ud	e	02 42 30
		Mx	Z	0.6 19				i	02 42 32.3	
		Sk	iPKP1	15 05 44.0				iRg	02 42 38.2	
		Um	iPKP1	15 05 34.1		"	14	Ud	iP	03 28 32.1
		Ud	iPKP2	15 05 56.9						
		De	iPKP1	15 05 38.6		"	14	Up	iPKP1	03 32 27.6
		West of Macquarie Islands (h = N).						Sk	iPKP1	03 32 15.5
"	13	Up	iPKP	15 21 43.2				i	03 32 22.7	
		Ki	iPKP	15 21 33.5				Um	iPKP1	03 32 10.7
		Sk	iPKP	15 21 44.6				Ud	iPKP1	03 32 24.8
		Um	iPKP	15 21 36.8				i	03 32 34.9	
		(cont.)						De	i	03 32 46.7
								Kermadec Islands.		

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

1974				1974					
Aug.	14	Up	iP	03 56 15.9	Aug.	14	Ki	iP	06 25 53.4
		Ki	iP	03 55 42.6				i	06 25 58.5
		Um	iP	03 55 57.1			Sk	iP	06 26 15.4
		Ud	iP	03 56 22.8				i	06 26 20.3
		De	iP	03 56 35.1			Ud	iP	06 26 07.5
		Bonin Islands (h = 60 km).						i	06 26 13.2
"	14	Ki	iPKP	04 05 32.1			De	iP	06 26 04.7
		Sk	iPKP	04 05 43.5				i	06 26 10.9
		Um	iPKP	04 05 38.7			Tadzhik-Sinkiang (h = N).		
							Double P, average separation 5.5 sec.		
"	14	Ki	iP	05 10 08.2	"	14	Up	iP	07 00 27.8 C
		Ud	iP	05 10 22.2				P	Z' 0.1 1.0
		Tadzhik-Sinkiang.					Ki	iP	06 59 45.3 C
		Origin time = 05 02 30.						P	Z' 0.1 1.0
"	14	Up	iP	05 43 44.6			Sk	iP	07 00 20.1 C
		Ki	iP	05 42 56.5			Um	iP	07 00 03.9 C
		Sk	eP	05 43 30			Ud	iP	07 00 34.5 C
		Um	iP	05 43 18.6 C			De	iP	07 00 51.1 C
			ipP	05 43 31.2			Japan (h = 40 km).		
		Ud	iP	05 43 49.9			m = 6.0 (Up,Ki).		
		Kurile Islands.							
		h = 45 km (Um).				"	14	Ki	iP
"	14	Up	iP	05 45 49.8 C			Sk	eP	07 15 13.7
			ipP	05 46 02.6			Ud	iP	07 15 35
			iP'P'	06 13 58.6			De	iP	07 15 27.2
									07 15 26.2
							Tadzhik-Sinkiang.		
							Origin time = 07 07 36.		
			P	Z' 0.2 0.8	"	14	Up	iP	07 58 31.4
			Mx	E 0.8 17			Ki	iP	07 58 33.9
			Mx	N 1.3 18			Sk	iP	07 58 55.0
			Mx	Z 1.9 20			Um	iP	07 58 26.0
		Ki	iP	05 44 56.5 C			Ud	iP	07 58 47.9
			ipP	05 45 12.2			De	iP	07 58 46.8
			iPcP	05 45 42.4			Tadzhik-Sinkiang (h = N).		
			iScP	05 49 39.1			"	14	Sk
									10 51 57.7
									Ud
									10 51 23.8
									Greece.
			P	Z' 0.1 1.2	"	14	Ud	iPKP1	11 27 29.6
			Mx	E 1.5 18	"	14	Ki	iP	11 46 17.5
			Mx	N 1.2 18			Ud	iP	11 46 31.4
			Mx	Z 1.4 17			Tadzhik-Sinkiang.		
		Sk	iP	05 45 28.5 C			Origin time = 11 38 39.		
			iPcP	05 46 01.5	"	14	Up	iP	13 06 04.1
			iP'P'	06 14 08.9			Ki	i(P)	13 07 05.5 C
		Um	iP	05 45 22.6 C				i	13 07 12.8
			ipP	05 45 35.6			Sk	e(P)	13 06 54
			iPcP	05 45 58.2			(cont.)		
			iP'P'	06 14 10.6					
		Ud	iP	05 45 49.8 C					
			iPcP	05 46 16.5					
		De	iP	05 46 12.3 C					
			ipP	05 46 27.4					
		Aleutian Islands.							
		h = 50 km (Up,Ki,Um,De).							
		m = 6.0, M = 5.3 (Up,Ki).							

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

1974

Aug. 14 (cont.)
 Ud i 22 14 54.2
 De iP 22 14 44.5
 i 22 14 52.7
 TadzhiK-Sinkiang (h = N).
 M = 4.9 (Up,Ki).
 Probably two shocks, 8.5
 sec apart.

" 14 Ki iP 23 57 42.3
 Um iP 23 57 34.7
 Ud iP 23 57 56.6
 Sinkiang, China.
 Origin time = 23 50 05.

" 15 Ki iP 00 39 37.2
 Mariana Islands (h = 50 km).

" 15 Ki iP 00 40 12.2
 Um iP 00 40 34.1

" 15 Ud iPKP1 01 38 31.2
 De iPKP1 01 38 42.8 C
 Tonga Islands (h = 170 km).

" 15 Ki iP 02 14 03.9
 micr sec
 P Z' 0.1 1.1
 Sk iP 02 14 27.0
 Um iP 02 14 13.6
 Ud iP 02 14 28.7
 North of Halmahera
 (h = 60 km).
 Our readings are consistently
 late compared to the NEIS
 solution.

" 15 Up iP 02 24 52.9
 Um iP 02 25 12.1

" 15 Up iP 03 53 49.1
 Sk iP 03 53 44.9
 Um iP 03 53 29.0
 Ud iP 03 53 56.8
 Japan (h = 45 km).

" 15/ Up iPKP 03 54 45.4
 micr sec
 Mx E 0.7 19
 Mx N 0.7 20
 Mx Z 0.8 20
 Ki iPKP 03 54 33.0
 micr sec
 Mx E 0.9 20
 Mx N 0.5 19
 Mx Z 0.9 20
 (cont.)

1974

Aug. 15 (cont.)
 Sk iPKP 03 54 43.9
 Um iPKP 03 54 38.7
 Ud iPKP 03 54 45.9
 De iPKP 03 54 53.2
 Solomon Islands (h = 60 km).
 M = 5.5 (Up,Ki).

" 15 Up iP 04 46 14.3
 Ki iP 04 46 17.4 C
 Sk iP 04 46 37.7
 Um iP 04 46 09.6
 Ud iP 04 46 31.2 C
 De iP 04 46 30.3 C
 TadzhiK-Sinkiang (h = N).

" 15 Ki iP 08 34 10.8
 Ud iP 08 34 24.7
 TadzhiK-Sinkiang.
 Origin time = 08 26 33.

" 15 Ud iP 08 36 29.2 C
 De iP 08 36 28.0

" 15 Up iPKP1 08 46 46.4
 Ud iPKP1 08 46 47.1

" 15 Up iP 10 57 33.3
 Ki iP 10 57 01.1
 Sk iP 10 57 30.4
 Um iP 10 57 15.0
 Ud iP 10 57 40.2
 De iP 10 57 52.4
 Bonin Islands (h = 420 km).

" 15 Ki eP 11 30 29
 Ud iP 11 30 45.1
 De iP 11 30 44.1
 TadzhiK-Sinkiang (h = N).

" 15 Ki iP 13 14 14.4 C
 Ud iP 13 14 29.1
 De eP 13 14 31
 Kashmir-Sinkiang (h = 110 km).

" 15 Sk iPKP1 14 45 19.0
 i 14 45 48.0
 Um iPKP1 14 45 18.1

" 15 Ki e(P) 15 06 56
 Um e(P) 15 05 52
 De eP 15 05 01
 i 15 05 06.6

" 15 Up iP 15 41 19.3
 i 15 41 25.3

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

1974				1974			
Aug.	15	Um	iPKP	18 46 11.1	Aug.	16	(cont.)
		Ud	iPKP	18 46 02.9			Ud ipP 01 58 47.0
				Chile (h = 100 km).			Kurile Islands.
							h = 45 km (Up,Um,Ud).
"	15	Up	iP	18 56 23.8	"	16	Um iP 06 10 26.5
		Um	iP	18 57 12.5			Atlantic Ocean (h = N).
			i	18 57 22.0			
		Ud	iP	18 56 31.1			
"	15	Ki	i(P)	20 12 15.3	"	16	Ki iP 06 26 29.9
		Ud	i(P)	20 12 26.8			Um iP 06 26 40.1
							Mariana Islands (h = 50 km).
"	15	Up	iP	23 17 01.1	"	16	Ki iP 06 33 54.4
		Ki	iP	23 16 42.0			Um iP 06 34 05.2
		Sk	iP	23 17 08.9			Mariana Islands (h = 20 km).
		Um	iP	23 16 51.2			
		Ud	iP	23 17 10.0	"	16	Ud iPKP1 07 22 31.5
				Luzon (h = N).			De iPKP1 07 22 42.2
							Fiji Islands (h = 500 km).
"	15	Up	i(P)	23 36 22.5	"	16	Up iP 08 49 30.1
			i	23 36 46.8			
		Um	i(P)	23 34 03.2	"	16	Um iP 09 38 46.4
		Ud	i(P)	23 35 15.5			Ud iP 09 38 35.5
"	15	Up	iP	23 51 25.6	"	16	Up iP 09 52 28.4 C
		Ki	iP	23 51 23.0 C			ipP 09 52 42.7
		Sk	eP	23 51 46			iS 10 01 19
		Ud	iP	23 51 36.4			iP'P' 10 20 44.8
				Tadzhik-Sinkiang.			micr sec
				Origin time = 23 43 47.			P Z' 0.1 0.7
"	16	Up	eP	00 03 05			pP Z' 0.2 1.0
			i	00 03 11.5			Mx E 3.6 19
"	16	Up	iP	00 18 42.9			Mx N 4.3 20
		Ki	iP	00 18 44.3 C			Mx Z 6.8 20
					Ki	iP	09 51 35.2 C
						ipP	09 51 50.9
						iPcP	09 52 20.8
						iPP	09 53 49
						iScP	09 56 18.4
						eS	09 59 44
							micr sec
							P Z' 0.1 0.9
							Mx E 3.7 19
							Mx N 4.0 17
							Mx Z 4.2 18
		Sk	iP	00 19 04.7	Sk	iP	09 52 09.3 C
			iPP	00 20 46.8		ipP	09 52 23.7
						iPcP	09 52 40.7
		Um	iP	00 18 36.6 C	Um	iP	09 52 01.6
			iPP	00 20 09.9		ipP	09 52 15.5
						iPcP	09 52 37.1
		Ud	iP	00 18 58.4 C		iS	10 00 35
			iPP	00 20 36.5		i(P'P')	10 20 38.8
						iP'P'	10 20 55.0
		De	iP	00 18 57.3 C	Ud	iP	09 52 28.6 C
				Tadzhik-Sinkiang (h = 50 km).			(cont.)
"	16	Up	iP	01 58 29.5			
			ipP	01 58 41.1			
		Ki	iP	01 57 41.9			
		Um	iP	01 58 04.1			
			ipP	01 58 18.3			
		Ud	iP	01 58 34.9			
				(cont.)			

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

1974				1974					
Aug.	16	(cont.)		Aug.	17	Ki	iP	03 30 45.9	
		Ud	ipP			Um	iP	03 30 38.1	
			iPcP			Ud	iP	03 31 00.0	
		De	iP			Tadzhik-Sinkiang (h = N).			
			ipP						
		Aleutian Islands.			"	17	Up	iP	04 00 11.7
		h = 55 km (Up,Ki,Sk,Um,Ud, De).					Ki	iP	03 59 19.7
		m = 5.9, M = 5.8 (Up,Ki).					Sk	iP	03 59 59.1
		The appearance of clear ScP, especially on Ki Z', from earthquakes in this epicentral region is noteworthy; cf Aug. 13 at 03 57 and Aug. 14 at 05 45.					Um	iP	03 59 43.6
							Okhotsk Sea (h = 3 km).		
"	16	Up	i(P)	11 51 14.9	"	17	Ud	iP	05 19 47.7
			i	11 51 35.0	"	17	Up	iP	05 23 02.3 C
		Ud	iP	11 51 06.3				i	05 23 07.2
"	16	Ud	iP	12 21 47.4				iPcP	05 23 53.6
		Panama (h = 35 km).							micr sec
"	16	Ki	iP	13 23 29.3			P	Z'	0.1 1.0
		Sk	iP	13 24 02.6			Mx	E	0.4 11
		Um	iP	13 23 44.7			Mx	N	0.6 14
			ipP	13 24 01.6			Mx	Z	0.5 15
		Ud	iP	13 24 13.0		Ki	iP		05 22 09.8 C
			ipP	13 24 27.9			i		05 22 14.4
		De	iP	13 24 25.9					micr sec
		Japan.					P	Z'	0.1 1.2
		h = 60 km (Um,Ud).					Mx	E	0.7 16
"	16	Ki	iP	16 31 40.9			Mx	N	0.9 15
		Sk	iP	16 31 57.1			Mx	Z	1.1 15
		Ud	iP	16 32 27.7 C		Sk	iP		05 22 49.7
"	16	Ki	iSKP1	17 18 40.5			i		05 22 54.9
		De	iPKP1	17 16 14.7		Um	iP		05 22 33.8 C
		Fiji Islands (h = 440 km).					i		05 22 38.7
"	16	Ud	iP	18 06 50.1			iPcP		05 23 38.2
"	16	Up	iP	19 56 57.2		Ud	iP		05 23 08.4 C
			ipP	19 57 23.9			i		05 23 40.7
		✓Ki	iP	19 56 36.7 C		De	iP		05 23 28.9
				micr sec			i		05 23 33.5
			P	Z'		Okhotsk Sea (h = 1 km).			
				0.1 1.0		m = 5.7, M = 5.0 (Up,Ki).			
		Sk	iP	19 57 02.1		Double P, average separation 4.8 sec.			
		Um	iP	19 56 43.9	"	17	Ud	iP	15 19 02.9
			ipP	19 57 12.0	"	17	Ki	iP	16 31 38.4
		Ud	iP	19 57 02.0 C			Um	iP	16 31 44.4
		De	iP	19 57 09.9			Ud	iP	16 32 01.4
		Mindanao.					Molucca Passage (h = N).		
		h = 110 km (Up,Um).			"	17	Um	iP	19 14 43.9
"	16	Ki	iP	22 26 42.9			Japan.		
"	17	Ki	iP	22 32 17.4	"	17	Ud	iP	21 05 56.1
		Ud	iP	22 32 39.9			Aleutian Islands (h = 55 km).		
		Molucca Passage (h = 120 km).			"	17	Ki	iP	22 32 17.4
							Ud	iP	22 32 39.9

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

1974				1974							
Aug.	17	Up	iP	23 16 39.1	Aug.	18	(cont.)				
		Ki	iP	23 17 15.4			Sk	i(PKP)	11 03 04.3		
		Ud	iP	23 16 53.9				iPKP	11 03 12.2		
		De	iP	23 16 39.6				i(PP)	11 04 29.2		
		Iran.					Um	iP	10 59 49 C		
								iPKP	11 03 08.9		
"	17	Up	i(P)	23 58 41.4				iPP	11 04 57		
				micr sec			Ud	iPKP	11 02 59.8		
		Mx	E	0.7 13				i	11 03 37.7		
		Mx	N	1.5 17				iPP	11 04 31.0		
		Mx	Z	1.5 16				iPKKP1	11 13 05.8		
		Ki	iP	23 58 38.2			De	iPKP	11 03 02.4		
				micr sec				iPP	11 04 30.9		
		P	Z'	0.1 0.9			Chile (h = 35 km).				
		Mx	E	0.9 15			M = 7.4 (Up,Ki).				
		Mx	N	1.4 14			PP exhibits unusually long periods on the SP records, around 4-5 sec.				
		Mx	Z	1.2 14							
		Sk	eP	23 58 58							
			i	23 59 04.1			"	18	Up	iP	11 26 34.3
		Um	iP	23 58 29.4			"	18	Up	iP	12 02 42.8
			i	23 58 36.5					Um	iP	12 02 49.9
		Ud	iP	23 58 51.7			"	18	Ud	iPKP1	12 08 35.2 C
			i	23 58 59.9			"	18	Ki	iP	12 12 06.2
		De	eP	23 58 50			Mexico (h = 50 km).				
		Tadzhik-Sinkiang (h = 30 km).					"	18	Up	iP	12 14 13.1
		M = 4.9 (Up,Ki).					"	18	Up	iP	12 21 07.7
		Double P, of which Up (P) corresponds to the latter onset.					"	18	Up	iP	12 34 27.9
"	18	Ki	iP	03 06 37.3					i	12 34 43.8	
		Ud	iP	03 06 52.2			"	18	Um	iP	13 36 39.6
		Tadzhik-Sinkiang.					"	18	Um	iP	14 03 46.6
		Origin time = 02 58 59.					"	18	Up	iP	14 19 24.0 C
"	18	Ud	iP	08 37 56.7					i	14 19 40.4	
"	18	Um	iP	10 52 18.9 C					micr sec		
		Japan (h = 130 km).							P	Z' 0.1 1.5	
"	18	Up	eP	10 59 37				Um	iP	14 19 21.6	
			iPKP	11 03 07.8			"	18	Up	iP	16 10 55.1
			iPP	11 04 42.6					i	16 10 46.8	
				micr sec					micr sec		
		PKP	Z'	0.2 1.4					P	Z' 0.1 1.5	
		Mx	E	50 20					Um	iP	14 19 21.6
		Mx	N	35 20			"	18	Ki	iP	16 10 55.1
		Mx	Z	110 19					micr sec		
		Ki	e(PKP)	11 03 10					Mx	N 0.5 13	
			iPKP	11 03 15.3					Um	iP	16 10 46.8
			iPP	11 05 03					Ud	iP	16 11 09.8
				micr sec					De	iP	16 11 08.0
		PKP	Z'	0.9 2.5				Tadzhik-Sinkiang (h = 20 km).			
		Mx	E	63 21			"	18	Up	iP	17 27 31.6
		Mx	N	43 19					Ki	iP	17 26 40.3
		Mx	Z	50 22				(cont.)			
		(cont.)									

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

1974									1974									
Aug.	18	(cont.)							Aug.	19	(cont.)							
		Um	iP	17	27	07.0					Sk	eP	12	29	11			
			i	17	27	25.0						i	12	29	12.6			
		Ud	iP	17	27	34.1					Um	iP	12	28	54.9			
		Aleutian Islands (h = N).									Ud	iP	12	29	23.0			
			i	12	29	28.5						i	12	29	28.5			
"	18	Up	iPKP	18	13	02.5					De	iP	12	29	37.1			
		Ki	iPKP	18	12	48.7					Japan (h = 25 km).							
		Sk	iPKP	18	13	00.3					m = 6.0, M = 5.3 (Up,Ki).							
		Um	iPKP	18	12	55.0				"	19	Ki	iP	16	14	48.2		
		Ud	iPKP	18	13	04.5						Sk	iP	16	15	18.3		
		De	iPKP	18	13	11.3						Um	iP	16	15	03.7		
		New Hebrides Islands											i	16	15	14.0		
		(h = 180 km).										Ud	iP	16	15	32.6		
"	18	Up	iP	18	17	28.7						Japan (h = 25 km).						
		Ud	iP	18	17	41.2				"	19	Up	iP1	17	51	14.1		
		Iran (h = N).											iP2	17	51	21.3		
"	18	Up	Mx	21	10							Ki	eP1	17	50	38		
						micr	sec						iP2	17	50	43.3		
			Mx	E	0.8	20						Sk	iP1	17	51	10.7		
			Mx	Z	0.8	19						Um	iP1	17	50	53.5		
		Chile (h = 30 km).											iP2	17	50	58.1		
"	18	Ud	iP	21	19	08.1						Ud	iP1	17	51	20.8		
"	18	Ud	iP	22	36	26.5							iP2	17	51	27.9		
"	18	Ki	iPKP	23	26	55.7						De	iP2	17	51	40.8		
		Ud	iPKP	23	26	42.5						Japan (h = 40 km).						
		Chile (h = 20 km).										Double P, denoted P1 and P2.						
"	19	Up	iPKP1	00	25	35.5				"	19	Up	iPg1	19	52	57.8		
		Ud	iPKP1	00	25	39.3							iS*	19	54	14.7		
"	19	Ud	iP	01	22	54.2							iSg1	19	54	21.4		
"	19	Ki	iP	01	31	33.2						Sk	i	19	52	56.8		
		Ud	iP	01	31	47.2							iSg1	19	53	36.4		
		Tadzhik-Sinkiang.										Um	iSn	19	54	27.6		
		Origin time = 01 23 55.											i	19	54	51.2		
"	19	Up	iP	12	29	15.6							iS*	19	55	10.2		
			i	12	29	32.9							iSg1	19	55	14.5		
						micr	sec					Ud	iPn	19	52	04.8		
			P	Z'	0.2	1.2							iPg1	19	52	17.4		
			Mx	E	0.8	20							iSn	19	52	54.4		
			Mx	N	0.5	15							iSg1	19	53	13.9		
			Mx	Z	0.6	16						De	iSn	19	53	26.2		
		Ki	iP	12	28	39.2							iSg1	19	53	56.4		
						micr	sec					West coast of Norway,						
			P	Z'	0.1	1.0						60.0°N, 5.0°E.						
			Mx	E	1.2	18						Origin time = 19 51 00.						
			Mx	N	1.0	16						By combination with Bergen						
			Mx	Z	0.9	17						and Kongsberg readings.						
		(cont.)								"	19	Up	iS*	19	57	11.7		
													i(Sg1)	19	57	25.4		
												Sk	iSg1	19	56	31.1		
												Um	iSg1	19	58	10.5		
												Ud	iSg1	19	56	08.5		
		(cont.)										(cont.)						

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

1974

Aug. 19 (cont.)
De iSgl 19 56 48.4
West coast of Norway,
60.0°N, 5.0°E.
Origin time = 19 53 56.
By combination with
Bergen readings.

" 19 Up iP 20 07 26.3
iPP 20 10 53.6
Ki iP 20 07 18.3
ipP 20 07 29.2
micr sec
Mx E 0.4 14
Mx N 0.5 17
Sk iP 20 07 10.6
iPP 20 10 24.3
Um iP 20 07 25.6
ipP 20 07 37.5
iPP 20 10 48.9
iS 20 17 52
Ud iP 20 07 17.0
De iP 20 07 22.9
ipP 20 07 34.1
Off Pacific coast of
Central America.
h = 40 km (Ki,Um,De).

" 19 Up iP 22 03 00.8
Ki iP 22 02 14.7
Sk iP 22 02 51.3
Um iP 22 02 36.1
Ud iP 22 03 07.3
Kurile Islands (h = N).

" 19 Up iP 23 44 33.2
Ki iP 23 44 35.7
Sk iP 23 44 56.9
Um iP 23 44 28.2
Ud iP 23 44 49.3
De iP 23 44 45.8
Tadzhik-Sinkiang (h = N).

" 20 Up iP 00 17 30.0
Ki iP 00 17 32.4
i 00 17 38.3

" 20 Ki iP 03 08 55.5
Um iP 03 09 33.1
Ud eP 03 09 49
i 03 10 06.3

" 20 Up iP 04 51 34.7
Ki iP 04 50 58.5
micr sec
Mx E 0.8 18
Mx N 0.5 14
(cont.)

1974

Aug. 20 (cont.)
Sk iP 04 51 30.9
Um iP 04 51 14.0
Ud iP 04 51 41.0
De iP 04 51 55.8
Japan (h = 30 km).

" 20 Sk iP 05 03 30.3
Um iP 05 03 42.1

" 20 Ki iP 06 43 05.2
Ud iP 06 43 40.4
i 06 43 48.1
Formosa (h = 70 km).

" 20 Ud i(Sgl) 07 48 00.8

" 20 Up iP 08 07 10.5
Ki eP 08 06 31
Um iP 08 06 49.8
Ud iP 08 07 14.2
Japan (h = 10 km).

" 20 Um iP 08 34 46.6
Ud iP 08 35 19.4
Japan (h = 140 km).

" 20 Ki iP 10 26 19.4
Sk iP 10 26 42.6
Ud iP 10 26 32.5
De iP 10 26 31.6
Tadzhik-Sinkiang (h = N).

" 20 Up iP 14 25 49.5
Ud iP 14 25 49.5
Greece.

" 20 Ud iP 15 01 55.5

" 20 Ki iP 15 22 13.0
micr sec
Mx N 0.5 13
Um iP 15 22 08.3
Ud iP 15 22 27.4
De iP 15 22 25.9
Tadzhik-Sinkiang (h = 50 km).

" 20 Ud iP 15 41 41.2

" 20 Ki iP 16 50 03.4
Sk iP 16 50 24.2
Ud iP 16 50 14.3
De iP 16 50 13.7
Tadzhik-Sinkiang (h = N).

" 20 Ki iP 17 40 37.3
Um iP 17 40 30.3
(cont.)

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

1974				1974				
Aug.	20	(cont.)		Aug.	21	Um	iP	01 08 23.0
		Ud	iP			Ud	iP	01 08 52.5
		De	iP					
		Tadzhik-Sinkiang (h = N).		"	21	Um	iP	03 53 58.7 C
"	20	Ki	iP			Ud	iP	03 54 27.9
		Um	iP			De	iP	03 54 43.4
		Ud	iP			Japan (h = 390 km).		
		Caroline Islands (h = 6 km).		"	21	Ki	i(P)	07 59 56.8
"	20	Ki	iP			Ud	i(P)	08 00 17.7
		Um	iP	"	21	Up	iP	08 44 41.8
"	20	✓ Up	iP			Ud	iP	08 44 46.8
			ipP			Greece.		
				"	21	Ud	iP	08 58 46.0
			micr sec			Greece.		
		P	Z'	"	21	Up	iP	09 58 44.5
		Mx	E			Ud	iP	09 58 48.0
		Mx	N			Greece.		
		Mx	Z	"	21	Sk	iP	12 45 31.4
		Ki	iP			Ud	iP	12 44 55.0
			ipP			Greece.		
				"	21	Up	iP	13 07 43.1
			micr sec			Sk	iP	13 08 23.7
		P	Z'				i	13 08 27.1
		Mx	E			Ud	iP	13 07 51.2
		Mx	N				i	13 07 55.4
		Mx	Z			De	i(P)	13 07 22.2
		Sk	iP			Ionian Sea (h = N).		
		Um	iP	"	21	Ud	iP	14 31 20.3
			iS					
		Ud	iP	"	21	Ud	iP	15 11 38.9 C
		De	iP			De	iP	15 11 08.1
		Aleutian Islands.		"	21	Ud	i(P)	16 17 03.0
		h = 50 km (Up,Ki).						
		m = 6.7, M = 5.4 (Up,Ki).		"	21	Up	iP	18 16 05.4
"	20	Ud	ipP			Ki	iP	18 16 06.7 C
		Chile-Argentina (h = 90 km).				Sk	iP	18 16 27.9
"	20	Up	iP			Um	iP	18 15 59.6
		Ki	iP			Ud	iP	18 16 21.3
		Sk	iP				i	18 16 23.4
		Um	iP			De	iP	18 16 20.3
			i				i	18 16 22.7
		Ud	iP			Tadzhik-Sinkiang (h = N).		
			i	"	21	Up	iP	18 52 51.8
		De	iP				i	18 52 54.1
		Greece (h = 50 km).				Ki	iP	18 52 54.8
"	20	Ki	iP				i	18 52 57.1
		Um	iP			(cont.)		
		Ud	iP					
		De	iP					
		Tadzhik-Sinkiang.						
		Origin time = 23 51 40.						

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

1974				1974			
Aug.	21	(cont.)		Aug.	22		
		Ki	micr sec		Sk	iSgl	15 48 21.1
		P	Z' 0.1 0.6		Ud	iSgl	15 48 02.1
		Sk	eP 18 53 15		West coast of Norway, near Bergen.		
			i 18 53 18.4	"	22	De	iP 18 04 48.2
		Um	iP 18 52 45.5	"	22	Up	iP 21 16 32.6
			i 18 52 49.0		Ud	iP	21 16 17.8
			iPP 18 54 20.0	"	22	De	iP 21 35 06.1
		Ud	iP 18 53 08.7	"	22	De	iP 21 50 33.1
			i 18 53 10.8	"	22	De	iP 21 50 33.1
		De	iP 18 53 07.9	"	23	Up	iP 04 10 39.8
			i 18 53 09.7				micr sec
			iPP 18 54 49.4				Mx E 0.7 14
		Tadzhik-Sinkiang (h = N). Double P.					Mx N 0.7 19
"	21	Up	iP 21 26 01.4				Mx Z 1.1 17
		Ud	iP 21 26 12.5		Ki	iP	04 10 13.3
		De	iP 21 26 17.9				micr sec
		Molucca Passage (h = 45 km).					Mx E 0.6 11
"	21	Um	iP 21 45 17.5				Mx N 0.5 13
"	22	Ud	iP 01 30 33.6				Mx Z 0.8 12
		Greece.			Ud	iP	04 10 49.0
"	22	Ud	iP 06 18 28.6		De	eP	04 11 00
		De	iP 06 18 25.9		Formosa (h = N). M = 5.3 (Up,Ki).		
		Sumatra (h = N).		"	23	Up	i(PP) 05 08 02.2
"	22	Ki	iP 07 13 21.3			iPKP	05 08 45.3
		Ud	iP 07 13 30.3			iPP	05 09 03.8
		Tadzhik-Sinkiang.					micr sec
"	22	Ki	iP 09 24 25.4 C			PP	Z' 0.1 1.1
		Ud	iP 09 24 39.6			Mx	E 1.0 17
		De	iP 09 24 38.6			Mx	N 0.9 17
		Tadzhik-Sinkiang (h = N).				Mx	Z 1.7 18
"	22	Ki	iPKP 12 07 10.2		Ki	iP	05 04 18.5
		Sk	iPKP 12 07 30.6			i(PP)	05 07 41.2
		Ud	iPKP1 12 07 29.7			iPP	05 08 37.4
			i 12 07 39.4			iSKS	05 14 41
		De	iPKP1 12 07 41.1 D				micr sec
		Fiji Islands (h = 580 km).				P	Z' 0.1 1.2
"	22	Ud	iP 15 31 01.5			Mx	E 1.8 18
		De	i(P) 15 31 51.8			Mx	N 2.5 20
"	22	Up	iP 15 34 13.1			Mx	Z 1.4 17
		Ki	iP 15 34 20.9		Sk	iP	05 04 38.7
		Sk	iP 15 34 39.0			i(PP)	05 08 22.5
		Um	iP 15 34 11.0			iPKP	05 08 48.5
		Ud	iP 15 34 29.8			iPP	05 09 15.5
		De	iP 15 34 25.0		Um	iP	05 04 24.8
		Afghanistan-USSR (h = 110 km).				i(PP)	05 07 41.1
						iPP	05 08 41.8
					Ud	iP	05 04 40.8
						e(PP)	05 07 58
						iPKP	05 08 47.9

(cont.)

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

1974

Aug. 23 (cont.)
 Ud iPP 05 09 18.9
 De iP 05 04 47.0
 iPKP 05 08 50.8
 iPP 05 09 23.0
 Banda Sea (h = 140 km).
 m = 6.3, M = 5.8 (Up,Ki).
 M uncorrected for focal
 depth.

" 23 Ki iP 06 00 00.6
 Ud iP 06 00 14.8
 De iP 06 00 13.2
 Tadzhik-Sinkiang.
 Origin time = 05 52 23.

" 23 Sk iSgl 06 04 49.1
 Ud iSgl 06 04 29.8
 De iSgl 06 05 06.6
 West coast of Norway,
 near 60.0°N, 5.0°E.
 Origin time = 06 02 14.
 By combination with
 Bergen readings.

" 23 Up iP 06 47 12.5
 Um iP 06 46 52.4
 Ud iP 06 47 19.7
 Japan (h = 320 km).

" 23 Ki iP 08 25 54.5
 Sk iP 08 26 29.8
 Um iP 08 26 13.0
 Ud iP 08 26 44.0 C
 De iP 08 27 00.0
 Japan (h = 170 km).

" 23 Ud iP 08 46 48.2
 Japan.

" 23 Up iP 09 00 38.4
 Ki iP 09 00 40.0
 Sk iP 09 00 28.7
 Ud iP 09 00 27.8
 De iP 09 00 29.1
 Colombia (h = 160 km).

" 23 Up iP 09 06 50.9
 Sk iP 09 06 26.7
 Um iP 09 06 43.6
 Ud iP 09 06 47.0

" 23 Ud iP 12 30 15.2

" 23 Up iP 13 09 43.9
 Ki iP 13 08 54.1
 Ud iP 13 09 48.9

Kurile Islands.

1974

Aug. 23 Up iSgl 13 52 21.3
 Sk eSgl 13 52 15
 Ud iPgl 13 50 54.9
 i 13 51 15.4
 iSgl 13 51 18.7
 De i(Sn) 13 52 15.4
 iSgl 13 52 42.4
 South Norway,
 near 60.2°N, 10.2°E.
 Origin time = 13 50 24.

" 23 De e 15 46 56
 i(Rg) 15 47 01.0

" 23 Up iP 16 34 07.4
 i(PP) 16 35 45.7
 Ki iP 16 34 07.8
 Sk eP 16 34 28
 Um iP 16 34 00.8
 Ud iP 16 34 21.7 C
 iPP 16 36 01.5
 De iP 16 34 20.8
 Tadzhik-Sinkiang (h = N).

" 23 Up ePKP1 17 54 24
 Sk ePKP1 17 54 16
 Um iPKP1 17 54 08.0 C
 Ud iPKP1 17 54 26.4
 De iPKP1 17 54 38.6

" 23 Up i(P) 18 55 55.1
 Um i(P) 18 56 43.0

" 24 Um iP 00 07 01.6
 Ud iP 00 06 46.7
 Haiti-Puerto Rico (h = N)

" 24^v Up iP 03 00 14.2 C
 micr sec

P Z' 0.1 1.0
 Ki iP 03 00 15.5 C
 ipP 03 00 37.5

micr sec
 P Z' 0.2 1.3

Sk iP 03 00 01.6 C
 ipP 03 00 26.0

Um iP 03 00 17.7 C
 ipP 03 00 41.2

Ud iP 03 00 04.6 C
 ipP 03 00 28.7

De iP 03 00 06.7 C
 ipP 03 00 31.1

Colombia.
 h = 90 km (Ki,Sk,Um,Ud,De).
 m = 6.0 (Up,Ki).

" 24 Up iP 03 22 05.2

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

1974				1974			
Aug.	24	(cont.)		Aug.	24		
		Um	iPKP 14 19 45.9			Up	iP 22 13 37.3
			iSKP1 14 22 07.9			Ki	micr sec
		Ud	iPKP 14 19 56.1				Mx E 0.9 15
			iSKP1 14 22 24.3				Mx N 0.6 14
		De	iPKP 14 20 02.3				Mx Z 0.7 15
			iSKP1 14 22 34.2			Sk	eP 22 14 13
		New Hebrides Islands				Um	iP 22 14 16.1
		(h = 630 km).				Ud	iP 22 13 39.9
							iPP 22 14 05.4
"	24	Ki	iP 14 34 28.5			Ionian Sea (h = 10 km).	
		Um	iP 14 34 53.9	"	24	Ki	iP 22 15 39.2
		Ud	iP 14 35 21.1			Um	iP 22 15 44.5
		Aleutian Islands (h = 40 km).					
"	24	Ud	iP 16 00 39.9	"	24	Up	iP 22 29 51.6 C
							iPcP 22 30 18.1
							micr sec
"	24	Up	iP 16 52 10.7				P Z' 0.1 1.0
		Um	iP 16 52 24.8			Ki	iP 22 28 58.2 C
		Ud	iP 16 51 53.6				micr sec
		De	iP 16 51 53.9				P Z' 0.2 0.9
		North Atlantic Ocean (h = N).				Sk	iP 22 29 28.3 C
"	24	Ud	iP 17 51 29.3			Um	iP 22 29 25.2 C
		De	eP 17 51 28				iPcP 22 29 57.0
		Tadzhik-Sinkiang.				Ud	iP 22 29 50.7 C
		Origin time = 17 43 37.					ipP 22 30 02.0
"	24	Ud	iP 18 27 48.4			De	iP 22 30 13.3 C
		Aleutian Islands (h = 70 km).					i 22 30 37.8
"	24	Up	iP 18 29 07.5			Aleutian Islands.	
		Ki	iP 18 28 58.5			h = 40 km (Ud).	
			i 18 29 03.7			m = 6.0 (Up,Ki).	
		Sk	iP 18 29 21.8	"	24	Up	iP 22 32 15.9
			i 18 29 27.1			Sk	iP 22 32 53.0
		Um	iP 18 28 58.3 C			Ud	iP 22 32 19.7
			i 18 29 03.7			Greece.	
		Ud	iP 18 29 20.1 C	"	25	Up	iSgl 00 14 42.5
			i 18 29 30.9			Sk	iSgl 00 13 27.9
		De	iP 18 29 26.0			Um	iSgl 00 15 16.5
		Burma (h = N).				Ud	iSgl 00 13 40.0
"	24	De	ePKP1 18 51 52			De	iSgl 00 14 47.7
			i 18 52 03.6			Off west coast of Norway,	
		Tonga Islands (h = N).				61.3°N, 4.4°E.	
"	24	Um	iPKP 19 07 17.5			Origin time = 00 11 14.	
		Chile-Argentina (h = 110 km).				By combination with Bergen	
"	24	Up	iPKK1 19 27 44			readings.	
		Um	iPKP 19 17 03.9	"	25	Ud	iPKP1 00 36 57.7
			ePKK1 19 27 33	"	25	Ki	iP 01 23 10.6
		Ud	iPKP 19 16 55.5			Um	iP 01 23 37.2
			iPKK1 19 27 45.3			Ud	iP 01 24 02.0
		De	i(PP) 19 16 44.4			Aleutian Islands (h = 60 km).	
		Argentina (h = 30 km).		"	25	Up	iP 01 30 34.6 D
						(cont.)	

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

1974

Aug. 25 (cont.)
 Ud iP 08 19 36.0
 De eP 08 19 01
 " 25 Ud iP 08 24 36.9
 De eP 08 24 07
 " 25 Up iP 09 33 29.1
 Um iP 09 33 01.8
 Ud iP 09 33 26.8
 De iP 09 33 49.4
 Aleutian Islands (h = N).
 " 25 Up iP 10 07 01.2
 ipP 10 07 12.6
 micr sec
 P Z' 0.1 1.1
 Ki iP 10 06 25.6
 ipP 10 06 37.3
 micr sec
 Mx E 0.5 16
 Mx N 0.4 15
 Mx Z 0.5 15
 Um iP 10 06 41.0
 ipP 10 06 53.3
 Ud iP 10 07 08.3
 ipP 10 07 20.8
 De epP 10 07 34
 South of Japan.
 h = 45 km (Up,Ki,Um,Ud).
 " 25 Up eP 10 25 13
 Ki iP 10 24 36.8
 Sk epP 10 25 21
 Um iP 10 24 51.6
 ipP 10 25 02.9
 Ud iP 10 25 18.8
 ipP 10 25 30.0
 South of Japan.
 h = 40 km (Um,Ud).
 " 25 Up ipP 10 39 48.2
 Ki ipP 10 39 13.0
 Um iP 10 39 17.7
 ipP 10 39 28.7
 i 10 39 40.4
 Ud iP 10 39 45.0
 South of Japan.
 h = 40 km (Um).
 " 25 Um iP 10 52 49.2
 Ud iP 10 53 16.9
 South of Japan.
 Origin time = 10 41 15.
 " 25 Up iP 11 26 06.9
 (cont.)

1974

Aug. 25 (cont.)
 Up ipP 11 26 17.0
 Um iP 11 25 45.7
 ipP 11 25 57.6
 Ud iP 11 26 11.8
 Japan.
 h = 40 km (Up,Um).
 " 25 Up iPKP 12 10 23.4
 Ud ePKP 12 10 24
 De iPKP 12 10 32.9
 Fiji Islands (h = 400 km).
 " 25 Um iP 13 27 16.3
 Panama-Colombia (h = N).
 " 25 Up iP 13 36 12.8
 Sk iP 13 36 52.2
 Um iP 13 36 52.5
 i 13 37 03.6
 Ud iP 13 36 19.1 C
 Greece (h = N).
 " 25 Up iPKP1 14 53 11.7
 ipPKP1 14 55 18.7
 iSKP1 14 56 03.7
 Ki iPKP 14 53 01.1
 ipPKP 14 55 07.3
 iSKP1 14 55 41.8
 micr sec
 SKP1 Z' 0.3 1.6
 Sk iPKP 14 53 09.6
 epPKP 14 55 13
 iSKP1 14 55 57.6
 Um i(PKP) 14 53 02.3
 iPKP 14 53 09.4
 ipPKP 14 55 11.9
 iSKP1 14 55 52.8
 Ud iPKP1 14 53 13.4
 ipPKP1 14 55 19.3
 iSKP1 14 56 05.2
 De iPKP1 14 53 23.7
 i 14 53 41.4
 i 14 55 26.7
 ipPKP1 14 55 30.9
 iSKP1 14 56 13.7
 Tonga-Kermadec Islands.
 h = 550 km (Up,Ki,Sk,Um,Ud,De).
 " 25 Up iPKP1 16 47 39.3
 Ud iPKP1 16 47 40.9
 De iPKP1 16 47 49.9
 " 25 Ud iPKP1 16 57 27.8
 " 25 Ki iP 17 09 36.7
 (cont.)

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

1974				1974				
Aug.	25	(cont.)		Aug.	26	Up	iP	14 44 20.0
		Um	iP				i	14 44 56.3
		Ud	iP			Ki	iP	14 43 46.6
		De	iP				i	14 44 17.0
		Aleutian Islands (h = 50 km).				Sk	iP	14 44 12.6
						Um	iP	14 44 00.0 C
"	25	Um	i(P)				ipP	14 44 11.9
		Ud	i(P)			Ud	iP	14 44 26.7
			i			De	eP	14 44 39
						South of Japan. h = 45 km (Um).		
"	25	Ki	iP		26	De	iP	15 15 34.2
		Sk	eP					
		Um	i(P)		26	Up	iP	15 27 08.0
		Ud	e(P)			Ki	iP	15 26 51.3 C
			iP			Ud	iP	15 27 15.5
		De	iP			Mindanao (h = 90 km).		
		Tadzhik-Sinkiang (h = N).						
"	25	Up	iP		26	Ud	iPKP1	16 25 47.4
		Ki	eP			De	iPKP1	16 25 58.4
		Sk	iP					
		Um	iP		26	Ud	iP	18 03 46.9
		Ud	iP			De	iP	18 04 02.0
		De	iP			Japan (h = 45 km).		
		Ionian Sea (h = N).						
"	25	Ud	iP		26	Up	eP	18 15 16
		De	iP				i	18 15 34.0
		Tadzhik-Sinkiang.				Ki	iP	18 16 26.2
		Origin time = 20 44 40.				Sk	eP	18 16 01
"	25	Ud	iP				i	18 16 11.9
		Hindu Kush (h = 330 km).				Um	i	18 16 14.9
"	26	Ki	iP			Ud	iP	18 15 21.1
		Um	iP				i	18 15 28.6
						De	iP	18 14 47.2
							i	18 15 00.6
						Crete (h = N).		
"	26	Up	iP			Probably multiple event.		
		Ki	iP		27	Up	iP	05 51 09.6
		Ud	iP			Ki	iP	05 51 12.2
		Sinkiang, China (h = N).					i	05 51 14.3
"	26	Ud	iP			Sk	iP	05 51 32.3
							i	05 51 35.0
"	26	Up	iP			Um	iP	05 51 04.4
		Ki	iP				i	05 51 06.8
		Sk	iP			Ud	iP	05 51 26.2
		Um	iP				i	05 51 28.5
		Ud	iP			De	iP	05 51 25.0
		De	iP			Tadzhik-Sinkiang (h = N).		
		Mexico-Guatemala (h = N).				Double P, average separation 2.4 sec.		
"	26	Sk	iP		27	Up	iPKP	06 43 00.3
		Ud	iP			Ki	iPKP	06 43 08.0 C
		Aegean Sea (h = 40 km).				Um	iPKP	06 43 05.4
"	26	Ud	i(P)				i	06 43 12.2

(cont.)

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

1974

Aug. 27	(cont.)				
	Ud	iPKP	06 42	56.9	
	De	ePKP	06 42	51	
	Chile (h = 25 km).				
" 27	Up	iP	08 21	03.6	
	Ki	iP	08 21	02.3	
	Sk	iP	08 21	16.6	
	Um	iP	08 21	00.2	
		ipP	08 21	28.9	
	Ud	eP	08 21	13	
	Sumatra. h = 110 km (Um).				
" 27	Ud	i(SKPl)	11 23	23.7	
" 27	Ud	iP	11 54	18.0	
" 27	Up	iP	12 46	42.6	
	Ud	iP	12 46	59.3	
" 27	Ud	i(P)	12 52	23.6	
" 27	Up	iP	13 03	34.7 D	
		iPP	13 05	06.5	
			micr	sec	
	P	Z'	0.7	1.3	
	PP	Z'	0.2	1.0	
	Mx	E	8.9	12	
	Mx	N	12	17	
	Mx	Z	25	13	
	Ki	iP	13 03	38.3 D	
		iPP	13 05	13	
			micr	sec	
	P	Z'	0.7	0.9	
	Mx	E	29	15	
	Mx	N	18	11	
	Mx	Z	25	14	
	Sk	iP	13 03	58.9 D	
		i(PP)	13 05	34.5	
		iPP	13 05	40.5	
	Um	iP	13 03	30.8 D	
		iPP	13 05	03.3	
		iS	13 09	27	
	Ud	iP	13 03	52.9 D	
		iPP	13 05	34.1	
	De	iP	13 03	51.5 D	
		iPP	13 05	33.1	
	Tadzhik-Sinkiang (h = N). m = 6.2, M = 6.2 (Up,Ki).				
" 27	Ki	iP	13 23	25.4	
	Ud	iP	13 23	41.5	
	Tadzhik-Sinkiang. Origin time = 13 15 48.				
" 27	De	iP	13 42	06.7	

1974

Aug. 27	Ki	iP	13 44	45.8	
	Sk	iP	13 45	07.5	
	Um	iP	13 44	39.9	
	Ud	iP	13 45	00.4	
		i	13 45	07.6	
	De	eP	13 44	59	
	Tadzhik-Sinkiang (h = N).				
" 27	Up	iP	14 32	20.8	
	Ki	iP	14 32	21.6	
	Sk	eP	14 32	42	
	Um	iP	14 32	13.5	
	Ud	iP	14 32	36.3	
	De	iP	14 32	34.7	
	Tadzhik-Sinkiang (h = N).				
" 27	Up	iP	14 58	42.0 C	
	Ki	eP	14 57	49	
	Ud	iP	14 58	42.8	
		i	14 58	58.2	
	Aleutian Islands.				
" 27	Ki	iPKP	15 14	51.1	
	Ud	iPKPl	15 15	13.8	
" 27	Ki	iPKP	15 39	12.1	
		iPP	15 40	11.7	
	Um	iPKP	15 39	10.1	
	Ud	iPKP	15 39	01.9	
	Argentina (h = 150 km).				
" 27	Up	iPKPl	15 48	13.6	
		ipPKPl	15 50	13.9	
	Ki	ePKPl	15 47	49	
		ipPKPl	15 49	58.7	
	Sk	iPKPl	15 48	00.9	
	Um	iPKPl	15 47	56.4	
		i	15 47	57.9	
		ipPKPl	15 50	03.5	
	Ud	iPKPl	15 48	09.5	
		i	15 48	16.3	
		ipPKPl	15 50	21.6	
	De	iPKPl	15 48	18.2	
		i	15 48	29.5	
	Kermadec Islands region. h = 570 km (Up,Ki,Um,Ud). Alternatively, <u>pPKPl could</u> instead be PKPl of another shock.				
" 27	Sk	iP	16 20	20.8	
	Ud	iP	16 20	15.0	
	De	iP	16 20	14.3	
	Tadzhik-Sinkiang. Origin time = 16 12 23.				
" 27	Up	iP	17 41	32.7	
	(cont.)				

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

1974

Aug.	27	(cont.)				
		Up	iPP	17 43	07.0	
				micr	sec	
		P	Z'	0.2	1.5	
		Mx	E	0.7	12	
		Mx	N	1.3	15	
		Mx	Z	1.2	15	
		Ki	iP	17 41	35.1 C	
			i	17 41	38.7	
				micr	sec	
		P	Z'	0.1	1.0	
		i	Z'	0.2	0.8	
		Mx	E	2.4	18	
		Mx	N	2.5	12	
		Mx	Z	1.2	14	
		Sk	iP	17 41	56.1	
			i	17 41	59.4	
			iPP	17 43	29.6	
		Um	iP	17 41	27.4	
			i	17 41	30.8	
			iPP	17 42	59.1	
		Ud	iP	17 41	49.3	
		De	iP	17 41	48.1	
			i	17 41	51.5	
			iPP	17 43	28.3	
		Tadzhik-Sinkiang (h = N).				
		m = 5.7, M = 5.1 (Up,Ki).				
		Double P, average separation				
		3.4 sec.				
"	27	Ki	iP	18 12	34.1	
			i	18 12	37.1	
		Ud	iP	18 12	48.3	
		De	eP	18 12	48	
		Tadzhik-Sinkiang.				
		Origin time = 18 04 56.				
"	27	Ud	iP	18 48	05.5	
"	27	Ki	iP	23 08	27.9	
		Ud	iP	23 08	41.8	
		Tadzhik-Sinkiang.				
		Origin time = 23 00 50.				
"	28	Up	iP	01 01	31.6 C	
		Ki	iP	01 00	52.5 C	
		Sk	iP	01 01	25.6 C	
		Um	iP	01 01	09.8	
		Ud	iP	01 01	38.3 C	
		De	iP	01 01	53.6	
		Japan (h = 50 km).				
"	28	Ud	iP	02 26	59.0	
"	28	Up	iPKP1	05 43	05.3	
			iPKP2	05 43	11.1	
		Ki	iPKP1	05 42	43.8	
		(cont.)				

1974

Aug.	28	(cont.)				
		Sk	iPKP1	05 42	57.0	
		Um	iPKP1	05 42	52.4	
			i	05 43	03.2	
			i	05 43	24.9	
		Ud	iPKP1	05 43	05.0 C	
			iPKP2	05 43	12.9	
		De	iPKP1	05 43	14.7	
		South of Kermadec Islands				
		(h = 100 km).				
"	28	Ud	iP	07 54	51.5	
		Vancouver Island (h = N).				
"	28	Ki	iP	09 29	42.9	
		Sk	iP	09 30	03.5	
		Um	iP	09 29	35.3	
		Ud	iP	09 29	56.9	
		De	iP	09 29	55.6	
		Tadzhik-Sinkiang (h = 55 km).				
"	28	Ud	iPKP	10 37	29.6	
		De	iPKP	10 37	36.1	
		Fiji Islands (h = 610 km).				
"	28	Ki	iP	14 51	51.1	
		De	i(P)	14 52	04.3	
			i	14 52	07.5	
"	28	Ud	iP	15 08	48.9	
"	28	Up	iSKP1	15 36	23.7	
		Ud	iSKP1	15 36	27.1	
		New Hebrides Islands				
		(h = 160 km).				
"	28	Ki	iP	17 12	36.4	
		Ud	iP	17 12	51.5	
		Tadzhik-Sinkiang (h = 50 km).				
"	28	Up	iP	18 53	34.3	
		Ki	iP	18 52	41.3	
				micr	sec	
		Mx	E	0.6	16	
		Mx	N	1.0	19	
		Mx	Z	1.1	19	
		Sk	iP	18 53	08.6	
		Um	iP	18 53	08.3	
			i	18 53	11.7	
		Ud	iP	18 53	31.2	
		De	iP	18 53	54.4	
		Gulf of Alaska (h = 4 km).				
"	28	Ud	iP	20 46	35.0	
"	28	Ud	iP	21 11	29.2	

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

1974

Aug. 28 Up iP 22 40 34.5
Ki iP 22 40 02.3
Sk iP 22 40 30.6
Um iP 22 40 16.0
Ud iP 22 40 41.1
De iP 22 40 53.0

South of Japan.

Origin time = 22 28 41.

" 28 Up eP 22 44 04
Ki iP 22 43 17.4
Um iP 22 43 50.8

" 29 Ki iP 01 07 47.3

" 29 Up iP 01 09 51.4 C
P Z' 0.1 0.8
Ki iP 01 10 00.0 C
P Z' 0.1 1.0
Sk iP 01 10 16.9 C
Um iP 01 09 49.6 C
Ud iP 01 10 07.9 C
De iP 01 10 04.2 C
iPP 01 11 50.5

Afghanistan-USSR

(h = 230 km).

m = 5.3 (Up,Ki).

" 29 Ki iP 01 53 47.9
Ud iP 01 54 02.3

Tadzhik-Sinkiang.

Origin time = 01 46 10.

" 29 Up iPKP1 03 09 50.8 C
ipPKP1 03 10 07.1
micr sec
PKP1 Z' 0.2 1.0
Mx N 0.9 24
Mx Z 0.8 24
Ki iPKP1 03 09 26.1
Sk iPKP1 03 09 43.0 C
Um iPKP1 03 09 41.4 C
Ud iPKP1 03 09 52.2 C
De iPKP1 03 10 01.5 C
ipPKP1 03 10 18.5

Kermadec Islands.

h = 60 km (Up,De).

" 29 Up iPKP1 03 16 04.4 C
Sk ePKP1 03 15 57
Um iPKP1 03 15 53.2
Ud iPKP1 03 16 06.1

Kermadec Islands.

Origin time = 02 56 28.

1974

Aug. 29 Ki iP 03 34 31.2
Sk eP 03 35 02
Um iP 03 34 58.4 D
Ud iP 03 35 23.6 D
De iP 03 35 46.4 D

Aleutian Islands.

Origin time = 03 24 26.

" 29 Sk iPKP 04 51 52.6
Tonga Islands (h = N).

" 29 Up iP 06 28 26.6
Ud iP 06 28 24.3

" 29 Up iP 06 51 07.4
Ki iP 06 50 15.1
Sk iP 06 50 48.0
Um iP 06 50 40.5
Ud iP 06 51 08.4
De iP 06 51 30.0
Aleutian Islands (h = N).

" 29 Up eP 07 53 17
Ud iP 07 53 45.1
Tadzhik-Sinkiang.

" 29 Ki iP 08 32 57.6
Sk iP 08 33 19.0
Ud iP 08 33 11.3
De iP 08 33 10.4
Tadzhik-Sinkiang (h = N).

" 29 Ki iP 08 43 38.7
Ud iP 08 44 43.1
De iP 08 45 10.3
Northern Siberia, near the
estuary of the River Lena.

" 29 Up iP 10 04 23.9 C
iS 10 08 00
i 10 10 41
micr sec
P Z' 2.2 0.7
Mx E 18 4
Mx N 18 8
Mx Z 25 8
Ki iP 10 02 53.3 C
iS 10 05 07
i(P'P') 10 39 32.9
micr sec
P Z' 2.7 0.7
Mx E 18 6
Mx N 18 6
Mx Z 17 6
Sk iP 10 04 02.2 C
iS 10 07 16.4

(cont.)

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

1974

Aug.	30	(cont.)				
		Ki	iP	15 11	14.2 C	
					micr sec	
			P	Z' 0.2	1.4	
		Sk	iP	15 11	22.6 C	
		Um	iP	15 11	34.0 C	
		Ud	iP	15 11	40.8 C	
		De	iP	15 11	57.0 C	
						Nevada.
						m = 6.2 (Up,Ki).
						Underground explosion.
"	30	Sk	iP	17 47	22.3	
		Ud	iP	17 46	55.3	
		De	iP	17 46	18.4	
						Yugoslavia (h = N).
"	30	Up	iP	18 26	09.8	
			ipP	18 26	23.0	
		Ki	iP	18 25	33.3	
			ipP	18 25	46.1	
		Sk	iP	18 26	04.9	
		Um	iP	18 25	49.8 C	
			ipP	18 26	02.8	
		Ud	iP	18 26	16.8 C	
			ipP	18 26	30.1	
						South of Japan.
						h = 50 km (Up,Ki,Um,Ud).
"	30	De	iPKP1	19 27	03.7	
						Fiji Islands (h = 590 km).
"	30	Up	iRg	19 39	49.8	
		Ud	iRg	19 39	33.8	
						Central Sweden.
"	30	Ud	i(P)	19 45	00.4	
"	30	Up	iP	20 13	08.3	
			ipP	20 13	35.8	
		Ki	iP	20 13	03.8 C	
		Sk	iP	20 13	24.3	
			ipP	20 13	53.2	
		Um	iP	20 13	01.4	
			ipP	20 13	28.3	
		Ud	iP	20 13	21.8	
			ipP	20 13	48.6	
		De	iP	20 13	23.3 C	
						Burma.
						h = 110 km (Up,Sk,Um,Ud).
"	30	Up	iP	20 13	30.9	
		Um	iP	20 13	18.3	
		De	iP	20 13	41.9	
						Celebes (h = 50 km).
"	30	Up	iRg	20 55	21.9	
						(cont.)

1974

Aug.	30	(cont.)				
		Ud	iRg	20 54	50.5	
						Central Sweden.
"	30	Up	iRg	21 16	09.6	
		Ud	eRg	21 15	46	
						Central Sweden, possibly Grängesberg aftershock.
"	30	Up	iP	23 41	26.6 C	
			ipP	23 41	38.4	
			iS	23 51	21	
						micr sec
			P	Z' 0.1	1.0	
			pP	Z' 0.2	1.0	
			Mx	E 2.0	18	
			Mx	N 2.6	18	
			Mx	Z 3.4	15	
		Ki	iP	23 40	52.5 C	
			ipP	23 41	04.1	
			iS	23 50	18	
						micr sec
			P	Z' 0.1	1.0	
			pP	Z' 0.1	1.4	
			Mx	E 5.4	17	
			Mx	N 4.3	16	
			Mx	Z 5.5	16	
		Sk	iP	23 41	21.7	
			ipP	23 41	32.1	
		Um	iP	23 41	06.3 C	
			iS	23 50	45	
		Ud	iP	23 41	33.1 C	
			ipP	23 41	45.1	
		De	iP	23 41	46.2 C	
						South of Japan.
						h = 40 km (Up,Ki,Sk,Ud).
						m = 5.9, M = 5.9 (Up,Ki).
"	31	Um	iP	00 16	50.4	
			i	00 17	08.2	
		Ud	iP	00 17	17.2	
						South of Japan (h = N).
"	31	Um	iP	00 34	38.9	
		Ud	iP	00 35	05.6	
						South of Japan.
"	31	Ki	e(PKP)	01 33	09	
		Sk	iPKP	01 33	24.0	
		Um	iPKP	01 33	18.8 C	
		Ud	iPKP	01 33	24.4	
		De	iPKP	01 33	28.8	
			i	01 33	34.2	
						Loyalty Islands (h = 15 km).
"	31	Ud	iP	02 04	46.9	
		De	iP	02 04	46.0	

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

1974				1974			
Aug.	31	Ud	iP	02 38 58.9	Aug.	31	(cont.)
							Sk
							iP
							17 21 53.9
							iPP
							17 23 34.2
							Um
							iP
							17 21 25.3
							Ud
							iP
							17 21 46.9
							De
							iP
							17 21 45.9
							Tadzhik-Sinkiang (h = N).
"	31	Up	iRg	04 04 55.6	"	31	Up
"	31	Ud	i	04 05 49.8	"	31	iP
"	31	Ud	iP	04 19 25.3	"	31	ipP
"	31	Ki	i(P)	05 24 18.7	"	31	18 17 34.8 C
"	31	Um	i(P)	05 23 33.6	"	31	iP
"	31	Ud	iP	05 26 32.1	"	31	18 17 49.1
"	31		i	05 26 46.8	"	31	iP
"	31	Um	iP	05 37 58.3	"	31	18 17 36.3 C
"	31	Ud	iP	05 38 25.4	"	31	ipP
"	31				"	31	18 17 50.5
"	31				"	31	Sk
"	31				"	31	eP
"	31				"	31	18 17 50
"	31				"	31	Um
"	31				"	31	iP
"	31				"	31	18 17 32.8
"	31				"	31	ipP
"	31				"	31	18 17 46.8
"	31				"	31	Ud
"	31				"	31	iP
"	31				"	31	18 17 45.6 C
"	31				"	31	ipP
"	31				"	31	18 18 03.1
"	31				"	31	De
"	31				"	31	iP
"	31				"	31	18 17 43.5
"	31				"	31	ipP
"	31				"	31	18 17 58.5
"	31				"	31	Sumatra.
"	31				"	31	h = 55 km (Up,Ki,Um,Ud,De).
"	31				"	31	De
"	31				"	31	iP
"	31				"	31	18 22 36.6
"	31				"	31	Ud
"	31				"	31	iP
"	31				"	31	18 43 23.6
"	31				"	31	Ud
"	31				"	31	iP
"	31				"	31	19 00 21.4
"	31				"	31	Ud
"	31				"	31	eP
"	31				"	31	19 04 39
"	31				"	31	Up
"	31				"	31	eP
"	31				"	31	19 58 16
"	31				"	31	Sk
"	31				"	31	eP
"	31				"	31	19 58 26
"	31				"	31	Ud
"	31				"	31	eP
"	31				"	31	19 58 29
"	31				"	31	De
"	31				"	31	iP
"	31				"	31	19 58 31.7 C
"	31				"	31	Up
"	31				"	31	iP
"	31				"	31	23 16 00.0
"	31				"	31	Ki
"	31				"	31	iP
"	31				"	31	23 16 09.1
"	31				"	31	Sk
"	31				"	31	iP
"	31				"	31	23 16 25.0
"	31				"	31	Um
"	31				"	31	iP
"	31				"	31	23 15 58.4
"	31				"	31	Ud
"	31				"	31	iP
"	31				"	31	23 16 16.2
"	31				"	31	ipP
"	31				"	31	23 17 00.9
"	31				"	31	Hindu Kush.
"	31				"	31	h = 220 km (Ud).
"	31				"	31	Origin time = 23 08 31.
"	31				"	31	Up
"	31				"	31	eP
"	31				"	31	23 53 55
"	31				"	31	Ki
"	31				"	31	iP
"	31				"	31	23 52 43.4
"	31				"	31	Sk
"	31				"	31	iP
"	31				"	31	23 53 25.4
"	31				"	31	i
"	31				"	31	23 53 33.4
"	31				"	31	Um
"	31				"	31	iP
"	31				"	31	23 53 25.8
"	31				"	31	i
"	31				"	31	23 53 34.3
"	31				"	31	Markus Båth
"	31				"	31	February 4, 1976
"	31				"	31	Up
"	31				"	31	iP
"	31				"	31	17 21 30.2
"	31				"	31	iPP
"	31				"	31	17 22 58.7
"	31				"	31	Ki
"	31				"	31	iP
"	31				"	31	17 21 32.9
"	31				"	31	(cont.)

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

S E P T E M B E R 1 - 30, 1974

1974					1974				
Sep.	1	Up	iP	00 30 16.2 D	Sep.	1	(cont.)		
		Ki	iP	00 29 44.7 D			Sk	i	11 03 21.9
		Sk	iP	00 30 13.4				iS	11 05 02.6
		Um	iP	00 29 58.4 D			Um	iP	11 03 44.1
		Ud	iP	00 30 23.0 D				i	11 03 47.1
		De	iP	00 30 35.4			Ud	iP	11 04 04.6
		Bonin Islands (h = 390 km).						i	11 04 16.2
"	1	Ud	iP	02 14 45.6			De	iP	11 04 54.3
							Jan Mayen (h = N).		
							Double P.		
"	1	Up	iPKP1	02 56 34.9	"	1	Ki	eP	11 20 43
		Ud	iPKP1	02 56 36.9			Sk	iP	11 20 53.4
"	1	Up	iP	03 40 24.7				iS	11 22 32.0
		Ud	iP	03 40 45.9			Probably Jan Mayen.		
		De	eP	03 40 45			Origin time = 11 18 34.		
"	1	Ud	iP	05 09 17.5	"	1	Ki	iP	13 17 18.7
"	1	Up	iPKP1	06 29 58.3			Sk	iP	13 17 31.2
		Sk	iPKP1	06 29 49.2				i	13 17 35.0
		Um	iPKP1	06 29 43.2				iS	13 19 21.4
		Ud	iPKP1	06 29 57.5			Um	iP	13 17 56.4
		Kermadec Islands.						i	13 18 00.8
							Ud	iP	13 18 17.7
							Jan Mayen (h = N).		
"	1	Sk	iPKP	09 52 50.6			Double P.		
		Ud	iPKP	09 52 49.0	"	1	Ki	iP	14 02 03.0
		Off coast of Chile (h = N).					Sk	iP	14 01 54.4
"	1	Ki	iP	10 07 20.5				ipP	14 02 17.0
		Ud	iP	10 07 35.0			Um	iP	14 02 10.3
		Tadzhik-Sinkiang.						ipP	14 02 34.4
		Origin time = 09 59 43.					Ud	iP	14 02 00.3
"	1	Up	iP	11 04 20.4				ipP	14 02 23.4
		Ki	iP	11 03 05.9			El Salvador.		
			i	11 03 08.8			h = 90 km (Sk,Um,Ud).		
		Sk	iP	11 03 18.1	"	1	Up	iP	16 02 46.8
		(cont.)					Ud	eP	16 02 59

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

1974				1974			
Sep.	2	Up	iPKP1	00 13 03.5	Sep.	2	(cont.)
			i	00 13 10.0			Up iSKS 09 05 09
		Um	iPKP1	00 12 52.7			iS 09 05 29
		Ud	iPKP1	00 13 05.5			Ki iP 08 54 45.5
"	2	Ki	iP	01 10 47.0			ipP 08 54 59.2
		Ud	iP	01 11 01.1			micr sec
		Tadzhik-Sinkiang.					P Z' 0.1 0.9
		Origin time = 01 03 09.					Sk iP 08 54 59.5
"	2	Up	iP	01 46 16.2			Um iP 08 54 42.1
		Ud	iP	01 46 29.6			iS 09 05 24
		Iran.					Ud iP 08 54 54.5
"	2	Up	iP	04 46 07.7 D			i(sP) 08 55 11.4
			isP	04 46 24.4			De iP 08 54 54.2
			iS	04 56 51			ipP 08 55 06.7
			micr sec				Sumatra.
		P	Z'	0.2 1.3			h = 50 km (Ki,De).
		Ki	iP	04 46 07.6 D	"	2	Ki iP 09 14 36.0
			iS	04 56 51			Um iP 09 14 40.4
			micr sec				Ud iP 09 14 58.2
		P	Z'	0.3 1.0	"	2	Ud iPKP1 12 26 04.6
		Mx	E	0.6 18			De iPKP1 12 26 14.2
		Mx	N	0.6 18			Fiji Islands (h = 440 km).
		Mx	Z	0.8 18	"	2	Ki iPKP 13 09 26.5
		Sk	iP	04 46 21.3 D			South Sandwich Islands
			iPP	04 50 01.3			(h = N).
		Um	iP	04 46 04.8 D	"	2	Um iP 14 06 15.2
			ipP	04 46 17.6	"	2	Ud iP 16 52 40.3
			i	04 46 34.1	"	2	Um iP 18 05 36.0
			iPP	04 49 35.3			Ud iP 18 05 55.0
			iS	04 56 47	"	2	Um iP 18 05 36.0
		Ud	iP	04 46 17.4 D			Ud iP 18 05 55.0
			ipP	04 46 29.4	"	2	Ki ePKP 18 36 11
			iPP	04 49 57.8			Sk iPKP 18 36 23.3
		De	iP	04 46 15.7 D			Um iPKP 18 36 18.1 D
			isP	04 46 32.2			De iPKP 18 36 35.0
		Sumatra.					Santa Cruz Islands
		h = 45 km (Um,Ud).					(h = 120 km).
		m = 6.5 (Up,Ki).					
		The phases interpreted as PP					
		are consistently late.					
"	2	Up	ipP	05 28 46.4	"	2	Ki eP 19 01 59
		Ki	iP	05 28 00.8			Sk iP 19 02 25.5
		Sk	iP	05 28 32.3			Ud iP 19 02 15.3
		Um	iP	05 28 15.8			Sinkiang, China (h = N).
			ipP	05 28 26.6	"	2	Um iP 23 31 46.1
		Ud	iP	05 28 43.3			Ud iP 23 32 17.7
			ipP	05 28 54.1			Kurile Islands.
		Japan.					
		h = 40 km (Um,Ud).					
"	2	Up	iP	08 54 45.4	"	3	Up iP 01 51 41.2
			i(sP)	08 55 02.2			micr sec
		(cont.)					P Z' 0.1 0.9
							Ki iP 01 51 04.9
							(cont.)

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

1974

Sep. 3 (cont.)
De iP 06 12 05.2
Luzon (h = N).
m = 5.9 (Up,Ki).
Double P, small and large,
1.8 sec apart.

" 3 Ki iP 09 07 26.2
Um iP 09 07 20.4
Ud iP 09 07 36.7
Tadzhik-Sinkiang (h = N).

" 3 Up iP 14 00 33.4
Ud iP 14 00 51.6
De iP 14 00 41.2
Iran-USSR.

" 3 Up iP 19 27 26.7
Ki iP 19 26 50.8 C
Sk iP 19 27 22.8
Um iP 19 27 07.0
i 19 27 18.7
Ud iP 19 27 33.8
South of Japan (h = 15 km).

" 3 Um iP 19 27 29.3
Ud iP 19 27 45.9
New Guinea (h = 40 km).

" 3 Um iP 19 38 43.2
Ud iP 19 39 10.6
South of Japan (h = N).

" 3 (Up iP 19 48 53.4
iPP 19 50 24.9
micr sec
P Z' 0.1 1.0
Mx E 1.0 11
Mx N 1.1 13
Mx Z 2.2 10
Ki iP 19 48 56.0
micr sec
P Z' 0.2 0.8
Mx E 2.4 13
Mx N 2.8 12
Mx Z 1.6 10
Sk iP 19 49 17.3
iPP 19 50 56.3
Um iP 19 48 48.2
iPP 19 50 20.7
Ud iP 19 49 10.6
De iP 19 49 09.3
iPP 19 50 47.6
Tadzhik-Sinkiang (h = N).
m = 5.7, M = 5.3 (Up,Ki).

" 3 Sk iP 20 01 24.7
(cont.)

1974

Sep. 3 (cont.)
Hindu Kush.
Intermediate depth.

" 3 Up iP 20 07 13.7
Um iP 20 06 54.4
Ud iP 20 07 20.7
South of Japan (h = 450 km).

" 4 Um iP 00 32 27.8
Japan (h = 70 km).

" 4 Ki iP 01 48 40.5
Ud iP 01 48 54.4
De iP 01 48 53.2
Tadzhik-Sinkiang.
Origin time = 01 41 03.

" 4 Um iP 02 35 51.6

" 4 Um iP 04 17 21.3

" 4 Up iP 06 18 19.2
Ki iP 06 18 17.3
micr sec
P Z' 0.1 0.9
Sk iP 06 18 31.5
Um iP 06 18 13.2
Ud iP 06 18 28.7
De iP 06 18 27.8
South of Java (h = 70 km).

" 4 Up iP 06 35 02.4
iS 06 39 44
micr sec
P Z' 0.4 1.8
Mx E 6.5 20
Mx N 3.9 16
Mx Z 4.7 16
Ki iP 06 36 08.1
iS 06 41 45
micr sec
P Z' 0.2 1.7
Mx E 8.5 20
Mx N 3.9 19
Mx Z 4.9 12
Sk iP 06 35 34.1
i 06 35 44.4
Um iP 06 35 33.5
iS 06 40 42
Ud iP 06 35 03.5
De iP 06 34 25.5
Libya (h = 15 km).
m = 5.8, M = 5.2 (Up,Ki).

" 4 Ki iP 06 52 09.0
Um iP 06 51 51.6
(cont.)

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

1974				1974					
Date	Time	Station	Phase	Date	Time	Station	Phase		
1974 Sep.	4	(cont.)		1974 Sep.	5	(cont.)			
		Ud	iP			06 51 59.3	Um	iP	04 04 25.1
		Pakistan.				Ud	iP	04 05 03.2	
"	4	Ud	iP	07 12 26.9		De	iP	04 05 14.9	
		Kurile Islands.				USSR-Mongolia (h = N).			
"	4	Ud	iPKP1	08 17 44.7	"	5	Up	iP	06 34 47.1
		De	iPKP1	08 17 54.9			Ki	iP	06 34 11.0
		Tonga Islands (h = 60 km).						ipP	06 34 25.3
"	4	Ud	iP	08 40 28.7			Um	iP	06 34 26.6
								ipP	06 34 39.3
"	4	Up	iP	09 31 10.8			Ud	iP	06 34 53.9
			ipP	09 31 24.9			South of Japan.		
				micr sec			h = 50 km (Ki,Um).		
			pP	Z' 0.1 1.2	"	5	Ki	iP	07 29 20.7
		Ki	iP	09 30 29.3			Japan (h = N).		
			ipP	09 30 45.0	"	5	Up	iP	07 59 57.8
				micr sec			Ki	iP	08 00 00.5
		Mx	E	1.3 19					micr sec
		Mx	N	1.1 22				P	Z' 0.1 1.0
		Mx	Z	1.2 20			Sk	iP	07 59 43.8
		Sk	eP	09 31 06			Um	iP	08 00 02.8
		Um	iP	09 30 48.0				ipP	08 00 41.9
			ipP	09 31 03.6			Ud	iP	07 59 47.2
		Ud	iP	09 31 17.6				ipP	08 00 25.8
			ipP	09 31 32.0			De	iP	07 59 47.4
		De	iP	09 31 33.1			Colombia.		
		Japan.					h = 160 km (Um,Ud).		
		h = 55 km (Up,Ki,Um,Ud).			"	5	Ki	iP	09 16 02.7
"	4	Ki	iP	15 38 13.5			Kurile Islands.		
		Ud	iP	15 38 23.8	"	5	Up	iP	10 08 07.2
		De	iP	15 38 21.6			Ki	iP	10 07 57.4
		Tadzhik-Sinkiang (h = N).					Um	iP	10 08 02.9
"	4	Ud	iP	18 54 55.8			Mexico-Guatemala (h = N).		
"	5	Up	iP	00 37 51.9	"	5	Up	iP	11 39 51.4
		Ki	iP	00 38 58.3			Ki	iP	11 41 00.2
		Sk	iP	00 38 30.1					micr sec
		Ud	iP	00 37 59.9				Mx	E 0.4 14
		De	iP	00 37 27.9				Mx	Z 1.2 22
		Crete.					Sk	eP	11 40 31
"	5	Up	iP	01 07 06.1			Ud	iP	11 40 01.2
		Ki	iP	01 06 23.8			De	iP	11 39 28.2
		Um	iP	01 06 41.4				i	11 39 47.5
		Ud	iP	01 07 12.1 C			Crete (h = 55 km).		
		Japan (h = 90 km).			"	5	Ki	iP	12 21 53.1
"	5	Up	iP	04 04 48.4			Sk	iP	12 22 13.9
		Ki	eP	04 04 21			Um	iP	12 21 45.6
				micr sec			Ud	iP	12 22 07.1
		Mx	N	0.5 12			De	iP	12 22 05.5
		(cont.)					Tadzhik-Sinkiang (h = N).		

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

1974

Sep.	5	Ki	iP	14 09 42.2	
		Banda Sea (h = 90 km).			
"	5	Up	iP	14 40 28.8	
		Ki	iP	14 40 35.4	
			ipP	14 41 25.1	
		Um	iP	14 40 25.9	
			ipP	14 41 18.6	
		Ud	iP	14 40 44.5	
			ipP	14 41 31.6	
		De	iP	14 40 42.0	
		Afghanistan-USSR. h = 240 km (Ki,Um,Ud).			
"	5	Ud	iPKP1	15 55 02.4	
"	5	Up	iP	17 52 48.9	
		Ki	iP	17 52 13.9	
		Sk	iP	17 52 44.2	
		Um	iP	17 52 29.3	
		Ud	iP	17 52 55.6	
		South of Japan (h = N).			
"	5	Ki	iP	18 32 52.4 C	
		Sk	iP	18 33 24.3	
		Ud	iP	18 33 34.8	
		De	iP	18 33 44.5	
		Ryukyu Islands (h = N).			
"	5	Ud	iP	18 41 09.6	
		Hindu Kush (h = 170 km).			
"	5	Ki	Mx	21 56	
				micr sec	
		Mx	E	0.8 21	
		Mx	N	0.5 15	
		Ryukyu Islands (h = N).			
"	6	Up	iP	15 31 32.8	
		Ki	iP	15 31 35.8	
		Sk	iP	15 31 56.5	
			ipP	15 33 39.1	
		Um	iP	15 31 27.7	
		Ud	iP	15 31 49.5 C	
			ipP	15 33 29.9	
		De	iP	15 31 48.5 C	
		Tadzhik-Sinkiang (h = N).			
"	6	Sk	iPKP	20 54 59.5	
		Um	iPKP	20 54 54.2	
		Tonga Islands (h = 120 km).			
"	6	Up	iPKP	23 45 27.0	
		Sk	iPKP	23 45 26.9	
		Um	iPKP	23 45 21.1	
			i	23 45 26.2	
		Ud	iPKP	23 45 29.6	
		(cont.)			

1974

Sep.	6	(cont.)			
		De	i(PKP)	23 45 21.3	
			iPKP	23 45 34.8	
		Solomon Islands (h = 60 km).			
"	7	Um	iP	03 39 59.6	
		Ud	iP	03 40 00.8	
		Iran.			
"	7	Ki	iP	04 19 41.1	
		Um	iP	04 20 00.0	
		Ud	iP	04 20 31.7	
		De	iP	04 20 49.2	
		Japan (h = 240 km).			
"	7	Ki	eP	07 35 27	
		Sk	iP	07 35 15.2	
		Um	i(P)	07 35 24.7	
		Ud	iP	07 35 18.7	
		Colombia (h = 20 km).			
"	7	Um	iP	08 38 42.4	
		Turkey (h = 15 km).			
"	7	Ud	iP	10 17 57.9	
"	7	Up	iP	11 50 50.2 C	
		Ki	iP	11 50 39.6	
		Sk	eP	11 51 04	
		Ud	iP	11 51 03.3	
		Burma (h = N).			
"	7	Ud	iP	13 44 21.3	
"	7	Up	iSgl	15 50 36.6	
		Ud	iPgl	15 49 16.2	
			iSgl	15 49 36.5	
		De	iSgl	15 50 29.6	
		Southeast Norway, 59.3°N, 11.1°E. Origin time = 15 48 51.			
"	7	Up	iP	15 54 05.3	
				micr sec	
		Mx	E	0.5 14	
		Mx	N	0.9 17	
		Mx	Z	0.5 13	
		Ki	iP	15 54 09.0	
				micr sec	
		Mx	E	0.8 11	
		Mx	N	0.6 11	
		Mx	Z	0.9 11	
		Sk	iP	15 54 29.9	
		Um	iP	15 54 00.1	
		Ud	iP	15 54 22.9	
			i	15 54 34.2	
		De	iP	15 54 20.9	
		(cont.)			

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

1974				1974			
Sep.	7	(cont.)		Sep.	7	(cont.)	
		Tadzhik-Sinkiang (h = N).		Ki	iSKS	21 07 21	
		M = 4.9 (Up,Ki).				micr sec	
"	7	Up	iP 16 04 45.8		P	Z' 0.7	1.4
		Ud	iP 16 05 03.4		PP	Z' 0.2	1.4
					Mx	E 28	21
					Mx	N 49	23
"	7	Ki	iP 19 09 11.3		Mx	Z 32	22
		Sk	iP 19 09 26.6	Sk	iP	20 57 00.9	
		Java (h = 110 km).			i	20 57 04.5	
"	7	Up	iP 19 52 05.8		iPP	21 01 15.6	
		ipP	19 52 22.2	Um	iP	20 56 45.0	
			micr sec		i	20 56 48.4	
		P	Z' 0.1 1.1		iPP	21 00 42.7	
		pP	Z' 0.1 1.0		iS	21 08 10	
		Ki	iP 19 52 16.1 C	Ud	iP	20 56 58.4	
		ipP	19 52 33.2		i	20 57 01.7	
			micr sec		i	20 57 14.7	
		P	Z' 0.1 1.0		i(PP)	21 00 14.5	
		pP	Z' 0.2 1.0		iPP	21 01 10.5	
		Sk	iP 19 51 53.8 C	De	eP	20 56 58	
		ipP	19 52 10.2		i	20 57 01.6	
		Um	iP 19 52 14.1		iPP	21 01 02.8	
		ipP	19 52 31.3		South of Java (h = N).		
		Ud	iP 19 51 53.8		m = 6.8, M = 6.7 (Up,Ki).		
		ipP	19 52 11.5		Double P, in average 3.7		
		De	iP 19 51 53.0		sec apart.		
		ipP	19 52 10.0	"	7	Up	iP 21 52 11.8
		Leeward Islands.				Ud	iP 21 52 21.9
		h = 60 km (Up,Ki,Sk,Um,Ud,				Formosa (h = 60 km).	
		De).		"	8	Ud	iP 05 29 56.9
		m = 5.7 (Up,Ki).		"	8	Ki	iPKP 05 32 07.7
"	7	Um	iPKP 20 12 31.1			Sk	iSKP1 05 35 49.0
		Ud	iPKP 20 12 26.6			New Hebrides Islands	
		Chile (h = 15 km).				(h = 15 km).	
"	7	Um	iPKP 20 37 35.2	"	8	Up	iPKP 05 35 15.9
		Chile-Argentina (h = 80 km).				Ki	iPKP 05 35 05.1
"	7	Up	iP 20 56 49.6			ipP	05 35 39.8
		i	20 56 53.3			iPKKP1	05 46 14.4
		i(PP)	21 00 05.4				micr sec
		iPP	21 00 49.1			PP	Z' 0.3 1.7
		iS	21 08 19	Sk	iPKP	05 35 15.4	
			micr sec		iPKKP1	05 45 56.8	
		P	Z' 0.2 1.5	Um	iPKP	05 35 09.6	
		PP	Z' 0.9 2.0		ipP	05 35 56.2	
		Mx	E 13 21	Ud	iPKP	05 35 18.6	
		Mx	N 23 23		ipP	05 36 32.4	
		Mx	Z 23 23		iPKKP1	05 45 56.8	
		Ki	iP 20 56 45.8	De	iPKP	05 35 24.4	
		i	20 56 49.9	New Ireland (h = 450 km).			
		i(PP)	20 59 51.1	"	8	Ud	eP 08 09 12
		iPP	21 00 45.5			Greece (h = 45 km).	
		(cont.)					

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

1974					1974				
Sep.	8	Ud	iPKP1	08 19 43.4	Sep.	10	(cont.)		
"	8	Ud	iP	09 36 09.8			Ki	iP	13 57 31.0
"	8	Ki	iP	11 18 24.0			Sk	iP	13 57 59.0
				Samar (h = N).			Ud	iP	13 58 06.1
"	8	Up	iP	12 49 53.3	"	10	Sk	iPKP	18 24 57.2
		Ki	iP	12 49 23.5			Um	iPKP	18 24 51.5
		Um	iP	12 49 36.8					Santa Cruz Islands
		Ud	iP	12 49 59.8					(h = 240 km).
				Volcano Islands (h = 140 km).	"	10	Up	iPKP1	21 25 52.2 C
"	8	Ki	iPKP	15 13 34.7				iPKP2	21 25 55.9
			i	15 13 58.1				i	21 27 31.5
				South Sandwich Islands					micr sec
				(h = N).				PKP1	Z' 0.2 1.0
"	8	Ki	iP	16 40 54.0			Ki	iPKP1	21 25 33.5 C
		Ud	iP	16 41 47.6			Sk	iPKP1	21 25 45.3 C
				Aleutian Islands (h = 90 km).			Um	iPKP1	21 25 40.3 C
"	8	Up	iP	19 14 41.8			Ud	iPKP1	21 25 53.7 C
		Ki		micr sec			De	iPKP1	21 26 02.2 C
			Mx	E 0.6 11				i	21 27 50.3
			Mx	N 0.5 13					Kermadec Islands (h = 25 km).
			Mx	Z 0.4 11	"	10	Up	iPKP1	21 41 07.7
		Sk	iP	19 15 21.8			Sk	iPKP1	21 40 58.0
		Ud	iP	19 14 49.4			Um	iPKP1	21 40 52.7
				Aegean Sea (h = N).			Ud	iPKP1	21 41 06.1
"	9	De	iPKP1	04 05 05.3			De	iPKP1	21 41 15.0
"	9	Ki	iP	18 06 28.9					Kermadec Islands.
		Sk	iP	18 05 51.6					Origin time = 21 21 21.
				North Atlantic Ocean (h = N).	"	11	Up	iPKP1	01 36 43.0
"	9	Ki	iPKP	18 19 13.3				iPKP2	01 36 48.2
				Solomon Islands (h = 55 km).					micr sec
"	9	Sk	iP	23 01 03.0				PKP1	Z' 0.1 1.2
				Yugoslavia (h = 25 km).				PKP2	Z' 0.3 1.5
"	9	Ki	iPKP1	23 54 37.2			Ki	iPKP1	01 36 24.1
		Um	iPKP1	23 54 47.1			Sk	iPKP1	01 36 37.4 C
"	10	Up	iP	00 30 27.7			Um	iPKP1	01 36 32.5 C
		Sk	eP	00 31 05				i	01 36 41.2
		Ud	iP	00 30 32.4			Ud	iPKP1	01 36 45.0
				Ionian Sea (h = N).			De	iPKP1	01 36 54.0 C
"	10	Ud	iP	04 08 31.9					Kermadec Islands (h = 45 km).
"	10	Ud	iP	05 40 15.2	"	11	Ud	iP	03 39 27.9
				Leyte (h = 60 km).			De	iP	03 39 38.4
"	10	Up	iP	13 57 56.8	"	11	Ud	iP	04 14 38.4
				(cont.)	"	11	Up	iP	05 17 26.3
							Sk	iP	05 18 08.1
							Um	iP	05 18 06.9
							Ud	iP	05 17 31.3
								i	05 17 35.5
									Albania (h = 50 km).
"	10	Up	iP	13 57 56.8	"	11	Ud	iP	07 20 05.6
				(cont.)					

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

1974				1974								
Sep.	11	Up	iPKP1	07 45	56.6	Sep.	12	(cont.)				
		Sk	iPKP1	07 45	49.3			Ki	iSgl	00 32	56.5	
		Ud	iPKP1	07 45	57.0						micr sec	
		De	iPKP1	07 46	06.8				Sgl	Z'	0.1 0.5	
		Kermadec Islands.						Sk	eSgl	00 34	31	
		Origin time = 07 26 15.						Um	iS*	00 33	14.4	
"	11	Um	iPKP1	08 11	43.3				iSgl	00 33	18.3	
"	11	Ki	iPKP	09 46	48.9			Norrbotten, Sweden, 66.1°N, 21.7°E.				
		Sk	iPKP	09 46	59.0			Origin time = 00 32 06.				
		Um	iPKP	09 46	54.5			By combination with Finnish station readings.				
		Ud	iPKP	09 47	05.0			Felt.				
		De	iPKP	09 47	13.5			"	12	Ki	iP	02 45 32.3
		New Hebrides Islands (h = N).								Ud	iP	02 45 46.3
"	11	Ud	i(P)	11 48	39.7			Tadzhik-Sinkiang (h = N).				
"	11	De	iPKP2	12 27	05.9			"	12	Up	i	03 38 02.1
		Kermadec Islands (h = 40 km).								iPgl	03 38 04.0	
"	11	Up	iPgl	13 02	01.1					i	03 38 39.9	
			iSgl	13 02	48.6					iSgl	03 38 46.6	
		Ud	iPgl	13 01	25.1			Ki	iSgl	03 41	28.1	
			iSgl	13 01	44.8			Sk	iSgl	03 40	37.4	
		De	iPgl	13 02	03.2			Um	iPgl	03 38	27.2	
			iSgl	13 02	51.9				iSn	03 39	08.0	
		Southeast Norway, 59.7°N, 10.8°E.								iSgl	03 39	26.5
		Origin time = 13 01 00.							Ud	eSn	03 39	29
"	11	Ud	i(P)	13 18	25.9				iSgl	03 39	53.4	
		De	i(P)	13 18	33.3			De	iSn	03 39	52.1	
			i	13 18	47.8				iSgl	03 40	24.0	
"	12	Up	iSgl	00 34	42.5			Gulf of Finland, 59.7°N, 23.8°E.				
		Ki	iPn	00 31	47.0			Origin time = 03 37 09.				
			iS*	00 32	10.5			Explosion?				
			iSgl	00 32	11.2			"	12	Up	iP	05 31 11.3
										Ki	iP	05 30 31.1
										Um	iP	05 30 52.8
										Ud	iP	05 31 04.5 C
								California (h = N).				
			Sgl	Z'	0.1 0.5			"	12	Up	iP	06 10 36.7
		Sk	iSgl	00 33	45.2					Ki	iP	06 10 39.4
		Um	ePn	00 31	58							micr sec
			iPgl	00 32	01.5					Mx	E	1.6 17
			iS*	00 32	29.1					Mx	N	1.0 14
			iSgl	00 32	32.8					Mx	Z	1.7 14
		Ud	iSgl	00 34	56.6			Sk	iP	06 11	00.6	
		Norrbotten, Sweden, 66.1°N, 21.7°E.						Ud	iP	06 10	54.2	
		Origin time = 00 31 21.						De	iP	06 10	53.8	
		By combination with Finnish station readings.						Sinkiang, China (h = N).				
		Felt.					"	12	Ki	iP	06 35 28.3	
"	12	Up	iSgl	00 35	27.7			Sk	iP	06 35	49.5	
		Ki	iPn	00 32	32.3			Ud	iP	06 35	42.0	
			iS*	00 32	55.5			De	eP	06 35	41	
		(cont.)						Tadzhik-Sinkiang (h = N).				

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

1974

Sep. 13 (cont.)
 Up micr sec
 P Z' 0.1 0.9
 Ki iP 03 09 37.5 C
 micr sec
 P Z' 0.1 0.5
 Sk iP 03 10 08.4 C
 iPP 03 11 31.0
 Um iP 03 09 37.5 C
 i 03 10 52.7
 Ud iP 03 10 09.1 C
 iPn 03 11 21.7
 iPP 03 11 34.5
 De iP 03 10 16.0 C
 iPn 03 11 31.3
 iPP 03 11 43.6

Kazakh SSR.

m = 5.9 (Up,Ki).

Underground explosion.

" 13 Up iP 05 00 29.3
 Ud eP 05 00 42
 De iP 05 00 18.4
 Turkey (h = N).

" 13 Ud iP 05 36 43.8
 Baja California (h = N).

" 13 / Up iP 08 03 16.4 C
 iPcP 08 03 56.5
 iP'P' 08 32 16.9
 micr sec
 P Z' 0.8 1.3
 Mx E 1.5 20
 Mx N 2.5 20
 Mx Z 3.6 22
 Ki iP 08 02 21.5 C
 micr sec
 P Z' 0.6 1.4
 Mx E 2.3 19
 Mx N 1.3 17
 Mx Z 1.7 14
 Sk iP 08 02 58.6 C
 iPcP 08 03 46.7
 Um iP 08 02 47.6 C
 iPcP 08 03 40.2
 iS 08 10 40
 Ud iP 08 03 19.6 C
 iPcP 08 03 58.6
 De iP 08 03 41.6 C
 iPcP 08 04 12.5
 iPP 08 06 05.2

Kamchatka (h = 55 km).

m = 6.6, M = 5.5 (Up,Ki).

" 13 De iP 10 51 47.9 C

1974

Sep. 13 Up iSgl 11 33 31.9
 Ki iPgl 11 28 56.9 C
 i 11 29 02.2
 iSgl 11 29 17.2
 micr sec
 Pgl Z' 0.1 0.4
 Sgl Z' 0.3 0.3
 Sk iSgl 11 31 53.4
 i 11 31 56.2
 Um iSgl 11 31 21.4
 Ud eSgl 11 33 40

North Norway,
 69.3°N, 19.8°E.

Origin time = 11 28 31.

By combination with Tromsøe
 readings.

" 13 Up eP 18 29 31
 micr sec
 Mx E 0.3 9
 Mx N 0.4 12
 Mx Z 0.7 10
 Ki iP 18 30 46.3
 micr sec
 Mx E 0.3 9
 Mx N 0.4 9
 Mx Z 0.3 8
 Sk iP 18 30 12.3
 Um iP 18 30 12.0
 Ud i(P) 18 29 36.6
 iP 18 29 40.8

Greece (h = 25 km).

M = 4.4 (Up,Ki).

" 13 Ud iP 18 47 28.8
 De iP 18 47 27.5

" 13 Up iPgl 20 49 48.1
 iSgl 20 49 59.5
 iRg 20 50 01.7
 Sk i 20 51 15.6
 Um i 20 51 02.3
 iSgl 20 51 32.0
 Ud iPgl 20 49 58.5
 iSgl 20 50 16.9
 i 20 50 20.8
 iRg 20 50 26.1
 De iSgl 20 51 44.3

Gästrikland-Dalarna, Sweden,
 60.4°N, 16.3°E.

Origin time = 20 49 35.

Near-surface event.

" 14 Up iP 02 49 46.3
 Ki iP 02 48 56.3
 Sk iP 02 49 34.4
 Um iP 02 49 19.5

(cont.)

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

1974				1974				
Sep.	14	(cont.)		Sep.	15	Up	iP	15 00 16.1
		Ud	iP			Ki	iP	15 00 24.7
		De	iP			Ud	iP	15 00 32.3
		Kurile Islands (h = 180 km).				Hindu Kush (h = 230 km).		
"	14	Ki	iP	"	15	Ki	iPKP	15 01 34.4
		Sk	iP			New Hebrides Islands		
		Um	iP			(h = 35 km).		
		Ud	iP	"	15	Ud	iP	17 57 26.6
		De	iP			Hindu Kush.		
		Tadzhik-Sinkiang (h = N).				Intermediate depth.		
"	14	Ki	iPKP	"	15	Ud	iP	19 47 57.7
		New Hebrides Islands (h = N).						
"	14	De	iPKP1	"	15	Up	iSKP1	20 56 16.8
		Fiji Islands (h = 600 km).				Um	iSKP1	20 56 00.2
"	14	Ud	iP			Ud	eSKP1	20 56 21
		De	iP			i	20 56 27.2	
		Crete.				New Hebrides Islands		
						(h = 240 km).		
"	14	Ud	iP	"	15	Ud	iP	22 01 22.6
"	14	Um	iPKP1	"	16	Sk	eP	00 52 00
		i	19 47 50.5			Ud	eP	00 51 55
		Ud	iPKP1			De	iP	00 51 48.0
			19 47 45.0			Argentina (h = 280 km).		
"	14	Ud	iPKP1	"	16	Ki	iP	00 55 57.3
			21 37 13.7			Um	iP	00 56 12.2
"	14	Ud	iPKP1			Ud	iP	00 56 04.4
			21 41 01.2	"	16	Ki	iP	01 07 14.6
"	14	Up	iPKP1			Ud	iP	01 07 47.8
		Ud	iPKP1			De	iP	01 07 34.8
			22 37 16.8	"	16	Ud	iP	03 53 25.4
			22 37 18.4			Kurile Islands.		
"	15	Ud	eP	"	16	Ud	iPKP1	10 49 12.1
		De	eP			De	iPKP1	10 49 19.5
		Greece (h = 110 km).				i	10 49 36.8	
"	15	Ki	iPKP			Tonga-Kermadec Islands		
		Um	iPKP			(h = N).		
			02 20 58.4	"	16	Um	iPKP1	11 59 19.7
			02 21 07.9	"	16	Up	i(P)	12 55 20.6
"	15	Up	iPKP1			De	i(P)	12 55 54.6
		iPKP2	08 36 25.0	"	16	Up	i(P)	14 36 45.5
		Ki	iPKP1			Up	i(P)	14 46 50.1
		Sk	iPKP1			Up	i(P)	15 16 27.5
		Um	iPKP1					
		Ud	iPKP1					
		New Zealand (h = 60 km).						
"	15	Ud	iP					
			11 25 19.2					
"	15	Up	iP					
		Um	iP					
		Ud	iP					
		Japan (h = 30 km).						

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

1974				1974					
Sep.	16	Ki	iP	16 34 08.2	Sep.	17	Ud	iPKP1	00 17 20.8
		Ud	iP	16 34 34.7					
"	16	Up	iP	16 53 26.1	"	17	Up	iP	02 11 52.7
				micr sec				iS	02 20 25
			P	Z' 0.1 1.1					micr sec
			Mx	E 0.5 11				P	Z' 0.2 1.6
			Mx	N 0.4 10				Mx	N 0.8 19
			Mx	Z 0.9 11				Mx	Z 1.1 20
		Ki	iP	16 53 29.1 C			Ki	iP	02 10 57.6
				micr sec					micr sec
			P	Z' 0.1 1.0				P	Z' 0.2 1.5
			Mx	E 1.6 14				Mx	E 0.6 18
			Mx	N 0.4 9				Mx	N 0.8 19
			Mx	Z 1.3 13				Mx	Z 1.0 18
		Sk	iP	16 53 50.0 C			Sk	iP	02 11 25.6
		Um	iP	16 53 21.6			Um	iP	02 11 26.4
		Ud	iP	16 53 42.9 C			Ud	iP	02 11 48.8
			iPP	16 55 23.2			De	iP	02 12 12.4
		De	iP	16 53 41.9 C			Kodiak Island (h = 15 km).		
		Tadzhik-Sinkiang (h = 60 km).					m = 6.0, M = 5.0 (Up,Ki).		
		m = 5.6, M = 5.1 (Up,Ki).			"	17	Up	iP	04 22 38.7
"	16	Up	iP	21 08 01.1			Sk	iP	04 23 22.0
				micr sec			Ud	iP	04 22 40.5
			Mx	E 0.8 20			Greece-Albania (h = 45 km).		
			Mx	N 1.1 20	"	17	Up	iP	05 14 59.7
			Mx	Z 1.1 20				iPP	05 15 26.7
		Ki	iP	21 07 15.2				iS	05 18 31
				micr sec					micr sec
			Mx	E 0.8 17				P	Z' 0.2 0.8
			Mx	N 0.7 18				Mx	E 1.6 11
			Mx	Z 1.0 17				Mx	N 3.8 11
		Um	iP	21 07 36.4				Mx	Z 5.1 11
		Ud	iP	21 08 06.6 C			Ki	iP	05 16 18.7 C
		De	iP	21 08 24.9 C					micr sec
		Kurile Islands (h = 55 km).						P	Z' 0.1 1.1
		M = 5.1 (Up,Ki).						Mx	E 3.3 11
"	16	Up	iP	22 06 29.5				Mx	N 3.2 10
				micr sec				Mx	Z 3.0 10
			Mx	E 0.9 24			Sk	iP	05 15 43.6 C
			Mx	N 1.2 22			Um	iP	05 15 41.9 C
			Mx	Z 2.2 23				iS	05 19 58
		Ki	iP	22 05 38.5			Ud	iP	05 15 06.6
				micr sec				i	05 15 09.5
			Mx	E 0.8 19			De	iP	05 14 27.5
			Mx	N 0.5 17			Greece-Albania (h = 15 km).		
			Mx	Z 0.9 17			m = 5.5, M = 5.3 (Up,Ki).		
		Sk	iP	22 06 16.3	"	17	Up	iP	05 21 49.9
			iPcP	22 06 52.8			Ud	iP	05 21 57.1
		Um	iP	22 06 02.2			Greece-Albania.		
		Ud	iP	22 06 35.1	"	17	Up	iP	09 03 06.8 C
			i	22 06 37.5					micr sec
		De	iP	22 06 55.4				P	Z' 0.1 0.9
		Kurile Islands (h = 50 km).					(cont.)		
		M = 5.1 (Up,Ki).							

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

1974

Sep. 20 (cont.)
 Up micr sec
 P Z' 0.2 1.0
 Mx E 0.9 22
 Mx N 1.6 22
 Mx Z 1.6 20
 Ki iP 01 03 16.7
 micr sec
 P Z' 0.2 1.3
 Mx E 1.8 20
 Mx N 2.5 20
 Sk iP 01 03 53.1
 Um iP 01 03 36.3
 Ud iP 01 04 07.2 C
 De iP 01 04 24.5
 Japan (h = 50 km).
 m = 6.1, M = 5.5 (Up,Ki).

" 20 Ki i 01 16 59.5
 i 01 17 08.3
 i(Sgl) 01 17 13.8
 Sk i(Sgl) 01 19 00.5
 Swedish Lapland.

" 20 Ud iP 11 17 48.1
 Chile-Bolivia (h = 110 km).

" 20 Ud iP 12 02 56.2

" 20 Up ipPKP1 19 43 59.1
 Ud ipPKP1 19 44 02.2
 De iP 19 44 02.9 C
 ipPKP1 19 44 13.4
 Tonga Islands.
 h = 35 km (De).

" 20 Up iP 20 08 59.6
 micr sec
 PKP2 Z' 0.1 1.0
 Ki iP 20 08 28.9
 micr sec
 PKP1 Z' 0.2 1.1
 Sk iP 20 08 59.5
 i 20 09 04.3
 Um iP 20 08 33.1
 iP 20 08 46.4
 i 20 08 50.3
 Ud iP 20 09 06.2
 New Zealand (h = 50 km).
 PKP2 followed after 4.4 sec
 by another clear phase
 (Sk,Um).

" 20 Ud iP 21 17 34.1
 Mindanao (h = 100 km).

1974

Sep. 20 Up iP 21 38 34.3
 i 21 39 52.0
 micr sec
 Mx E 1.9 20
 Mx N 3.6 20
 Ki iP 21 34 23.0
 iP 21 34 54.3
 iP 21 38 28.6
 micr sec
 Mx E 3.3 24
 Mx N 3.1 24
 Sk ePKP 21 38 39
 Um iP 21 38 32.8
 i 21 39 28.9
 Ud iP 21 38 42.4
 i 21 40 26.5
 De iP 21 38 45.8 C

New Guinea.
 h = 120 km (Ki).
 M = 6.0 (Up,Ki).
 M uncorrected for focal
 depth.

" 21 Up iP 01 14 39.7
 iPP 01 16 13.1
 Ki iP 01 14 46.5
 Sk iP 01 15 04.8
 Um iP 01 14 36.8
 Ud iP 01 14 56.7
 iPP 01 16 35.0
 De iP 01 14 53.9
 Afghanistan-USSR (h = 90 km).

" 21 Ud iP 02 12 25.4

" 21 Up iP 06 16 14.9
 i 06 16 19.7
 micr sec
 PKP2 Z' 0.2 1.0
 Ki iP 06 15 44.5
 iP 06 15 52.8
 micr sec
 PKP1 Z' 0.2 1.0
 PKP2 Z' 0.4 1.5
 Sk iP 06 16 14.5
 Um iP 06 15 50.0
 i 06 15 58.2
 iP 06 16 02.3
 i 06 16 06.6
 Ud iP 06 16 21.8
 i 06 16 26.9

New Zealand (h = 50 km).
 PKP2 followed after 4.7 sec
 by another clear phase
 (Up,Um,Ud).

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

1974

Sep. 21 Up iP 06 37 46.5 C
ipP 06 37 56.3
i 06 38 00.3
Ki iP 06 37 42.0
Sk iP 06 38 03.7
Um iP 06 37 39.4 C
Ud iP 06 38 00.2 C
ipP 06 38 10.3
De iP 06 38 01.6

India-Bangla. Desh.

h = 35 km (Up,Ud).

Readings are consistently late by about 10 sec compared to the NEIS solution.

" 21 Ki eP 09 27 30
North Atlantic Ocean
(h = N).

" 21 Ud iPKP1 11 41 41.6
De iPKP1 11 41 52.5
Tonga-Kermadec Islands
(h = 240 km).

" 21 ✓ Up iPKP1 12 59 47.7
micr sec
Mx E 2.1 22
Mx N 3.6 20
Mx Z 5.4 20
Ki micr sec
Mx E 3.7 20
Mx N 3.2 19
Mx Z 3.8 18
Um iPKP 12 59 40.0
i 12 59 46.0
Ud iPKP1 12 59 49.6
De iPKP1 12 59 59.7
Tonga-Kermadec Islands
(h = N).
M = 6.2 (Up,Ki).

" 21 Ud iP 15 51 39.5
Japan (h = 35 km).

" 21 ✓ Up iP 16 05 18.7 C
i 16 05 31.8
iPcP 16 05 50.0
iS 16 13 41
micr sec
P Z' 0.3 1.5
PcP Z' 1.3 2.2
Ki iP 16 04 26.7 C
micr sec
P Z' 0.5 2.0
(cont.)

1974

Sep. 21 (cont.)
Sk iP 16 05 02.6
Um iP 16 04 51.1 C
i 16 05 04.1
iPcP 16 05 37.2
iS 16 12 49
Ud iP 16 05 23.0
iPcP 16 05 56.7
De iP 16 05 43.9
Kamchatka (h = 120 km).
m = 6.1 (Up,Ki).

" 21 Up iP 16 14 37
Ki iP 16 12 52.5
iTPg 16 20 37.5
iTSG 16 21 11.4
micr sec
P Z' 0.1 0.8
Mx E 2.0 14
Mx N 3.2 17
Mx Z 4.3 19
Sk iP 16 13 34.1
Um iP 16 13 45.6
Ud iP 16 14 30.3
i 16 14 37.5
De iP 16 15 10.1
Svalbard (h = N).

" 21 Up iP 18 03 53.2
Ki iP 18 03 46.8
Um iP 18 03 45.5 C
Ud iP 18 04 06.3 C
ipP 18 04 28.1
Burma-India.
h = 90 km (Ud).

" 21 Up iPKP1 19 45 02.9
Ud iPKP1 19 45 05.3
De iPKP1 19 45 16.4
Tonga-Kermadec Islands
(h = 580 km).

" 21 Ud iPKP1 22 50 49.6
De iPKP1 22 51 00.2

" 22 De iPKP1 04 30 36.7
Tonga-Kermadec Islands
(h = N).

" 22 Up iP 05 51 35.9
Ki iP 05 51 33.9
Ud iP 05 51 47.6
Sinkiang, China.

" 22 Ud iSKP1 08 37 46.2
New Hebrides Islands
(h = 90 km).

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

1974				1974			
Sep.	24	(cont.)		Sep.	26	(cont.)	
		Um	iSn 18 27 13.9			Um	iP 11 39 39.7
			iSgl 18 27 26.5			Ud	iP 11 40 07.0
		Ud	iSgl 18 28 53.9				i 11 40 14.2
		Nordland, Norway, 66.5°N, 14.4°E.				De	iP 11 40 31.2
		Origin time = 18 25 32.					i 11 40 36.7
		Explosion?				Unimak Island (h = 30 km).	
"	25	Um	iPKPl 02 11 42.4	"	26	Ud	iPKPl 12 19 21.0
		Ud	iPKPl 02 11 54.9			De	iPKPl 12 19 31.4
"	25	Up	iP 11 38 00.1	"	26	Ki	iP 13 07 31.6
		Ki	iP 11 37 07.1			Ud	iP 13 08 10.8
		Um	iP 11 37 32.7			Volcano Islands (h = 120 km).	
		Ud	iP 11 38 01.8 C	"	26	Up	iSgl 13 27 13.7
		De	iP 11 38 23.7			Sk	eSgl 13 27 14
		Aleutian Islands (h = 110 km).					iSg2 13 27 26.6
"	25	Um	i(Sgl) 11 48 17.1			Ud	iSgl 13 26 16.2
"	25	Up	iRg 13 19 50.4			De	eSgl 13 26 05
		Sk	iSgl 13 21 18.3			North Sea, near 57 1/2°N, 4 1/2°E.	
		Ud	iSgl 13 20 23.9			Origin time = 13 23 26.	
		East-central Sweden. Near-surface event.				By combination with Bergen and Kongsberg readings.	
"	25	Up	iRg 14 48 50.0	"	26	Ud	iP 14 57 54.0
		Ud	iSgl 14 49 20.2	"	26	Up	iP 15 16 48.3 C
		East-central Sweden. Near-surface event.					micr sec
"	25	De	iP 16 42 17.9			P	Z' 0.2 1.4
"	26	Ud	iP 02 27 08.6			Ki	iP 15 16 14.3 C
"	26	Um	i(PcP) 07 41 43.8				micr sec
		Ud	iP 07 41 57.8			P	Z' 0.1 1.3
		Japan (h = 40 km).				Sk	iP 15 16 22.6 C
"	26	Up	iSg2 09 44 08.5			Um	iP 15 16 34.0 C
		Sk	eSgl 09 43 20			Ud	iP 15 16 40.7
		Ud	iSgl 09 42 57.9			De	iP 15 16 57.5
			iSg2 09 43 04.4			Nevada.	
		De	iSgl 09 43 47.7			m = 6.0 (Up,Ki).	
		West coast of Norway, 60.1°N, 5.1°E.				Underground explosion.	
		Origin time = 09 40 44.		"	26	Up	iPKPl 15 20 25.3
		By combination with Bergen readings.				Ud	iPKPl 15 20 24.3
"	26	Up	iP 10 34 46.0			De	iPKPl 15 20 37.4 C
		Ud	iP 10 34 56.2				ipPKPl 15 20 48.4
		Japan (h = 60 km).				Tonga Islands. h = 45 km (De).	
"	26	Ki	iP 11 39 15.1	"	26	Up	iRg 16 03 14.0
		(cont.)				Ud	iRg 16 03 26.9
						East-central Sweden. Near-surface event.	
"	26	De	iP 16 11 13.4	"	26	Ud	iP 16 50 47.5
						Kurile Islands.	

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

1974				1974			
Sep.	26	Ud	iPKP1	21 22 20.1	Sep.	27	(cont.)
"	26	Up	iP	21 29 24.4	Sk	iP	03 21 44.7 D
		Ud	iP	21 29 30.4		il	03 21 53.0
		Kurile Islands.				i2	03 22 03.9
"	26	Up	iP	23 02 36.9	Um	iP	03 21 29.2 D
		Ud	iP	23 02 44.6		il	03 21 36.8
		Kurile Islands.				i2	03 21 47.0
"	26	Up	iPKP	23 14 10.1		iS	03 30 47
		Ki	iPKP	23 14 26.7	Ud	iP	03 21 57.4 D
		Um	iPKP	23 14 18.4		il	03 22 05.0
		Ud	iPKP	23 14 07.8		i2	03 22 13.9
		South Sandwich Islands (h = 70 km).			De	iP	03 22 11.0
"	26	Up	iP	23 27 35.6		il	03 22 18.8
		Ki	iP	23 27 03.6		i2	03 22 27.3
		Sk	iP	23 27 32.3	Japan (h = 45 km). m = 5.9(P), 6.2(il), 6.4(i2), M = 6.4 (Up,Ki). Multiple P-phases, in average 7.9 and 18.1 sec after the first onset.		
		Um	iP	23 27 17.2	"	27	Um iP 03 45 53.3
		Ud	iP	23 27 42.2	Alaska (h = 70 km).		
		De	iP	23 27 53.5	"	27	Up iP 04 21 43.9 C
		Bonin Islands (h = 80 km).				iPP	04 25 16.7
"	27	Up	iP	00 19 20.3			micr sec
		Ki	iP	00 19 29.6		P	Z' 0.3 1.5
		Um	iP	00 19 27.5		Mx	E 2.2 23
		Argentina (h = 220 km).				Mx	N 1.9 21
"	27	Um	i	00 29 30.7		Mx	Z 6.0 22
			i(Sgl)	00 29 40.9	Ki	iP	04 21 49.3 C
"	27	Ud	iP	01 15 36.2		iSKS	04 32 14
"	27	Up	iP	03 21 49.8 D			micr sec
			il	03 21 57.7		P	Z' 0.3 1.5
			i2	03 22 09.4		Mx	E 4.9 21
			iS	03 31 27		Mx	N 2.3 21
				micr sec		Mx	Z 5.2 21
			P	Z' 0.2 0.8	Sk	iP	04 21 33.1 C
			il	Z' 0.5 1.0	Um	iP	04 21 49.8 C
			i2	Z' 0.7 0.9		iPP	04 25 19.7
			Mx	E 7.7 20	De	iP	04 21 34.4 C
			Mx	N 9.0 20	Colombia (h = 45 km). m = 6.3, M = 5.8 (Up,Ki).		
			Mx	Z 17 23	"	27	Up iP 05 36 02.3
		Ki	iP	03 21 12.9 D		i	05 36 30.0
			il	03 21 20.9			micr sec
			i2	03 21 32.0		P	Z' 0.5 0.8
			iS	03 30 20	Ki	iP	05 36 01.2
				micr sec			micr sec
			P	Z' 0.1 1.0		P	Z' 0.2 0.8
			il	Z' 0.2 1.0	Sk	iP	05 36 21.9
			i2	Z' 0.4 1.1	Um	iP	05 35 56.7
			Mx	E 21 18	De	iP	05 36 16.3
			Mx	N 13 16	Nepal (h = 70 km). m = 6.4 (Up,Ki).		
			Mx	Z 16 19			
		(cont.)					

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

1974

Sep. 27 } Up iP 05 58 31.0 C
 iS 06 07 31
 iP'P' 06 26 52.2
 micr sec
 P Z' 0.8 0.9
 Mx E 38 15
 Mx N 83 18
 Mx Z 130 17
 Ki iP 05 57 46.7
 i 05 57 47.7
 eS 06 06 06
 micr sec
 P Z' 0.6 1.0
 Mx E 79 16
 Mx N 100 17
 Mx Z 150 17
 Sk iP 05 58 21.6 C
 ipP 05 58 34.5
 Um iP 05 58 06.8 C
 iS 06 06 45
 De iP 05 58 54.7 C
 ipP 05 59 06.0

Kurile Islands.
 h = 45 km (Sk,De).
 m = 6.7, M = 7.2 (Up,Ki).

" 27 Um iPKP 07 03 58.2
 De iPKP 07 04 12.2
 Solomon Islands (h = 400 km).

" 27 Up iP 08 24 01.2
 Ki iP 08 23 16.4
 Sk eP 08 23 52
 Um iP 08 23 36.3
 Ud iP 08 24 07.7
 De iP 08 24 26.2
 Kurile Islands (h = 70 km).

" 27 Up iP 09 19 44.3
 Sk iP 09 19 39.2
 Um iP 09 19 22.9
 Ud iP 09 19 51.0
 De iP 09 20 04.6
 Japan (h = 60 km).

" 27 Up iP 12 19 35.0
 i 12 19 40.0
 Ki iP 12 19 40.7
 i 12 19 47.0
 Sk iP 12 19 24.7
 i 12 19 29.3
 Ud iP 12 19 25.7
 i 12 19 30.6
 De iP 12 19 25.7
 i 12 19 30.6
 (cont.)

1974

Sep. 27 (cont.)
 Colombia (h = 70 km).
 The second, stronger phase
 follows the first after
 5.1 sec in average.

" 27 Up iP 12 21 00.2
 Ki iP 12 20 11.8
 Um iP 12 20 35.6
 ipP 12 20 46.2
 Ud iP 12 21 06.6
 De iP 12 21 24.9
 Kurile Islands.
 h = 40 km (Um).

" 27 Up iPKP 12 36 21.7
 i 12 36 44.8
 Ki iPKP 12 36 37.7
 Um iPKP 12 36 28.3
 Ud iPKP 12 36 19.7
 South Sandwich Islands
 (h = 60 km).

" 27 Um i 13 53 28.6
 iRg 13 53 36.0

" 27 Up iP 15 38 42.9
 Ki iP 15 37 56.9
 Ud iP 15 38 49.2
 Japan (h = 90 km).

" 27 De iP 16 10 55.4

" 27 Up iS* 17 38 57.5
 iSgl 17 39 02.1
 Ki ePgl 17 37 37
 iSn 17 38 14.2
 iSgl 17 38 25.6
 Sk iSgl 17 38 33.7
 Um iPgl 17 36 48.1 C
 iPn 17 36 50.7
 iSgl 17 36 55.4
 Ud iSgl 17 39 22.9
 De eSgl 17 41 02

Västerbotten, Sweden,
 64.3°N, 20.6°E.
 Origin time = 17 36 36.

" 27 Up iP 20 33 31.0
 Ud iP 20 33 38.2
 Greece.

" 28 Up iPKP1 00 02 24.4 D
 i 00 02 33.6
 iSKP1 00 05 11.8
 (cont.)

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

1974

Date	Station	Type	Time	Phase	Time	Time	Notes
1974 Sep. 28	Up			micr	sec		
		PKP1	Z'	0.5	1.0		
	Ki	iPKP		00 02	14.1		
		iSKP1		00 04	51.3		
	Sk	SKP1	Z'	0.5	1.8		
		iPKP		00 02	19.2		
	Um	iSKP1		00 05	06.6		
		i(PKP)		00 02	10.6		
	Ud	iPKP		00 02	13.2		
		i		00 02	21.7		
		iSKP1		00 05	01.6		
		iPKP1		00 02	27.1	D	
	De	i		00 02	35.7		
		ipPKP1		00 04	47.2		
		iSKP1		00 05	13.9		
		iPKP1		00 02	36.7	D	
	Tonga-Kermadec Islands. h = 620 km (Ud,De).	i		00 02	46.3		
		ipPKP1		00 04	53.0		
		Up	eP	01 40	22		
		Sk	eP	01 41	00		
Ud	iP		01 40	28.3			
	i		01 40	06.1		Crete (h = 50 km).	
Ud	iP		08 20	09.4			
	iP		08 20	35.6		Japan (h = 70 km).	
Ud	iP		08 45	55.6			
						Mariana Islands (h = 320 km).	
Ud	iP		10 26	30.6			
	iP		11 47	28.1		South of Panama (h = N).	
Um	iPKP1		14 10	56.1			
	iPKP1		14 11	08.1			
Sk	iP		16 12	28.2			
	iP		16 12	10.2			
	iP		16 12	39.7		Japan (h = 70 km).	
Um	iP		21 04	58.9			
	iP		21 05	27.1		Japan (h = 60 km).	

1974

Date	Station	Type	Time	Phase	Time	Time	Notes
1974 Sep. 28	Ud	iP	21 35	39.9			
" 28	Ud	iP	23 20	24.1	C		Afghanistan-USSR. Intermediate depth.
" 29	Up	iP	06 40	58.8			
		Ki	iP	06 42	00.5		
		Sk	iP	06 41	36.8		
		Ud	iP	06 41	03.7		
		De	iP	06 40	33.0		Crete-Rhodes (h = 55 km).
" 29	Um	iP	14 00	53.4			
		iP	14 00	32.7			
		iP	14 01	01.0		Japan (h = 55 km).	
" 29	Up	iP	15 59	37.6	C		
		i	15 59	42.8			
		iPP	16 01	15.3			
" 29	Ki	P	Z'	0.1	1.1		
		i	Z'	0.5	1.3		
		Mx	E	2.0	9		
		Mx	N	6.6	15		
		Mx	Z	3.7	8		
		iP		15 59	34.9	C	
		i		15 59	40.1		
" 29	Sk	P	Z'	0.1	0.6		
		i	Z'	0.5	0.9		
		Mx	E	7.6	16		
		Mx	N	17	16		
		Mx	Z	8.3	16		
		iP		15 59	59.1		
		i		16 00	04.3		
		iP		15 59	30.1		
		i		15 59	35.5		
		iPP		16 01	37.1		
" 29	Um	iP	15 59	54.3	C		
		i	15 59	59.6			
" 29	De	iP	15 59	55.4	C		
		iPP	16 01	41.7			
" 29	Up	iP	17 54	53.2			
		iP	17 55	02.8			
" 29	Ud	iP	21 51	51.7			Greece-Albania (h = N).
" 29	Ki	iP	23 41	32.7	D		
							(cont.)

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

1974					1974			
Sep.	29	(cont.)			Sep.	30	(cont.)	
		Sk	eP	23 40 50			De	iSn 09 17 35.0
		Um	iP	23 40 59.3				iSgl 09 19 06.5
		Ud	iP	23 40 19.5 D				Northwest USSR.
				Tunisia (h = N).				Explosion.
"	29	Up	iP	23 59 35.0				Included in this bulletin,
		Ki	iP	23 58 43.8 C				as being of unusual size
		Sk	iP	23 59 20.3				with exceptionally clear
		Um	iP	23 59 07.6				phases.
		Ud	iP	23 59 39.6	"	30	Sk	iP 10 03 35.5
				Okhotsk Sea (h = 470 km).			Ud	iP 10 03 28.0
"	30	Up	iP	00 25 24.3			De	iP 10 03 25.9
		Ki	iP	00 24 43.2				Tadzhik SSR (h = 170 km).
		Sk	iP	00 25 16.6	"	30	Ud	iP 13 56 29.9
		Um	iP	00 25 01.4				i 13 57 43.5
		Ud	iP	00 25 31.1	"	30	Up	iP 21 16 17.9
				Japan (h = 50 km).			Ud	iP 21 16 25.1
"	30	Ki	iP	06 08 27.8				Japan (h = 140 km).
		Ud	iP	06 08 13.8	"	30	Up	iSgl 23 57 35.4
				Colombia (h = 20 km).			Ki	iSgl 23 55 22.2
"	30	Up	iP	07 50 16.4			Sk	iSgl 23 55 37.8
			ipP	07 50 28.5			Um	iSn 23 55 41.7
		Ki	iP	07 50 00.9				iSgl 23 55 58.4
			ipP	07 50 11.7				Nordland, Norway,
		Sk	iP	07 50 30.5				66.8°N, 14.0°E.
			ipP	07 50 41.5				Origin time = 23 53 55.
		Um	iP	07 50 02.2				
			ipP	07 50 13.8				
		Ud	iP	07 50 31.4				
				Sinkiang, China.				
				h = 50 km (Up,Ki,Sk,Um).				
"	30	Up	iP	08 27 51.5				
		Sk	eP	08 28 32				
		Ud	iP	08 28 00.5				
				Greece.				
"	30	Ki	iP	08 28 45.4				
				Sumatra.				
"	30	Ki	iPn	09 12 57.5				
			iSn	09 13 54.8				
			iSgl	09 14 15.6				
		Sk	ePn	09 14 01				
			iSn	09 15 45.0				
			iSgl	09 16 43.1				
		Um	iPn	09 13 22.3				
			iPgl	09 13 38.3				
			iSn	09 14 34.1				
			iSgl	09 15 09.6				
		Ud	iPn	09 14 24.1				
			iSn	09 16 29.6				
			iSgl	09 17 36.5				
				(cont.)				

Markus Båth
Klaus Meyer
Rutger Wahlström

April 17, 1976

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

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

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

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

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

O C T O B E R 1 - 31, 1974

1974					1974					
Oct.	1	Up	iP	00 39 17.2	Oct.	1	(cont.)			
				micr sec			Sk	iP	08 43 17.2	
		Mx	E	0.7 12			Um	iP	08 43 02.9	
		Ki		micr sec			Ud	iP	08 43 25.4 D	
		Mx	E	1.0 12			Mariana Islands (h = 50 km).			
		Ud	iP	00 39 20.2			m = 6.1, M = 5.3 (Up,Ki).			
		Ionian Sea (h = 20 km).				"	1	De	iP	11 03 26.0
		M = 4.6 (Up,Ki).								
"	1v	Up	ipP	04 21 03.2	"	1	Up	iP	13 18 28.7	
				micr sec			Ki	iP	13 18 30.7 C	
		pP	Z'	0.1 1.2			Sk	iP	13 18 56.0	
		Mx	E	2.4 18			Um	iP	13 18 24.1	
		Mx	N	4.2 23			Ud	iP	13 18 45.3 C	
		Mx	Z	6.1 18			De	iP	13 18 44.1 C	
		Ki	ipP	04 20 37.9			Tadzhik-Sinkiang (h = N).			
				micr sec		"	1	Up	iSgl	13 55 27.8
		Mx	E	5.0 19			Ud	iPgl	13 54 27.0	
		Mx	N	4.8 19				iSgl	13 54 46.1	
		Mx	Z	3.4 17				iRg	13 54 56.0	
		Sk	ipP	04 21 02.2			De	iSgl	13 55 19.3	
		Um	iP	04 20 32.6			Lake Vänern-Dalsland, Sweden,			
			iSKS	04 31 01			58.8°N, 12.7°E.			
		Ud	iP	04 20 57.2			Origin time = 13 54 03.			
			ipP	04 21 10.3			Near-surface event.			
		Mariana Islands.				"	1	Ud	iP	14 41 04.7
		h = 50 km (Ud).								
		M = 6.0 (Up,Ki).				"	1	Up	i(P)	21 06 51.8
"	1	Up	iP	08 43 19.5	"	1	Up	iSgl	23 52 39.4	
				micr sec			Sk	iSgl	23 50 59.7	
		P	Z'	0.1 1.3			Um	iSgl	23 52 50.5	
		Mx	E	0.7 19			Ud	iSgl	23 51 40.2	
		Mx	N	0.7 19			De	iSgl	23 53 04.3	
		Mx	Z	1.1 20			West coast of Norway,			
		Ki	iP	08 42 52.7 D			62.5°N, 5.1°E.			
				micr sec			Origin time = 23 49 13.			
		P	Z'	0.1 1.1			By combination with Bergen			
		Mx	E	0.7 17			and Kongsberg readings.			
		Mx	N	0.5 15						
		(cont.)								

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

1974				1974						
Oct.	2	Up	iSgl	00 29 48.8	Oct.	2	(cont.)			
		Ki	ePgl	00 26 57			Sk iP	15 06 45.1		
			iSn	00 27 20.0			Ud iP	15 07 05.2 C		
			iSgl	00 27 35.8			De iP	15 07 26.2		
				micr sec			Kamchatka (h = 50 km).			
			Sgl	Z' 0.1 0.5		"	2	Ki iP	18 09 51.7	
		Sk	ePgl	00 27 05				Ud iP	18 10 01.4	
			iSgl	00 27 51.1			Sumatra (h = 90 km).			
		Um	iPn	00 27 08.9		"	3	Sk iP	04 49 43.4	
			iPgl	00 27 19.8			Panama-Colombia (h = N).			
			iSn	00 27 54.6		"	3	Ud iP	06 38 33.1	
			iSgl	00 28 12.4		"	3	Up iP	11 19 22.1	
		Ud	iSgl	00 29 37.0					micr sec	
		Nordland, Norway, 66.7°N, 14.0°E.						P	Z' 0.1 0.7	
		Origin time = 00 26 09.					Ki	iP	11 19 30.7 C	
		Cf Sep. 30, 1974, at 23 57.							micr sec	
"	2	Up	iP	01 07 30.7				P	Z' 0.1 0.6	
		Sk	iP	01 07 20.3			Sk	iP	11 19 47.7	
		Ud	iP	01 07 39.4			Um	iP	11 19 20.4 C	
		De	iP	01 08 02.2			Ud	iP	11 19 38.5 C	
		Eastern Siberia.						ipP	11 20 24.9	
"	2	Up		micr sec			De	iP	11 19 35.1	
		Mx	E	0.9 19			Hindu Kush.			
		Mx	N	0.7 19			h = 230 km (Ud).			
		Mx	Z	1.1 20			m = 5.4 (Up,Ki).			
		Ki	iP	03 08 45.4		"	3	Up iP	14 22 20.8	
				micr sec					micr sec	
		Mx	E	0.8 19				P	Z' 0.1 1.0	
		Mx	N	0.7 18		"	3	Up iP	14 35 28	
		Sk	iP	03 08 32.8				i	14 35 42.2	
		Ud	iP	03 08 34.9				iPP	14 39 52	
		Peru (h = 5 km).						iSKS	14 46 07	
		M = 5.4 (Up,Ki).						iS	14 47 16	
"	2	Up	iP	03 13 48.3					micr sec	
"	2	Sk	iPKPl	03 38 20.6				P	Z' 0.2 1.5	
		Um	iPKPl	03 38 13.1				i	Z' 1.1 2.0	
		Ud	iPKPl	03 38 26.1				Mx	E 200 23	
			i	03 38 32.3				Mx	N 130 23	
		Kermadec Islands.						Mx	Z 510 23	
		Origin time = 03 18 45.					Ki	iP	14 35 37.0	
"	2	Ki	i	04 16 23.8				i(PP)	14 39 35.9	
			iSgl	04 16 28.7				iPP	14 40 11.2	
		Um	i(Sn)	04 17 16.2				iPKKP	14 51 34.7	
			iSgl	04 17 43.8					micr sec	
"	2	Ki	iP	11 06 30.7				P	Z' 0.4 2.0	
"	2	Up	iP	15 07 01.5				(PP)	Z' 2.3 3.0	
		Ki	iP	15 06 09.1				PP	Z' 2.5 2.3	
		(cont.)						Mx	E 240 20	
								Mx	N 110 19	
								Mx	Z 190 18	
		(cont.)						(cont.)		

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

1974		1974	
Oct.	3	Oct.	4
	(cont.)		(cont.)
	Sk iP 14 35 22.1		Ud iP 06 54 46.6
	i(PP) 14 39 10.1		De iP 06 55 07.5
	iPP 14 39 31.8		Kamchatka (h = N).
	iPKKP 14 51 34.4		
	Um iP 14 35 33.7	"	4 Ud iP 07 01 03.6
	i(PP) 14 39 19.5		Hindu Kush.
	iPP 14 40 01		Intermediate depth.
	iPKKP 14 51 36.4		
	iP'P' 14 59 47.5	"	4 Ud iP 15 47 08.4
	Ud iP 14 35 20.2	"	4 Up iP 17 46 43.2
	i 14 35 34.3		ipP 17 46 53.7
	iPKKP 14 51 42.3		micr sec
	De iP 14 35 16.0		Ki pP Z' 0.1 1.0
	Peru (h = 15 km).		Ki iP 17 45 49.2
	m = 7.2, M = 7.8 (Up,Ki).		ipP 17 46 01.9
	Very well developed mantle		micr sec
	surface waves; cf M. Båth		P Z' 0.1 1.2
	and A. López Arroyo, J.		Sk iP 17 46 26.7
	Geophys. Res., 1962, 67:		Um iP 17 46 14.5
	1933-1942.		Ud iP 17 46 45.7
"	3 Up iPP 14 53 51.2		ipP 17 46 57.6
	micr sec		De iP 17 47 06.3
	PP Z' 0.1 1.3		ipP 17 47 18.5
	Peru (h = N).		Kamchatka.
"	3 Ki eP 15 51 36		h = 45 km (Up,Ki,Ud,De).
	Um iP 15 51 40.4		m = 5.8 (Up,Ki).
	Mariana Islands (h = 70 km).	"	4 Up iP 18 06 12.3
"	3 Ki iP 21 34 28.2		Ki iP 18 05 18.0
	i 21 34 51.4		ipP 18 05 28.5
	Ud iP 21 34 00.1		Sk iP 18 05 55.2
"	3 Up iP 21 37 55.3		Ud iP 18 06 15.7
	Dodecanese Islands.		ipP 18 06 26.9
"	4 Up iP 00 30 45.4 C		De iP 18 06 36.7
	Ki iP 00 30 13.5		Kamchatka.
	Sk iP 00 30 41.9 C		h = 40 km (Ki,Ud).
	Um iP 00 30 27.0 C	"	4 Up iP 18 08 43.6
	Ud iP 00 30 52.2 C		Ki iP 18 07 49.6
	ipP 00 32 39.5		ipP 18 08 02.2
	De iP 00 31 03.9		micr sec
	South of Japan.		P Z' 0.1 1.4
	h = 490 km (Ud).		Sk iP 18 08 26.9
"	4 Ki iPKP 04 06 50.6		Ud iP 18 08 47.6
	South Sandwich Islands		De iP 18 09 07.1
	(h = N).		Kamchatka.
"	4 Ki iP 05 42 37.6		h = 45 km (Ki).
	Ud iP 05 42 56.9	"	4 √ Up iP 22 33 03.8
"	4 Ki iP 06 53 48.8		i 22 33 24.0
	(cont.)		iX 22 34 13.0
			iPP 22 34 51.5
			iS 22 39 54
			micr sec
			P Z' 0.9 1.2
			(cont.)

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

1974				1974			
Oct.		(cont.)		Oct.			
	4	Up	micr sec		5	Ud iP	16 13 59.3
		PP	Z' 0.3 1.3			De iP	16 13 54.7
		Mx	E 5.4 19	"	5	Up iP	17 52 10.5
		Mx	N 11 21			Sk iP	17 52 06.8
		Mx	Z 13 13			Um iP	17 51 51.3
		Ki iP	22 33 23.7			Ud iP	17 52 19.2 C
		iX	22 34 22.2			Japan (h = 60 km).	
		iPP	22 35 20.2				
			micr sec	"	5	Ki iP	21 56 54.6
		P	Z' 0.4 1.1			Ud iP	21 57 44.5
		PP	Z' 0.2 1.3	"	5	Ud iP	22 44 53.9
		Mx	E 9.8 16			Kodiak Island (h = 70 km).	
		Mx	N 14 18	"	6	Ud iP	00 49 02.3
		Mx	Z 11 15	"	6	Up iP	01 30 34.7
		Sk iP	22 33 32.2			Ki iP	01 31 04.6
		Um iP	22 33 08.3			Sk iP	01 31 12.3
		iPcP	22 34 40.1			Um iP	01 30 49.8
		iPP	22 34 58.7			Ud iP	01 30 54.1
		iS	22 40 04			De iP	01 30 39.8
		Ud iP	22 33 19.1			Iran.	
		iPP	22 35 18.3	"	6	Up iP	03 07 58.7
		De iP	22 33 09.9			Ud iP	03 07 59.0
		iX	22 34 13.5			Crete.	
		Pakistan (h = N).		"	6	Ud iP	05 08 57.0
		m = 6.3, M = 6.0 (Up,Ki).				De iP	05 09 07.5
		X could be P of another earthquake with different location.		"	6	Ud iP	17 49 57.7
"	4	Ud iP	22 39 37.2			Celebes (h = 220 km).	
"	4	Up iP	22 46 02.3	"	6	Ki iP	20 04 08.4
		P	Z' 0.4 1.5			Um iP	20 04 23.8
		Ki iP	22 45 08.3			Ud iP	20 04 51.4
			micr sec			Japan (h = 70 km).	
		P	Z' 0.2 1.2	"	7	Up iP	10 03 19.6 C
		Sk iP	22 45 45.3			iPcP	10 03 48.1
		Um iP	22 45 34.6			Ki iP	10 02 34.4 C
		Ud iP	22 46 05.5			Sk iP	10 03 10.2
		De iP	22 46 26.1			Um iP	10 02 54.7 C
		Kamchatka (h = 15 km).				Ud iP	10 03 26.2
		m = 6.2 (Up,Ki).				De iP	10 03 44.0
"	4	Up iP	23 24 22.3	"	7	Up eP	11 48 12
		Ki iP	23 24 41.9 C			iPP	11 48 33.0
		Sk iP	23 24 50.4 C				micr sec
		Um iP	23 24 26.2 C			Mx	E 1.0 11
		Ud iP	23 24 37.3 C			Mx	Z 0.4 6
		Pakistan (h = N).				Ki	micr sec
"	5	Ud iP	03 38 34.9			Mx	E 2.2 13
"	5	Up iP	04 44 34.7			Mx	N 0.6 8
		Ki iP	04 43 40.9			Mx	Z 0.7 8
		Kamchatka (h = N).				(cont.)	

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

1974

Oct. 7 (cont.)
 Sk iP 11 48 53.7
 i 11 49 02.8
 Um i(P) 11 49 01.2
 Ud iP 11 48 19.2
 De e(P) 11 47 39
 Ionian Sea (h = 20 km).
 M = 4.7 (Up,Ki).

" 7 Up iP 17 22 54.1
 iPP 17 26 17.2
 Ki iP 17 22 48.5
 Sk iP 17 22 37.9
 Um iP 17 22 54.6
 iPP 17 26 18.3
 Ud iP 17 22 44.9
 De iP 17 22 50.1
 Nicaragua (h = 230 km).

" 7 Up iPKP 22 11 28.4
 i 22 11 31.8
 i(PP) 22 12 41.7
 iX 22 14 14.0
 iY 22 14 40.3
 iPKKP1 22 21 21.5
 i 22 21 24.4
 micr sec
 PKP Z' 0.1 0.7
 Y Z' 0.4 1.2
 Ki iPKP 22 11 44.6
 i(PP) 22 12 54.0
 i(X) 22 14 38.6
 iX 22 14 46.3
 micr sec
 PKP Z' 0.1 0.9
 (PP) Z' 0.2 1.3
 X Z' 2.9 2.1
 Mx N 0.7 18
 Sk iPKP 22 11 34.9
 i 22 11 38.9
 iY 22 14 46.2
 iPKKP 22 22 01.4
 Um iPKP 22 11 37.7
 iX 22 14 32.5
 iY 22 14 47.5
 iPKKP 22 21 54.9
 Ud iPKP 22 11 28.1
 i 22 11 32.7
 i(PP) 22 12 36.1
 i 22 14 37.8
 iY 22 14 41.3
 iPKKP1 22 21 24.8
 De iPKP 22 11 23.1
 i 22 11 27.3
 iY 22 14 35.3
 iPKKP1 22 21 42.5
 (cont.)

1974

Oct. 7 (cont.)
 South Sandwich Islands
 (h = N).
 X and Y are well marked
 phases, though unidentified,
 arriving 30-40 sec ahead of
 calculated times for SKP1
 and SKP, respectively.
 Greater depth may be suggested.
 In fact, with h about 290 km
 and origin time about 21 53 10,
 with unchanged epicenter, all
 our readings can be brought
 into agreement internally,
 also including the observation
 that the surface waves are
 remarkably small.

" 7 Up i(P) 23 49 18.2
 " 8 De iP 00 29 10.3
 " 8 Up i(P) 01 58 00.9
 " 8 Up iP 02 22 18.8
 Ki iP 02 21 55.6
 " 8 Up iP 02 49 58.4
 Um iP 02 49 33.0
 Okhotsk Sea (h = 300 km).
 " 8 Up eP 03 15 29
 Ki iP 03 14 37.6
 iPP 03 15 55.3
 micr sec
 Mx N 0.7 10
 Sk iP 03 15 21.3 C
 Um iP 03 15 01.5
 Ud iP 03 15 38.6
 De iP 03 15 59.4
 Central Siberia (h = N).
 " 8 Up i(Sgl) 07 28 10.3
 " 8 ✓ Up iP 10 02 05.5 D
 iS 10 11 08
 iP'P' 10 30 07.6
 micr sec
 P Z' 1.3 1.3
 P'P' Z' 1.2 2.2
 Mx E 62 25
 Mx N 33 21
 Mx Z 110 22
 Ki iP 10 02 13.9 D
 iS 10 11 24
 iP'P' 10 30 02.3
 (cont.)

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

1974				1974			
Oct.	8	(cont.)		Oct.	8	(cont.)	
		Ki	micr sec			Um	iP 19 53 12.5 C
		P	Z' 3.0 1.7			Ud	iP 19 53 41.2
		P'P'	Z' 0.2 1.4			Japan (h = 55 km).	
		Mx	E 54 20		"	8	Ki iP 22 31 21.3
		Mx	N 42 19				Sk iP 22 31 46.1
		Mx	Z 55 20				Ud iP 22 31 36.3
		Sk	iP 10 01 52.3 D			Tadzhik-Sinkiang (h = N).	
			iP'P' 10 30 14.4		"	8	Ud iP 22 34 04.0
		Um	iP 10 02 13.2 D		"	9	Ud iP 07 20 46.2
			iS 10 11 24		"	9	Up iSgl 07 27 00.9
			iP'P' 10 30 02.6				Sk iSgl 07 27 40.2
		Ud	iP 10 01 53.8 D				Ud iPgl 07 25 20.7
			iS 10 10 53.8				iSn 07 25 52.9
			iP'P' 10 30 08.6				iSgl 07 26 07.8
		De	iP 10 01 53.6 D			Skagerrak, 57.4°N, 9.2°E.	
		Leeward Islands (h = 45 km).				Origin time = 07 24 20.	
		m = 6.9, M = 6.9 (Up,Ki).					
"	8	Up	iP 11 08 26.7			9√	Up iP 07 43 01.2 C
		Ud	iP 11 08 30.9				iX 07 43 52.1
"	8	Ud	iP 11 36 20.6				iS 07 51 56.8
"	8	Up	iP 13 00 29.7				iP'P' 08 11 11.5
		Ki	iP 13 00 37.9				micr sec
		Sk	iP 13 00 16.2				P Z' 0.9 0.8
		Um	iP 13 00 37.6				P'P' Z' 1.1 2.5
		Ud	iP 13 00 17.0				Mx E 29 24
		Leeward Islands (h = 55 km).					Mx N 57 25
"	8	Up	iP 17 12 22.9				Mx Z 70 19
		Ud	iP 17 12 37.9 C			Ki	iP 07 42 14.2 C
"	8	Ud	iP 17 24 10.5				iPcP 07 42 56.8
"	8	Up	iP 18 06 16.1				iS 07 50 26.8
		Um	iP 18 05 39.0				iP'P' 08 11 33.8
"	8	Up	iP 18 17 31.7				micr sec
		Ki	iP 18 17 39.4				P Z' 0.6 1.1
		Sk	iP 18 17 17.6				P'P' Z' 2.5 3.0
		Ud	iP 18 17 20.1				Mx E 46 18
		De	iP 18 17 19.5				Mx N 69 20
		Leeward Islands (h = 45 km).					Mx Z 50 18
"	8	Up	iP 19 20 42.1			Sk	iP 07 42 50.1 C
		Ki	iP 19 20 06.6				iX 07 43 41.2
		Sk	iP 19 20 38.3				eP'P' 08 11 20
		Um	iP 19 20 24.0			Um	iP 07 42 35.9 C
		Ud	iP 19 20 50.9				iPcP 07 43 11.2
		Japan (h = 55 km).					iS 07 51 09.9
"	8	Up	iP 19 53 34.5 C				iP'P' 08 11 23.9
		Ki	iP 19 52 55.9			Ud	iP 07 43 07.0 C
		Sk	iP 19 53 30.1 C				iPcP 07 43 32.2
		(cont.)					iS 07 52 08.4
							eP'P' 08 11 06
						De	iP 07 43 24.5 C
							iPcP 07 43 45.9
						Kurile Islands (h = 50 km).	
						m = 6.8, M = 6.8 (Up,Ki).	

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

1974				1974			
Oct.	9	Sk	iPKP	11 05 58.9	Oct.	10	(cont.)
				Solomon Islands (h = 35 km).			Up
							Mx E 24 19
"	9	Ud	iP	18 25 44.9			Mx N 35 18
				Ionian Sea (h = 40 km).			Mx Z 40 19
"	10	Up	iPKP1	02 05 28.7	Ki	iP1	07 07 14.0
		Ki	iPKP	02 05 20.1		iP2	07 07 18.9
			iSKP1	02 07 53.8		iPP	07 09 34.0
		Ud	iPKP1	02 05 30.0		iS	07 15 50
		De	iPKP1	02 05 41.6			micr sec
				Tonga-Kermadec Islands		P1	Z' 0.1 1.2
				(h = 590 km).		P2	Z' 1.0 1.9
						PP	Z' 1.1 2.5
"	10	Up	iPKP1	02 52 37.9 C		Mx E 72 17	
				micr sec		Mx N 65 17	
			PKP1	Z' 0.1 0.8		Mx Z 35 17	
		Ud	iPKP1	02 52 39.4	Sk	iP1	07 07 48.4
		De	iPKP1	02 52 49.9		iP2	07 07 54.0
				Tonga-Kermadec Islands		iPP	07 10 22.0
				(h = 100 km).	Um	iP1	07 07 32.5
"	10	Ud	iP	06 25 42.3		iP2	07 07 38.1
"	10	Up	iP1	06 59 22.5	Ud	iP1	07 08 03.3
			✓ iP2	06 59 24.5		iP2	07 08 08.8
			✓ iP2	06 59 39.5	De	iP1	07 08 20.5
				micr sec		iP2	07 08 24.4
			P2	Z' 0.8 1.6		iPP	07 11 05.8
		Ki	iP1	06 58 40.5			Japan (h = 45 km).
			✓ iP2	06 58 42.3			m = 5.9(P1), 6.6(P2),
			iPP	07 00 56.5			M = 7.0 (Up,Ki).
			iS	07 07 08			Double P; P2 - P1 = 5.0 sec.
				micr sec	"	10	Sk iP 14 51 04.8
			P2	Z' 0.4 1.3			Ud iP 14 50 55.7
			PP	Z' 0.2 1.7	"	10	De iP 15 35 15.4
		Sk	iP2	06 59 16.3			Kamchatka (h = 50 km).
			iP2	06 59 30.6	"	10	Up iSg1 15 41 15.7
			iPP	07 01 42.9			Um iSg1 15 43 18.2
		Um	iP1	06 58 59.0			Ud iPg1 15 40 30.7
			iP2	06 59 00.8			iSg1 15 40 54.1
		Ud	iP1	06 59 29.3	De	iPg1	15 40 35.8
			iP2	06 59 31.5		iSg1	15 41 02.4
			iP2	06 59 46.7			Västergötland, Sweden,
		De	iP2	06 59 47.6			58.4°N, 14.0°E.
				Japan.			Origin time = 15 40 01.
				h = 55 km (Up,Sk,Ud).	"	10	Up iP 16 17 05.4 C
				m = 6.4 (Up,Ki).			Ki iP 16 17 12.0 C
				Double P; P2 - P1 = 1.9 sec.			Sk iP 16 17 30.3 C
"	10	✓ Up	iP1	07 07 56.7			Um iP 16 17 02.5 C
			iP2	07 08 01.2			Ud iP 16 17 22.0 C
			iS	07 17 00			De iP 16 17 19.5
				micr sec			Afghanistan-USSR (h = 120 km).
			P1	Z' 0.2 1.2	"	10	Ki iP 21 21 51.5 C
			P2	Z' 1.1 1.6			iP 21 22 28.7
				(cont.)			(cont.)

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

1974

Oct. 10 (cont.)
 Um iP 21 21 52.2
 Ud iP 21 22 04.4
 ipP 21 22 42.9
 Tadzhik-Sinkiang.
 h = 180 km (Ki,Ud).

" 10 Up iP 21 45 15.0 C
 micr sec
 P Z' 0.2 0.9
 Ki iP 21 45 14.2 C
 iPP 21 48 50.6
 iS 21 56 03
 micr sec
 P Z' 0.3 0.9
 PP Z' 0.1 1.2
 Mx E 0.8 19
 Mx N 1.3 22
 Mx Z 1.0 18
 Sk iP 21 45 28.3 C
 iPP 21 49 19.0
 Um iP 21 45 11.4 C
 iPP 21 48 52.4
 Ud iP 21 45 24.7 C
 iPP 21 49 04.1
 De iP 21 45 22.9 C
 iPP 21 49 06.3
 Sumatra (h = 20 km).
 m = 6.4 (Up,Ki).

" 11 Ki iPKP2 06 20 46.1
 micr sec
 Mx E 0.8 19
 Mx N 0.7 18
 Mx Z 0.9 20
 Southwest of Macquarie
 Islands (h = N).

" 11 Up Mx 08 50
 micr sec
 Mx E 0.9 23
 Mx N 0.7 19
 Mx Z 1.1 20
 Ki Mx 08 48
 micr sec
 Mx E 1.6 21
 Mx N 1.4 23
 Mx Z 1.5 22
 Southeastern Pacific Ocean
 (h = N).
 M = 5.7 (Up,Ki).

" 11 Up micr sec
 Mx E 1.8 23
 Mx N 2.6 21
 Mx Z 4.2 25
 (cont.)

1974

Oct. 11 (cont.)
 Ki iPKP2 08 54 23.8
 micr sec
 PKP2 Z' 0.1 1.3
 Mx E 2.9 21
 Mx N 2.7 21
 Mx Z 2.4 20

Southwest of Macquarie
 Islands (h = N).
 M = 6.3 (Up,Ki).

" 11 Up iP 09 16 25.0
 i 09 16 30.9
 Ki iP 09 15 54.0
 i 09 15 58.3
 micr sec
 P Z' 0.2 0.9
 Sk iP 09 15 37.7
 Um iP 09 16 11.1
 North of Iceland (h = N).

" 11 Ki iP 13 46 42.0
 Arctic Ocean (h = N).

" 11 Up iP 14 23 44.3 C
 i 14 24 08.6
 micr sec
 P Z' 0.1 0.8
 Mx E 1.4 18
 Mx N 2.6 24
 Mx Z 2.4 14
 Ki iP 14 23 20.7 C
 micr sec
 P Z' 0.1 1.0
 Mx E 2.9 13
 Mx N 1.7 15
 Mx Z 2.5 12
 Sk iP 14 23 48.0
 Um iP 14 23 28.4
 Ud iP 14 23 53.6 C
 De iP 14 24 01.5
 Formosa (h = 45 km).
 m = 5.8, M = 5.8 (Up,Ki).

" 11 Ud iP 17 53 34.3

" 11 Sk iP 18 08 03.6
 Um iP 18 08 13.8
 De iP 18 07 55.7
 Peru (h = 70 km).

" 11 Up iP 18 21 57.3
 Ki iP 18 21 06.5
 Sk iP 18 21 42.5
 Ud iP 18 22 02.0
 De iP 18 22 21.7
 Okhotsk Sea (h = 420 km).

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

1974				1974					
Oct.	11	Um	iPKP1	22 19 33.6 C	Oct.	12	(cont.)		
		Ud	iPKP1	22 19 47.0			Sk	ipP	06 28 26.8
		Kermadec Islands.					Um	iP	06 25 41.6 C
"	12	Ki	iP	01 02 27.7				iS	06 34 32
		Ud	iP	01 03 07.4			Ud	iP	06 26 12.0 C
		Bonin Islands (h = N).						ipP	06 26 21.0
								i(PP)	06 28 39.2
"	12	Up	iP	04 58 44.6 C			De	iP	06 26 29.0
			i	04 59 32.7				ipP	06 26 38.3
			iPP	05 01 23.1			Japan.		
			iS	05 07 56			h = 35 km (Up,Ki,Sk,Ud,De).		
				micr sec			m = 5.9(P), 6.6(PP),		
			P	Z' 0.1 1.0			M = 6.2 (Up,Ki).		
			Mx	E 1.2 20	"	12	Ud	iP	07 45 54.9
			Mx	N 2.0 22	"	12	Ud	iP	10 52 25.8
			Mx	Z 1.7 16	"	12	Um	iP	11 45 56.5
		Ki	iP	04 58 02.3 C			Ud	iP	11 46 36.3
				micr sec			Japan (h = 50 km).		
			P	Z' 0.1 1.4	"	12	Um	i(P)	11 46 32.8
			Mx	E 4.2 18			Ud	iP	11 47 03.1
			Mx	N 3.5 18	"	12	Up	iP	12 44 00.0
			Mx	Z 1.9 18				iX	12 44 14.5
		Sk	iP	04 58 36.4 C					micr sec
		Um	iP	04 58 21.5 C				P	Z' 0.1 1.4
			iS	05 07 12			Ki	iP	12 43 05.9
		Ud	iP	04 58 51.7 C				iX	12 43 18.1
		De	iP	04 59 08.1 C					micr sec
		Japan (h = 25 km).						P	Z' 0.1 1.6
		m = 5.9, M = 5.7 (Up,Ki).					Sk	iP	12 43 33.8
"	12	Ud	iPKP1	05 16 19.8			Um	iP	12 43 33.8
"	12	Up	iP	06 26 04.9				iX	12 43 43.8
			ipP	06 26 14.1			Ud	iX	12 44 03.0
			iPP	06 28 41.9			De	iP	12 44 21.1
			iS	06 35 16			Kodiak Island (h = 10 km).		
				micr sec			m = 5.8 (Up,Ki).		
			P	Z' 0.1 1.2	"	12	Ki	iP	12 56 00.6
			PP	Z' 0.3 1.6					micr sec
			Mx	E 5.8 20				Mx	E 1.2 18
			Mx	N 8.7 22				Mx	N 0.9 18
			Mx	Z 5.6 19				Mx	Z 0.8 16
		Ki	iP	06 25 22.5 C			Um	iP	12 56 18.8
			ipP	06 25 32.6			Ud	iP	12 56 49.8
			iPP	06 27 41.3			Japan (h = 10 km).		
			iS	06 33 57	"	12	Up	iP	16 28 39.6
				micr sec			Ki	iP	16 27 58.2
			P	Z' 0.1 0.9				ipP	16 28 07.8
			PP	Z' 1.1 3.0					micr sec
			Mx	E 18 17				Mx	E 1.2 18
			Mx	N 12 19				Mx	N 0.9 18
			Mx	Z 10 17				Mx	Z 1.0 18
		Sk	iP	06 25 57.4 C			(cont.)		
			ipP	06 26 07.3					
		(cont.)							

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

1974				1974			
Oct.	12	(cont.)		Oct.	13	(cont.)	
		Um	iP 16 28 16.0			Um	iP 02 48 18.7
			ipP 16 28 25.2				iSKS 02 58 50
		Ud	iP 16 28 46.8			Ud	iP 02 48 36.8
			ipP 16 28 55.5			Molucca Passage (h = 40 km).	
			i 16 29 20.9			M = 5.4 (Up,Ki).	
		Japan.					
		h = 35 km (Ki,Um,Ud).			"	13	Um iP 02 51 33.8
							Ud iP 02 51 48.4
"	12	Ki	iP 16 48 07.3		"	13	Ud iP 02 53 54.4
			ipP 16 48 15.5				
		Um	iP 16 48 25.8		"	13	Up iP 10 01 20.0
		Ud	iP 16 48 56.3				Sk eP 10 01 58
		Japan.					Ud iP 10 01 43.3
		h = 30 km (Ki).					De iP 10 01 35.0
"	12	Up	iP 17 53 24.6				Ural Mountains region.
		Ki	iP 17 52 31.3		"	13	Um iP 10 57 11.1
		Um	iP 17 52 56.5				
		Ud	iP 17 53 29.7		"	13	Ki iP 11 36 52.3
		De	iP 17 53 49.3				Um iP 11 36 48.7
		Kamchatka.					ipP 11 37 03.4
"	12	Ud	iPKP 19 17 58.9				Ud iP 11 37 02.6
		De	iPKP1 19 17 58.1				ipP 11 37 17.5
		Fiji Islands (h = 620 km).					Nicobar Islands.
							h = 55 km (Um,Ud).
"	12	Up	iPKP 23 37 30.6		"	13	Ki iSgl 19 29 44.0
			i 23 37 54.8				Sk iSgl 19 32 00.8
		Ki	iPKP 23 37 45.4				Um iPn 19 30 24.2
		Sk	iPKP 23 37 35.3				iPgl 19 30 38.7
		Um	iPKP 23 37 38.7 C				iSgl 19 32 08.0
		Ud	iPKP 23 37 29.2				North Norway.
		De	iPKP 23 37 24.0				By combination with Tromsøe
		South Sandwich Islands					reading.
		(h = N).					Poor internal agreement.
"	13	Up	iP 00 25 57.4		"	13	Up iP 21 38 49.2
		Ki	iP 00 27 02.4				micr sec
		Ud	iP 00 26 03.4				Mx N 2.9 20
		De	iP 00 25 31.3				Mx Z 0.7 18
		Crete (h = N).					Ki micr sec
"	13	Up	iP 02 48 30.1				Mx E 1.5 16
			micr sec				Mx N 1.8 13
		Mx	E 0.9 23				Mx Z 1.2 14
		Mx	N 0.8 22				Sk iP 21 39 08.4
		Mx	Z 0.9 23				Um iP 21 38 39.1
		Ki	iP 02 48 13.4				Ud iP 21 39 03.4
			micr sec				De iP 21 39 07.6
		P	Z' 0.1 1.1				Tibet (h = N).
		Mx	E 0.9 20				M = 5.3 (Up,Ki).
		Mx	N 1.1 20		"	14	Ki iP 04 16 27.9
		Mx	Z 1.2 20				Leeward Islands (h = N).
		Sk	iP 02 48 33.9				(cont.)
		(cont.)					

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

1974		1974																																																																						
Oct.	14	(cont.)	Oct. 15 (cont.)																																																																					
		An earthquake in Yugoslavia (origin time 04 11 16) gives the same arrival time at Ki, whence a fully reliable separation is not possible.	<table border="0"> <tr><td>Up</td><td>ipP</td><td>01 28 10.5</td></tr> <tr><td></td><td>iS</td><td>01 37 11</td></tr> <tr><td></td><td></td><td>micr sec</td></tr> <tr><td></td><td>P</td><td>Z' 0.3 1.5</td></tr> <tr><td></td><td>Mx</td><td>E 1.9 20</td></tr> <tr><td></td><td>Mx</td><td>N 2.4 19</td></tr> <tr><td></td><td>Mx</td><td>Z 2.6 19</td></tr> <tr><td>Ki</td><td>ipP</td><td>01 27 18.7</td></tr> <tr><td></td><td>ipP</td><td>01 27 28.6</td></tr> <tr><td></td><td></td><td>micr sec</td></tr> <tr><td></td><td>P</td><td>Z' 0.1 1.3</td></tr> <tr><td></td><td>Mx</td><td>E 6.9 21</td></tr> <tr><td></td><td>Mx</td><td>N 4.0 17</td></tr> <tr><td></td><td>Mx</td><td>Z 2.7 18</td></tr> <tr><td>Sk</td><td>ipP</td><td>01 27 53.2</td></tr> <tr><td></td><td>ipP</td><td>01 28 02.2</td></tr> <tr><td>Um</td><td>ipP</td><td>01 27 36.8 C</td></tr> <tr><td></td><td>ipP</td><td>01 27 46.3</td></tr> <tr><td></td><td>iS</td><td>01 36 25</td></tr> <tr><td>Ud</td><td>ipP</td><td>01 28 07.3 C</td></tr> <tr><td></td><td>ipP</td><td>01 28 16.7</td></tr> <tr><td>De</td><td>ipP</td><td>01 28 24.1</td></tr> <tr><td></td><td>ipP</td><td>01 28 33.2</td></tr> </table>	Up	ipP	01 28 10.5		iS	01 37 11			micr sec		P	Z' 0.3 1.5		Mx	E 1.9 20		Mx	N 2.4 19		Mx	Z 2.6 19	Ki	ipP	01 27 18.7		ipP	01 27 28.6			micr sec		P	Z' 0.1 1.3		Mx	E 6.9 21		Mx	N 4.0 17		Mx	Z 2.7 18	Sk	ipP	01 27 53.2		ipP	01 28 02.2	Um	ipP	01 27 36.8 C		ipP	01 27 46.3		iS	01 36 25	Ud	ipP	01 28 07.3 C		ipP	01 28 16.7	De	ipP	01 28 24.1		ipP	01 28 33.2
Up	ipP	01 28 10.5																																																																						
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		Um ip 07 58 23.4																																																																						
		Ud ip 07 58 10.6																																																																						
		De ip 07 58 12.0																																																																						
		Peru-Ecuador (h = 160 km).																																																																						
"	14	Ud ip 11 37 32.1																																																																						
		Tadzhik-Sinkiang.																																																																						
"	14	Up ip 14 22 55.7																																																																						
		iS 14 32 07																																																																						
		micr sec																																																																						
		P Z' 0.2 1.5																																																																						
		Mx E 3.1 20																																																																						
		Mx N 4.5 21																																																																						
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		Mx Z 6.4 19																																																																						
	Sk	ip 14 22 50.1																																																																						
	Um	ip 14 22 32.3																																																																						
		iS 14 31 23																																																																						
	Ud	ip 14 23 02.4																																																																						
	De	ip 14 23 19.0																																																																						
		Japan (h = 15 km).																																																																						
		M = 6.0 (Up,Ki).																																																																						
"	14	De ipKP1 14 55 03.7 C																																																																						
		Fiji Islands (h = 550 km).																																																																						
"	14	Up ip 21 13 17.7																																																																						
		Um ip 21 12 54.7																																																																						
		Ud ip 21 13 24.5																																																																						
		Japan (h = 20 km).																																																																						
"	14	Up ipKP1 21 19 55.7																																																																						
		micr sec																																																																						
		PKP1 Z' 0.1 0.7																																																																						
	Um	ipKP1 21 19 44.6																																																																						
		iSKP1 21 22 42.2																																																																						
	Ud	ipKP1 21 19 58.0																																																																						
	De	ipKP1 21 20 07.9																																																																						
		Tonga-Kermadec Islands (h = 460 km).																																																																						
"	15	Up ip 01 28 00.5																																																																						
		(cont.)																																																																						
			<table border="0"> <tr><td>Ki</td><td>ipP</td><td>03 10 46.8</td></tr> <tr><td>Ud</td><td>ipP</td><td>03 12 07.9</td></tr> <tr><td></td><td></td><td>Greenland Sea (h = N).</td></tr> <tr><td>"</td><td>15</td><td>Ki ip 03 24 42.3</td></tr> <tr><td></td><td></td><td>Um ip 03 24 40.6</td></tr> <tr><td>"</td><td>15</td><td>Up ip 06 15 05.7</td></tr> <tr><td></td><td></td><td>Ki ip 06 14 20.2</td></tr> <tr><td></td><td></td><td>Sk eP 06 14 55</td></tr> <tr><td></td><td></td><td>Um ip 06 14 40.7 C</td></tr> <tr><td></td><td></td><td>Ud ip 06 15 11.8 C</td></tr> <tr><td></td><td></td><td>De ip 06 15 29.5 C</td></tr> <tr><td></td><td></td><td>Kurile Islands (h = 80 km).</td></tr> <tr><td>"</td><td>15</td><td>Ki ip 08 19 01.7</td></tr> <tr><td></td><td></td><td>Ud ip 08 19 29.0</td></tr> <tr><td></td><td></td><td>De ip 08 19 37.7</td></tr> <tr><td></td><td></td><td>Mindanao (h = N).</td></tr> <tr><td>"</td><td>15</td><td>Up ip 09 15 37.3</td></tr> <tr><td></td><td></td><td>Sk ip 09 15 59.7</td></tr> <tr><td></td><td></td><td>Um ip 09 15 46.6</td></tr> <tr><td></td><td></td><td>Ud ip 09 15 42.8 C</td></tr> <tr><td></td><td></td><td>i 09 15 49.1</td></tr> </table>	Ki	ipP	03 10 46.8	Ud	ipP	03 12 07.9			Greenland Sea (h = N).	"	15	Ki ip 03 24 42.3			Um ip 03 24 40.6	"	15	Up ip 06 15 05.7			Ki ip 06 14 20.2			Sk eP 06 14 55			Um ip 06 14 40.7 C			Ud ip 06 15 11.8 C			De ip 06 15 29.5 C			Kurile Islands (h = 80 km).	"	15	Ki ip 08 19 01.7			Ud ip 08 19 29.0			De ip 08 19 37.7			Mindanao (h = N).	"	15	Up ip 09 15 37.3			Sk ip 09 15 59.7			Um ip 09 15 46.6			Ud ip 09 15 42.8 C			i 09 15 49.1						
Ki	ipP	03 10 46.8																																																																						
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"	15	Ki ip 03 24 42.3																																																																						
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			Iran.																																																																					

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1974				1974					
Oct.	15	Sk	eP	10 02 01	Oct.	15	Ud	iP	23 42 53.3
		Um	iP	10 01 47.8					
		Ud	iP	10 01 27.5	"	16	Up	iP	05 08 49.1
		Greece (h = N).					iPP	05 10 28.7	
"	15	Sk	i(Sgl)	12 28 09.4			Ki	iP	05 08 51.8
"	15	Ud	iPgl	13 12 30.6			Sk	iP	05 09 13.4
			iSgl	13 12 52.7			iPP	05 10 59.4	
"	15	Up	iP	15 26 58.6			Um	iP	05 08 44.3
		Ki	iP	15 26 05.7			iPP	05 10 20.2	
		Sk	iP	15 26 42.2			Ud	iP	05 09 05.7
		Ud	iP	15 27 02.2			iPP	05 10 49.0	
		De	iP	15 27 23.5			De	iP	05 09 05.4
		Kamchatka.					iPP	05 10 51.2	
		Sinkiang, China (h = N).							
"	15	Up	iP	16 12 42.1	"	16	Up	iP	05 42 16.1
			ipP	16 12 51.7			i	05 42 20.2	
				micr sec			Ki	iP	05 42 24.2
		P	Z'	0.1 1.0			Sk	iP	05 41 53.0
		Ki	iP	16 11 49.6			i	05 42 00.9	
		Ud	iP	16 12 45.2			Um	iP	05 42 29.7
		De	iP	16 13 07.4			Ud	iP	05 41 57.9
		Kamchatka.					De	iP	05 42 04.2
		h = 35 km (Up).					North Atlantic Ocean (h = N).		
"	15	Up	iPKP1	21 47 22.7	"	16	Up	iP1	05 50 57.6 C
			i	21 47 26.8			iP2	05 51 02.1	
			i	21 47 30.7			iP3	05 51 09.3	
				micr sec			iP4	05 51 14.9	
		PKP1	Z'	0.2 1.1			iS	05 55 52	
		Ki	iPKP	21 47 08.2				micr sec	
			i(pPKP)	21 47 24.8			P1	Z'	0.1 1.0
		Sk	iPKP1	21 47 15.7			P2	Z'	0.4 1.2
			ipPKP1	21 47 29.1			P3	Z'	0.4 1.0
		Um	i(PKP1)	21 47 10.1 C			P4	Z'	3.5 1.6
			ipPKP1	21 47 11.0			Mx	E	83 17
			i	21 47 14.7			Mx	N	120 17
			ipPKP1	21 47 25.0			Mx	Z	220 18
		Ud	i(PKP1)	21 47 22.8			Ki	iP1	05 51 08.0 C
			ipPKP1	21 47 24.6			iP3	05 51 20.6	
			i	21 47 28.6			iP4	05 51 24.5	
			i	21 47 33.6				micr sec	
		De	iPKP1	21 47 32.9 C			P1	Z'	0.1 1.0
			ipPKP1	21 47 45.8			P3	Z'	0.5 1.1
		Kermadec Islands.					P4	Z'	2.5 1.8
		h = 45 km (Sk,Um,De).					Mx	E	210 22
		Complex beginning (Up,Um,Ud).					Mx	N	120 16
							Mx	Z	150 21
"	15	Sk	iPKP1	22 26 03.1			Sk	iP1	05 50 34.9 C
		Um	iPKP1	22 25 56.9			iP3	05 50 46.8	
		Ud	iPKP1	22 26 06.0			Um	iP1	05 51 06.5 C
		Kermadec Islands.					iP2	05 51 12.6	
"	15	Up	iP	22 36 32.6			Ud	iP1	05 50 39.2 C
		Ud	iP	22 36 39.7			iP3	05 50 51.8	
							iP4	05 50 57.9	
							De	iP1	05 50 45.7 C
							(cont.)		

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

1974				1974			
Oct.	16	(cont.)		Oct.	16	(cont.)	
		De	iP3 05 50 57.9			Up	micr sec
			iP4 05 51 02.4			Mx	N 1.1 15
			North Atlantic Ocean (h = N).			Mx	Z 1.7 21
			m = 5.6(P1), 6.0(P2), 6.2(P3),			Ki	iP 09 40 21.6 C
			6.8(P4), M = 6.8 (Up,Ki).				micr sec
			Multiple rupture: P2 - P1			P	Z' 0.2 1.1
			= 5.3 sec, P3 - P1 = 12.2 sec,			Mx	E 3.6 22
			P4 - P1 = 17.3 sec.			Mx	N 2.6 19
						Mx	Z 2.3 18
"	16	Up	i(P) 05 59 21.7			Sk	iP 09 40 56.0 C
		Um	e(P) 05 59 24				iPP 09 43 27.3
						Um	iP 09 40 40.1 C
"	16	Up	iP 06 39 55.3 C			Ud	iP 09 41 10.4 C
			iPn 06 40 58.4			De	iP 09 41 26.6 C
			iPP 06 41 13.5				Japan.
			micr sec				h = 35 km (Up).
			P Z' 0.3 0.5				m = 6.2, M = 5.5 (Up,Ki).
		Ki	iP 06 39 38.4 C				
			micr sec	"	16	Up	iP 11 10 29.7 D
			P Z' 0.4 1.0				micr sec
		Sk	iP 06 40 10.2 C			P	Z' 0.1 0.7
			iPP 06 40 33.0			Ki	iP 11 09 58.2 D
		Um	iP 06 39 39.9 C				iPP 11 12 50.3
		Ud	iP 06 40 11.3 C				micr sec
		De	iP 06 40 18.8 C			P	Z' 0.1 0.8
			iPn 06 41 42.7			Sk	iP 11 10 27.0 D
			Kazakh SSR.				iPP 11 13 34.8
			m = 6.4 (Up,Ki).			Um	iP 11 10 11.9 D
			Underground explosion.			Ud	iP 11 10 36.8 D
							iPP 11 13 49.2
"	16	Um	iP 06 45 20.0			De	iP 11 10 48.5 D
							Bonin Islands (h = 440 km).
"	16	Up	iPn 08 14 49.4				m = 5.6 (Up,Ki).
			i 08 15 13.5				
			i 08 15 16.4	"	16	Up	i(P) 12 53 45.4
			iSgl 08 16 24.8			De	iP 12 54 19.6
		Sk	iSgl 08 16 52.9				
		Um	iSgl 08 18 06.0	"	16	Up	i(P) 13 39 04.1
		Ud	iPn 08 14 40.1			Um	i(P) 13 38 39.9
			iSgl 08 15 42.7				
		De	iPn 08 14 21.2	"	16	Ud	iPgl 13 51 45.6
			iPgl 08 14 27.1				iSgl 13 52 10.1
			iSgl 08 15 15.6				iRg 13 52 24.2
			Skagerrak,			De	iPgl 13 51 49.0
			near 57 1/2°N, 7 1/2°E.				iSgl 13 52 16.1
			Origin time = 08 13 28.				iRg 13 52 29.0
			By combination with Bergen				Västergötland, Sweden.
			and Kongsberg readings.				Origin time = 13 51 15.
							Near-surface event.
"	16	Up	iP 09 41 03.8 C				
			iPP 09 41 13.2	"	16	Ki	iPKP 15 08 02.8
			iPP 09 43 39.8			Um	iPKP1 15 08 14.0
			micr sec			Ud	iPKP1 15 08 25.5
			P Z' 0.2 0.9				Kermadec Islands.
			Mx E 1.3 22				
			(cont.)				

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

1974										1974										
Oct.	18	(cont.)								Oct.	19	Ki	iP	15 10 00.6						
		Ud	iP	22 00 37.8										North Atlantic Ocean (h = N).						
		South of Japan (h = 15 km).																		
"	19	Um	iP	00 17 21.0						"	19	Ud	iP	23 15 59.5						
		South of Japan (h = 130 km).																		
"	19	Ud	iP	04 01 52.5						"	20	Ki	iP	01 20 07.6						
												Ud	iP	01 20 33.9						
"	19	Up	iPKP	04 05 25.3						"	20	Sk	iP	05 03 04.9						
		Ki	iPKP	04 05 11.1 C								Colombia (h = 50 km).								
		Sk	iPKP	04 05 22.4						"	20	Ud	iPKP1	05 27 49.7						
		Um	iPKP	04 05 17.4								De	iPKP1	05 28 01.3 C						
			iSKP1	04 08 20.5							Tonga-Kermadec Islands									
		Ud	iPKP	04 05 27.4 C							(h = 570 km).									
			iSKP1	04 08 33.0						"	20	Up	iP	11 30 28.7						
		De	iPKP	04 05 33.1										micr	sec					
			iSKP1	04 08 49.4										P	Z'	0.1	1.0			
		New Hebrides Islands																		
		(h = 170 km).																		
"	19	Up	iP	04 08 20.2										Mx	E	3.4	18			
				micr	sec									Mx	N	1.2	14			
			P	Z'	0.1	1.0								Mx	Z	2.7	18			
		Ki	iP	04 07 45.0 C								Ki	iP	11 31 47.9						
				micr	sec									micr	sec					
			Mx	E	1.0	16								Mx	E	5.2	12			
			Mx	N	1.0	16								Mx	N	1.7	9			
			Mx	Z	0.8	16								Mx	Z	1.7	9			
		Sk	iP	04 08 15.5								Sk	iP	11 31 08.8						
		Um	iP	04 08 00.2 C									i	11 31 19.4						
		Ud	iP	04 08 27.0								Um	iP	11 31 11.2						
		De	iP	04 08 40.1									i	11 31 15.9						
		South of Japan (h = 25 km).																		
"	19	Up	iP	06 58 46.5										Ud	iP	11 30 33.3				
			i	06 58 50.8										De	iP	11 30 02.1				
				micr	sec									Ionian Sea (h = N).						
			Mx	N	1.2	22								M = 5.1 (Up,Ki).						
			Mx	Z	1.7	21							"	20	Up	iP	11 54 07.4			
				micr	sec												micr	sec		
		Ki	iP	06 58 35.9													P	Z'	0.1	1.1
				micr	sec															
			P	Z'	0.1	1.1														
			Mx	E	1.1	17														
			Mx	N	1.2	18														
		Sk	iP	06 58 57.6																
		Um	iP	06 58 39.1																
		Ud	iP	06 58 57.9																
		De	iP	06 59 02.2																
		Celebes (h = 70 km).																		
		M = 5.6 (Up,Ki).																		
"	19	Up	iP	09 51 05.7																
		Ki	iP	09 50 17.6																
		Um	iP	09 50 39.8 C																
		Ud	iP	09 51 10.9																
		Kurile Islands (h = 170 km).																		
"	19	Up	iP	09 51 05.7																
		Ki	iP	09 50 17.6																
		Um	iP	09 50 39.8 C																
		Ud	iP	09 51 10.9																
		Kurile Islands (h = 170 km).																		

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

1974					1974				
Oct.	20	Up		micr sec	Oct.	21	Up	i(P)	06 10 25.4
		Mx	N	0.9 20		"	21	Up	iSgl 10 09 33.7
		Mx	Z	1.4 21				Sk	eSgl 10 10 07
		Ki		micr sec				Ud	i 10 08 20.5
		Mx	E	1.1 20					iSgl 10 08 24.2
		Mx	N	0.8 19				De	iSgl 10 08 55.0
		Ud	iPKP	19 58 16.2				Probably Skagerrak.	
		De	iPKP	19 58 20.8		"	21	Up	iP 12 58 36.5
		Solomon Islands (h = 45 km).							micr sec
		M = 5.5 (Up,Ki).						P	Z' 0.2 1.0
"	21	Up	Mx	03 42			Ki	iP	12 57 42.3
				micr sec					micr sec
		Mx	E	1.1 19				P	Z' 0.2 0.9
		Mx	N	1.0 22			Sk	iP	12 58 19.4 C
		Mx	Z	1.4 20			Um	iP	12 58 07.5 C
		Ki	Mx	03 43			Ud	iP	12 58 39.5
				micr sec			De	iP	12 59 01.5 C
		Mx	E	0.8 18			Kamchatka (h = N).		
		Mx	N	1.3 19			m = 6.2 (Up,Ki).		
		Mx	Z	1.0 18		"	21	Up	iP 14 53 41.9
		South Pacific Ocean						Sk	iP 14 54 15.9
		(h = N).						Um	iP 14 54 20.1
		M = 5.9 (Up,Ki).						Ud	iP 14 53 41.9
"	21	Up	iSgl	04 23 24.4				De	iP 14 53 06.3
			i	04 23 31.7			Tyrrhenian Sea (h = 320 km).		
		Sk	iSgl	04 23 56.1		"	21	Ki	micr sec
		Um	iPn	04 22 58.0				Mx	E 0.9 18
			iSgl	04 23 32.6				Mx	N 0.8 17
		Ud	iSgl	04 23 46.5				Ud	iP 15 19 10.4
		Off coast of Hälsingland,					Japan (h = N).		
		Sweden, 61.8°N, 17.6°E.				"	21	Ki	i(Pgl) 16 39 09.9
		Origin time = 04 22 20.							i(Sn) 16 39 40.1
"	21	Up	iPKP	04 30 37.1			Off coast of north Norway.		
			iSKP1	04 33 23.3			By combination with Tromsøe		
				micr sec			reading.		
		PKP	Z'	0.1 1.2		"	21	Ki	i(Pgl) 16 59 10.9
		SKP1	Z'	0.1 1.1					i(Sn) 16 59 40.9
		Ki	i(PKP)	04 30 19.4			Off coast of north Norway.		
			iPKP	04 30 29.0			By combination with Tromsøe		
			iSKP1	04 32 57.0			readings.		
				micr sec		"	21	Um	iPKP1 17 30 41.6
		SKP1	Z'	0.8 1.7				Ud	iPKP1 17 30 53.4
		Sk	i(PKP)	04 30 30.9		"	21	Um	iPKP1 18 48 08.4
			iPKP	04 30 40.9				Ud	iPKP1 18 48 20.4
			iSKP1	04 33 15.5		"	21	Um	iPKP1 19 57 18.2
		Um	i(PKP)	04 30 32.3					
			iPKP	04 30 36.7		"	21	Um	iPKP1 19 57 18.2
			iSKP1	04 33 10.5					
		Ud	i(PKP)	04 30 36.3		"	21	Um	iPKP1 19 57 18.2
			iPKP	04 30 40.0					
			iSKP1	04 33 24.6		"	21	Um	iPKP1 19 57 18.2
		De	iPKP	04 30 45.1					
			iSKP1	04 33 34.8		"	22	Ki	eP 00 35 26
		Fiji Islands (h = 600 km).					Timor (h = 90 km).		

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

1974				1974			
Oct.	22	Ud	iPKP1	04 08 33.3	Oct.	22	(cont.)
		De	iPKP1	04 08 43.6			Up
							micr sec
"	22	Up	iP	05 10 54.9			P
			i	05 10 59.4			Z' 0.1 1.2
				micr sec			Mx E 1.7 18
			P	Z' 0.2 1.5			Mx N 1.2 14
			Mx	E 1.1 19			Mx Z 3.9 22
			Mx	N 1.1 15			Ki eP 12 10 46
			Mx	Z 2.6 19			i 12 10 58.9
		Ki	iP	05 10 51.3			micr sec
				micr sec			P Z' 0.5 2.5
			P	Z' 0.2 1.7			i Z' 0.6 2.4
			Mx	E 2.9 13			Mx E 5.2 13
			Mx	N 2.0 11			Mx N 3.8 16
			Mx	Z 1.8 12			Mx Z 4.4 14
		Sk	iP	05 10 21.8			Sk iP 12 10 16.3
		Um	iP	05 10 57.5 C			Um iP 12 10 53.3
			iS	05 14 51			iS 12 14 48
		Ud	iP	05 10 38.3			Ud iP 12 10 34.9
		De	iP	05 10 57.0			Southwest of Iceland
				Southwest of Iceland			(h = N).
				(h = N).			m = 5.1, M = 4.9 (Up,Ki).
				m = 5.1, M = 4.7 (Up,Ki).			" 22 Up iP 17 56 48.4
"	22	Ud	iP	06 18 17.9			micr sec
			i	06 18 24.6			P Z' 0.1 1.0
				North Atlantic Ocean (h = N).			Ki iP 17 56 53.7
"	22	Um	i(P)	07 34 26.8			Sk iP 17 57 12.5 C
		Ud	iP	07 33 43.8			Um iP 17 56 42.5
				Ionian Sea (h = N).			Ud iP 17 57 04.6 C
							ipP 17 57 33.4
"	22	Um	iP	08 50 55.8			Tadzhik SSR.
		Ud	iP	08 51 22.2			h = 140 km (Ud).
				South of Japan (h = N).			" 22 Ki iP 22 26 30.2
"	22	Um	iP	09 17 33.4			Ud iP 22 26 44.3
				Sumatra (h = N).			Tadzhik-Sinkiang (h = 260 km).
"	22	Ki	iP	09 29 24.9			" 22 √ Up iP 22 58 13.3 D
				micr sec			iS 23 08 30
			P	Z' 0.2 1.9			micr sec
			Mx	E 0.6 14			P Z' 0.1 1.0
			Mx	N 0.7 15			Mx E 3.2 17
		Um	iP	09 29 23.5			Mx N 5.0 23
		Ud	iP	09 29 32.0			Mx Z 7.0 16
				Sumatra (h = 80 km).			Ki iP 22 57 55.1
"	22	Ud	iP	10 18 52.9			micr sec
"	22	Ud	iPKP1	11 11 28.6			Mx E 6.9 18
"	22	Up	iP	12 10 53.8			Mx N 5.5 19
			iS	12 14 48			Mx Z 6.9 18
				(cont.)			Sk iP 22 58 19.9
							Um iP 22 58 02.4 D
							iS 23 08 13
							Ud iP 22 58 22.0 D
							Mindoro (h = 40 km).
							M = 6.1 (Up,Ki).

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

1974				1974			
Oct.	23	Ud	iP	02 10 08.2	Oct.	24	(cont.)
		Crete.				Up	micr sec
"	23	Up	i(PKP)	06 33 40.7		P	Z' 0.1 0.8
			iPKP	06 33 47.6		Ki	iP 05 37 51.6 C
			iPP	06 35 08.2			micr sec
				micr sec		P	Z' 0.1 0.6
		PP	Z'	2.1 2.5		Sk	iP 05 38 23.5 C
		Mx	E	41 22		Um	iP 05 38 07.6 C
		Mx	N	110 23		Ud	iP 05 38 35.7 C
		Mx	Z	79 20		De	iP 05 38 49.1
		Ki	i(PKP)	06 33 33.5		Japan (h = 60 km).	
			iPKP	06 33 43.4		m = 5.9 (Up,Ki).	
			iPP	06 34 23.0	"	24	Up
				micr sec			iP 07 42 47.6
		PKP	Z'	0.1 1.0			ipP 07 42 53.4
		PP	Z'	0.7 2.2			micr sec
		Mx	E	89 23			pP Z' 0.1 0.8
		Mx	N	90 22			Mx E 0.8 16
		Mx	Z	53 19			Mx N 0.8 17
		Sk	i(PKP)	06 33 38.4			Mx Z 1.1 16
			iPKP	06 33 49.3		Ki	iP 07 42 11.9 C
			iPP	06 35 04.6			ipP 07 42 18.0
		Um	iPKP	06 33 42.5			micr sec
			iPP	06 34 35.4			P Z' 0.1 1.2
		Ud	iPKP	06 33 50.6			Mx E 1.1 15
			iPP	06 35 18.8			Mx N 1.2 16
		De	i(PKP)	06 33 48.1			Mx Z 0.9 16
			iPKP	06 33 56.4		Sk	iP 07 42 42.7
			iPP	06 35 34.9		Um	iP 07 42 27.7 C
		D'Entrecasteaux Islands					ipP 07 42 33.3
		(h = 50 km).					iS 07 52 03
		m = 7.2, M = 7.4 (Up,Ki).				Ud	iP 07 42 54.7 C
							ipP 07 43 00.4
"	23	Ki	iPKP1	11 46 24.0		De	iP 07 43 08.6
		West of Macquarie Islands					ipP 07 43 13.4
		(h = N).				South of Japan.	
"	23	Ud	iP	11 57 34.7		h = 20 km (Up,Ki,Um,Ud,De).	
		North of Ascension Island				m = 5.9, M = 5.4 (Up,Ki).	
		(h = N).			"	24	Up
"	23	Ud	iP	12 11 49.5			i(Sgl) 11 08 08.2
"	23	De	iP	13 45 47.1	"	24	Up
"	23	Ud	ipPKP	15 14 42.5			micr sec
		De	iPKP	15 14 24.5			Mx N 1.4 19
			ipPKP	15 14 52.0		Ki	iP 14 33 24.6
		New Hebrides Islands.				Ud	iP 14 33 57.1
		h = 100 km (De).				Formosa (h = 55 km).	
"	24	Up	iP	05 38 28.4 C	"	24	Ki
			i	05 38 40.6			iP 16 16 58.9
		(cont.)					Um
							iP 16 16 53.7
							Ud
							iP 16 17 12.5
							De
							iP 16 17 12.0
						Kirghiz SSR (h = N).	
"	24	Up	iP	05 38 28.4 C	"	25	Up
			i	05 38 40.6			iP 00 18 05.0
		(cont.)					i 00 18 45.6
						(cont.)	

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

1974				1974			
Oct.	25	(cont.)		Oct.	27	Um	i(pPKP1) 00 23 10.4
		Up				Ud	iPKP1 00 23 14.0
		P	Z' 0.1 1.3				i(pPKP1) 00 23 26.1
		Ki	iP 00 17 52.9				i 00 23 42.6
			i 00 18 44.1			De	iPKP1 00 23 21.5
		P	Z' 0.5 1.7	"	27	Um	iPKP1 00 49 12.5
		Sk	iP 00 17 47.1				ipPKP1 00 49 28.5
			i 00 18 32.3			Ud	ipPKP1 00 49 40.7
		Um	iP 00 18 01.8	"	27	Up	iP 02 39 59.7
			i 00 18 55.1			Ki	iP 02 39 12.9
		Ud	iP 00 17 55.6			Um	iP 02 39 37.3
		De	iP 00 18 04.5				ipP 02 40 21.4
		Mexico (h = 120 km).				Ud	iP 02 39 59.8
		m = 5.9 (Up,Ki).				Japan.	
"	25	Ud	iP 03 52 54.5			h = 190 km (Um).	
"	25	Ki	iP 07 30 30.8	"	27	Ki	iP 03 30 46.6
		Um	iP 07 30 46.6 C			Ud	iP 03 30 57.8
		Ud	iP 07 31 14.6			Pamir.	
		Japan (h = 60 km).		"	27	Up	iP 03 51 51.6
"	25	Up	iP 11 49 00.4			Ud	iP 03 52 08.1
			iS 11 53 20.9			Tadzhik SSR (h = 35 km).	
		Ki	iP 11 50 09.1	"	27	De	iPKP1 05 10 33.0
		Sk	iP 11 49 39.9			Loyalty Islands (h = 100 km).	
		Ud	iP 11 49 06.7	"	27	Up	iP 07 43 35.3
			iS 11 53 38.2			Ud	iP 07 43 51.9
		De	iP 11 48 33.6	"	27	Up	iP 08 57 48.6
			iS 11 52 39.1			Ki	iP 08 59 00.9
		Crete (h = 45 km).				Sk	iP 08 58 28.2
"	25	Up	iP 15 51 22.8 C			Um	iP 08 58 21.5
						Ud	iP 08 57 56.3
		P	Z' 0.1 0.8			De	iP 08 57 27.4
		Ki	iP 15 50 38.4 C			Crete (h = 70 km).	
				"	27	Up	iPKP1 13 06 42.8
		P	Z' 0.1 0.9				micr sec
		Sk	iP 15 51 12.9				PKP1 Z' 0.1 0.9
		Um	iP 15 50 58.4 C			Um	i(PKP1) 13 06 37.2
		Ud	iP 15 51 29.3			Ud	iPKP1 13 06 45.0
		Japan (h = 45 km).		"	27	Ud	iP 22 53 29.7
		m = 5.9 (Up,Ki).				Hindu Kush.	
"	26	Up	iP 14 20 08.9			Intermediate depth.	
		De	eP 14 20 18	"	28	Ud	iSgl 15 08 42.9
"	27	Up	iPKP1 00 01 40.5 C			De	iSgl 15 06 52.8
		Sk	iPKP1 00 01 34.4 C	"	28	Up	iSgl 21 58 25.7
		Um	iPKP1 00 01 28.3 C			Sk	iSgl 21 59 40.8
			ipPKP1 00 01 42.9			(cont.)	
		Ud	iPKP1 00 01 41.4				
		Kermadec Islands.					
		h = 50 km (Um).					

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

1974

1974

Oct. 28 (cont.)
 Um iSgl 22 00 24.6
 Ud iSgl 21 57 53.8
 De iPgl 21 56 51.3
 iSgl 21 57 08.0
 iSn 21 57 10.6
 Halland, Sweden,
 57.4°N, 12.1°E.
 Origin time = 21 56 29.
 Felt.

Oct. 29 (cont.)
 Ki iSKS 03 38 25
 iS 03 39 32
 iPKKP1 03 43 57.4
 iPKKP2 03 44 18.5
 micr sec
 P Z' 0.5 1.3
 PP Z' 2.8 2.3
 PKKP1 Z' 0.8 2.3
 Mx E 11 20
 Mx N 29 22
 Mx Z 9.9 18

" 29 Up iP 01 08 48.1
 i 01 14 12.6
 micr sec
 P Z' 0.1 1.0
 Mx N 4.8 11
 Mx Z 7.3 12
 Ki iP 01 10 24.2
 micr sec
 P Z' 0.1 1.5
 Mx E 2.1 8
 Mx N 3.8 11
 Mx Z 3.2 11
 Sk iP 01 09 41.6
 Um iP 01 09 32.6
 Ud iP 01 08 54.7
 i 01 14 18.0
 De iP 01 08 09.0
 i 01 12 22.0
 Yugoslavia (h = N).
 m = 5.0, M = 5.2 (Up,Ki).

Sk iP 03 28 22.5
 i(PP) 03 32 32.3
 iPP 03 32 57.8
 iPKKP1 03 43 43.1
 iPKKP2 03 43 59.1
 Um iP 03 28 06.4
 i(PP) 03 31 30.1
 iPP 03 32 33.1
 iSKS 03 38 29.6
 iS 03 39 41
 iPKKP1 03 43 51.5
 Ud iP 03 28 25.1
 i 03 28 30.5
 i(PP) 03 31 58.0
 iPP 03 33 02.6
 iPKKP1 03 43 40.4
 iPKKP2 03 43 58.1
 De iP 03 28 30.5
 i(PP) 03 32 03.1
 i 03 32 32.4

" 29 Up iP 03 22 03.5
 Ki iP 03 22 12.6
 Sk iP 03 21 52.1
 Um iP 03 22 17.3
 Ud iP 03 21 53.1
 Venezuela (h = N).

Banda Sea (h = 120 km).
 m = 7.1, M = 6.4 (Up,Ki).
 M uncorrected for focal depth.
 Clear cases of (PP), i.e.
 early PP, as well as of PKKP1
 and PKKP2.

" 29 Up iP 03 28 17.1
 i(PP) 03 32 29.2
 iPP 03 32 49.5
 iSKS 03 38 39.8
 i 03 39 27.3
 iSP 03 41 42
 iPKKP1 03 43 47.8
 iPKKP2 03 44 02.7
 micr sec
 P Z' 0.1 0.9
 PP Z' 0.4 1.4
 Mx E 8.4 20
 Mx N 19 21
 Mx Z 11 22
 Ki iP 03 28 01.5
 i(PP) 03 32 12.8
 iPP 03 32 24.0
 (cont.)

" 29 Um iP 04 44 31.6
 Japan (h = 9 km).
 " 29 Ud iP 05 57 31.6
 " 29 Um iP 06 42 23.0
 Ud iP 06 42 54.6
 " 29 Up iPKP1 10 10 59.4
 micr sec
 PKP1 Z' 0.1 1.2
 Ki iPKP1 10 10 57.7
 micr sec
 PKP1 Z' 0.1 1.0
 Sk iPKP2 10 11 11.5
 Um iPKP1 10 10 57.3
 Ud iPKP2 10 11 09.5 C
 (cont.)

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

1974				1974			
Oct.	29	(cont.)		Oct.	30	(cont.)	
		De	iPKP1 10 11 01.1			Ki	micr sec
			i 10 11 08.2			Mx	N 9.9 18
		South of Australia (h = N).				Mx	Z 10 20
"	29	Ki	iPgl 10 36 12.8			Sk	iP 16 19 11.5
			iSgl 10 36 50.1			Um	iP 16 18 53.2
		Sk	iSgl 10 36 54.5			Ud	iP 16 19 20.1
		Um	iPgl 10 36 28.8				i 16 19 23.7
			iSn 10 37 03.6				ipP 16 19 32.6
			iSgl 10 37 18.1			De	iP 16 19 32.7
		Ud	iSgl 10 38 45.3				ipP 16 19 44.1
		Nordland, Norway, 66.4°N, 14.2°E. Origin time = 10 35 22. Explosion?				Ryukyu Islands. h = 45 km (Up,Ud,De). m = 5.7, M = 6.3 (Up,Ki).	
"	29	Ki	iP 11 10 54.1	"	30	Up	iP 18 03 23.2 D
		Um	i(pP) 11 11 20.4			Ki	iP 18 02 52.0
		Ud	i(pP) 11 11 46.6				micr sec
		Japan (h = 45 km).					P Z' 0.1 1.0
"	30	Ki	iP 00 15 32.1			Sk	iP 18 03 20.3
		Mexico (h = 80 km).				Um	iP 18 03 05.8 D
"	30	Sk	iSgl 00 17 46.2			Ud	iP 18 03 30.2 D
		Ud	iSgl 00 16 23.1			De	iP 18 03 41.1
		De	iSgl 00 16 14.6			Bonin Islands (h = 420 km).	
"	30	Ki	iP 02 41 45.4			Up	iP 21 57 29.0
		Ud	iP 02 42 00.0			Ki	iP 21 57 15.6
		De	iP 02 41 59.0			Sk	iP 21 57 36.0
		Kashmir (h = 100 km).				Um	iP 21 57 20.0 D
"	30						ipP 21 59 35.0
						Ud	iP 21 57 38.3 D
						De	iP 21 57 43.4
						Celebes Sea. h = 630 km (Um).	
"	30	Ki	iP 04 43 30.6	"	31	Ki	iP 00 43 30.6
		Ud	iP 04 43 50.4			Um	iP 00 43 47.7 C
		Celebes (h = 110 km).				Japan (h = 60 km).	
"	30	Ki				Up	iP 05 15 09.5
			micr sec				micr sec
		Mx	E 0.8 18				P Z' 0.1 0.9
		Mx	N 0.3 12			Ki	iP 05 14 16.2
		Ud	iP 10 44 49.8			Sk	iP 05 14 50.3
		Japan (h = 20 km).				Um	iP 05 14 47.3
"	30	Up	iP 16 19 11.4			Ud	iP 05 15 09.9
			i 16 19 14.8			Aleutian Islands (h = 70 km).	
			ipP 16 19 23.5				
			micr sec			Up	iP 06 47 57.2
		P	Z' 0.1 1.3			Um	iP 06 47 31.6
		Mx	E 6.9 16			Okhotsk Sea (h = 430 km).	
		Mx	N 4.8 16				
		Mx	Z 14 16				
		Ki	iP 16 18 40.1	"	31	Ki	
			micr sec				micr sec
		P	Z' 0.1 1.0			Mx	E 0.7 19
		Mx	E 13 19			Mx	N 0.8 19
		(cont.)				Mx	Z 0.9 19
						(cont.)	

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

1974

Oct. 31 (cont.)
 Ud iPKP1 07 05 58.4
 De iPKP1 07 06 10.2
 Tonga Islands (h = N).

" 31 Ki iP 09 14 22.7
 Um iP 09 14 22.4
 i 09 14 30.9
 Ud iP 09 14 33.1
 Sumatra.

" 31 Up iP 09 55 46.2
 Ki iP 09 55 14.1
 Sk iP 09 55 44.3
 Um iP 09 55 29.7
 Ud iP 09 55 53.6
 Bonin Islands (h = 70 km).

" 31 Ki iP 18 09 48.9
 micr sec
 P Z' 0.1 1.3
 Um iP 18 10 16.0
 Ud iP 18 10 41.6
 De iP 18 11 04.3
 Aleutian Islands (h = 35 km).

" 31 Ud iP 18 10 10.6
 i 18 10 21.4

Markus Båth
 Rutger Wahlström

May 1, 1976

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA
SWEDEN

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

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

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

N O V E M B E R 1 - 30, 1974
.....

1974					1974				
Nov.	1	Ud	iPKPl	03 55 46.8	Nov.	2	Up	iP	05 04 08.9
				Tonga Islands (h = N).				i(S)	05 07 38
									micr sec
"	1	Up	iP	12 55 43.3			P	Z'	4.4 0.8
		Ud	iP	12 55 55.5			Mx	E	22 6
				Gulf of Aden (h = N).			Mx	N	16 5
							Mx	Z	25 5
"	1	Up	iP	16 43 55.1		Ki	iP		05 02 47.4 C
		Ud	iP	16 44 02.5			iS		05 04 57
				Greece.			i(P'P')		05 39 13.6
									micr sec
"	1	Up	iP	19 02 24.1			P	Z'	32 1.0
		Ki	iP	19 01 48.9			Mx	E	67 6
		Um	iP	19 02 04.0			Mx	N	58 6
		Ud	iP	19 02 30.8			Mx	Z	51 6
				South of Japan (h = 100 km).		Sk	iP		05 03 54.1
							i(P'P')		05 39 00.3
"	1	Ki	iPKPl	21 04 16.5		Um	iP		05 03 18.9 C
		Um	iPKPl	21 04 24.0			iS		05 05 55
				New Zealand (h = 25 km).			i(P'P')		05 39 32.5
						Ud	iP		05 04 22.4 C
"	1	Up	iPKP	23 39 10.4			i(P'P')		05 38 51.2
		Ki	iPKP	23 39 25.2		De	iP		05 04 54.3 C
		Um	iPKP	23 39 18.4					Novaya Zemlya.
		Ud	iPKP	23 39 07.8					m = 7.0, M = 6.2 (Up,Ki).
				South Sandwich Islands					Underground explosion.
				(h = N).					(P'P'), interpreted as early
"	2	Ki	eP	01 14 49					P'P', has a different
		Ud	iP	01 14 07.4 C					travel-time slope from the
		De	iP	01 14 00.9		"	2	Ki	iS
				North Atlantic Ocean					05 41 46.9
				(h = N).					Novaya Zemlya aftershock.
"	2	Ud	iPKPl	02 11 28.2		"	2	Ki	eP
									05 53 26
									eS
									05 55 32
"	2	Ki	iP	03 09 17.9					Novaya Zemlya aftershock.
		Ud	iP	03 10 15.3		"	2	Ud	iP
				Kamchatka (h = 50 km).					07 21 45.1

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

1974				1974							
Nov.	3	Um	iPKP1	14 16	23.0	Nov.	4	Sk	iP	21 35	54.5
"	3	Up	iP	16 41	38.4			Ud	iP	21 36	02.4
		Ki	iP	16 41	19.9 C			Central America (h = N).			
		Um	iP	16 41	25.9	"	5	Ki	iP	10 34	02.3
			ipP	16 41	35.5			Sk	iP	10 34	26.5
		Ud	iP	16 41	48.0 C			Ud	iP	10 34	51.7
			ipP	16 41	59.1			Alaska (h = 15 km).			
		Luzon.				"	5	Up	iPKP2	10 58	53.1
		h = 40 km (Um,Ud).							i	10 59	01.5
"	3	Ud	iPKP	18 55	14.7						micr sec
		Easter Island (h = N).						Mx	Z	0.9	22
"	3	De	iPKP1	23 26	40.9 D			Ki	iPKP1	10 58	21.8 C
											micr sec
"	4	Ki	iP	03 03	37.7			PKP1	Z'	0.2	0.8
		Ud	iP	03 02	38.9			Sk	iPKP1	10 58	42.9
		Aegean Sea (h = N).							iPKP2	10 58	48.3
"	4	Ki	iP	04 50	23.0			Ud	iPKP2	10 58	59.0 C
		Sea of Japan (h = 290 km).						De	ePKP2	10 59	08
"	4	Ud	iPKP1	09 04	40.6			New Zealand (h = N).			
"	4	De	iPKP1	09 04	49.5	"	5	Ki	iPKP1	11 13	05.4
"	4	Ud	iP	10 32	37.1			New Zealand (h = 45 km).			
"	4	Ud	i(Sgl)	13 55	34.7	"	5	Ki	iP	13 52	46.9
"	4	Ud	iPKP1	15 06	23.2			Ud	iP	13 52	56.0
		De	iPKP1	15 06	35.0				ipp	13 56	54.5
		Tonga Islands (h = N).						Sunda Strait (h = 100 km). Readings are late compared to the NEIS solution.			
"	4	Ki	iP	17 06	30.8	"	5	Up	iPKP1	19 29	24.3
"	4	Ud	iPKP1	17 48	49.0			Ud	iPKP1	19 29	26.5
		De	iPKP1	17 49	00.7	"	5	Ki	iPKP1	19 41	39.8
		Tonga Islands (h = N).						Sk	iPKP1	19 41	52.3
"	4	Ud	iPKP1	17 48	58.6			Ud	iPKP1	19 41	50.6
		De	iPKP1	17 49	10.8 C			De	iPKP1	19 41	47.8
			i	17 49	22.2			West of Macquarie Islands (h = N).			
		Tonga Islands.				"	5	Ki	iPKP1	20 01	21.3
		Origin time = 17 29 34.						New Zealand (h = N).			
"	4	Ud	iP	18 10	17.6	"	5	Up	iP	20 08	56.6
"	4	Ki	iSgl	20 03	09.2			Ki	iP	20 09	26.4
		Sk	iSgl	20 03	15.7				ipp	20 10	42.9
		Um	iSgl	20 03	37.9			Sk	eP	20 09	34
		Nordland, Norway.						Ud	iP	20 09	06.4
		Origin time = 20 01 42.						De	iP	20 08	58.8
		Explosion?						Iran (h = 70 km).			

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

1974				1974							
Nov.	6	Up	iP	04 46 08.3	Nov.	6	Ud	iP	19 21 09.6		
		Ki	iP	04 46 45.8			"	6	Ud	iP	19 27 44.8
		Um	iP	04 46 28.8			"	7	Up	iP	00 13 15.1
			i	04 47 25.3					Um	iP	00 12 50.4
		Ud	iP	04 46 24.7					Ud	iP	00 13 21.6
			i	04 46 55.6					De	iP	00 13 39.1
		Caucasus.							Kurile Islands (h = 30 km).		
"	6	Up	iSgl	05 26 49.8	"	7	Up	e	02 39 03		
		Ki	iSgl	05 24 40.5				i(S)	02 40 10.0		
		Um	iSgl	05 24 55.5			Um	iP	02 37 47.5		
		De	iSgl	05 28 54.2				i	02 41 46.6		
		Central Finland.					Ud	e	02 39 08		
"	6	Ki	iP	09 17 48.1				iS	02 40 08.1		
"	6	Ud	iP	11 24 55.9			De	iP	02 36 15.5		
"	6	Up	iSgl	13 31 06.9	"	7	Up	iP	04 26 35.9		
		Sk	iSgl	13 31 08.4				i	04 26 47.2		
		Ud	iPgl	13 29 13.6			Ki	iP	04 26 38.0		
			i	13 29 39.6				i	04 26 48.2		
			iSgl	13 30 08.6			Um	iP	04 26 33.4		
		De	iPgl	13 29 22.9			Ud	iP	04 26 46.0		
			iSgl	13 30 17.9				i	04 26 56.5		
		Southwest coast of Norway, 58.4°N, 6.6°E. Origin time = 13 28 04.					Sumatra (h = 10 km). Interpreting the second phase as pP would give h = 40 km (Up,Ki,Ud).				
"	6	Up	iSgl	14 47 06.9	"	7	Up	iP	05 10 10.2		
		Ud	iSgl	14 46 12.1			Ki	iP	05 09 23.1		
		Southwest Norway. By combination with Bergen readings.					Ud	iP	05 10 13.6		
							Kurile Islands (h = 55 km).				
"	6	Up	iPKP2	14 55 26.1	"	7	Ud	iP	11 59 38.3		
		Ki	iPKP1	14 54 53.3			Japan (h = 150 km).				
				micr sec			"	7	Ud	iP	13 31 10.1
			PKP1	Z' 0.1 1.0				De	iP	13 31 04.5	
		Sk	iPKP2	14 55 26.9			Peru (h = 150 km).				
		Um	iPKP1	14 55 01.4 C			"	7	Ki	iP	15 11 05.9
			i	14 55 07.1				Ud	iP	15 11 59.1	
		Ud	iPKP2	14 55 31.0 C			Kurile Islands (h = N).				
		New Zealand (h = 40 km).					"	7	Ud	iPKP1	16 18 48.6
"	6	Ud	iPKP1	16 51 36.3	"	7					
		De	iPKP1	16 51 49.8	"	7	Ud	iP	18 51 50.6		
"	6	Ud	iP	17 04 46.7	"	7					
		De	iP	17 04 44.1			Greece.				

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

1974				1974								
Nov.	7	Ki	iP	18 55	42.0	Nov.	8	(cont.)				
		Ud	iP	18 56	32.6			Ki	iP	21 33	24.7	
		Aleutian Islands						i		21 33	27.8	
		(h = 20 km).						iPP		21 35	42.3	
								iS		21 41	33	
										micr sec		
"	7	Ki	iP	20 12	16.4			P	Z'	0.2	1.0	
		Ud	iP	20 13	15.0			i	Z'	3.3	1.0	
		Komandorsky Islands						PP	Z'	0.8	1.1	
		(h = 40 km).						Mx	E	14	18	
"	7	Ki	iP	20 29	03.3			Mx	N	9.1	18	
		Ud	iP	20 29	59.0			Mx	Z	3.8	18	
"	8	Up	iP	02 40	00.4			Sk	iP	21 34	00.2	
		Ki	iP	02 39	55.7 C			i		21 34	02.9	
		Um	iP	02 39	55.7 C			iPP		21 36	25.3	
		Ud	iP	02 40	09.6 C			Um	iP	21 33	43.6 C	
		De	iP	02 40	09.5			i		21 33	47.3	
		Java (h = 110 km).						iS		21 42	07	
"	8	Up	iP	03 01	57.3			Ud	iP	21 34	14.6	
"	8	Ud	i	11 35	54.0			i		21 34	17.9	
			i	11 36	13.5			iS		21 42	52.9	
			iSgl	11 36	15.5			De	iP	21 34	31.7	
		De	iSgl	11 36	46.1			i		21 34	34.6	
"	8	Up	iPKP	13 57	44.3			i(PP)		21 36	54.3	
		Ki	iPKP	13 57	28.3			iPP		21 37	14.4	
		Ud	iPKP	13 57	45.4			Japan (h = 130 km).				
		Tonga Islands (h = N).						m = 7.0, M = 6.2 (Up,Ki).				
		Late arrivals compared to the NEIS solution.						M uncorrected for focal depth.				
"	8	Ki	ePn	18 19	23			Multiple P.				
			iSgl	18 20	05.0			"	9	Ki	iP	04 30 47.2
		Sk	iSgl	18 22	55.3					Mindanao (h = 15 km).		
		Um	iSgl	18 21	56.3			"	9	Sk	iP	05 56 52.0
		North Norway.								Um	iP	05 56 29.4
"	8	Sk	iP	20 55	27.6 C					Ud	iP	05 57 02.0
		Um	iP	20 55	44.7 C					Kurile Islands (h = 150 km).		
		Panama-Colombia (h = 10 km).					"	9	Up	iP	05 57 25.6	
"	8	Up	iP	21 34	07.1			Ki	iP	05 56 43.7		
		i		21 34	10.7							
		iS		21 42	48.8							
				micr sec								
		P	Z'	0.2	1.1							
		i	Z'	2.1	1.0							
		Mx	E	3.7	15							
		Mx	N	12	22							
		Mx	Z	6.0	22							
		(cont.)					"	9	Up	iPgl	06 05 27.7 C	
										micr sec		
									P	Z'	0.1 0.6	
								Ki	iP	06 06 42.0		
								Sk	iP	06 06 09.0		
								Um	iP	06 06 06.8		
								Ud	iP	06 05 35.3		
								De	iP	06 04 58.2		
								Greece-Albania (h = 25 km).				
								"	9	Up	iPgl	07 17 26.3
										iSn	07 18 41.1	
								(cont.)				

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

1974					1974						
Nov.	9	(cont.)			Nov.	9	(cont.)				
		Up	iS*	07 19 30.1			Up	i(PP)	13 17 40.5		
		Ki	iPn	07 15 29.7 C				iPP	13 18 04.9		
			iPgl	07 15 36.7				iS	13 25 29		
			iSn	07 16 18.5					micr sec		
				micr sec				P	Z' 0.4 1.9		
			Pn	Z' 0.2 0.5				PP	Z' 0.3 1.6		
			Pgl	Z' 0.2 0.5				Mx	E 56 23		
			Sn	Z' 0.2 0.7				Mx	N 40 18		
		Sk	iPn	07 15 55.2 C				Mx	Z 120 24		
			iSn	07 17 03.8			Ki	eP	13 13 49		
		Um	iPn	07 16 09.3 C				i(PP)	13 17 41.4		
			iSn	07 17 26.8				iPP	13 18 12.0		
		Ud	iPn	07 16 44.1 C					micr sec		
			iSn	07 18 25.9				PP	Z' 0.6 2.1		
		De	iPn	07 17 33.3				Mx	E 49 21		
		Norwegian Sea (h = N).						Mx	N 31 18		
								Mx	Z 34 18		
"	9	Up	iP	10 46 30.1			Sk	iPP	13 17 49.5		
				micr sec			Um	i(PP)	13 17 43.0		
		Mx	E	4.6 20				iPP	13 18 11.9		
		Mx	N	3.9 20				iS	13 25 46		
		Mx	Z	10 19				iSP	13 27 34		
		Ki	iP	10 45 36.2			Ud	iP	13 13 44.0		
				micr sec				i(PP)	13 17 14.6		
		Mx	E	6.1 21			De	iP	13 13 43.8		
		Mx	N	4.7 23				i(PP)	13 17 38.1		
		Mx	Z	5.2 21			Peru (h = 6 km).				
		Um	iP	10 46 01.7			m = 6.8, M = 7.2 (Up,Ki).				
		Ud	iP	10 46 33.6			"	9	Up	iP	14 27 52.1
		De	iP	10 46 55.2					i	14 28 41.7	
		Kamchatka (h = N).								micr sec	
		M = 5.8 (Up,Ki).							P	Z' 0.3 1.4	
"	9	Sk	iPKP	10 59 33.3			Ki	iP	14 27 10.3		
		South Sandwich Islands							micr sec		
		(h = N).						P	Z' 0.1 1.3		
"	9	Up	iP	12 20 26.4			Sk	iP	14 27 45.6		
		Um	iP	12 21 05.0			Um	iP	14 27 28.9 C		
		Ud	iP	12 20 20.1			Ud	iP	14 27 59.2		
		De	iP	12 19 47.8			De	iP	14 28 15.2		
		Algeria (h = N).						i	14 28 28.7		
							Japan (h = 25 km).				
							m = 6.1 (Up,Ki).				
"	9	Ki	iP	12 37 17.3			"	9	Up	iP	19 24 10.3
		Sk	iP	12 37 23.0					ipP	19 24 23.8	
		Um	iP	12 37 31.2						micr sec	
			i	12 37 44.3					P	Z' 0.1 1.0	
		Ud	i	12 39 12.7					Mx	E 3.8 22	
"	9	Ud	iP	13 11 17.6					Mx	N 5.7 19	
"	9	Up	iP	13 13 52.4					Mx	Z 9.5 23	
		(cont.)					Ki	iP	19 24 08.8 C		
							(cont.)				

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

1974				1974						
Nov.	9	(cont.)		Nov.	11	Up	iP	05 28	43.6 C	
		Ki	ipP				ipP	05 28	59.0	
			i						micr sec	
							P	Z'	0.2 0.9	
							Mx	N	1.4 20	
			P			Ki	iP	05 27	50.8	
			pP				ipP	05 28	06.6	
			Mx						micr sec	
			Mx				pP	Z'	0.2 1.1	
			Mx				Mx	E	2.0 19	
		Sk	iP				Mx	N	1.6 19	
			ipP			Sk	iP	05 28	23.0	
			iPP				ipP	05 28	37.5	
		Um	iP			Um	iP	05 28	19.6	
			iSKS				iPcP	05 28	52.0	
		Ud	iP			Ud	iP	05 28	44.7 C	
			i				ipP	05 29	00.6	
			ipP			De	iP	05 29	07.0	
			i(PP)			Aleutian Islands.				
			i			h = 55 km (Up,Ki,Sk,Ud).				
		De	iP			m = 6.2, M = 5.4 (Up,Ki).				
			i(PP)			"	11	Up	ipKP1	06 48 26.2
			iPP							micr sec
		Sunda Strait.						PKP1	Z'	0.1 0.8
		h = 55 km (Up,Ki,Sk,Ud).					Ki	ipKP	06 48	16.1 C
		m = 6.5, M = 6.3 (Up,Ki).								micr sec
"	10	Up	ipKP1	03 26	12.1 C		PKP	Z'	0.1 1.0	
						Sk	ipKP1	06 48	20.0	
			PKP1	Z'	0.1 0.8	Um	ipKP1	06 48	16.2	
		Ud	ipKP1	03 26	14.9 C		i	06 48	25.7	
		Tonga-Kermadec Islands				Ud	ipKP1	06 48	28.3 C	
		(h = 620 km).				De	ipKP1	06 48	38.0	
"	10	Ki	iP	04 39	22.3		i	06 48	45.6	
		Ud	iP	04 39	37.3	Tonga-Kermadec Islands				
		Tadzhik-Sinkiang (h = N).				(h = 200 km).				
"	10	Up				"	11	Um	ipKP1	06 51 57.1
								Ud	ipKP1	06 52 09.2
			Mx	E	1.4 18	"	11	Up	iP	09 07 19.3
			Mx	N	1.9 18			Sk	iP	09 07 19.9
			Mx	Z	2.8 19			Ud	iP	09 07 28.8 C
		Ki	ipKP	04 44	35.8			De	iP	09 07 40.7
						Ryukyu Islands (h = 45 km).				
						"	11	Ud	ipKP	09 33 59.6
			Mx	E	1.8 20	Solomon Islands				
			Mx	N	2.8 20	(h = 110 km).				
			Mx	Z	2.8 20	"	11	Ud	iP	10 04 35.4
		Ud	ipKP	04 44	53.8	"	11	Ud	iP	11 57 25.1
		Fiji Islands (h = N).				Peru (h = 70 km).				
		M = 6.0 (Up,Ki).								
"	10	Up	iP	07 05	05.4					
		Ud	iP	07 05	19.5					
		Tibet (h = N).								

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

1974				1974			
Nov.	14	(cont.)		Nov.	14	(cont.)	
		Ud	ipP 04 59 07.8			Sk	iP 14 32 20.0
		Alaska.				i	14 32 22.0
		h = 35 km (Ki,Sk).				Um	iP 14 32 14.5
		M = 5.2 (Up,Ki).				i	14 32 21.7
		pP is bigger than P, which explains the absence of P on some records.				Ud	iP 14 31 45.6
						i	14 31 47.7
						i	14 31 54.6
"	14	Ud	iP 06 19 07.8			De	iP 14 31 10.6
		Ryukyu Islands (h = N).				Greece (h = 3 km).	
						M = 5.3 (Up,Ki).	
						Multiple P.	
"	14	Ud	iP 12 46 28.5	"	14	Ud	iPKP1 15 25 18.8
		Greece (h = 10 km).					
"	14	Up	iP 13 27 22.8	"	14	Up	iP 15 34 36.0
		i	13 27 27.5			i	15 34 38.4
			micr sec			iS	15 38 35
		P	Z' 0.1 0.9				micr sec
		Mx	E 7.5 16			P	Z' 0.1 0.8
		Mx	N 3.1 9			Mx	E 4.5 16
		Mx	Z 4.1 9			Mx	N 2.8 9
		Ki	iP 13 28 36.0			Mx	Z 4.0 10
		iPP	13 29 22.7			Ki	iP 15 35 47.2
			micr sec				micr sec
		Mx	E 7.5 14			Mx	E 3.2 14
		Mx	N 3.5 14			Mx	N 2.1 12
		Mx	Z 2.6 11			Mx	Z 2.1 8
		Sk	iP 13 28 05.1			Sk	iP 15 35 16.6
		i	13 28 09.9			i	15 35 18.9
		Um	iP 13 28 01.9			Um	iP 15 35 11.1
		i	13 28 06.6			iS	15 39 47
		iS	13 32 31			Ud	iP 15 34 43.0
		Ud	iP 13 27 31.1			i	15 34 44.6
		De	iP 13 26 55.3			De	iP 15 34 03.1
		Greece (h = 20 km).				Greece (h = 25 km).	
		M = 5.4 (Up,Ki).				M = 5.2 (Up,Ki).	
		Double P.				Double P.	
"	14	Up	iP 14 31 38.4	"	14	Ki	iPKP 17 30 41.3
		i	14 31 41.8			South Sandwich Islands	
		iS	14 35 34			(h = N).	
			micr sec				
		P	Z' 0.1 1.0	"	14	Ud	iP 18 26 55.1
		i	Z' 0.3 1.0				
		Mx	E 4.5 16	"	15	Ki	iP 00 28 01.5
		Mx	N 2.3 10			Gulf of Aden (h = N).	
		Mx	Z 4.0 10				
		Ki	iP 14 32 51.4	"	15	Ud	i 15 01 57.3
			micr sec			iRg	15 02 00.3
		Mx	E 5.1 15				
		Mx	N 2.3 11	"	15	Up	iP 17 45 49.1
		Mx	Z 1.6 9			Ki	iP 17 46 13.9
		(cont.)				(cont.)	

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

1974				1974					
Nov.	15	(cont.)		Nov.	16	Up	iP	05 04 10.4	
		Sk	iP	17 46 19.8		Ki	iP	05 04 16.2	
		Ud	iP	17 46 04.8		Ud	iP	05 04 23.1	
		De	iP	17 45 53.7			Burma.		
		Iran (h = 80 km).			"	16	Up	eP	10 50 39
"	15	Up	iP	19 13 27.6			i	10 50 47.1	
		Aleutian Islands (h = 45 km).					iPP	10 54 35.0	
								micr sec	
"	15	Up	iP	22 39 27.8			Mx	N 2.2 29	
		Sk	iP	22 39 51.1		Ki	iP	10 50 22.0	
		Um	iP	22 39 23.5			i	10 50 31.4	
		Ud	iP	22 39 45.2			iPP	10 54 16.3	
			iPP	22 41 29.9				micr sec	
		De	iP	22 39 44.9			P	Z' 0.1 1.1	
		Sinkiang, China (h = 35 km).					PP	Z' 0.1 1.5	
"	15	Ud	iP	23 30 49.4			Mx	E 1.1 20	
"	15	Up	iP	23 44 14.3 C			Mx	N 1.4 20	
			ipP	23 44 26.7		Sk	eP	10 50 47	
			iPP	23 46 49.4		Um	i(P)	10 50 36.5	
				micr sec			iPP	10 54 20.0	
		P	Z'	0.5 1.0		Ud	iP	10 50 47.4	
		PP	Z'	0.1 1.2		De	iPP	10 55 05.9	
		Mx	E	3.0 22				Molucca Passage	
		Mx	N	3.3 23				(h = 35 km).	
		Mx	Z	4.1 20				M = 5.5 (Up,Ki).	
		Ki	iP	23 43 36.1 C	"	16	Up	iP	16 26 58.3
			iPP	23 46 01.2			Ki	iP	16 27 03.9
				micr sec			Sk	iP	16 27 22.2 C
		P	Z'	0.4 1.1			Um	iP	16 26 55.9
		PP	Z'	0.2 1.2			Ud	iP	16 27 13.8
		Mx	E	9.0 17			De	iP	16 27 12.4
		Mx	N	6.3 21					Kashmir-India (h = 60 km).
		Mx	Z	6.8 17	"	16	Up	iP	16 35 59.5
		Sk	iP	23 44 09.1 C			i	16 36 03.7	
			ipP	23 44 21.7				micr sec	
			iPP	23 46 49.6			P	Z' 0.1 1.0	
		Um	iP	23 43 53.1 C			Mx	N 3.9 20	
			iS	23 52 59			Mx	Z 1.3 14	
		Ud	iP	23 44 21.6 C		Ki	iP	16 35 40.4	
			ipP	23 44 33.9				micr sec	
		De	iP	23 44 36.1 C			P	Z' 0.1 1.0	
			ipP	23 44 48.0			Mx	E 1.7 11	
			iPP	23 47 29.6			Mx	N 3.2 14	
		Japan.					Mx	Z 1.6 11	
		m = 6.3, M = 5.9 (Up,Ki).				Sk	iP	16 36 09.6	
		h = 45 km (Up,Sk,Ud,De).				Um	iP	16 35 45.7	
"	16	Ud	iP	00 24 22.5		Ud	iP	16 36 11.9	
		Japan (h = 35 km).					i	16 36 16.1	
						De	iP	16 36 20.0	
								Kansu, China (h = N).	
								m = 5.8, M = 5.4 (Up,Ki).	

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

1974				1974			
Nov.	17	Up	iP	22 40 15.7	Nov.	18	(cont.)
							Ki ipP 19 46 36.6
							Um iP 19 46 34.3 C
							ipP 19 46 50.3
"	17	Um	iP	23 10 26.1			Ud iP 19 47 00.5 C
							South of Japan.
							h = 60 km (Ki,Um).
"	18	Ud	iP	06 27 59.8	"	18	Um iP 22 59 08.1
							Japan (h = 110 km).
"	18	Ki	iP	07 25 29.8	"	19	Ud iPKP1 02 39 37.6
							De iPKP1 02 39 47.5
"	18	Ki	iP	13 08 01.3	"	19	Up iP 04 07 26.6 C
		Um	iP	13 08 17.1			ipP 04 07 37.2
		Ud	iP	13 08 44.6			iPP 04 10 38.8
		De	iP	13 08 57.2			iS 04 17 14
							iSKS 04 17 26
							micr sec
"	18	Up	iP	18 15 04.1 C			P Z' 0.1 0.9
			il	18 15 11.5			pP Z' 0.2 0.8
			i2	18 15 21.4			Mx E 1.6 17
							Mx N 2.6 18
							Mx Z 4.4 18
							Ki iP 04 07 06.2 C
							ipP 04 07 17.0
							iS 04 16 46
							micr sec
							P Z' 0.3 1.0
							pP Z' 0.4 0.9
							Mx E 2.7 19
							Mx N 2.9 16
							Mx Z 1.4 12
							Sk iP 04 07 31.6 C
							ipP 04 07 42.2
							Um iP 04 07 13.0 C
							ipP 04 07 22.7
							iS 04 16 59
							Ud iP 04 07 36.1 C
							ipP 04 07 46.4
							De iP 04 07 43.3 C
							ipP 04 07 53.9
							Luzon.
							h = 40 km (Up,Ki,Sk,Um,
							Ud,De).
							m = 6.1, M = 5.7 (Up,Ki).
"	18	Ki	iP	19 46 21.1 C	"	19	Ki iSKP1 06 00 54.6
							Um iSKP1 06 01 07.4
							Ud iSKP1 06 01 22.0
							De iPKP1 05 58 42.1
							Fiji Islands (h = 640 km).

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

1974				1974				
Nov.	20	(cont.)		Nov.	21	Ud	i(Rg)	13 39 21.9
		Ud	iSKP1			"	Ud	iP
			iX				De	iP
		De	i(PKP)					Kirghiz SSR.
			iPKP					
			ipPKP			"	Um	iPKP1
		New Hebrides Islands.						
		h = 60 km (Up,Ki,Sk,Um,Ud,De).				"	Up	iRg
		M = 7.3 (Up,Ki).					Ud	iRg
		X parallels SKKP but is						Central Sweden.
		about 1 min too early.						Near-surface event.
"	20	Ki	iP			"	21	Up
		Sk	iP					iRg
		Ud	iP					iRg
		Windward Islands (h = N).						18 00 28.0
								18 00 11.4
"	20	Ud	iP					Central Sweden.
								Near-surface event.
"	20	Up	iSgl			"	21	Up
		Sk	ePgl					iRg
			iSgl					iRg
		Ud	iPgl					18 23 54.8
			iSgl					18 23 37.5
		De	iSn					Central Sweden.
		Southeast Norway,				"	21	Up
		60.1°N, 10.1°E.						iP
		Origin time = 12 29 32.						19 55 53.7 D
"	20	Ki	iPKP					micr sec
								P
								Z' 0.1 0.6
		Mx	E				Ki	iP
		Mx	N				Sk	iP
		Mx	Z				Um	iP
		Um	iPKP				Ud	iP
		Ud	iPKP				De	iP
		South Atlantic Ocean						19 56 07.8
		(h = N).						Burma (h = N).
"	20	Ki	iP			"	21	Up
								iRg
"	21	Ki	iP					iRg
		Sk	iP					21 35 30.2
		Um	iP					21 35 14.4
		Ud	iP					Central Sweden.
		Gulf of Aden.						Near-surface event.
"	21	Ud	i(Sgl)			"	21	Sk
		De	i(Sgl)					e(P)
								Ud
								iP
								21 48 45
								21 48 49.4
								North Atlantic Ocean
								(h = N).
								Late arrivals.
"	22	Ud	iPKP1			"	22	Ud
								iPKP1
								00 29 02.2
"	22	Sk	i			"	22	Sk
			i(Sgl)					i
								i(Sgl)
								02 25 27.2
								02 25 32.1
"	21	Sk	iP			"	22	Up
		Um	iP					iP
		Ud	iP					Ki
		Japan (h = 80 km).						iP
								02 53 54.3
								02 53 19.0
								02 53 50.6
								02 53 34.2
								02 54 02.3
								02 54 16.7
								Japan (h = 350 km).

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

1974					1974					
Nov.	23	(cont.)			Nov.	24	Ud	iP	10 56 23.4	
		Up		micr sec						
		Mx	N	1.4 26	"	24	Ud	iP	16 27 06.7	
		Mx	Z	0.9 22					Kurile Islands.	
		Ki	iP	09 55 32.9 C						
		Sk	iP	09 56 00.6	"	24	Sk	i(Sgl)	17 00 19.8	
		Um	iP	09 55 42.1						
		Ud	iP	09 56 06.2	"	24	Ud	iP	21 37 04.2	
		De	iP	09 56 17.6					Molucca Passage	
		Ryukyu Islands (h = N).							(h = 55 km).	
"	23	Up	iPKP1	15 44 19.2	"	25	Up	iP	13 39 46.3	
		Sk	iPKP1	15 44 14.4					Japan.	
		Um	iPKP1	15 44 06.5						
		Ud	iPKP1	15 44 21.5	"	25	Up	iP	16 44 56.6	
		De	iPKP1	15 44 30.6					i	
		Kermadec Islands.							16 45 01.6	
"	23	Um	iP	16 07 36.8 C					micr sec	
		Ud	iP	16 08 01.0 C					Z' 0.1 1.0	
		Bonin Islands (h = 500 km).					Ki	iP	16 45 34.1	
									i	
									16 45 39.6	
"	23	Up	iP	18 51 06.8					micr sec	
			i	18 51 15.6					Z' 0.1 0.9	
				micr sec					Sk	
		Mx	E	1.1 12					iP	
		Ki		micr sec					i	
		Mx	E	1.2 12					Um	
		Sk	iP	18 51 50.8					iP	
		Um	iP	18 51 47.6					i	
			i	18 51 56.3					Ud	
		Ud	iP	18 51 13.8					iP	
			i	18 51 21.4					i	
		Greece-Albania (h = N).								16 45 07.1
		M = 4.6 (Up,Ki).								16 45 12.8
		Double onsets.								Gulf of Aden (h = N).
"	24	Up	iPKP1	02 57 36.5						m = 5.8 (Up,Ki).
		Um	iPKP1	02 57 20.7						Double P, smaller and
		Ud	iPKP1	02 57 36.9						larger, average separation
		Kermadec Islands.								5.2 sec.
"	24	Sk	iP	05 06 07.4	"	25	Ki	iP	20 44 18.9	
		Panama-Colombia (h = N).			"	25	Ki	iP	22 11 10.3	
									Ud	
									iP	
									22 11 27.0 C	
									Sinkiang, China (h = N).	
"	24	Up	i(P)	07 18 28.9	"	25	Up	iPKP1	22 43 29.3	
		Sk	i(P)	07 18 23.4			Ud	iPKP1	22 43 31.3	
		South of Panama (h = 35 km).					De	iPKP1	22 43 42.0	
"	24	Ud	iP	07 19 57.7	"	25	Ki	iP	23 50 54.7	
		Talaud Islands (h = 140 km).			"	26	Sk	iP	01 06 36.4	
							Ud	iP	01 06 18.8	
"	24	Up	iPKP1	08 10 06.8	"	26	Ud	iPKP1	09 26 10.0	
		Ud	iPKP1	08 10 07.7			De	iPKP1	09 26 21.1	
		De	iPKP1	08 10 18.2					Tonga-Kermadec Islands	
		Kermadec Islands (h = 70 km).							(h = 600 km).	
"	26	Ud	iP	12 15 34.5	"	26	Ud	iP	12 15 34.5	
									Kurile Islands.	

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

1974				1974			
Nov.	26	Ud	iP	12 59 01.9	Nov.	27	(cont.)
				Sinkiang, China.			De
							iSgl
							14 40 45.0
							Probably Dalsland, Sweden.
							Origin time = 14 39 25.
"	26	Ki	iP	13 30 30.9	"	27	Um
		Ud	iP	13 31 25.7 C			iP
				Aleutian Islands (h = 30 km).			15 43 00.1
"	26	Sk	i(Sgl)	14 25 44.0	"	27	Up
							iP
							16 58 58.6 C
							micr sec
"	26	Ud	iP	14 39 35.0			Mx
							E
							0.8 14
							Mx
							N
							1.2 14
							Mx
							Z
							2.1 16
"	26	Ki	iSgl	15 42 38.7			Ki
		Sk	iSgl	15 42 46.9			iP
		Um	iSgl	15 43 07.3			16 59 43.5 C
		Ud	iSgl	15 44 31.8			micr sec
				Nordland, Norway.			P
				Explosion?			Z'
							0.2 1.2
							Mx
							E
							0.8 11
							Mx
							N
							1.2 14
							Mx
							Z
							0.8 12
"	26	Sk	iPKP1	20 53 38.6			Sk
		Um	iPKP1	20 53 31.1			iP
		Ud	iPKP1	20 53 41.4			Um
			i(pPKP1)	20 53 56.5			iP
				Kermadec Islands.			i
							16 59 16.3
							Ud
							iP
							16 59 19.6
							Ud
							iP
							16 59 14.7 C
							De
							iP
							16 58 56.2 C
							Iran-Iraq (h = 50 km).
							M = 4.8 (Up,Ki).
"	26	Up	i(pPKP1)	21 14 32.7	"	27	Ki
		Um	iPKP1	21 14 05.8			i(P)
		Ud	i(pPKP1)	21 14 38.7			20 43 53.8
"	26	Up	iPKP1	23 20 35.4			Ud
		Um	iPKP	23 20 32.8			iP
			iSKP1	23 23 17.2			20 45 01.5
		Ud	iPKP1	23 20 38.1 C			De
			iSKP1	23 23 29.7			iP
		De	iPKP1	23 20 48.6 C			20 45 24.4
				Tonga-Kermadec Islands			Arctic Ocean (h = N).
				(h = 520 km).	"	27	Up
							iP
							21 50 32.4
							Ki
							iP
							21 50 19.6
							Sk
							iP
							21 50 13.3
							De
							iP
							21 50 30.7
							Mexico (h = 50 km).
"	27	Up	iP	07 45 47.8	"	28	Sk
		Ki	iP	07 46 31.4			iP
				micr sec			01 22 41.2
				P			Ud
				Z'			iP
				0.1 1.0			01 22 09.2
		Sk	iP	07 46 25.1			De
		Um	iP	07 46 04.2 C			iP
		Ud	iP	07 46 02.9 C			01 21 36.8
		De	iP	07 45 44.3 C			i
				Iran-Iraq (h = 30 km).			01 21 48.2
							Crete.
"	27	Sk	i(Sgl)	09 43 55.7	"	28	Up
							iP
							05 39 43.2 C
"	27	Um	iPKP1	11 39 41.3			micr sec
							Mx
							N
							1.4 20
							Mx
							Z
							2.5 23
							Ki
							iP
							05 38 49.6
							micr sec
							Mx
							E
							0.7 16
"	27	Ud	iPgl	14 39 52.6 C			Sk
			iSgl	14 40 13.7			eP
				(cont.)			05 39 26
							Ud
							iP
							05 39 42.4 C
							De
							iP
							05 40 05.8
							Aleutian Islands (h = 60 km).
							M = 5.2 (Up,Ki).

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

1974				1974			
Nov.	28	Ki	eP	13 41 18	Nov.	29	(cont.)
		Sk	iP	13 42 09.0			Um iP 06 54 18.9
		Ud	iP	13 42 17.9 C			Sinkiang, China.
"	28	De	iP	14 01 38.4			M = 4.9 (Up,Ki).
"	28	Up	iP	15 05 23.4	"	29	Um iP 10 04 39.0
		Ki	iP	15 05 24.1			Ud iP 10 04 12.3
		Sk	iP	15 05 45.3			De iP 10 03 34.9
		Ud	iP	15 05 40.3 C	"	29	Up iPKP 10 08 17.7
		De	iP	15 05 39.4			Ki iPKP 10 08 03.4
				Sinkiang, China (h = 35 km).			Sk iPKP 10 08 13.4
"	28	Ki	iSKP1	15 35 48.8			Um iPKP 10 08 10.6
		Sk	iSKP1	15 36 13.1			Ud iPKP 10 08 19.7
		Ud	iPKP1	15 33 27.5 D			De iPKP 10 08 25.1
		De	iPKP1	15 33 38.8 D			New Hebrides Islands
				Fiji Islands (h = 630 km).			(h = 140 km).
"	28	Up	iP	16 42 48.3	"	29	Up iP 12 57 26.4 C
				micr sec	"	29	Sk iSgl 13 47 59.0
				P Z' 0.1 1.2			Ud i 13 46 51.4
		Ki	iP	16 41 54.4			iSgl 13 46 59.1
			ipP	16 42 03.9			Southwest Norway,
				micr sec			58.5°N, 6.4°E.
				P Z' 0.1 1.0			Origin time = 13 44 56.
		Sk	iP	16 42 24.6			By combination with Bergen
			ipP	16 42 34.6			and Kongsberg readings.
		Um	iP	16 42 21.6	"	29	Ud iPKP1 16 30 48.0
			ipP	16 42 30.8			De iPKP1 16 30 59.1
		Ud	iP	16 42 46.1			Tonga-Kermadec Islands
			ipP	16 42 56.1			(h = 590 km).
		De	iP	16 43 09.4	"	29	Up iP 21 13 34.6
			ipP	16 43 19.2			micr sec
				Unimak Island.			P Z' 0.2 1.5
				h = 35 km (Ki,Sk,Um,Ud,De).			Ki iP 21 12 58.7
				m = 5.9 (Up,Ki).			i 21 13 01.0
"	28	Um	iP	20 31 16.7			micr sec
		Ud	iP	20 31 38.6			P Z' 0.1 1.2
"	28	Um	i	23 30 23.8			Sk iP 21 13 39.0
		Ud	i	23 29 20.2			Ud iP 21 13 45.4
"	29	Ki	iP	00 55 50.0			De iP 21 14 01.2
				Atlantic Ocean (h = N).			USSR-Mongolia (h = N).
"	29	Um	iPKP1	03 25 19.7			m = 5.5 (Up,Ki).
"	29	Up		micr sec	"	29	Up iP 22 16 33.6
			Mx	N 1.0 18			i 22 17 58.7
		Ki		micr sec			ipP 22 18 13.8
			Mx	N 1.3 17			iS 22 25 46.6
		Sk	iP	06 54 37.9			micr sec
				(cont.)			P Z' 3.1 1.0
							(cont.)

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

1974				1974			
Nov.	29	(cont.)		Nov.	30		
		Up	micr sec		Up	iP	13 08 03.3 C
		Mx	E 22 20			P	Z' 0.1 0.9
		Mx	N 37 20		Ki	iP	13 07 09.1 C
		Mx	Z 40 21				micr sec
		Ki	iP 22 16 00.2			P	Z' 0.1 1.0
			i 22 16 00.9		Sk	iP	13 07 43.5
			ipP 22 17 37.6			iPcP	13 08 23.2
			iS 22 24 45.4		Um	iP	13 07 35.1 C
			iP'P' 22 43 46		Ud	iP	13 08 05.0 C
			micr sec		De	iP	13 08 26.4
		P	Z' 2.7 0.9		Aleutian Islands		
		Mx	E 45 16		(h = 15 km).		
		Mx	N 39 15		m = 5.9 (Up,Ki).		
		Mx	Z 40 16				
		Sk	iP 22 16 30.7	"	30	Up	iPKP1 14 14 57.8
			ipP 22 18 08.6				iPKP2 14 15 05.5
			iS 22 25 37.3				micr sec
		Um	iP 22 16 14.3			Ki	PKP2 Z' 0.1 1.0
			ipP 22 17 53.5				iPKP1 14 14 36.2
			iS 22 25 11.6				micr sec
			isS 22 27 50				PKP1 Z' 0.2 1.1
		Ud	iP 22 16 40.3			Sk	iPKP1 14 14 50.8
			ipP 22 18 17.9			Um	iPKP1 14 14 46.0
			iS 22 25 55.9			Ud	iPKP1 14 14 57.5
		De	iP 22 16 53.6			New Zealand (h = 30 km).	
			ipP 22 18 31.0				
			iS 22 26 20.2				
		South of Japan.		"	30	Up	iPKP1 15 54 02.0
		h = 450 km (Up,Ki,Sk,Um,Ud,De).					iPKP2 15 54 12.1
		m = 6.9, M = 6.9 (Up,Ki).					micr sec
		M uncorrected for focal					PKP2 Z' 0.1 1.3
		depth! P exhibits a small				Ki	iPKP1 15 53 42.3
		compression followed by					ipPKP1 15 53 53.9
		a large dilatation.				Sk	iPKP1 15 53 59.1
						Um	iPKP1 15 53 52.2 C
"	29	De	iP 22 56 53.1				ipPKP1 15 54 03.2
"	29	Ud	iP 22 57 00.0			New Zealand.	
"	30	Ud	iPKP1 00 46 53.2			h = 40 km (Ki,Um).	
"	30	Ud	iP 03 31 07.3	"	30	Up	iPKP1 17 23 31.3
"	30	Up	iPKP1 05 19 01.3				iPKP2 17 23 41.5
			iPKP2 05 19 11.5			Ki	iPKP1 17 23 11.8 C
		Ki	iPKP1 05 18 42.0 D				micr sec
			micr sec				PKP1 Z' 0.1 1.0
		Sk	PKP1 Z' 0.2 1.0			Sk	iPKP1 17 23 26.4
		Um	iPKP1 05 18 55.9			Um	iPKP1 17 23 21.9
		Ud	iPKP1 05 18 51.6			Ud	iPKP1 17 23 32.6
			iPKP1 05 19 03.0			New Zealand (h = 40 km).	
		New Zealand (h = 55 km).		"	30	Up	iP 17 42 59.7 C
						Ud	iP 17 43 16.2 C
						De	iP 17 43 12.5
						Hindu Kush (h = 200 km).	

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

1974

Nov. 30 Ki iPKP1 17 52 16.2

" 30 Ud iRg 21 07 22.1
Central Sweden.
Near-surface event.

" 30 Up iRg 21 08 38.7
Ud iRg 21 08 22.7
Central Sweden.
Near-surface event.

" 30 Ud i(Rg) 21 21 07.3

Markus Båth

July 26, 1976

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

DECEMBER 1 - 31, 1974

1974					1974					
Dec.	1	Up	iP	00 17 16.0	Dec.	1	(cont.)			
		Ki	iP	00 17 24.9			De	iP	12 13 47.2	
		Sk	iP	00 17 41.4			Turkey (h = 35 km).			
		Um	iP	00 17 14.1			M = 4.6 (Up,Ki).			
		Ud	iP	00 17 32.2						
		Hindu Kush (h = 210 km).				"	1	Up	iP	13 21 55.8
								Ki	iP	13 21 41.1
"	1	Ud	iPKP1	02 11 29.4						micr sec
										Z' 0.1 0.9
"	1	Ud	iP	03 02 55.2			Sk	iP	13 22 02.2	
		Aleutian Islands (h = 55 km).					Um	iP	13 21 46.1	D
							Ud	iP	13 22 05.0	D
"	1	Up	iP	06 26 07.5			De	iP	13 22 09.9	
		Sk	eP	06 26 48			Mindanao (h = 520 km).			
		Ud	iP	06 26 15.3						
		Greece (h = N).				"	1	Up	iP	14 35 29.4
"	1	Ud	iP	07 03 39.0			Ki	iP	14 35 30.2	
		Formosa (h = 60 km).					Sk	iP	14 35 44.6	
							Um	iP	14 35 26.6	
"	1	Ud	iP	11 25 13.7			Ud	iP	14 35 39.1	
		Turkey.					Nicobar Islands.			
"	1	Up	iP	12 14 09.4		"	1	Ud	iP	15 05 56.4
			i	12 14 25.9		"	1	Up	iSn	19 39 19.2
				micr sec					i	19 39 37.0
		Mx	N	1.4 13					iSgl	19 40 06.9
		Mx	Z	1.7 13					i	19 40 39.4
		Ki	iP	12 15 22.9			Ki	iPgl	19 36 01.7	C
				micr sec				iSgl	19 36 05.5	
		Mx	E	0.6 11					micr sec	
		Mx	N	0.7 12				Pgl	Z' 0.4 0.4	
		Sk	iP	12 14 58.0			Sk	eSn	19 38 16	
		Um	iP	12 14 49.3				iSgl	19 38 44.7	
			i	12 15 06.7			Um	iPgl	19 37 09.5	
		Ud	iP	12 14 21.3				iSn	19 37 44.7	
		(cont.)					(cont.)			

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

1974

Dec. 2 ✓ Up iP 06 46 13.1
iX 06 46 20.7
micr sec
P Z' 0.2 1.2
Mx E 2.4 16
Mx N 2.1 17
Mx Z 4.3 16
Ki iP 06 45 53.2
iX 06 46 00.8
micr sec
P Z' 0.2 1.0
Mx E 2.2 15
Mx N 2.4 17
Mx Z 2.0 13
Sk iP 06 46 18.3
Um iP 06 45 59.9
iX 06 46 07.6
iS 06 55 45
De iP 06 46 25.1
i 06 46 40.6

Luzon (h = 55 km).
m = 6.0, M = 5.7 (Up,Ki).
Interpreting the clear phase
X as pP gives h = 25 km (Up,
Ki,Um).

" 2 Up iPKP 07 02 12.7
iPKKP 07 12 40.1
Ki iPKP 07 02 04.0
Um iPKP 07 02 06.3
Ud iPKP 07 02 17.0
iPKKP 07 12 32.5
De iPKP 07 02 20.2
iPKKP 07 12 27.9
New Britain (h = 30 km).

" 2 ✓ Up iP 09 13 25.2 C
i 09 13 30.4
micr sec
P Z' 0.1 0.9
Ki iP 09 13 58.5 C
i 09 14 03.6
micr sec
P Z' 0.4 0.8
Mx E 1.5 12
Mx N 0.8 11
Mx Z 1.1 13
Sk iP 09 13 58.9 C
i 09 14 04.2
Um iP 09 13 36.8 C
i 09 13 41.9
iPP 09 15 20.0

(cont.)

1974

Dec. 2 (cont.)
Ud iP 09 13 40.6 C
i 09 13 45.9
iPP 09 15 24.1
De iP 09 13 25.7 C
i 09 13 31.1
Iran (h = 35 km).
m = 6.0 (Up,Ki).
Double P, average separation
5.2 sec.

" 2 De iPKP1 12 40 41.1
Fiji Islands (h = 590 km).

" 2 ✓ Up micr sec
Mx E 1.8 30
Mx Z 5.1 35
Ki iP 12 49 08.2
ipP 12 49 34.5
micr sec
Mx E 4.7 30
Mx N 4.0 25
Mx Z 6.1 30
Sk ipP 12 49 28.2
Ud iP 12 49 07.3
ipP 12 49 34.5
De iP 12 49 14.1
ipP 12 49 42.4

Guatemala.
h = 100 km (Ki,Ud,De).
M = 5.7 (Up,Ki).

" 2 Ud iP 14 20 14.1
Greece-Bulgaria (h = 45 km).

" 2 Up iP 18 54 17.4
Ki iP 18 53 30.5
Um iP 18 53 51.8
Ud iP 18 54 23.3
Okhotsk Sea (h = 420 km).

" 2 Um iP 20 27 54.3
Ud iP 20 28 21.6 C
South of Japan (h = 35 km).

" 2 Up iP 23 07 06.2
micr sec
P Z' 0.1 0.8
Sk iP 23 07 47.3
i 23 07 52.3
Um iP 23 07 47.1
Ud iP 23 07 15.3
i 23 07 18.9
De iP 23 06 39.4
Greece (h = 15 km).

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

1974						1974						
Dec.	2	Up	iP	23 14	23.1	Dec.	4	(cont.)				
		Ud	iP	23 14	29.2			Up		micr sec		
				Greece (h = N).				P	Z'	0.2 1.5		
"	3	Up	iX	03 20	49.7			Ki	eP	02 48 02		
				micr sec				Sk	iP	02 47 36.2		
		Mx	E	7.3	21			Um	iP	02 47 43.4		
		Mx	N	9.3	20				i	02 47 48.9		
		Mx	Z	14	22			Ud	iP	02 47 14.0		
		Ki	iP	03 20	25.6				i	02 47 19.3		
			iX	03 20	34.7			Ascension Island (h = N).				
			i(PP)	03 24	26.9			Double P.				
			i	03 24	47.3		"	4	Up	iP		
				micr sec					il	03 20 19.7		
		X	Z'	0.4	1.4				i2	03 20 22.8		
		i	Z'	0.6	1.9				iS	03 20 32.9		
		Mx	E	14	18					03 30 43		
		Mx	N	25	23					micr sec		
		Mx	Z	12	20			P	Z'	1.0 2.0		
		Um	iX	03 20	39.7			i2	Z'	0.5 1.4		
		Ud	iP	03 20	51.8			Mx	E	15 19		
			iX	03 20	58.3			Mx	N	24 22		
		De	iX	03 21	03.5			Mx	Z	27 20		
		Banda Sea (h = N).						Ki	iP	03 20 21.4 C		
		M = 6.5 (Up,Ki).							il	03 20 24.9		
		X is larger, sharper and more pronounced than P.							iS	03 30 46		
"	3	Up	iSgl	10 28	22.3					micr sec		
		Ki	iPn	10 25	15.8			P	Z'	0.2 1.4		
			iPgl	10 25	21.1			il	Z'	1.2 1.7		
			iS*	10 25	55.7			Mx	E	41 18		
			iSgl	10 25	58.4			Mx	N	27 17		
				micr sec				Mx	Z	34 18		
		Sk	Sgl	Z'	0.2 0.5			Sk	iP	03 20 34.7		
			iPgl	10 25	35.4				il	03 20 38.4		
			i	10 25	54.4			Um	iP	03 20 17.3 C		
			iSn	10 26	10.3				il	03 20 20.3		
			iSgl	10 26	24.7				i2	03 20 32.7		
		Um	iPn	10 25	36.4 C				iS	03 30 40		
			iSn	10 26	23.9			Ud	iP	03 20 30.7 C		
			iSgl	10 26	44.3				il	03 20 33.8		
		Ud	iSn	10 27	31.2				i2	03 20 44.0		
			iSgl	10 28	13.0			De	iP	03 20 28.4 C		
		Coast of Nordland, Norway, 67.1°N, 13.6°E.							il	03 20 31.7		
		Origin time = 10 24 31.							i2	03 20 42.0		
"	3	Ud	iP	19 29	43.9			Sumatra (h = 20 km).				
		Kurile Islands (h = 35 km).						m = 6.6, M = 6.9 (Up,Ki).				
"	4	Up	iP	02 47	16.0			Complicated series of onsets following P.				
			i	02 47	20.1			"	4	Um	iP	
		(cont.)								Ud	iP	
											10 10 47.4	
											10 11 19.3 C	
											Kurile Islands (h = N).	
"	4	Ud	iP	17 41	33.9			"	4	Ud	iP	
		Molucca Passage (h = 60 km).										17 41 33.9

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

1974				1974			
Dec.	4	Ki iPKP	20 02 32.5 C	Dec.	5	Um iP	12 50 16.0
		South Sandwich Islands					
		(h = N).		"	5	Ud i	14 21 13.1
"	4	Ki iP	20 24 25.1			i(Sgl)	14 21 53.1
		Ud iP	20 25 16.5	"	5	Up i(P)	18 10 15.8
		Aleutian Islands (h = 40 km).				Um iP	18 09 59.6
"	4	Ud iP	23 26 38.3			South of Japan (h = N).	
		Greece.		"	5	Um iP	20 36 15.2
"	5	Up iP	03 28 49.4			South of Japan (h = N).	
			micr sec	"	5	Up iP	23 09 30.5
		P	Z' 0.1 0.8			Ki iP	23 08 45.2
		Ki iP	03 28 20.4			Um iP	23 09 05.9
		Um iP	03 28 30.9			Ud iP	23 09 37.2
		Ud iP	03 28 55.3			Kurile Islands (h = 180 km).	
		Mariana Islands (h = 190 km).		"	6	Ud iP	06 42 01.5
"	5	Ud iP	06 55 39.2	"	6	Up iP	14 11 31.3
"	5	Up iP	12 10 48.0				micr sec
		i	12 10 51.0			Mx	E 1.9 20
		iSKS	12 21 07			Mx	Z 2.7 22
		iS	12 22 00			Ki iP	14 11 25.9
		iPKKP	12 27 26.9				micr sec
			micr sec			P	Z' 0.1 1.5
		P	Z' 0.2 1.5			Mx	E 1.6 17
		i	Z' 0.9 1.6			Mx	N 1.3 17
		Ki iP	12 10 53.9 D			Mx	Z 1.5 16
		iSKS	12 21 17			Sk iP	14 11 15.5
		iS	12 22 14			Um iP	14 11 27.9
		iPKKP	12 27 18.3			Ud iP	14 11 18.7
		i	12 27 22.6			i	14 11 22.3
			micr sec			Panama-Costa Rica (h = 45 km).	
		P	Z' 0.3 1.2			M = 5.6 (Up,Ki).	
		Sk iP	12 10 40.1 D	"	6	Um iP	14 16 31.8
		iPKKP	12 27 32.2			Ud iP	14 16 40.2
		Um iP	12 10 56.0 D			i	14 16 46.6
		iSKS	12 21 17	"	6	Up iP	14 29 35.5
		iS	12 22 11			Ki iP	14 29 00.9
		iPKKP	12 27 20.7	"	6	Ki eP	17 18 02
		Ud iP	12 10 39.8			Sk iP	17 18 31.0
		i	12 10 42.1			Um iP	17 18 16.7
		iPKKP	12 27 32.7			Ud eP	17 18 40
		De iP	12 10 38.4			Mariana Islands (h = N).	
		iPKKP	12 27 34.4	"	6	Up iP	17 21 42.3
		Peru-Brazil (h = 160 km).				Ki iP	17 21 12.6
		m = 6.8 (Up,Ki).				(cont.)	
"	5	Up e(P)	12 34 59				
		Um iP	12 35 32.7				
		i	12 35 40.4				

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

1974				1974			
Dec.	6	(cont.)		Dec.	7	(cont.)	
		Ki	micr sec			Ki	i(pP) 07 44 25.4
		P	Z' 0.1 0.9				micr sec
		Sk	iP 17 21 39.2			P	Z' 0.3 0.9
		Um	iP 17 21 25.6			(pP)	Z' 0.5 1.6
			i 17 21 42.6			Mx	E 4.6 17
		Ud	iP 17 21 48.7			Mx	N 4.8 17
		Mariana Islands (h = N).				Mx	Z 4.4 17
"	6	Um	iP 18 36 15.1			Sk	iP 07 44 47.1
						i	07 44 49.1
"	6	Up	e(P) 20 17 10			Um	iP 07 44 43.0 C
			i 20 17 33.8			i	07 44 45.2
		Um	i(P) 20 17 35.4			iS	07 53 24
"	6	De	iPKP 21 54 20.6			iP'P'	08 13 31.4
		New Hebrides Islands				Ud	iP 07 45 09.4 C
		(h = 20 km).				i	07 45 11.1
"	7	Um	i(P) 00 54 52.8			ipP	07 45 20.6
						De	iP 07 45 31.8
"	7	Up	iP 00 58 06.4			i	07 45 34.2
		Um	iP 00 57 38.2			Aleutian Islands.	
		Ud	iP 00 58 06.9			h = 45 km (Up,Ud).	
		Aleutian Islands (h = 25 km).		"	7	Up	iPKP1 09 43 35.6
"	7	Ud	i(Sgl) 01 05 11.8			Ki	iPKP1 09 43 18.3
"	7	Ud	i(Sgl) 03 48 24.4				ipPKP1 09 43 35.6
"	7	Ud	iP 03 48 37.8			Sk	iPKP1 09 43 31.6
		Kurile Islands (h = N).					ipPKP1 09 43 49.2
"	7	Up	iP 06 06 49.4			Um	iPKP1 09 43 26.6 C
		Ki	iP 06 06 34.6				ipPKP1 09 43 44.5
		Sk	iP 06 07 05.7 C			Ud	iPKP1 09 43 38.0
		Um	iP 06 06 35.4 C				ipPKP1 09 43 55.6
		Ud	iP 06 07 06.0			De	iPKP1 09 43 50.3
		Kazakh SSR.				New Zealand.	
		Underground explosion.		"	7	Um	iP 11 15 01.8
"	7	Up	iP 07 45 09.7 C			Ud	iP 11 15 29.1
		i	07 45 11.9			South of Japan (h = N).	
		ipP	07 45 21.8	"	7	Up	iRg 11 20 12.1
		iS	07 54 10			Ud	iRg 11 19 58.3
		iP'P'	08 13 39.7			Central Sweden.	
						Near-surface event.	
			micr sec	"	7	Up	iPKP1 12 27 42.3 C
		P	Z' 0.2 1.0				ipPKP1 12 27 48.3
		Mx	E 2.0 18			Sk	iPKP1 12 27 38.8
		Mx	N 3.5 18			Um	iPKP1 12 27 31.1
		Mx	Z 4.8 18			Ud	iPKP1 12 27 44.1 C
		Ki	iP 07 44 16.7 C				ipPKP1 12 27 51.3
		i	07 44 18.4			De	iPKP1 12 27 53.3
		(cont.)				(cont.)	

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

1974						1974				
Dec.	7	(cont.)				Dec.	7	(cont.)		
		New Zealand region.						De	iP	22 13 55.9
		h = 20 km (Up,Ud).							ipP	22 14 05.6
		Origin time = 12 07 49.						Aleutian Islands.		
								h = 35 km (Up,Um,Ud,De).		
								m = 5.9 (Up,Ki).		
"	7	Up	iP	14 05 21.2		"	8	Ki	iP	01 30 45.2
			ipP	14 05 37.0				Iceland (h = 30 km).		
		Ki	iP	14 05 10.9		"	8	Sk	iP	03 53 59.5
		Sk	iP	14 05 37.1				Iceland (h = 15 km).		
			ipP	14 05 54.4		"	8	Up	iP	04 03 32.6
		Um	iP	14 05 13.2				Ud	iP	04 03 49.1
			ipP	14 05 30.1				De	iP	04 03 46.9
		Ud	iP	14 05 34.3				Afghanistan-USSR		
			ipP	14 05 50.6				(h = 230 km).		
		De	iP	14 05 34.7		"	8	Ud	iP	05 46 32.7
		Burma-India.						De	iP	05 45 57.9
		h = 60 km (Up,Sk,Um,Ud).						Aegean Sea (h = 40 km).		
"	7	Up	eP	14 38 31		"	8	Sk	iP	06 59 36.7
		Um	iP	14 38 35.6 C				Um	ipP	06 59 24.7
		Ud	iP	14 38 25.8 C				Ud	iP	06 59 30.9
		De	iP	14 38 29.7					ipP	06 59 51.8
		Costa Rica (h = 45 km).						Afghanistan-USSR.		
"	7	Up	iPKP	14 45 27.9		"	8	h = 100 km (Ud).		
		De	iPKP	14 45 36.4		"	8	Um	iP	07 28 43.6
		Solomon Islands (h = 90 km).				"	8	Up	iP	08 47 16.8
"	7	De	ePKP1	15 15 24				Um	iP	08 47 04.8
"	7	Up	iP	18 10 36.5				Ud	iP	08 47 26.0
		Ud	iP	18 10 42.6				Caroline Islands (h = 60 km).		
		Bonin Islands (h = N).				"	8	Ud	i(P)	10 43 16.7
"	7	Up	iP	18 33 59.3		"	8	Ud	iPKP1	12 49 47.6
		Ud	iP	18 34 04.3		"	8	Ud	iP	17 34 02.6
		Greece.						Unimak Island (h = N).		
"	7	Sk	iP	20 18 36.5		"	8	Ud	iPKP1	19 45 05.9 C
		Ud	iP	20 18 47.9				De	iPKP1	19 45 17.3
"	7	Up	iP	22 13 32.4 C		"	8	Ki	iP	22 37 41.5
			ipP	22 13 40.3				Leyte (h = 60 km).		
				micr sec		"	8	Up	iP	15 23 23.8
			P	Z' 0.1 0.9				Um	iP	15 23 30.2
		Ki	iP	22 12 39.0 C						
				micr sec						
			P	Z' 0.1 1.0						
		Sk	iP	22 13 12.8						
		Um	iP	22 13 05.1						
			ipP	22 13 15.0						
		Ud	iP	22 13 34.3						
			ipP	22 13 44.0						
		(cont.)								

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

1974				1974					
Dec.	9	Ud	iPgl	15 42 21.8	Dec.	10	Ki	iP	02 40 46.0
			iSgl	15 42 25.8				i	02 40 53.0
			iRg	15 42 28.2					micr sec
"	9	Ki	iPgl	19 09 03.5 C				P	Z' 0.1 1.0
			iSgl	19 09 27.9			Sk	eP	02 40 12
		Um	iSgl	19 09 47.0			Um	iP	02 40 39.2
				Tornedalen, Sweden,				i	02 40 46.1
				66.1° N, 23.4° E.			Ud	iP	02 40 09.8
				Origin time = 19 08 24.					North Atlantic Ocean
				Solution from Helsinki					(h = N).
				regional bulletin.					Double P (Ki,Um).
"	9	Ud	iP	23 16 39.3	"	10	Um	iP	03 56 17.5
				Greece.			Ud	iP	03 56 48.9
									Japan (h = N).
"	10	Ud	iPKPl	01 22 48.4	"	10	Ud	iP	08 31 28.0
		De	iPKPl	01 22 58.4					Aegean Sea (h = N).
				Fiji Islands (h = 630 km).					
"	10	Up	iP	01 48 28.9 C	"	10	Ud	iP	13 10 13.3
			ipP	01 49 14.6					Japan (h = N).
			isP	01 49 39.0					
				micr sec					
			P	Z' 1.3 1.3			Up	iP	13 13 43.4
			pP	Z' 0.6 1.2				ipP	13 13 55.4
			sP	Z' 0.9 1.3			Ki	iP	13 12 59.6
								ipP	13 13 10.9
		Ki	iP	01 48 37.4					micr sec
			i	01 48 47.0				pP	Z' 0.1 1.0
			ipP	01 49 21.9			Sk	iP	13 13 33.9
				micr sec				ipP	13 13 45.1
			P	Z' 0.8 0.9			Um	iP	13 13 19.6
			pP	Z' 0.3 1.1				ipP	13 13 30.2
		Sk	iP	01 48 54.6 C			Ud	iP	13 13 50.1 D
			ipP	01 49 39.4				ipP	13 14 01.2
			isP	01 50 03.2			De	iP	13 14 05.2
		Um	iP	01 48 26.5 C					Japan.
			ipP	01 49 11.1					h = 40 km (Up,Ki,Sk,Um,Ud).
			isP	01 49 36.8	"	10	Ud	iP	15 31 56.9
		Ud	iP	01 48 44.5 C				ipP	15 32 07.2
			ipP	01 49 29.3					Japan.
			isP	01 49 55.8					h = 40 km (Ud).
		De	iP	01 48 41.1	"	10	Ud	iP	19 37 34.2
			ipP	01 49 26.2	"	10	Up	iP	19 58 29.4
			isP	01 49 51.7			Sk	iP	19 58 59.3
				Hindu Kush.			Um	iP	19 58 33.3
				h = 220 km (Up,Ki,Sk,Um,Ud,			Ud	iP	19 58 45.1
				De).					Pakistan (h = 45 km).
				m = 6.2 (Up,Ki).	"	11	Ud	iP	01 13 12.7
				sP has larger amplitudes					(cont.)
				than pP.					

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

1974

Dec.	11	(cont.)						
		Ud	i	01 13 16.8				
		Japan (h = 70 km).						
"	11	Ud	i(P)	12 12 15.8				
"	11	Up	iPKP1	15 23 53.9				
		Ud	iPKP1	15 23 56.1				
"	11	Ud	iP	20 29 07.2				
		Venezuela (h = 110 km).						
"	12	Up	iP	13 02 44.8				
		✓ Ki	iP	13 02 36.9				
			i	13 02 47.5				
				micr sec				
			P	Z' 0.1 1.0				
		Um	iP	13 02 41.3				
		Ud	iP	13 02 59.8				
		Banda Sea (h = 20 km).						
"	12	Ud	i(P)	13 34 09.6				
"	12	Up	iP	21 23 26.8				
		Ki	iP	21 22 26.5				
			iS	21 24 34.2				
				micr sec				
			S	Z' 0.1 0.9				
		Sk	iP	21 23 37.3 D				
		Um	iS	21 24 52.3				
		Ud	iP	21 24 02.0				
			i	21 24 50.3				
		De	iP	21 24 36.6				
"	13	Up	iP	07 43 17.1				
			ipP	07 43 39.4				
		Ki	iP	07 43 00.2				
			ipP	07 43 23.3				
		Um	iP	07 43 04.6				
		Ud	iP	07 43 25.5				
			ipP	07 43 48.6				
		Talaud Islands.						
		h = 90 km (Up,Ki,Ud).						
"	13	Ki	iP	07 56 47.9				
		Ud	iP	07 57 10.8				
		Talaud Islands (h = 90 km).						
"	13	Ud	iP	08 13 56.4				
"	13	Up	i(Rg)	15 54 52.6				
"	13	Ud	iP	18 19 11.2				
		Hindu Kush.						
		Intermediate depth.						

1974

Dec.	14	Up	iP	02 41 27.2 C				
				micr sec				
			P	Z' 0.2 0.9				
			Mx	E 1.7 15				
			Mx	N 3.7 14				
			Mx	Z 4.3 13				
		Ki		micr sec				
			Mx	E 4.5 18				
			Mx	N 2.4 16				
			Mx	Z 2.0 14				
		Sk	iP	02 42 07.1 C				
			i	02 42 08.8				
		Um	iP	02 42 04.8 C				
			i	02 42 07.4				
		Ud	iP	02 41 33.4 C				
			i	02 41 37.2				
		De	iP	02 40 56.8				
		Greece (h = N).						
		M = 5.1 (Up,Ki).						
"	14	Up	iP	10 33 22.7				
		Ud	iP	10 33 27.2				
		Kurile Islands (h = N).						
"	14	Up	iP	12 42 25.4 C				
				micr sec				
			P	Z' 0.1 0.9				
		Ki	iP	12 41 36.1				
		Sk	iP	12 42 12.0 C				
		Um	iP	12 42 00.7				
		Ud	iP	12 42 30.6 C				
		Kurile Islands (h = N).						
"	14	Up	iP	14 07 13.6				
			i	14 07 28.0				
		Ki	iP	14 07 14.8				
				micr sec				
			P	Z' 0.2 1.8				
		Sk	iP	14 07 31.5				
		Um	iP	14 07 14.6				
		Ud	iP	14 07 24.9				
		Sumatra (h = 60 km).						
"	14	✓ Up	iP	20 20 21.0				
				micr sec				
			P	Z' 0.1 1.0				
		Ki	iP	20 20 04.0				
				micr sec				
			P	Z' 0.1 0.8				
		Sk	iP	20 20 25.5				
		Um	iP	20 20 09.5				
		Ud	iP	20 20 29.0				
		Halmahera (h = 220 km).						
		m = 6.1 (Up,Ki).						

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

1974				1974								
Dec.	14	Up	iP	21 34 08.4	D	Dec.	16	Up	iP	06 47 53.0		
			P					Ki	iP	06 47 37.1		
			Z'	0.1	0.8			Sk	iP	06 48 07.8		
		Sk	iP	21 34 49.6	D			Um	iP	06 47 37.6		
		Um	iP	21 34 49.0				Ud	iP	06 48 08.9	C	
		Ud	iP	21 34 15.2	D			De	iPP	06 49 43.0		
			i	21 34 16.7				Kazakh SSR.				
		De	iP	21 33 40.2				Underground explosion.				
		Greece (h = 10 km).										
"	15	Up	i(Rg)	14 01 08.9		"	16	Up	Mx	09 00		
										micr sec		
									Mx	E	1.3 22	
"	15	Ki	iP	18 25 55.6					Mx	Z	2.4 22	
		Um	iP	18 26 45.7				Ki	Mx	09 02		
		Ud	iP	18 27 36.7						micr sec		
		Norwegian Sea (h = N).							Mx	E	1.5 16	
"	15	Ud	iP	18 44 35.2					Mx	N	2.3 21	
			i	18 44 40.0					Mx	Z	2.1 17	
		Volcano Islands (h = N).							Easter Island (h = N).			
"	15	Up	iPKP1	22 24 12.0		"	16	Up	i(P)	14 11 27.5		
			i	22 24 29.6								
		Sk	iPKP1	22 24 08.6		"	16	Up	i	21 12 12.0		
		Um	iPKP1	22 24 00.7	C				iSg1	21 12 15.0		
		Ud	iPKP1	22 24 13.4					iRg	21 12 17.3		
		Kermadec Islands (h = N).						Um	i(Sg2)	21 14 06.4		
"	16	Ud	iP	04 24 08.2				Ud	iPgl	21 12 40.1		
"	16	Up	iPKP1	05 22 51.5	C				iSg1	21 13 08.5		
		Sk	iPKP1	05 22 42.6	C			Dannemora, Sweden,				
		Um	iPKP1	05 22 35.4				60.1°N, 17.5°E.				
		Ud	iPKP1	05 22 48.8				Origin time = 21 12 02.				
		De	iPKP1	05 23 01.8	C			Rockburst at the iron ore				
		Kermadec Islands (h = 60 km).						mines.				
"	16	De	iPKP	05 30 30.3				Probably a double rupture,				
		Solomon Islands (h = 150 km).						2.0 sec apart, as evidenced				
"	16	Up	iP	06 29 53.7	C			by Up records.				
			iPn	06 30 54.2				Felt.				
		Ki	iP	06 29 37.5		"	16	Up	i(P)	21 38 38.4		
								Ud	i(P)	21 38 43.9		
						"	17	Ud	iP	04 37 41.9	C	
								Sumatra (h = N).				
			P			"	17	Um	iP	10 37 07.8		
			Z'	0.1	0.6			South of Japan (h = 35 km).				
		Sk	iP	06 30 08.3		"	17	Up	iPKP1	15 55 09.6		
		Um	iP	06 29 38.0	C					micr sec		
		Ud	iP	06 30 09.2	C				PKP1	Z'	0.1 1.0	
			iPP	06 31 33.3				Ki	iPKP1	15 55 10.1	C	
		De	iP	06 30 17.3				(cont.)				
			iPP	06 31 43.6								
		Kazakh SSR.										
		Underground explosion.										

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

1974				1974						
Dec.	17	(cont.)		Dec.	18	Up	i(P)	14 10 53.5		
		Ki	micr sec			"	18	Ud	iPgl	14 24 51.0 C
		PKP1	Z' 0.2 1.3						iSgl	14 25 08.1
		Sk	iPKP1 15 55 24.4			"	18	Um	iP	18 11 15.8
		Um	iPKP1 15 55 12.4 C						i	18 11 22.6
		Ud	iPKP1 15 55 25.3 C						i	18 11 31.6
		De	iPKP1 15 55 16.6						Japan (h = 30 km).	
		West of Macquarie Islands (h = N).				"	18	Up	iPKP1	20 11 13.4
	17	Ud	iPKP 23 21 24.5					Sk	iPKP1	20 11 05.3
	18	Up	i(P) 02 03 40.3					Um	iPKP1	20 11 02.2
	18	Up	iP 02 39 22.9			"	18	Up	iPn	20 14 22.6
		Ki	iP 02 39 28.4						i	20 14 36.7
		Um	iP 02 39 19.6						iSn	20 16 03.2
		Ud	iP 02 39 42.4 C						i	20 16 24.8
		Tadzhik-Sinkiang (h = 40 km).							iSgl	20 16 49.5
	18	Ki	iP 03 34 01.4						micr sec	
		Ud	iP 03 34 13.2					Ki	Sgl	Z' 0.2 0.8
		Tadzhik SSR (h = 50 km).							iPn	20 13 13.5
	18	Ki	iP 05 42 14.5						i	20 13 14.7
		Ud	iP 05 43 06.8						iPgl	20 13 21.7
		Aleutian Islands (h = 40 km).							i	20 13 26.4
	18	Up	iP 08 03 20.5						iSn	20 13 56.2
			micr sec						iSgl	20 14 13.0
		Mx	E 2.6 14						micr sec	
		Mx	N 1.8 13						Pn	Z' 0.2 0.4
		Mx	Z 3.2 12						Sn	Z' 0.3 0.5
		Ki	e(P) 08 02 50					Sk	Sgl	Z' 0.5 0.5
			micr sec						iPn	20 13 19.9
		Mx	N 1.7 9						iPgl	20 13 27.5
		Sk	iP 08 03 22.5 C						iSn	20 14 11.4
		Ud	iP 08 03 29.7						iS*	20 14 22.9
		Mongolia (h = N).							iSgl	20 14 26.9
		M = 5.4 (Up,Ki).						Um	iRg	20 14 50.5
	18	Up	iP 11 44 01.6						iPn	20 13 39.6
		Ki	iP 11 43 26.5						i	20 13 41.1
		Um	iP 11 43 40.6						iPgl	20 13 49.7
		Ud	iP 11 44 09.3						iSn	20 14 44.5
		South of Japan.							iSgl	20 15 08.6
	18	Sk	i(P) 11 45 47.2					Ud	iPn	20 14 09.5
		Mexico (h = N).							i	20 14 16.6
	18	Ki	iP 12 33 35.4						iSn	20 15 30.3
			i 12 33 44.7						i	20 15 44.9
		Banda Sea (h = N).						De	iPn	20 15 04.8
									i	20 17 43.9
									iSgl	20 18 16.3
									Norwegian Sea (h = N).	
									The doubling of Pn and possibly Sn (Ki,Um,Ud, and possibly Up) is quite pronounced, suggesting a (cont.)	

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

1974				1974			
Dec.	Day	Station	Time	Dec.	Day	Station	Time
18	(cont.)	more complicated structure at the Moho discontinuity. Rg at Sk suggests very shallow focal depth, also supported by the clear appearance of Pgl and Sgl at nearly all stations.		19	(cont.)	Ki	iP 16 13 34.4
							iS 16 24 11
							micr sec
						P	Z' 0.6 2.1
						Mx	E 4.5 22
						Mx	N 3.0 22
						Mx	Z 4.9 24
"	18	Ud	iP 20 42 13.1			Sk	iP 16 13 19.8
		Hindu Kush.					i 16 13 21.0
		Intermediate depth.				Um	iP 16 13 36.1
							i 16 13 37.8
"	18	Sk	iP 21 36 12.0				iS 16 24 13
		Um	iP 21 36 06.1			Ud	iP 16 13 24.7
		Ud	iP 21 35 39.8				i 16 13 25.9
		De	eP 21 35 03			De	eP 16 13 26
		Aegean Sea (h = 40 km).					i 16 13 27.9
"	18	Ki	iP 23 13 08.5				Panama (h = 15 km).
		Ud	iP 23 13 57.5				m = 6.2, M = 5.7 (Up,Ki).
"	18	Up	i(P) 23 49 30.4	"	19	Up	iP 21 13 49.6
						Ud	iP 21 13 36.3
"	19	Up	iPKP1 01 38 28.9	"	19	Ud	iP 21 50 48.4
		Sk	iPKP1 01 38 23.3				
		Um	iPKP1 01 38 18.1	"	19	Up	iPKP1 23 48 31.7
			i 01 38 28.8			Um	iPKP1 23 48 20.7
			i 01 38 40.3			Ud	iPKP1 23 48 33.6
		Ud	iPKP1 01 38 29.5			De	iPKP1 23 48 43.4
		South of Kermadec Islands.					Tonga-Kermadec Islands (h = 200 km).
"	19	Ud	iPKP1 10 09 08.5	"	20	Up	i(PKP) 02 59 02.7
		De	iPKP1 10 09 20.3				iPKP 02 59 06.1
"	19	De	iP 15 23 48.6			Ki	iPKP 02 58 49.5
		South of Greece.				Sk	iSKP1 03 01 51.7
"	19	Up	iPKP 15 52 03.6			Um	i(PKP) 02 58 48.4
		Ki	iPKP 15 51 49.8				iPKP 02 58 57.4
		Sk	iPKP 15 52 00.8			Ud	i(PKP) 02 58 56.3
		Um	iPKP 15 51 55.8				iPKP 02 59 05.8
		Ud	iPKP 15 52 06.3			De	i(PKP) 02 59 09.2
		De	iPKP 15 52 12.2				iPKP 02 59 14.9
		Santa Cruz Islands (h = 130 km).					Fiji Islands (h = 370 km).
"	19	Up	iP 16 13 33.9	"	20	Up	iP 03 12 51.4
			iS 16 24 10			Ud	iP 03 13 00.4
			micr sec	"	20	Up	iP 03 37 02.1
		P	Z' 0.2 1.5				iX 03 37 13.2
		Mx	E 1.4 19			Ki	iP 03 37 27.6
		Mx	N 1.4 20				iX 03 37 41.6
		Mx	Z 3.7 21				micr sec
		(cont.)				P	Z' 0.1 0.7
						Sk	iP 03 37 32.1
						(cont.)	

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

1974				1974			
Dec.	20	(cont.)		Dec.	20	(cont.)	
		Um	iP 03 37 09.1			Ki	iPcP 16 48 47.9
			iX 03 37 21.5				ipP 16 49 31.0
		Ud	iP 03 37 16.4				micr sec
			iX 03 37 29.2				P Z' 0.1 1.0
		De	iP 03 37 04.5			Sk	iP 16 48 35.3
			iX 03 37 17.5				iPcP 16 49 09.0
		Iran (h = 7 km).				Um	iP 16 48 21.1
		X is probably P of another smaller earthquake in nearly the same area.					iPcP 16 49 01.2
							ipP 16 49 51.9
"	20	Ki	iP 05 58 23.0			Ud	iP 16 48 52.6
		Turkey.					iPcP 16 49 21.1
"	20	Up	eP 06 08 05				ipP 16 50 21.9
"	20	Ud	i(Sgl) 08 32 12.5			De	iP 16 49 12.3
"	20	Ki	iP 12 26 32.5				ipP 16 50 45.4
		Ud	iP 12 27 29.6			Okhotsk Sea.	
		Kurile Islands (h = N).				h = 450 km (Up,Ki,Um,Ud,De).	
"	20	Ki	iP 13 37 40.9			m = 5.2 (Up,Ki).	
		Ud	iP 13 38 24.9			Exceptionally pronounced PcP at Up,Ud.	
		Japan (h = 70 km).		"	20	Up	iP 16 51 01.5
"	20	Up	iP 15 14 04.1 C			Ki	iP 16 50 29.9
			i 15 14 05.5			Um	iP 16 50 49.3
			i 15 14 19.7			Ud	iP 16 51 07.6
			micr sec			Kurile Islands.	
			P Z' 0.1 0.8	"	20	Up	iP 19 50 48.0
		Ki	iP 15 15 21.8 C			Sk	iP 19 50 47.5
			i 15 15 40.0			Ud	iP 19 50 57.1
		Sk	iP 15 14 47.8			Japan (h = 60 km).	
		Um	i 15 14 54.7	"	21	Up	iP 00 39 33.9
		Ud	iP 15 14 11.2 C			Ki	iP 00 39 38.5
			i 15 14 25.3			Sk	eP 00 39 23
		Greece-Albania (h = 10 km).				Ud	iP 00 39 26.0
"	20	Up	eP 16 06 38			Panama (h = N).	
		Sk	eP 16 07 20	"	21	Ud	iP 02 46 02.1
		Um	e(P) 16 07 19	"	21	Up	i(Sgl) 03 09 10.7
		Ud	iP 16 06 42.8	"	21	Up	iPKP 08 48 16.3
		Greece-Albania (h = N).				Um	iPKP 08 48 02.3
"	20	Up	iP 16 48 47.4			Samoa Islands (h = N).	
			iPcP 16 49 17.6	"	21	Up	iP 18 50 48.0
			ipP 16 50 19.8			Ud	iP 18 50 58.0
			micr sec			Japan (h = 45 km).	
			P Z' 0.1 1.0	"	21	Up	iP 20 50 31.1
		Ki	iP 16 47 58.4			Ki	iP 20 50 17.3
		(cont.)				Um	iP 20 50 18.6
						Ud	iP 20 50 44.5
						Burma-China (h = N).	

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

1974				1974					
Dec.	22	Up	iPKP1	02 38 11.8	Dec.	23	Up	iP	06 31 15.3
				micr sec					
			PKP1	Z' 0.1 0.9	"	23	Up	iP	09 54 48.7 C
		Ud	iPKP1	02 38 13.2					micr sec
		De	iPKP1	02 38 23.4				P	Z' 0.1 0.8
		Tonga-Kermadec Islands					Ki	iP	09 54 50.6 C
		(h = N).							micr sec
"	22	Up	iP	04 56 42.5				P	Z' 0.1 0.9
				micr sec			Sk	iP	09 55 09.8
			P	Z' 0.2 1.5			Um	iP	09 54 44.7 C
		Um	iP	04 56 20.9 C			Ud	iP	09 55 03.1 C
		Ud	iP	04 56 51.5			De	iP	09 55 03.5 C
"	22	Up	iP	05 43 07.9			Nepal (h = 45 km).		
		Ud	iP	05 43 09.0	"	23	Up	iPKP1	11 50 12.2
		Aleutian Islands (h = 55 km).					Ud	iPKP1	11 50 15.7
"	22	Up	iP	08 30 54.2				i	11 50 38.8
		Ki	iP	08 30 27.7			De	iPKP1	11 50 25.8
		Um	iP	08 30 37.6			Tonga-Kermadec Islands		
		Ud	iP	08 31 01.4			(h = 200 km).		
		Ryukyu Islands (h = 70 km).		"	23	Up	iP	16 36 45.2	
"	22	Up	iPKP1	13 34 49.7 C			Ud	iP	16 36 53.3
		Ud	iPKP1	13 34 52.1 C			De	iP	16 36 20.9
		Crete (h = N).		"	23	Sk	iP	23 55 01.7	
"	22	Up	iPKP	17 02 12.8			Um	iP	23 55 17.6
		Ki	iX	17 02 09.5			South of Panama (h = N).		
		Um	iX	17 02 16.8	"	23	Up	iP	23 57 15.2
			iSKP1	17 04 54.6			Hindu Kush.		
		Ud	iPKP	17 02 14.0			Intermediate depth.		
			iX	17 02 26.1	"	24	Sk	iPKP1	00 17 41.4
		Fiji Islands (h = 560 km).		"	24	Ud	iPKP1	00 17 53.1	
"	22	Up	iPKP1	18 26 10.5 C	"	24	Up	iP	00 49 59.4
				micr sec			Sk	iP	00 50 17.8
			PKP1	Z' 0.1 1.3			Um	i(P)	00 49 45.3
		Ud	iPKP1	18 26 13.0			Ud	iP	00 50 11.5
		Kermadec Islands (h = N).					Tibet.		
"	23	Up	iP	05 27 26.9	"	24	Um	iPKP	02 04 16.7
			i	05 27 36.0			Ud	ePKP	02 04 31
				micr sec			New Britain (h = 55 km).		
			P	Z' 0.1 1.3	"	24	Up	iP	02 22 52.0
		Ki	iP	05 28 02.9				ipP	02 23 28.1
				micr sec					micr sec
			P	Z' 0.1 1.1				pP	Z' 0.3 1.1
		Sk	iP	05 28 08.5			Ki	iP	02 22 41.6
			iPn	05 28 28.2				ipP	02 23 18.0
		Um	iP	05 27 36.5			(cont.)		
		Ud	iP	05 27 43.0					
		Caucasus (h = N).							
		m = 5.5 (Up,Ki).							

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

1974				1974				
Dec.	24	(cont.)		Dec.	24	Up	iP	14 30 41.9
		Ki	micr sec			Ud	iP	14 30 47.0
		pP	Z' 0.4 1.7			Italy.		
		Sk	iP 02 22 33.8	"	24	Up	iP	19 48 38.9
		ipP	02 23 09.6			Ki	iP	19 48 51.0
		Um	iP 02 22 49.2			Sk	iP	19 48 30.4
		ipP	02 23 25.8			Ud	iP	19 48 31.3
		Ud	iP 02 22 41.0			De	iP	19 48 32.6
		ipP	02 23 19.4			Windward Islands (h = 100 km).		
		De	iP 02 22 47.5	"	24	Um	iP	20 02 10.3
		ipP	02 23 25.6			Ud	iP	20 03 10.1
		Guatemala.					ipP	20 03 55.8
		h = 150 km (Up,Ki,Sk,Um,Ud, De).					isP	20 04 20.1
		The pP amplitudes are considerably larger than those of P at all our stations.				Hindu Kush. h = 220 km (Ud).		
"	24	Up	iP 07 08 33.7	"	25	Ki	ipKP	02 35 48.4
		ipP	07 12 04.8				PKP	Z' 0.1 1.0
		iS	07 19 10			Sk	ipKP	02 35 59.8
			micr sec			Um	ipKP	02 35 55.0
		P	Z' 1.5 2.0			Ud	ipKP	02 36 04.7
		PP	Z' 0.3 1.5				iSKP1	02 39 12.2
		Mx	E 9.6 20			De	ipKP	02 36 11.5
		Mx	N 20 20				iSKP1	02 39 24.4
		Mx	Z 23 20			New Hebrides Islands (h = 180 km).		
		Ki	iP 07 08 34.3	"	25	Up	iP	03 00 04.4 C
		i(S)	07 19 18				ipP	03 00 15.4
			micr sec					micr sec
		P	Z' 2.4 2.7				P	Z' 0.7 1.0
		Mx	E 23 15				Mx	E 3.5 17
		Mx	N 27 15				Mx	N 3.9 17
		Mx	Z 22 14				Mx	Z 4.9 20
		Um	iP 07 08 30.7			Ki	iP	02 59 10.9 C
		Ud	iP 07 08 44.5					micr sec
		ipP	07 12 12.7				P	Z' 0.5 1.2
		De	iP 07 08 42.6				Mx	E 4.1 17
		Sumatra (h = N).					Mx	N 4.5 17
		m = 7.0, M = 6.7 (Up,Ki).					Mx	Z 2.7 15
"	24	Up	iP 09 50 40.4			Sk	iP	02 59 44.9 C
		Um	iP 09 50 46.9				ipP	02 59 56.5
		Ud	iP 09 50 55.2			Um	iP	02 59 36.7 C
		Pakistan (h = N).					ipP	02 59 48.6
"	24	Up	iP 10 32 53.8			Ud	iP	03 00 05.8 C
		Ki	iP 10 34 02.0				ipP	03 00 17.0
		Ud	iP 10 33 03.3			De	iP	03 00 28.0 C
		Turkey (h = 25 km).				Aleutian Islands. h = 40 km (Up,Sk,Um,Ud). m = 6.6, M = 5.8 (Up,Ki).		
"	24	Ud	iP 11 30 33.0					

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

1974

Dec.	25	Up	iP	03 04 06.6
		Ki	iP	03 03 12.8
		Ud	iP	03 04 05.0
		Aleutian Islands.		
		Origin time = 02 53 14.		
"	25	Um	i(P)	03 29 28.5
		Ud	iP	03 29 53.6
		Aleutian Islands.		
		Origin time = 03 19 03.		
"	25	Um	i(P)	03 31 04.9
		Ud	iP	03 31 33.9
		Aleutian Islands.		
		Origin time = 03 20 41.		
"	25	Up	iP	06 53 43.1
		Ki	iP	06 52 51.6
		Ud	iP	06 53 45.3
		Aleutian Islands (h = N).		
"	25	Ud	iPKP1	07 38 53.9
			i	07 39 09.0
"	25	Ud	iP	07 58 32.5
"	25	Up	iP	08 05 36.8
				micr sec
			P	Z' 0.1 1.0
		Ki	iP	08 04 44.0 C
				micr sec
			P	Z' 0.1 1.1
		Sk	iP	08 05 16.4
		Um	iP	08 05 09.3
		Ud	iP	08 05 38.4
			ipP	08 05 48.6
		De	iP	08 06 00.2
		Aleutian Islands.		
		h = 40 km (Ud).		
		m = 5.9 (Up,Ki).		
"	25	Ud	iP	09 28 34.6
"	25	Ud	iP	09 30 59.1
"	25	Ki	iP	11 24 33.6
		Um	iP	11 25 01.8
		Ud	iP	11 25 25.8
		Unimak Island (h = 30 km).		
"	25	Sk	i(P)	11 43 29.6
		(cont.)		

1974

Dec.	25	(cont.)		
		Um	i(P)	11 40 41.0
			i	11 41 07.5
		Ud	i(P)	11 41 10.2
"	25	Up	iPKP1	12 52 18.9
			iPKP2	12 52 25.5
			ipPKP1	12 53 51.7
				micr sec
			PKP1	Z' 0.2 1.1
		Ki	iPKP1	12 52 01.1
		Sk	iPKP1	12 52 13.5
		Um	iPKP1	12 52 08.4
			ipPKP1	12 53 35.6
		Ud	iPKP	12 52 16.4
			iPKP1	12 52 20.2
		De	iPKP1	12 52 28.5
			iPKP2	12 52 43.1
		Kermadec Islands.		
		h = 380 km (Up,Um).		
"	25	Up	iP	15 12 47.1 C
		Ki	iP	15 11 56.5
				micr sec
			P	Z' 0.1 0.5
		Sk	iP	15 12 32.3
		Um	iP	15 12 19.9 C
		Ud	iP	15 12 51.9
		De	iP	15 13 11.9
		Okhotsk Sea (h = 520 km).		
"	25	Ud	iP	15 14 36.5
"	25	Um	iP	17 23 27.3
"	25	Ki	iP	17 26 31.5
				micr sec
			P	Z' 0.1 1.1
		Um	iP	17 26 39.5
		Ud	iP	17 26 59.7
		Caroline Islands (h = 25 km).		
"	25	Up	iP	23 13 03.4
		Ud	iP	23 13 21.6
		De	iP	23 13 06.0
		Iran.		
"	26	Ud	iP	00 10 10.6
		Celebes Sea (h = 360 km).		
"	26	Ud	iP	02 01 49.6

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

1974				1974					
Dec.	26	Ud	iPKP1	09 47 41.2	Dec.	27	Up	iPKP1	11 48 35.0
"	26	Up	iP	14 07 11.3			i	11 48 39.8	
		Ki	iP	14 08 21.3				micr sec	
		Sk	iP	14 07 49.0			PKP1	Z' 0.1 1.0	
		Um	iP	14 07 42.3			Ki	iPKP	11 48 16.9
		Ud	iP	14 07 17.2			Sk	iPKP1	11 48 27.0
		De	iP	14 06 45.6			i	11 48 40.2	
				Crete (h = N).			Um	iPKP1	11 48 13.5
"	26	Um	iP	14 25 09.9			Ud	iPKP1	11 48 36.1 C
		Ud	iP	14 24 58.0			De	iPKP1	11 48 45.1
							i	11 49 02.4	
								Kermadec Islands (h = 60 km).	
"	26	Up	iP	18 43 40.7	"	27	Up	iPKP1	12 16 00.2 D
		Ki	iP	18 44 18.1				micr sec	
		Sk	iP	18 44 16.6			PKP1	Z' 0.1 1.0	
		Um	iP	18 44 00.2			Ki	iPKP	12 15 45.6
		Ud	iP	18 43 56.7 C			Sk	iPKP1	12 15 53.0 D
		De	iP	18 43 40.7			Um	iPKP1	12 15 45.6
				Iran (h = N).			Ud	iPKP1	12 16 01.2
"	26	Up	iP	21 49 12.6			De	iPKP1	12 16 10.7 D
		Ki	iP	21 48 53.7				Kermadec Islands (h = 20 km).	
				micr sec	"	27	Ki	iP	23 00 17.9
				P Z' 0.1 1.3				Queen Elizabeth Islands	
		Um	iP	21 48 59.6				(h = N).	
			i	21 49 14.6	"	27	Up	iP	23 09 58.9
		Ud	iP	21 49 20.2			Ki	iP	23 10 42.3
				Samar (h = N).			Ud	iP	23 10 14.0 C
"	26	Up	iX	22 30 20.0			i	23 10 26.2	
		Um	iPKP1	22 30 02.4			De	iP	23 09 55.5
		Ud	iPKP1	22 30 15.9				Iran-Iraq.	
			iX	22 30 22.5	"	27	Ki	iP	23 28 12.5
				Kermadec Islands (h = 60 km).			Ud	iP	23 29 02.3
"	27	Ud	iPKP1	04 16 04.4				Queen Elizabeth Islands	
		De	iPKP1	04 16 15.6				(h = N).	
"	27	Up	iP	05 53 55.3 C				These readings exhibit distinct	
			iPn	05 54 49.6				positive residuals vs the	
				micr sec				NEIS solution.	
				P Z' 0.5 0.9	"	28	Ud	i	00 02 57.7
		Ki	iP	05 53 38.7 C				i(Sgl)	00 03 52.8
				micr sec	"	28	Up	iP	00 22 38.1 C
				P Z' 0.4 1.0			Ki	iP	00 21 43.4 C
		Sk	iP	05 54 09.4 C			Um	iP	00 22 12.0
		Um	iP	05 53 39.8 C			Ud	iP	00 22 36.9 C
		Ud	iP	05 54 11.4 C				Alaska (h = 45 km).	
		De	iP	05 54 18.5 C	"	28	Um	iP	00 27 49.5
				Kazakh SSR.			Ud	iP	00 28 19.4
				m = 6.4 (Up,Ki).					
				Underground explosion.					

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

1974				1974					
Dec.	28	Ud	iP	01 42 08.4	Dec.	28	(cont.)		
				Caucasus (h = N).			Ud	iPP	12 21 44.4
"	28	Um	iPKP1	02 14 05.5			De	iP	12 19 56.1 C
		Ud	iPKP1	02 14 18.1				iPP	12 21 40.2
			i	02 14 34.8					Pakistan (h = 20 km).
"	28	Up	iP	05 31 31.5					m = 6.5, M = 6.4 (Up,Ki).
		Ki	iP	05 31 06.5					Double P, smaller and
		Um	iP	05 31 16.3					larger, average separation
		Ud	iP	05 31 41.1					1.3 sec.
				Formosa (h = 120 km).	"	28	Up	iP	12 54 06.5
"	28	Up	iP	06 56 50.3				i	12 54 19.2
		Ki	iP	06 56 28.1			Ki	iP	12 54 14.8
		Um	iP	06 56 36.2				i	12 54 27.2
		Ud	iP	06 56 59.9			Sk	iP	12 54 31.1
				Formosa (h = 45 km).				i	12 54 43.0
"	28	Ud	i(Sgl)	09 16 40.4			Um	iP	12 54 04.6
"	28	✓Up	iP	12 19 42.9 C				i	12 54 16.8
			i	12 19 44.4			Ud	iP	12 54 22.8
			iPP	12 21 25.5				i	12 54 35.5
			iS	12 26 04			De	iP	12 54 18.5
			i	12 29 15				i	12 54 32.1
				micr sec					Pakistan (h = N).
		P	Z'	0.1 0.8					The second onset is probably
		i	Z'	1.1 1.0					P of another earthquake in
		PP	Z'	0.9 1.3					the same area, 12.6 sec
		Mx	E	14 14					later.
		Mx	N	29 16	"	28	Up	i(Sgl)	17 13 20.0
		Mx	Z	25 14				iRg	17 13 24.7
								i	17 13 46.5
		Ki	iP	12 19 51.0 C	"	28	Ki	iP	17 22 52.8
			i	12 19 52.2					Kurile Islands.
			iPP	12 21 33.7	"	28	Um	iP	19 10 28.7
			iS	12 26 17			Ud	iP	19 10 46.4
				micr sec					Pakistan.
		P	Z'	0.2 1.0					Origin time = 19 02 30.
		i	Z'	1.6 1.0	"	28	Up	iP	22 36 16.3
		PP	Z'	1.3 1.8			Ki	iP	22 36 23.8
		Mx	E	22 10			Sk	iP	22 36 40.7
		Mx	N	23 10			Um	iP	22 36 13.9 C
		Mx	Z	16 9				i	22 37 03.5
		Sk	iP	12 20 07.8 C			Ud	iP	22 36 32.5 C
			i	12 20 09.0			De	iP	22 36 29.8
			iPP	12 21 56.1					Pakistan (h = N).
		Um	iP	12 19 41.4 C	"	28	Up	iP	22 46 48.0
			i	12 19 42.6			Ki	iP	22 46 56.8
			iPP	12 21 24.4			Sk	iP	22 47 14.1
			iS	12 26 01			Um	iP	22 46 47.1
		Ud	iP	12 19 59.5 C					(cont.)
			i	12 20 00.8					
				(cont.)					

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

1974				1974			
Dec.	28	(cont.) Ud iP	22 47 04.7	Dec.	29	Ki iP	04 23 50.0
		Pakistan (h = N).				Banda Sea (h = 40 km).	
"	28	Ki iP	23 38 43.3	"	29	Up iP	05 06 32.7
		Volcano Islands (h = N).				iPP	05 08 02.1
"	29	Long-period microseisms (period around 16-18 sec), especially well developed on Um LP N.				Ki iP	05 06 37.6
						Sk iPP	05 08 34.4
						Um iP	05 06 28.3
						Ud iP	05 06 48.1
						iPP	05 08 21.4
						Tadzhik SSR (h = 70 km).	
"	29	Ki iP	00 02 01.8	"	29	Ud iP	06 51 50.5
		ipP	00 02 49.6				
		Sk iP	00 01 55.0	"	29	Up iP	10 07 20.9
		Um iP	00 02 09.3			Um iP	10 06 51.5
		ipP	00 02 56.2			Sea of Japan (h = 240 km).	
		Mexico-Guatemala. h = 190 km (Ki,Um).		"	29	Up iPKP1	10 33 09.5
						Ud iPKP1	10 33 11.0
"	29	Ki iP	02 00 06.3	"	29	Ki iP	13 41 35.9
		ipP	02 00 23.5			Aleutian Islands (h = 55 km).	
		Um iP	02 00 24.1	"	29	Ud iP	17 49 58.8
		ipP	02 00 41.6	"	29	Up iP	18 34 50.2
		Ud iP	02 00 54.8			iY	18 35 28.2
		ipP	02 01 11.9				micr sec
		Japan. h = 70 km (Ki,Um,Ud).				P	Z' 0.2 1.1
"	29	Up iP	03 54 04.0			Ki iP	18 33 54.2 D
		iS	03 57 23			y iX	18 34 16.3
			micr sec			iY	18 34 31.7
		P	Z' 0.4 1.5				micr sec
		Mx	E 1.3 10			P	Z' 0.2 0.9
		Mx	N 2.7 12			X	Z' 0.2 1.0
		Mx	Z 1.4 13			Y	Z' 0.1 1.0
		Ki iP	03 53 42.7			Sk iP	18 34 20.2 D
		i	03 53 49.4			iX	18 34 42.6
			micr sec			iY	18 34 57.4
		P	Z' 0.4 1.9			Um iP	18 34 22.9 D
		i	Z' 2.8 3.0			i(X)	18 34 42.4
		Mx	E 4.8 18			Ud iP	18 34 46.9 D
		Mx	N 3.3 15			iX	18 35 09.4
		Mx	Z 4.7 15			De iP	18 35 10.7 D
		Sk iP	03 53 13.2			iY	18 35 49.0
		Um iP	03 53 52.7			Alaska (h = 70 km).	
		i	03 53 56.7			m = 6.1 (Up,Ki).	
		Ud iP	03 53 38.0			The phases X and Y follow P	
		i	03 53 44.4			after 22.3 sec and 37.8 sec	
		De iP	03 54 06.9			in average, respectively.	
		Iceland (h = N).				Interpreted as pP and sP,	
		m = 5.6, M = 4.8 (Up,Ki).				respectively, they give	
		Double P onsets with				h = 100 km.	
		remarkably long period on					
		Z'.					

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

1974				1974								
Dec.	29	Um	iP	23 22	43.7	Dec.	30	Ki	iP	20 44	40.9	
"	30	Up	iP	03 43	03.6			Um	iP	20 44	40.3	
		Ki	iP	03 42	06.8			Ud	iP	20 44	21.0	
			i	03 42	20.3			Leeward Islands (h = N).				
							"	30	Ki	iPKP	21 25	16.8
			i	Z'	0.1 1.0			South Sandwich Islands (h = N).				
		Sk	iP	03 42	34.4							
		Um	iP	03 42	36.4 C							
			i	03 43	07.6		"	31	Um	iP	00 07	55.1 C
		Ud	iP	03 42	59.4 C			Ud	iP	00 08	25.1	
			i	03 43	18.9			Japan (h = 50 km).				
		De	iP	03 43	25.2 C		"	31	Up	iP	04 48	00.5
			i	03 43	41.3							
		Alaska (h = 60 km).										
"	30	Up	iP	04 55	15.1 C				P	Z'	0.1 1.1	
			i	04 55	19.8			Ki	iP	04 47	07.9	
			iPP	04 56	41.8							
									P	Z'	0.1 1.0	
								Um	iP	04 47	33.8	
			P	Z'	0.2 0.8			Ud	iP	04 48	01.8	
			PP	Z'	0.2 1.1				ipP	04 48	46.4	
		Ki	iP	04 55	25.7 C			Aleutian Islands. h = 180 km (Ud). m = 5.5 (Up,Ki).				
			P	Z'	0.1 0.8		"	31	Up	iPKP1	09 11	24.8
		Sk	iP	04 55	41.2			Um	iPKP1	09 11	08.0	
			iPP	04 57	24.7			Ud	iPKP1	09 11	22.1 C	
		Um	iP	04 55	14.6 C		"	31	Um	iP	15 58	10.8
			iPP	04 56	45.1			Ud	iP	15 58	12.7	
		Ud	iP	04 55	32.0 C			Caucasus.				
			iPP	04 57	10.5		"	31	Sk	iP	20 27	55.2
		De	iP	04 55	24.8			Um	iP	20 28	10.6	
			i	04 55	29.0			Ud	iP	20 28	03.8	
			iPP	04 57	02.0			Guatemala (h = 80 km).				
		Hindu Kush (h = 120 km). m = 5.8 (Up,Ki).										
"	30	Ki	iP	07 50	17.5		"	31	Up	iP	20 33	55.7
		Ud	iP	07 50	48.7							
"	30	Up	iP	15 27	59.3 C							
			P	Z'	0.1 0.9				Mx	E	2.6	17
		Um	iP	15 27	46.1				Mx	N	3.3	17
		Ud	iP	15 28	11.1 C				Mx	Z	5.4	20
		Szechwan, China (h = N).										
								Ki	iP	20 33	45.8	
"	30	Up	iP	16 32	27.5				Mx	E	5.6	15
		Ki	iP	16 32	36.0				Mx	N	5.2	19
		Ud	iP	16 32	44.1				Mx	Z	6.0	15
		Afghanistan-USSR (h = 40 km).										
								Sk	iP	20 33	34.8	
								(cont.)				

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

1974

Dec. 31 (cont.)

Um iP 20 33 51.2

Ud iP 20 33 43.0

De iP 20 33 51.7

Guatemala (h = 40 km).

M = 6.1 (Up,Ki).

Markus Båth

August 4, 1976