

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, 1971
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1971	July	1	Up	iP	01 30 15.2	1971	July	1	(cont.)		
				iPP	01 34 40.9				Ud	iPgl	10 18 10.4 C
				iSKS	01 40 38					iSgl	10 18 30.3
			Ki	iP	01 30 01.5				De	iS*	10 20 06.5
				iPP	01 34 21.2					iSgl	10 20 10.8
					micr sec						
				P	Z' 0.1 1.0						South Norway,
			Sk	iPKP	01 34 28.8						60.9°N, 11.4°E.
				i	01 37 49.8						Origin time = 10 17 46.
			Um	iP	01 30 06.1 C						Felt near Hamar.
				iPKP	01 34 22.6	"		1	Up	iSgl	11 55 31.2
				iSKS	01 40 30				Sk	eSgl	11 57 21
				iPKKP	01 45 52.9				Um	iSgl	11 55 59.7
			Ud	iP	01 30 24.6 C				Ud	eSgl	11 56 34
				iPP	01 34 59.5				De	eSgl	11 56 57
			De	iPKP	01 34 32.6						Estonia, 59.5°N, 25.8°E.
					Banda Sea (h = 130 km).						Origin time = 11 53 21.
			"	1	Up	i(Sgl)	04 07 39.3				Explosion.
			"	1	Ki	iP	04 45 26.1				
					Sk	iP	04 44 59.4				
					Ud	iP	04 44 29.3				
			"	1	Ki	i(Sgl)	08 56 06.8				
					Sk	i(Sgl)	08 56 26				
						i(Rg)	08 56 29.1				
			"	1	Up	iPgl	10 18 44.6				
						iSn	10 19 16.6				
						iSgl	10 19 28.9				
						micr sec					
					Sgl	Z' 0.1 0.7					
				Ki	eSgl	10 21 54					
				Sk	ePgl	10 18 32					
					iSgl	10 19 07.6					
			Um	iSgl	10 20 22.1						
			(cont.)								
			"	1	De	i(Pgl)	12 35 39.8				
						i(Sgl)	12 36 06.3				
			"	1	Ud	i(P)	14 03 26.6				
			"	1	Ud	i(P)	14 08 29.5				

FEB 20 1974

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

1971				1971					
July	1	Um	iP	14 13 38.1	July	1	Ud	iP	21 32 42.9
		Sakhalin.							
"	1	Up	iP	14 44 54.4	"	1	Um	iP	23 06 43.6
			iPP	14 46 25.5			Ud	iP	23 06 56.1
		Ki	eP	14 45 06	"	1	Up	iP	23 20 38.0
			ePP	14 46 51			Ki	iP	23 21 35.1
				micr sec			Um	iP	23 21 05.1
		Mx	E	0.4 12			Ud	iP	23 20 49.2
		Mx	N	0.2 10			De	iP	23 20 17.8
		Sk	iP	14 45 22.2			Turkey (h = N).		
		Um	iP	14 44 54.4	"	2	Up	iP	01 33 53.6
		Ud	iP	14 45 11.9			Ki	iP	01 33 37.6
			iPP	14 46 47.1			Sk	iP	01 34 01.3
		De	eP	14 45 04			Um	iP	01 33 43.5
		Hindu Kush (h = N).					Ud	iP	01 34 05.3
"	1	Up	e(Pgl)	15 17 02			Luzon (h = 60 km).		
			i(Rg)	15 17 06.0	"	2	Up	iP	03 43 41.7
"	1	Ki		micr sec			Ki	eP	03 44 07
		Mx	E	0.5 12			Sk	eP	03 43 38
		Um	iP	15 46 24.8			Um	iP	03 43 58.5
		De	i(P)	15 44 40.0			North Atlantic Ocean (h = N).		
		Hungary (h = N).			"	2	Up	iP	05 47 12.2
"	1	Ki	iSgl	16 24 04.3			i		05 47 15.0
		Sk	iSgl	16 24 08.8			iSKS		05 57 32
		Um	iSgl	16 24 30.9				micr sec	
		Nordland, Norway, 66.5°N, 14.1°E. Origin time = 16 22 35. Explosion.					P	Z'	0.1 1.0
							Mx	E	4.9 21
							Mx	N	16 21
							Mx	Z	6.0 20
"	1	Um	i(P)	17 18 26.1			Ki	iP	05 46 53.4
"	1	Up	i(P)	17 49 56.4			iSKS		05 57 12
"	1	Ki	iPgl	18 09 26.8				micr sec	
			iSgl	18 09 31.7			P	Z'	0.1 1.5
			iRg	18 09 33.2			Mx	E	5.7 19
		Sk	eSgl	18 12 12			Mx	N	12 22
		Um	iSgl	18 11 20.4			Mx	Z	7.4 18
		Lapland, Sweden, 67.6°N, 20.9°E. Origin time = 18 09 22. Explosion. Events in this area, probably mining operations, occur frequently, especially around 09 ^h . They will not be reported here.					Sk	iP	05 47 20.1
							Um	iP	05 47 00.4
							iSKS		05 57 17
							Ud	iP	05 47 20.1
							Luzon (h = 35 km). m = 6.0, M = 6.0 (Up, Ki).		
"	1	Up	iP	19 12 18.7		2	Up	iP	06 45 24.8
		Ud	iP	19 12 25.8				micr sec	
		De	eP	19 12 42			P	Z'	0.1 1.0
		Kurile Islands (h = 60 km).					Ki	iP	06 44 30.9
								micr sec	
							P	Z'	0.1 1.0
							Sk	iP	06 45 05.3
							Um	iP	06 44 56.7
							(cont.)		

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1971		1971	
July	3	July	3
	(cont.)	Um	iPKP 15 33 34.0
	Um iP 08 23 33.7 D	Ud	ePKP 15 33 45
	Ud iP 08 23 48.6 D		South of Kermadec Islands.
	i 08 24 04.9	"	3
	De eP 08 23 52	Um	iPKP 16 42 53.0
	Java (h = 80 km).	Ud	e(PKP) 16 43 12
"	3		South of Kermadec Islands.
	Um iPKP2 10 23 27.0	"	3
	Ud ePKP2 10 23 46	Um	iSgl 17 19 55.0
	South of Kermadec Islands.	Ud	iSgl 17 21 32.7
"	3		Lake Ladoga, Explosion.
	Up iSgl 10 31 27.1	"	3
	Ki iPn 10 26 49.8	Um	iP 18 39 52.9
	iSn 10 27 38.9	i	18 40 05.0
	iS* 10 27 52.9	Ud	i(P) 18 40 33.9
	Sk iSgl 10 30 35.3		Japan (h = 35 km).
	Um iSgl 10 29 21.7	"	3
	Ud eSgl 10 31 49	Um	iPKP 22 18 25.0
	Northwest Russia, 69.3°N, 31.3°E.	Ud	iPKP 22 18 37.2
	Origin time = 10 25 45.		South of Kermadec Islands.
	Explosion.	"	3
"	3	Up	ePKP 23 03 18
	Ki iPn 11 23 43.5	Um	iPKP 23 03 13.0
	iPgl 11 23 51.9	Ud	iPKP 23 03 19.8
	iSn 11 24 28.7	De	iPKP 23 03 31.6
	iS* 11 24 41.9		Fiji Islands (h = 580 km).
	Um iSgl 11 26 14.7	"	4
	Northwest Russia-Norway border region.	Um	ePP 00 04 00
	Explosion.	iPKKP	00 14 10.1
"	3	i	00 14 37.6
	Um iPKP 12 07 23.2	Ud	i(PP) 00 03 46.6
	Ud e(PKP) 12 07 50	iPKKP	00 14 37.8
	South of Kermadec Islands.		Chile-Argentina (h = 100 km).
"	3	"	4
	Up iPKP 12 30 56.6	Up	iPKP 03 49 27.3 D
	iSKP 12 33 48.1	Um	ePKP 03 49 16
	Ki iSKP 12 33 27.3	Ud	iPKP 03 49 29.6
	Sk ePKP 12 30 51	De	iPKP 03 49 39.8
	iSKP 12 33 42.3	"	4
	Um iPKP 12 30 51.1	Um	iP 04 06 15.5
	iSKP 12 33 37.1	Ud	eP 04 06 44
	Ud iPKP 12 30 58.8 C	"	4
	iSKP 12 33 50.1	Um	iP 07 33 08.6
	De iPKP 12 31 09.6 C	Ud	iP 07 33 28.4
	ipPKP 12 33 18.8		Tadzhik-Sinkiang (h = 90 km).
	iSKP 12 33 58.3	"	4
	Tonga-Kermadec Islands. h = 540 km (De).	Up	eP 09 15 17
"	3	Ki	iP 09 14 49.1
	Um iPKP 14 20 31.8		micr sec
	Ud iPKP 14 20 44.6	Mx	E 0.8 16
	South of Kermadec Islands.	Mx	N 0.6 16
		Mx	Z 1.2 19
			(cont.)

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1971				1971			
July	4	(cont.)		July	4		
		Sk eP	09 15 16			Ki iP	13 01 41.2
		Um iP	09 15 01.9			Ud iP	13 00 46.3
		Ud iP	09 15 23.9			Turkey.	
		De iP	09 15 38.1	"	4	Up iP	14 53 30.3 C
		Mariana Islands (h = 70 km).				Ki iP	14 52 37.8
"	4	Up iP	09 15 25.8			Um iP	14 53 03.9
		Ki iP	09 14 57.7			Ud iP	14 53 32.0 C
		Ud iP	09 15 34.8			De iP	14 53 52.6
		Ryukyu Islands (h = 120 km).				Aleutian Islands (h = 25 km).	
"	4	Ki iPKP	09 44 59.8	"	4	Ki iP	15 39 40.4
		Um iPKP	09 44 52.0			Um iP	15 40 00.5
		South Sandwich Islands (h = N).				Ud iP	15 40 31.5
						Kurile Islands (h = N).	
"	4	Ki eP	09 57 26	"	4	Um iP	18 24 05.2
			micr sec			Ud iP	18 24 31.5
		Mx E	0.7 16			South of Japan (h = 410 km).	
		Mx N	0.7 18	"	4	Up iP	18 44 22.5
		Sk eP	09 57 57			Ki iP	18 43 37.9
		Um iP	09 57 41.0			Sk iP	18 44 12.3
		Ud iP	09 58 09.7			Um iP	18 43 57.5
		De eP	09 58 21			Ud iP	18 44 28.4 C
		Japan (h = 5 km).				Kurile Islands (h = N).	
"	4	Up iP	11 43 17.1	"	4	Up iP	18 52 38.5
		iS	11 53 30			Ki eP	18 51 46
			micr sec			Um iP	18 52 12.1
		P Z'	0.1 1.0			Ud iP	18 52 37.5 C
		Mx E	2.5 19			De iP	18 53 00.3
		Mx N	2.9 23			Aleutian Islands (h = 30 km).	
		Mx Z	3.8 16	"	4	Up iP	19 16 07.2
		Ki iP	11 42 58.8			Ki iP	19 16 06.1
			micr sec			Sk iP	19 16 19.3
		P Z'	0.2 1.5			Um iP	19 16 03.7
		Mx E	1.8 14			Ud iP	19 16 16.3
		Mx N	1.7 17			Sunda Strait (h = 70 km).	
		Mx Z	1.6 14	"	4	Um iP	19 34 43.8
		Sk iP	11 43 22.0			Ud iP	19 35 14.6
		Um iP	11 43 04.7			Kurile Islands.	
		ipP	11 43 15.5	"	4	Ki iP	22 48 32.4
		iS	11 53 06			Um iP	22 48 41.9 C
		Ud iP	11 43 26.3			Ud eP	22 49 08
		ipP	11 43 36.9			West Caroline Islands (h = N).	
		De iP	11 43 31.5	"	4	Um iPKP	23 10 03.5
		Luzon.				Ud iPKP	23 10 12.5
		h = 40 km (Um,Ud).				Solomon Islands (h = 60 km).	
		m = 5.9, M = 5.7 (Up,Ki).		"	5	Up iP	00 49 36.0
"	4	Ki iPKP	12 59 48.5			(cont.)	
		Sk ePKP	13 00 03				
		Um iPKP	12 59 57.0				
		New Zealand.					

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1971					1971						
July	5	(cont.)			July	5	(cont.)				
		Ki	iP	00 48 57.9			Ki	iP	16 58 32.2		
		Sk	eP	00 49 30					micr sec		
		Um	iP	00 49 14.1 C			P	Z'	0.1 1.1		
		Ud	iP	00 49 43.0			Mx	N	0.3 14		
		De	iP	00 49 58.5			Mx	Z	0.5 14		
		Japan (h = 35 km).					Sk	iP	16 58 15.4		
"	5	Up	iPKP	01 40 53.8			Um	iP	16 57 56.4		
		Ki	iPKP	01 40 33.3			i		16 58 00.3		
		Sk	iPKP	01 40 49.1			Ud	iP	16 57 40.6		
		Um	iPKP	01 40 43.7			iS		17 01 36.0		
		Ud	iPKP	01 40 55.6			De	eP	16 57 07		
		De	iPKP	01 41 04.8			Turkey (h = 5 km).				
		South of Kermadec Islands					m = 5.4 (Up, Ki).				
		(h = N).			"	5	Um	eP	20 02 12		
"	5	Um	iPKP	03 10 59.7			Ud	iP	20 01 46.4		
		Ud	iPKP	03 11 12.1			De	iP	20 01 13.8		
		Aegean Sea.			"	5	Up	iP	22 29 15.1		
"	5	Up	ePKP	03 40 45			Um	iP	22 28 53.8		
		Um	iPKP	03 40 33.8			Ud	iP	22 29 22.0		
		Ud	iPKP	03 40 47.7			Off Pacific coast of Japan.				
"	5	Um	iPKP	03 54 25.3			"	5	Um	iPKP	23 34 16.1
		i		03 54 36.9			Ud	iPKP	23 34 27.6		
		Ud	iPKP	03 54 37.7			"	6	Up	iP	00 41 46.2
"	5	Um	iPKP	04 01 12.3			"	6	Up	i(P)	01 06 33.5
		Ud	iPKP	04 01 24.5			Ud	i(P)	01 06 35.6		
"	5	Ki	iP	07 27 47.0			De	i(P)	01 06 46.3		
		Um	iP	07 27 56.3			"	6	Um	iPKP	04 47 55.2
		Ud	iP	07 28 20.2			Ud	iPKP	04 48 07.9		
		West Caroline Islands					South of Kermadec Islands.				
		(h = 20 km).			"	6	Up	iP	06 47 53.8		
"	5	Up	iSgl	14 29 52.6			i		06 48 03.5		
		Ki	eSgl	14 30 44			Ki	iP	06 47 35.2		
		Sk	iPgl	14 27 27.3			Um	iP	06 47 40.9 C		
			iSgl	14 28 06.6			i(pP)		06 47 59.4		
		Um	iSgl	14 29 56.3			Ud	iP	06 48 03.7		
		Ud	iSgl	14 28 58.4			i		06 48 14.7		
		Off west coast of Norway,					De	eP	06 48 08		
		62.9°N, 6.2°E.					Luzon (h = 70 km).				
		Origin time = 14 26 36.			"	6	Ud	i(P)	12 43 04.5		
"	5	Um	iP	15 37 21.6			"	6	Up	iPKP	17 21 57.2
		Ud	iP	15 37 08.7			Sk	iPKP	17 21 47.7		
		Botswana (h = 20 km).					Um	iPKP	17 21 41.7		
"	5	Up	iP	16 57 24.8			Ud	iPKP	17 21 57.1		
			eS	17 01 03			De	ePKP	17 22 14		
				micr sec							
		P	Z'	0.1 1.0							
		(cont.)									

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1971					1971				
July	6	Up	iP	20 39 51.3 C	July	8	Ki	iP	06 05 32.9
		Ud	iP	20 40 00.6			Sk	iP	06 05 13.4
"	6	Ki	i(P)	22 45 28.7			Um	iP	06 05 35.0
"	7	Ud	iP	00 22 45.8			Ud	eP	06 05 17
"	7	Ud	iP	02 16 33.9	"	8	Ud	iP	06 40 46.1
"	7	Ki	iP	04 00 31.2			Turkey (h = 25 km).		
		Ud	iP	04 00 43.3	"	8	Sk	iP	06 59 01.0
		De	iP	04 00 41.7			Kurile Islands.		
		Tadzhik-Sinkiang (h = 60 km).			"	8	Ki	eP	07 41 20
"	7	Ud	epP	05 48 18			Ud	iP	07 42 19.6
		Mexico (h = 90 km).					Kurile Islands (h = 120 km).		
"	7	Ki	ePn	09 17 56	"	8	Ki	iSgl	10 05 44.7
			iSn	09 18 42.1			Sk	iSgl	10 05 47.6
			eSgl	09 18 56			Um	iSgl	10 06 12.0
		Um	iSgl	09 20 29.3			Nordland, Norway, 66.5°N, 13.9°E. Origin time = 10 04 14. Explosion.		
		Northwest Russia-Norway border region. Explosion.			"	8	Ud	iSgl	11 07 52.5
"	7	Ki	iPn	10 52 39.8			De	ePgl	11 05 51
			iSn	10 53 39.1				iSgl	11 06 02.2
			iSgl	10 54 02.4			Probably south Sweden. Origin time = 11 05 37.		
		Sk	eSgl	10 56 34	"	8	Ud	iP	11 56 02.8
		Um	iSgl	10 54 56.8			Japan (h = 250 km).		
		Ud	eSgl	10 57 22	"	8	Ki	eP	12 02 08
		Northwest Russia, 67.9°N, 34.3°E. Origin time = 10 51 21. Explosion.			"	8	Ki	i(P)	12 17 19.1
"	7	Ki	iP	11 37 33.8			Um	i(P)	12 18 20.4
		Um	iP	11 37 26.2	"	8	Up	iP	14 08 28.4
		Ud	iP	11 36 59.2			Ki	iP	14 07 37.7
		North Atlantic Ocean (h = N).					Um	iP	14 08 01.2
"	7	Up	iSn	12 48 03.5			Ud	iP	14 08 32.8
			iSgl	12 48 16.6			De	eP	14 08 54
		Ki	iSg2	12 50 54.1			Okhotsk Sea (h = 520 km).		
		Um	iSgl	12 48 49.8	"	8	Up	iP	14 11 48.6 C
		Ud	iSgl	12 49 19.4					micr sec
		De	iSgl	12 49 46.4			Ki	iP	Z' 0.1 1.0
		Esthonia, 59.6°N, 24.8°E. Origin time = 12 46 20. Explosion.							14 11 14.7 C
"	7	Ud	eP	13 17 46					micr sec
"	7	De	iP	17 03 03.6			Sk	iP	Z' 0.1 1.0
		Kurile Islands.					Um	iP	14 11 22.6 C
							Ud	iP	14 11 34.4 C
							De	iP	14 11 40.9 C
							De	iP	14 11 57.5 C

(cont.)

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1971
July

9 (cont.)
Ki micr sec
Mx N 0.9 20
Mx Z 1.2 17
Sk eP 16 55 08
Um iP 16 54 54.8
iX 16 55 00.2
Ud iP 16 55 25.0
iX 16 55 31.8
De iP 16 55 42.9
iX 16 55 48.9
Kurile Islands (h = 50 km).
The phase X, if interpreted
as pP, gives a focal depth
of 25 km.

" 9 Up iP 17 23 00.0
Ki iP 17 22 14.3
i 17 22 20.2
Um iP 17 22 35.1
Ud iP 17 23 06.3
Kurile Islands (h = N).

" 9 Ki iSgl 17 35 13.7
Sk iSgl 17 35 16.6
Um iSgl 17 35 40.2
Ud iSgl 17 35 51.1
Nordland, Norway,
66.5°N, 14.0°E.
Origin time = 17 33 44.
Explosion.

" 9 Up iP 18 05 54.4
Ki iP 18 05 06.7
Ud iP 18 06 01.0
Kurile Islands (h = 40 km).

" 9 Up micr sec
Mx E 0.9 19
Mx N 0.7 19
Mx Z 1.1 17
Ki micr sec
Mx E 1.5 17
Mx N 0.4 15
Mx Z 1.1 18
Ud ePKP 19 34 19
Chile (h = 55 km).
M = 5.7 (Up, Ki).

" 9 Um i(P) 20 52 22.6

" 9 Um e(P) 21 02 45

" 9 Up iP (cont.) 22 33 07.4

1971
July

9 (cont.)
Up micr sec
Mx E 0.6 16
Mx N 0.7 16
Mx Z 1.3 16
Ki iP 22 33 50.3
micr sec
P Z' 0.2 1.4
Mx E 1.6 20
Mx N 0.9 15
Mx Z 0.9 16
Um iP 22 33 32.0
Ud iP 22 33 00.9
De iP 22 32 42.9
North of Ascension Island
(h = N).
M = 5.3 (Up, Ki).

" 9 Um iP 23 12 21.0
Ud iP 23 12 46.3
De iP 23 13 09.2
Aleutian Islands (h = 40 km).

" 10 Up e(P) 01 40 04

" 10 Um i(P) 02 31 14.6

" 10 Up iP 03 16 04.0
Ki iP 03 15 18.0
Sk iP 03 15 53.6
Um iP 03 15 38.8
Ud iP 03 16 09.8
De eP 03 16 29
Kurile Islands (h = 40 km).

" 10 Up iSgl 04 13 38.9
Sk iSgl 04 14 57.5
Um eSgl 04 15 32
Ud iPgl 04 12 43.0
i 04 12 49.0
iSgl 04 13 06.9
De iPgl 04 12 46.3
i 04 12 51.6
iSgl 04 13 12.2
Västergötland, Sweden,
58.3°N, 13.2°E.
Origin time = 04 12 13.

" 10 Up iP 05 42 58.8
Ud iP 05 43 16.8

De iP 05 43 06.2

" 10 Ki Mx 06 34
micr sec
Mx N 0.7 18
Mx Z 1.1 18

Solomon Islands (h = 60 km).

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

1971			1971		
July	10	Up i(P)	12 29 16.1	July	11 (cont.)
		Um i(P)	12 29 15.9		Up micr sec
"	10	Um iP	13 22 31.9		Mx E 0.7 18
		Yugoslavia.			Mx Z 1.3 19
					Ki iP 05 42 19.4
"	10	Up iP	14 39 58.3 C		micr sec
		Um iP	14 39 33.6		Mx N 0.5 17
		Ud iP	14 40 04.8		Sk iP 05 41 45.9
		Kurile Islands (h = 60 km).			Um iP 05 41 59.0
"	10	Up iP	17 04 05.6		iP 05 42 07.7
		i	17 04 11.2		Ud iP 05 41 27.7
		iS	17 07 17.8		iP 05 41 36.2
			micr sec		North of Ascension Island.
		P	Z' 0.1 0.7		h = 30 km (Up,Um,Ud).
		Ki iP	17 03 21.7	"	M = 5.0 (Up,Ki).
		iPP	17 03 31.8	"	11 Up i(P) 07 09 34.1
		iS	17 05 54.4		Um i(P) 07 11 04.0
			micr sec	"	11 Up eP 10 20 41
		P	Z' 0.3 0.8		Ud iP 10 20 54.8
		Sk iP	17 04 16.1		These phases could be PKKP
		iS	17 07 36.9		to the Chile earthquake with
		Um iP	17 03 31.5		origin time = 09 51 38
		iPP	17 03 41.0		(following event).
		iS	17 06 10.8	"	11 Up Mx 11 00
		Ud iP	17 04 26.6		micr sec
		i	17 04 33.3		Mx E 4.0 19
		iS	17 07 56.1		Mx N 3.8 18
		De iP	17 04 49.1		Mx Z 6.5 20
		iS	17 09 09.1		Ki Mx 11 00
		Ural Mountains.			micr sec
		m = 5.3 (Up,Ki).			Mx E 4.7 20
		Underground explosion.			Mx N 2.3 18
"	10	Up iPKP	17 49 07.7		Mx Z 5.5 20
		Um iPKP	17 48 58.8		Chile (h = 35 km).
		New Zealand.			M = 6.3 (Up,Ki).
"	10	Ki i(P)	18 04 07.1	"	11 Ud iP 11 55 16.8
"	10	Up e(P)	18 36 28		Ryukyu Islands (h = 35 km).
		i	18 39 37.6	"	11 Ud iP 16 24 20.1
"	10	Um i(P)	19 44 19.0		Hindu Kush.
		Ud i(P)	19 46 41.4	"	11 Up iP 17 14 04.7
"	11	Up iP	03 09 30.2		Um iP 17 13 41.3
		Sk eP	03 09 26		Ud iP 17 14 11.1
		Um iP	03 09 05.5		Japan (h = 50 km).
		Ud iP	03 09 36.6	"	11 Um iP 18 58 26.5
		Kurile Islands-Japan.			Ud iP 18 58 59.7
"	11	Up iP	05 41 33.4		Japan (h = 50 km).
		iP	05 41 42.2	"	11 Up i(P) 20 16 38.6
		(cont.)			(cont.)

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

1971

July	11	(cont.)					
		Ki	i(P)	20	17	38.3	
		Ud	iP	20	16	41.7	
		Turkey.					
"	11	Up	iP	20	18	29.0	
			i	20	18	35.3	
				micr sec			
		P	Z'	0.1	1.0		
		Mx	E	1.9	17		
		Mx	N	4.4	19		
		Mx	Z	4.3	16		
		Ki	iP	20	19	23.1	
			i	20	19	32.2	
				micr sec			
		P	Z'	0.1	1.0		
		Mx	E	6.8	18		
		Mx	N	2.4	16		
		Mx	Z	3.5	17		
		Um	iP	20	18	52.9	
		Ud	iP	20	18	44.2	
			i	20	18	49.8	
		De	iP	20	18	17.6	
		Turkey (h = 10 km).					
		m = 5.6, M = 5.2 (Up,Ki).					
"	12	Up	iP	02	22	56.8	
		Ki	iP	02	22	02.4	
		Um	iP	02	22	28.3	
		Ud	iP	02	22	59.9	
		De	iP	02	23	21.9	
		Kamchatka (h = N).					
"	12	De	iP	07	12	42.5	
		Germany (h = N).					
"	12	Up	eP	08	26	51	
		Um	iP	08	27	46.2	
"	12	Up	iP	08	43	02.3	
		Ki	iP	08	42	33.6	
		Ud	iP	08	43	09.6	
		Volcano Islands (h = 220 km).					
"	12	Up	iP	09	14	50.2	
		Ki	iP	09	14	24.6	
		Um	iP	09	14	41.6	
		Baja California (h = N).					
"	12	Ud	iP	12	29	04.3	
"	12	Ki	Mx	14	09		
				micr sec			
		Mx	E	1.0	18		
		Mx	N	1.0	19		
		Mx	Z	1.3	18		
		New Britain (h = 35 km).					

1971

July	12	Um	i(P)	14	21	58.0	
		Ud	i(P)	14	23	11.4	
"	12	Up	iP	16	00	00.9	
			ipP	16	00	10.7	
				micr sec			
		Ki	pP	Z'	0.2	0.9	
			iP	15	59	07.9	
			ipP	15	59	17.7	
				micr sec			
		P	Z'	0.2	1.0		
		pP	Z'	0.2	0.9		
		Mx	E	0.7	14		
		Mx	N	0.4	16		
		Mx	Z	0.8	14		
		Sk	iP	15	59	41.6	
			ipP	15	59	52.2	
		Um	iP	15	59	33.9	
			i	15	59	37.0	
			ipP	15	59	43.5	
		Ud	iP	16	00	03.3	
			ipP	16	00	13.5	
		De	iP	16	00	24.5	
			ipP	16	00	35.1	
		Aleutian Islands.					
		h = 35 km (Up,Ki,Sk,Um,Ud,De).					
		m = 6.3 (Up,Ki).					
"	12	Ud	iP	16	47	55.9	
		Aleutian Islands (h = 45 km).					
"	12	Ki	ipKP	19	08	26.6	
		South Atlantic Ocean (h = N).					
"	12	Up	iP	23	08	08.6	
			i	23	08	21.2	
				micr sec			
		P	Z'	0.1	0.9		
		Ki	iP	23	07	15.5	
		Um	iP	23	07	43.3	
		Ud	iP	23	08	08.8	
			i	23	08	22.6	
		De	iP	23	08	31.5	
		Aleutian Islands (h = 15 km).					
"	13	Ki	eP	03	04	39	
		Ud	iP	03	04	54.0	
		Sinkiang (h = 60 km).					
"	13	Ud	e(P)	09	54	23	
"	13	Ki	ipKP	10	44	09.4	
		Um	ipKP	10	44	17.9	
		Ud	ipKP	10	44	27.4	
		De	ipKP	10	44	38.6	
		Fiji Islands (h = 520 km).					

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

1971				1971						
July	13	Up	iSgl	13 01 26.7	July	14	Ki	eP	04 45 12	
		Ki	iSgl	13 04 17.1			Um	iP	04 45 01.3	
		Um	iSgl	13 02 16.2			Ud	iP	04 45 13.5	
		Ud	eSgl	13 02 24				Iran.		
		Gulf of Finland, 59.6°N, 23.2°E. Origin time = 12 59 56. Explosion?				"	14	Up	iP	06 26 20
"	13	Ki	i(P)	13 28 25.6				iPKP	06 30 10.5	
		Um	i(P)	13 29 01.9				iPP	06 31 09.2	
								i	06 37 45.3	
								iPKKP	06 40 41.4	
									micr sec	
"	13	Um	i(P)	13 43 49.6				PP	Z' 0.2 1.0	
								Mx	E 450 36	
								Mx	N 830 39	
"	13	Um	iP	14 09 12.7				Mx	Z 320 21	
			epP	14 09 51			Ki	iP	06 25 55	
		Ud	iP	14 09 33.1				iPP	06 30 36.3	
		Hindu Kush.							micr sec	
"	13	Up	iP	15 19 00.2				PP	Z' 0.2 1.1	
		Ud	eP	15 19 18				Mx	E 370 23	
								Mx	N 140 18	
"	13	Ki	iSgl	16 52 54.1				Mx	Z 270 20	
		Sk	iSgl	16 52 58.6			Sk	iP	06 26 26.1	
		Um	iSgl	16 53 22.8				iPKP	06 30 14.3	
		Ud	iSgl	16 54 48.2			Um	iP	06 26 09.6	
		Nordland, Norway, 66.5°N, 13.9°E. Origin time = 16 51 24. Explosion.						iPKP	06 30 06.5	
								iPP	06 30 53	
"	13	Ud	eP	17 34 25			Ud	iP	06 26 23.6	
		Kamchatka.						iPKP	06 30 15.5	
							De	iP	06 26 47.2	
								iPKP	06 30 18.4	
									New Ireland (h = 50 km). m = 6.8, M = 8.1 (Up,Ki).	
"	14	Up	iP	00 14 47.5		"	14	Um	iPKP	07 35 25.7
				micr sec						New Ireland (h = N).
			P	Z' 0.1 1.0						
		Ki	iP	00 14 27.2		"	14	Up	ePKP	07 56 02
		Sk	iP	00 14 50.3				i	07 56 23.4	
		Um	iP	00 14 33.5			Ki	ePKP	07 55 50	
		Ud	iP	00 14 54.1			Sk	ePKP	07 56 03	
		Mindanao (h = 70 km).					Ud	ePKP	07 56 02	
"	14	Up	iP	02 45 17.6			De	iPKP	07 56 05.9	
		Ki	eP	02 44 30					New Ireland (h = N).	
		Um	iP	02 44 53.0		"	14	Ki	i(P)	07 59 01.2
			i	02 45 00.3						
		Ud	iP	02 45 23.4		"	14	Up	iPP	08 00 50.6
		Japan (h = 5 km).						iPKKP	08 10 22.6	
"	14	Ki	iP	03 10 37.3 D			Sk	ePKP	07 59 54	
		Ud	iP	03 11 02.3 D				iPKKP	08 10 30.4	
		Halmahera (h = 240 km).					Ud	iPP	08 00 53.3	
"	14	Ud	iP	03 27 16.9				iPKKP	08 10 16.2	
							De	iPKP	08 00 00.7	
									New Ireland (h = N).	

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

1971					1971				
July	14	Up	i(P)	08 06 52.5	July	14	Up	Mx	13 59
		Ki	i(P)	08 07 07.3					micr sec
"	14	Up	i(P)	08 09 20.1				Mx	E 0.7 19
								Mx	N 0.9 20
"	14	Um	i(P)	09 33 50.1			Ki	Mx	Z 2.0 21
									13 57
"	14	Ud	iPKP	10 38 25.7				Mx	E 1.0 18
			New Britain.					Mx	N 0.8 19
								Mx	Z 1.5 19
"	14	Up	i(P)	10 56 58.1	"	14	Up	iSgl	14 15 15.7
		Ud	i(P)	10 56 16.5			Ud	eSgl	14 14 54
		De	i(P)	10 57 07.6				iRg	14 14 57.5
"	14	De	iPKP	12 02 18.6	"	14	Um	iPKP	15 17 32.7
			New Ireland (h = N).					New Ireland.	
"	14	Up		micr sec	"	14	Up	Mx	16 14
			Mx	E 1.1 19					micr sec
			Mx	N 1.0 19				Mx	E 0.9 18
			Mx	Z 2.6 19				Mx	N 1.4 19
		Ki		micr sec				Mx	Z 2.0 19
			Mx	E 1.1 19			Ki	Mx	16 10
			Mx	N 1.2 18					micr sec
			Mx	Z 2.2 18				Mx	E 2.1 19
		Um	iPKP	12 08 54.2				Mx	N 1.4 20
		Ud	iPKP	12 09 04.2				Mx	Z 2.4 19
		De	iPKP	12 09 08.4					
			New Ireland.		"	14	Up	iP	16 27 34.7
			M = 5.5 (Up,Ki).		"	14	Um	iP	17 28 33.3
"	14	Up	iPKP	12 46 12.9	"	14	Um	iP	17 37 23.0
		Ud	iPKP	12 46 15.7	"	14	Up	ePKP	17 57 28
		De	iPKP	12 46 22.6			Ki	e(PKP)	17 57 26
			New Ireland (h = N).						micr sec
"	14	De	ePKP	12 49 06				Mx	E 1.8 19
			Solomon Islands (h = N).					Mx	N 1.2 18
"	14	Ud	i(PKP)	12 59 10.8				Mx	Z 2.6 18
			New Ireland.				Sk	e(PKP)	17 57 24
"	14	Ki	iP	13 04 49.9			Um	iPKP	17 57 23.8
		Um	iP	13 04 35.1			Ud	ePKP	17 57 34
		Ud	iP	13 04 35.0			De	iPKP	17 57 39.3
		De	iP	13 04 28.7				New Ireland (h = N).	
"	14	Ud	i(P)	13 46 41.1	"	14	Up	iP	18 42 41.6
			i	13 47 05.5				iPKP	18 46 30.2
"	14	Up	iP	13 48 05.7				ePKKP	18 56 56
		Sk	iP	13 48 20.5					micr sec
		De	eP	13 48 03				Mx	E 6.5 18
"	14	Ud	iP	13 51 21.5				Mx	N 6.8 21
								Mx	Z 14 19
							Ki	iP	18 42 12.4
								ePKP	18 46 12

(cont.)

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

1971				1971				
July	14	(cont.)		July	15	Ud	eP	00 58 08
		Ki						
			micr sec					
		PKP	Z' 0.1 1.4	"	15	Up	iP	01 37 07.1
		Mx	E 10 19				i	01 37 10.1
		Mx	N 8.1 22				iS	01 40 02
		Mx	Z 12 19					micr sec
		Sk	eP 18 42 38				P	Z' 0.3 0.9
			iPKP 18 46 27.0				Mx	E 6.5 10
		Um	iP 18 42 28.4				Mx	N 14 12
			iPKP 18 46 23.1				Mx	Z 23 12
		Ud	iP 18 42 45.7			Ki	iP	01 38 35.3
			iPKP 18 46 31.0				i	01 38 36.8
		De	ePKP 18 46 33				iLgl	01 46 08
		New Ireland (h = N).						micr sec
		M = 6.5 (Up,Ki).					P	Z' 0.4 1.4
"	14	Up	i(P) 20 13 38.5				Mx	E 6.5 11
"	14	Up	i(P) 21 27 19.0				Mx	N 11 12
		Ki	e(P) 21 26 41				Mx	Z 14 12
"	14	Ki	Mx 21 36			Sk	eP	01 37 44
			micr sec				i	01 37 46.5
		Mx	E 1.6 18			Um	iP	01 37 55.1
		Mx	N 0.6 18				iS	01 41 30
		Mx	Z 0.9 16			Ud	iP	01 37 01.8
		New Ireland (h = N).				De	iP	01 36 14.7
							i	01 36 16.4
						Italy (h = 10 km).		
						m = 5.6, M = 5.6 (Up,Ki).		
"	14	Ki	iP 23 13 22.3	"	15	Up	i(P)	02 01 32.6
			ipP 23 13 33.7	"				
			micr sec	"	15	Ki	i(P)	02 18 18.6
		P	Z' 0.3 1.6				i(S)	02 21 00.7
		Mx	E 0.8 18			Um	e(P)	02 19 03
		Mx	N 0.6 18	"	15	Up	iP	06 21 01.2
		Mx	Z 1.0 17			Ki	iP	06 21 55.2
		Sk	iP 23 13 44.6			Sk	eP	06 21 42
		Um	iP 23 13 29.6			Um	iP	06 21 24.6
			ipP 23 13 39.3			Ud	iP	06 21 10.0
		Ud	iP 23 13 48.0			Turkey (h = N).		
		Halmahera.		"	15	Ud	iP	08 50 07.7
		h = 40 km (Ki,Um).				Sumatra.		
"	14	Up	iP 23 51 18.0	"	15	Um	iP	11 07 44.9
"	15	Up	iP 00 34 33.3	"	15	Ud	iP	11 08 11.4
			iX 00 34 43.0			Japan (h = 55 km).		
			micr sec	"	15	Up	i(P)	11 27 31.8
		P	Z' 0.1 1.4				i	11 28 12.4
		Ki	eP 00 33 39	"	15	Ud	iPgl	12 18 57.1
			iX 00 33 50.8				iSgl	12 19 16.7
		Sk	eX 00 34 11	"	15	De	eSgl	12 19 36
		Um	iX 00 34 17.2	"	15	Ud	eP	14 10 34
		Ud	iP 00 34 23.9					
		Queen Charlotte Islands						
		(h = N).						
		Interpreting X as pP, we						
		get h = 40 km (Up,Ki).						

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

1971					1971				
July	15	Ki		micr sec	July	16	Ki	iPn	10 55 03.8
		Mx	E	0.7 18				iSn	10 56 02.8
		Mx	N	0.5 16				iSgl	10 56 26.0
		Mx	Z	0.8 17			Sk	iSgl	10 58 50.4
		Um	iPKP	14 15 24.5			Um	iSn	10 56 42.3
		Ud	iPKP	14 15 35.9				iSgl	10 57 17.3
		De	iPKP	14 15 41.5			Ud	eSgl	10 59 45
		New Ireland (h = N).					Northwest Russia, 67.8°N, 34.0°E. Origin time = 10 53 45. Explosion.		
"	15	Ud	i(P)	16 21 37.3					
"	15	Up	iPKP	18 34 09.0 D					
			i	18 34 19.2	"	16	Up	i(P)	11 24 39.4
				micr sec					
			PKP	Z' 0.2 0.6	"	16	Ki	iP	15 10 13.8
		Ki	ePKP	18 33 41			Japan (h = 35 km).		
			i	18 33 59.6					
		Sk	iPKP	18 34 01.5	"	16	Up	iSgl	15 51 43.4
		Um	iPKP	18 33 56.7			Ki	eSgl	15 53 37
			i	18 34 06.6			Sk	iSgl	15 53 31.9
		Ud	iPKP	18 34 12.1 D			Um	iSgl	15 51 58.5
			i	18 34 22.6			Ud	iSgl	15 52 45.9
		De	iPKP	18 34 22.0			Western Russia, 59.2°N, 28.6°E. Origin time = 15 48 49. Explosion?		
			i	18 34 31.4					
		Tonga-Kermadec Islands (h = 590 km).							
"	15	Um	iPKP	20 50 57.4	"	16	Ud	iP	20 27 29.2
		South of Kermadec Islands.					Hindu Kush.		
"	15	Ki	eP	21 06 32	"	16	Up	eP	21 53 08
"	16	Ki	eP	02 48 18			Ki	eP	21 52 57
		Ud	iP	02 48 43.3			Sk	eP	21 52 52
		Mindanao.					Um	iP	21 52 59.7
							Mexico (h = 15 km).		
"	16	Ki	eP	05 29 12	"	16	Up	iP	22 27 00.8
		Um	iP	05 29 27.3					
			i	05 29 38.9					
"	16	Up	iP	05 55 45.9					
			iPP	05 56 28.1					
		Ki	eP	05 56 56					
				micr sec					
		Mx	E	0.4 9					
		Mx	N	0.3 12					
		Mx	Z	0.4 10					
		Sk	iP	05 56 25.2					
		Ud	iP	05 55 50.3					
		De	iP	05 55 18.8					
		Crete (h = 40 km).							
"	16	Ki	Mx	09 00	"	17	Ki	iP	04 51 20.4
				micr sec			Ud	iP	04 52 09.4
		Mx	E	0.8 18				ipP	04 52 18.5
		Mx	N	0.5 18			Japan. h = 35 km (Ud).		
		Mx	Z	0.8 17					
		New Ireland (h = 40 km).							

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

1971				1971			
July	17			July	17	(cont.)	
		Up	iP	05 44	23.5	C	
			i	05 44	25.3		
			ipP	05 44	57.9		
			iS	05 53	58.1		
							micr sec
			P	Z'	0.6	0.9	
			Mx	E	1.1	19	
			Mx	N	1.0	22	
			Mx	Z	1.7	21	
		Ki	iP	05 44	25.1	C	
			i	05 44	26.8		
			iS	05 54	03.6		
							micr sec
			P	Z'	1.1	0.9	
			Mx	E	1.9	22	
			Mx	N	1.7	20	
			Mx	Z	1.0	16	
		Sk	iP	05 44	40.1	C	
			i	05 44	41.6		
			iS	05 54	33.5		
		Um	iP	05 44	20.9	C	
			ipP	05 44	56.1		
			iS	05 53	52		
		Ud	iP	05 44	35.2	C	
			i	05 44	37.1		
			ipP	05 45	09.8		
			iS	05 54	22.3		
		De	iP	05 44	33.0		
			i	05 44	34.7		
			ipP	05 45	07.6		
			iS	05 54	14.4		
		Nicobar Islands,					
		h = 140 km (Up,Um,Ud,De).					
		m = 6.4, M = 5.4 (Up,Ki).					
		M uncorrected for focal depth.					
		Double P-phases, in average					
		1.7 sec apart.					
"	17	Ki	Mx	07 50			
							micr sec
			Mx	E	0.7	18	
			Mx	N	0.4	17	
			Mx	Z	0.9	18	
		New Ireland (h = N).					
"	17	Ki	iPn	10 25	26.5		
			i	10 25	41.7		
			iSn	10 26	15.4		
			iS*	10 26	30.0		
		Northwest Russia.					
		Explosion.					
"	17	Up	iP	15 10	59.9	C	
			isP	15 11	18.0		
							micr sec
			P	Z'	0.1	0.6	
		(cont.)					
							micr sec
			Mx	E	1.7	22	
			Mx	N	2.4	22	
			Mx	Z	3.2	23	
		Ki	iP	15 10	53.9		
			ipP	15 11	05.8		
			isP	15 11	11.2		
							micr sec
			P	Z'	0.1	0.6	
			Mx	E	1.9	16	
			Mx	N	3.5	21	
			Mx	Z	2.3	17	
		Sk	iP	15 11	16.3		
			isP	15 11	33.8		
		Um	iP	15 10	52.5		
			ipP	15 11	05.7		
			isP	15 11	10.0		
			iS	15 18	55		
		Ud	iP	15 11	14.1		
			isP	15 11	30.7		
		De	iP	15 11	16.6		
		India.					
		h = 50 km (Up,Ki,Sk,Um,Ud).					
		m = 6.0, M = 5.6 (Up,Ki).					
"	17	Ki	eP	16 31	15		
		Halmahera (h = 110 km).					
"	17	Ki	iP	17 56	47.4		
"	17	Ki	Mx	18 00			
							micr sec
			Mx	E	0.4	9	
			Mx	N	0.3	12	
			Mx	Z	0.4	10	
"	17	Up	iP	19 41	10.8		
		Ki	iP	19 40	32.5		
							micr sec
			Mx	E	0.6	14	
			Mx	N	0.3	14	
			Mx	Z	0.5	14	
		Um	iP	19 40	49.9		
		Ud	iP	19 41	20.2		
		Japan (h = 25 km).					
"	17	Ud	ePP	20 28	31		
		Chile-Bolivia (h = 120 km).					
"	17	Up	eP	21 50	58		
		Ki	iP	21 51	42.8		
		Ud	iP	21 51	07.3		
		De	iP	21 50	44.1		
		Turkey (h = N).					

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

1971				1971					
Month	Day	Station	Code	Time	Month	Day	Station	Code	Time
July	18	Ki	iP	00 09 32.1	July	18	Up	e(Sgl)	10 10 35
		Ud	iP	00 09 01.7			Ud	e(Sgl)	10 10 38
		De	iP	00 08 42.6			De	e(Pgl)	10 08 12
		Iran-Iraq (h = N).						i(Sgl)	10 08 38.6
"	18	Um	iP	01 25 23.7			Southern Baltic Sea. Explosion.		
		Ud	iP	01 25 45.9	"	18	Up	iPKP	11 22 48.0
"	18	Ud	iP	05 33 18.3			Ud	ePKP	11 22 48
		Italy.					De	iPKP	11 23 00.0
							Fiji Islands (h = 630 km).		
"	18	Up	iSgl	07 12 39.8	"	18	Up	i(Sgl)	13 08 59.6
		Ki	ePn	07 08 25			Ud	e(Sgl)	13 08 52
			iSn	07 09 22.1			De	e(Pgl)	13 06 30
			iSgl	07 09 45.8				i(Sgl)	13 06 57.3
		Sk	iSgl	07 12 09.6			Southern Baltic Sea. Explosion.		
		Um	iSn	07 10 02.7	"	18	Up	i(Sgl)	14 25 11.5
			iSgl	07 10 36.1			De	e(Pgl)	14 22 46
		Ud	eS*	07 13 00				i(Sgl)	14 23 14.3
			iSgl	07 13 12.1			Southern Baltic Sea. Explosion.		
		Northwest Russia, 67.8°N, 33.7°E. Origin time = 07 07 08. Explosion.			"	18	Up	iP	14 46 10.6
"	18	Up	e(Sgl)	07 31 30			iPKP	14 49 55.0	
		Ud	e(Sgl)	07 31 23			ePKKP	15 00 29	
		De	i(Pgl)	07 29 02.0				micr sec	
			i(Sgl)	07 29 27.9			PKP	Z' 0.1 0.9	
		Southern Baltic Sea. Explosion.					Mx	E 7.3 21	
"	18	Up	e(Sgl)	08 13 01			Mx	N 7.9 22	
		Ud	e(Sgl)	08 12 54			Mx	Z 17 22	
		De	e(Pgl)	08 10 28			Ki	iP	14 45 41.2
			i(Sgl)	08 10 55.1			i	14 49 20.5	
		Southern Baltic Sea. Explosion.					iPKP	14 49 45.7	
"	18	Up	e(Sgl)	08 51 05			ePKKP	15 01 04	
		Ud	i(Sgl)	08 50 57.3				micr sec	
		De	i(Pgl)	08 48 31.0			Mx	E 8.9 23	
			i(Sgl)	08 48 59.7			Mx	N 12 23	
		Southern Baltic Sea. Explosion.					Mx	Z 8.8 19	
"	18	Up	ePKP	08 59 46			Sk	eP	14 46 08
		Ki	iPKP	08 59 20.8			iPKP	14 49 55.7	
		Sk	iPKP	08 59 33.2			Um	iP	14 45 52.8
		Um	iPKP	08 59 28.5			iPKP	14 49 48.6	
		Ud	iPKP	08 59 40.4			Ud	eP	14 46 14
"	18	Up	i(Sgl)	09 30 13.7			iPKP	14 49 58.0	
		Ud	i(Sgl)	09 30 08.3			iPP	14 51 07.8	
		De	e(Pgl)	09 27 48			ePKKP	15 00 36	
			i(Sgl)	09 28 14.5			De	iP	14 46 16.8
		Southern Baltic Sea. Explosion.					iPKP	14 50 03.4	
"	18	Um	iP	15 43 06.3			New Ireland (h = 45 km). M = 6.5 (Up,Ki).		
		Ud	iP	15 43 34.5	"	18	Up	iP	16 21 47.9
"	18	Up	iP	16 21 47.9			iPP	16 22 02.1	
			iPP	16 22 02.1			(cont.)		

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

1971				1971			
July	18	(cont.)		July	19		
		Up	micr sec			Up	iSgl 01 00 57.9
		P	Z' 0.1 0.7			Sk	eSgl 01 00 38
		Ki	iP 16 23 10.9			Um	iSgl 01 01 57.5
		iPP	16 23 38.1			Ud	iPgl 00 59 36.3
			micr sec				iSgl 00 59 57.0
		P	Z' 0.1 0.9			De	eSgl 01 01 35
		Sk	iP 16 22 41.3			Hedmark, Norway, 60.9°N, 11.1°E. Origin time = 00 59 15.	
		i	16 22 44.0				
		Um	iP 16 22 29.6			"	19 Um e(P) 05 52 38
		i	16 22 46.5			"	19 Up iP 06 27 37.2
		iPP	16 22 57.1			Ki	iP 06 27 38.0
		Ud	iP 16 22 03.9			Sk	eP 06 27 57
		iPP	16 22 19.5			Um	eP 06 27 32
		De	iP 16 21 25.4			Ud	e(P) 06 28 02
		Rumania (h = 140 km). m = 5.3 (Up,Ki).				De	eP 06 27 52
						Sinkiang.	
"	18	Up	i(Sgl) 17 34 56.3			"	19 Um i(P) 06 55 08.2
		Ud	i(Sgl) 17 34 48.3			"	19 Up iPKP 09 33 32.4
		De	e(Pgl) 17 32 29			Ud	iPKP 09 33 34.0
		i(Sgl)	17 32 57.4			De	ePKP 09 33 47
		Southern Baltic Sea. Explosion.				"	19 Up eP 12 34 28
"	18	Up	i(Sgl) 18 25 22.3			Ki	eP 12 33 47
		Ud	i(Sgl) 18 25 16.0			Um	iP 12 34 05.0
		De	e(Pgl) 18 22 56			ipP	12 34 16.7
		i(Sgl)	18 23 22.8			Ud	eP 12 34 35
		Southern Baltic Sea. Explosion.				Japan. h = 45 km (Um).	
"	19	Up	iPKP 00 33 30.5			"	19 Ud e(Sgl) 14 56 56
		iPP	00 34 41.6			De	i(Pgl) 14 54 34.9
		iPKKP	00 43 53.1			i(Sgl)	14 55 00.5
		i	00 44 05.8			Southern Baltic Sea. Explosion.	
			micr sec			"	19 Up iPKP 15 07 09.2
		PP	Z' 0.2 1.4				micr sec
		Mx	E 9.8 19			Mx	E 1.3 23
		Mx	N 12 20			Mx	N 1.3 23
		Mx	Z 23 19			Mx	Z 2.1 22
		Ki	ePKP 00 33 22			Ki	eP 15 02 49
		ePKKP	00 44 24.8			iPKP	15 07 00.7
			micr sec			ePKKP	15 18 19
		Mx	E 20 21				micr sec
		Mx	N 19 21			Mx	E 1.3 23
		Mx	Z 28 22			Mx	N 1.4 25
		Sk	ePKKP 00 43 56			Mx	Z 1.9 23
		Um	iPKP 00 33 28.6			Sk	ePKP 15 07 09
		iPKKP	00 44 11.6			Um	iPKP 15 07 03.6
		Ud	iPKP 00 33 31.0			Ud	iPKP 15 07 13.8
		ePP	00 34 45			iPKKP	15 17 57.0
		iPKKP	00 43 48.1			(cont.)	
		De	ePKP 00 33 35				
		ePKKP	00 43 52				
		New Ireland (h = 40 km). M = 6.8 (Up,Ki).					

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

1971				1971			
July	19	(cont.)		July	19		
		De	iPKP 15 07 17.3			Ki	iP 23 54 36.1
			New Guinea (h = 70 km).			Ud	iP 23 53 39.7
			M = 5.7 (Up,Ki).				Turkey.
"	19	Up	iPKP 15 56 20.3	"	20	Up	iP 05 04 55.4
			i 15 57 15.2			Ki	eP 05 04 04
			iPP 15 57 29.4	"	20	Up	iPn 08 36 04.0
			micr sec				iSn 08 37 47.4
		PP	Z' 0.3 1.7			Ki	ePn 08 37 11
		Mx	E 5.3 21			Sk	iPn 08 36 02.1
		Mx	N 4.5 21			Um	iPn 08 36 42.2
		Mx	Z 6.3 21			Ud	iPn 08 35 38.7
		Ki	iPP 15 56 49.0				i 08 35 45.9
			micr sec				iSn 08 37 04.2
		PP	Z' 0.3 1.7			De	iPn 08 35 34.0
		Mx	E 5.7 23				iSn 08 36 52.5
		Mx	N 4.3 20				North Sea.
		Mx	Z 13 25				Underwater explosion.
		Sk	iPP 15 57 23.6	"	20	Up	iP 10 46 34.6 D
		Um	ePKP 15 56 09				micr sec
			iPP 15 57 02.4			P	Z' 0.1 0.9
		Ud	ePP 15 57 39			Ki	iP 10 46 16.5 D
			New Britain (h = N).				micr sec
			m = 6.7, M = 6.2 (Up,Ki).				Z' 0.2 1.0
"	19	Ud	i(Sgl) 16 59 23.6			Um	iP 10 46 21.9 D
		De	e(Pgl) 16 57 04			Ud	iP 10 46 43.7 D
			i(Sgl) 16 57 29.4			De	iP 10 46 49.9
			Southern Baltic Sea.				Luzon (h = N).
			Explosion.				m = 6.0 (Up,Ki).
"	19	Up	iP 17 09 52.5	"	20	Up	iPgl 12 26 31.7
			micr sec				iSgl 12 26 58.5
		P	Z' 0.1 1.2			Um	iSgl 12 28 11.3
		Mx	E 1.2 20			Ud	iSgl 12 28 02.1
		Mx	N 0.8 17			De	iPn 12 27 14.3
		Mx	Z 1.8 19				iSgl 12 28 33.2
		Ki	iP 17 09 27.0				Baltic Sea, 59.4°N, 21.3°E.
			micr sec				Origin time = 12 25 57.
		P	Z' 0.1 1.0				Explosion.
		Sk	iP 17 09 56.5	"	20	Up	iPgl 12 26 41.9
		Um	iP 17 09 36.7				iSgl 12 27 09.9
		Ud	iP 17 10 02.1			Um	iSgl 12 28 21.7
			Formosa (h = 60 km).			Ud	iSgl 12 28 14.6
			m = 5.9 (Up,Ki).			De	iPn 12 27 24.9
"	19	Up	iP 19 35 16.2				iSgl 12 28 43.3
"	19	Ud	eP 20 46 08				Baltic Sea, 59.4°N, 21.3°E.
			Turkey.				Origin time = 12 26 07.
							Explosion.
"	19	Up	iP 21 50 09.7	"	20	Up	i(P) 13 28 18.6
		Ki	eP 21 49 47			Um	i(P) 13 26 10.6
		Ud	iP 21 50 18.0				i 13 26 20.6

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

Year	Month	Day	Station	Phase	Time	Amplitude	Duration	Location
1971	July	20	Up					
			Mx	E	0.8	20		
			Mx	N	1.0	22		
			Mx	Z	2.0	21		
			Ki					
			Mx	E	1.3	23		
			Mx	N	1.3	21		
			Mx	Z	2.0	22		
			Ud	iPKP	17 53	40.5		
				ipPKP	17 53	50.9		
			De	ePKP	17 53	49		
				ipPKP	17 53	55.6		
								Fiji Islands (h = N).
								M = 5.7 (Up,Ki).
"	"	20	Ki	eSn	18 08	57		
				iSgl	18 09	07.5		
			Sk	iSgl	18 09	12.1		
			Um	iSgl	18 09	35.2		
			Ud	iSgl	18 11	01.1		
								Nordland, Norway, 66.5°N, 14.0°E. Origin time = 18 07 37. Explosion.
"	"	20	Up	iPKP	20 10	35.8	C	
				ipPKP	20 10	43.5		
			Ki	ePKP	20 10	22		
			Sk	iPKP	20 10	32.8		
			Um	iPKP	20 10	26.4		
				ipPKP	20 10	36.3		
			Ud	iPKP	20 10	39.7		
				ipPKP	20 10	46.2		
			De	ePKP	20 10	48		
				i	20 10	48.7		
								Kermadec Islands, h = 30 km (Up,Um,Ud).
"	"	20	Up	iPKKP	21 55	02.9		
				i	21 55	12.5		
			Ki	ePKKP	21 55	23		
			Um	ePKKP	21 55	17		
				i	21 55	22.8		
			Ud	ePKP	21 44	39		
				ePKKP	21 54	58		
								New Ireland (h = 50 km).
"	"	21	Up	iPKP	00 51	37.0		
			Ud	iPKP	00 51	38.8	C	
				i	00 51	45.6		
			De	iPKP	00 51	49.4		
								Tonga-Kermadec Islands (h = 210 km).
"	"	21	Ud	i(P)	01 39	17.9		
1971	July	21	Um	i(P)	03 11	47.1	C	
				i	03 12	51.1		
			Ud	iP	03 11	11.9		
				i	03 11	15.2		
								North of Ascension Island (h = N).
"	"	21	Ki	iP	04 14	20.9		
			Ud	iP	04 15	13.5		
								Aleutian Islands (h = N).
"	"	21	Up	iP	11 04	36.2		
			Ki	iP	11 04	08.2		
			Sk	eP	11 04	37		
			Ud	iP	11 04	45.4		
								Ryukyu Islands (h = 25 km).
"	"	21	Up	iP	12 14	39.7		
			Ki	iP	12 13	46.3		
								micr sec
				P	Z'	0.1	1.1	
			Um	iP	12 14	13.0		
			Ud	iP	12 14	38.9		
			De	eP	12 15	02		
								Aleutian Islands (h = 40 km).
"	"	21	Up	iPKP	12 22	11.4		
								micr sec
			Mx	E	0.8	21		
			Mx	N	0.8	21		
			Mx	Z	0.9	21		
			Ki					micr sec
			Mx	E	1.1	21		
			Mx	N	0.9	22		
			Mx	Z	1.5	21		
			Um	iPKP	12 22	05.2		
			Ud	iPKP	12 22	10.5		
			De	iPKP	12 22	19.0		
								Solomon Islands (h = 25 km). M = 5.5 (Up,Ki).
"	"	21	Ki	i(P)	14 34	19.4		
			Sk	e(P)	14 35	09		
			Um	i(P)	14 34	57.2		
"	"	22	Ki	eP	07 32	26		
								Mindanao.
"	"	22	Up	iP	10 40	46.8		
			Ki	iP	10 42	06.3		
			Sk	iP	10 41	38.3		
			Um	iP	10 41	24.4		
			Ud	iP	10 41	01.2		
			De	iP	10 40	27.2		
								Rumania (h = 130 km).

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

1971				1971			
July	25	(cont.)		July	25		
		Um	iSKP 16 27 32.1			Ud	iP 21 39 28.4
		Ud	e(PKP) 16 24 44			Mindanao.	
			iPKP 16 24 56.4	"	25	Um	iPKP 22 43 01.3
			iSKP 16 27 46.5			Ud	iPKP 22 43 09.7
		De	e(PKP) 16 24 56			De	iPKP 22 43 15.3
			iPKP 16 25 03.6			New Ireland (h = 35 km).	
			iSKP 16 27 57.7				
		Fiji Islands (h = 450 km).		"	25	Up	eP 23 31 50
"	25	Up	iP 16 50 10.9			Ki	iP 23 30 56.5
		Ki	eP 16 49 23			Um	iP 23 31 22.4
		Sk	eP 16 50 00			Ud	iP 23 31 51.1
		Ud	iP 16 50 16.5 C			De	eP 23 32 13
		Kurile Islands.				Aleutian Islands (h = 25 km).	
"	25	Ud	ePKP 17 03 19	"	25	Up	eP 23 58 07
		New Ireland (h = 50 km).				Ki	iP 23 57 12.8
"	25	Up	iP 17 20 43.3			Sk	eP 23 57 46
			ipP 17 20 57.0			Ud	iP 23 58 06.3
		Ki	iP 17 20 24.4			Aleutian Islands (h = 35 km).	
			ipP 17 20 38.0	"	26	Up	iP 01 38 11
			micr sec			i	01 38 17.6
			pP Z' 0.1 1.0			iPKP	01 42 00.2
		Um	iP 17 20 31.3			i	01 42 07.4
		Ud	iP 17 20 51.7			iPP	01 43 00
			ipP 17 21 06.5			iSKS	01 48 46
		Philippine Islands.				iPKKP	01 52 34.0
		h = 50 km (Up,Ki,Ud).					micr sec
"	25	Ki	iP 18 23 23.7			P	Z' 0.2 1.5
		Ud	iP 18 24 17.8			Mx	E 260 23
		Aleutian Islands (h = 35 km).				Mx	N 280 21
"	25	Ki	eP 18 36 34			Mx	Z 320 19
		Ud	iP 18 37 27.6			Ki	iP 01 37 45 C
		De	iP 18 37 50.4			i	01 37 47.8
		Aleutian Islands (h = 80 km).				iPP	01 42 21
"	25	Ud	iP 20 15 52.8			iPKKP	01 53 00.7
		Albania-Yugoslavia.					micr sec
"	25	Up	iP 21 00 41.9			P	Z' 0.2 1.0
			micr sec			Mx	E 280 19
			P Z' 0.1 1.0			Mx	N 250 22
		Ki	iP 20 59 49.3			Mx	Z 400 19
		Sk	eP 21 00 24			Sk	iP 01 38 09.4
		Um	iP 21 00 15.5			iPKP	01 42 00.1
			i 21 00 27.4			iPKKP	01 52 43.7
		Ud	iP 21 00 44.5			Um	iP 01 37 55.5
		De	iP 21 01 06.4			i	01 37 59.6
		Aleutian Islands (h = 25 km).				iPKP	01 41 53.4
						iPP	01 42 35
						iPKKP	01 52 51.5
						Ud	iP 01 38 20.4
						ePKP	01 42 04
						iPKKP	01 52 35.4
						New Ireland (h = 50 km).	
						(cont.)	

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

Year	Month	Day	Station	Phase	Time	Amplitude	Period	Direction	Notes
1971	July	26	(cont.)						
			Ud	iPKP	09 53	32.6			
			De	iPKP	09 53	38.6			
									New Britain (h = N).
									M = 5.7 (Up,Ki).
"	"	26	Ud	ePKP	09 55	54			
			De	iPKP	09 56	00.1			
									New Britain (h = N).
"	"	26	Up				micr sec		
			Mx	E	0.7	18			
			Mx	N	1.4	20			
			Mx	Z	1.5	19			
			Ki				micr sec		
			Mx	E	1.3	18			
			Mx	N	0.6	17			
			Mx	Z	1.2	17			
			Ud	ePKP	11 15	23			
			De	iPKP	11 15	28.5			
									New Ireland (h = N).
									M = 5.7 (Up,Ki).
"	"	26	Um	iP	12 23	06.5			
"	"	26	Up	ePKP	12 23	36			
			Ki	ePKP	12 23	28			
			Um	iPKP	12 23	32.1			
			Ud	iPKP	12 23	40.6			
			De	iPKP	12 23	45.5			
									New Britain (h = N).
"	"	26	Ud	iP	13 14	47.7			
"	"	26	Ki				micr sec		
			Mx	E	0.7	18			
			De	iPKP	13 15	37.2			
									New Britain (h = N).
"	"	26	Ud	iSgl	13 24	43.7			
"	"	26	Up	iPKP	15 54	18.4			
							micr sec		
			Mx	E	2.7	20			
			Mx	N	2.8	22			
			Mx	Z	5.9	19			
			Ki	iPKP	15 54	05.5			
							micr sec		
			Mx	E	6.8	23			
			Mx	N	2.9	20			
			Mx	Z	7.5	23			
			Sk	iPKP	15 54	16.8			
			Um	iPKP	15 54	11.8			
			Ud	iPKP	15 54	20.2			
			De	iPKP	15 54	25.9			
									New Britain (h = N).
									M = 6.1 (Up,Ki).
1971	July	26	Up	ePKP	17 03	41			
							micr sec		
				Mx	E	0.9	18		
				Mx	N	1.4	20		
				Mx	Z	2.3	19		
			Ki	iPKP	17 03	29.9			
							micr sec		
				Mx	E	1.4	19		
				Mx	N	1.0	19		
				Mx	Z	1.1	18		
			Sk	iPKP	17 03	40.5			
			Um	iPKP	17 03	34.2			
			Ud	iPKP	17 03	43.2			
			De	iPKP	17 03	47.4			
									New Britain (h = N).
									M = 5.7 (Up,Ki).
"	"	26	Up				micr sec		
			Mx	E	0.9	18			
			Mx	N	1.1	20			
			Mx	Z	1.8	19			
			Ki				micr sec		
			Mx	E	0.8	18			
			Mx	N	0.9	18			
			Mx	Z	1.6	20			
			Um	iPKP	18 08	33.6			
			Ud	iPKP	18 08	42.7			
			De	iPKP	18 08	48.1			
									New Ireland (h = N).
									M = 5.6 (Up,Ki).
"	"	26	Up	iP	18 17	16.4			
			Ki	iP	18 17	14.2			
			Sk	eP	18 17	29			
			Um	iP	18 17	12.6			
			Ud	iP	18 17	25.4			
			De	eP	18 17	25			
"	"	26	Ud	iPKP	19 18	55.5			
									New Britain (h = N).
"	"	26	Up				micr sec		
			Mx	E	1.5	20			
			Mx	N	2.5	20			
			Mx	Z	2.3	19			
			Ki	iPKP	19 33	59.0			
							micr sec		
			Mx	E	1.6	18			
			Mx	N	2.1	22			
			Mx	Z	4.5	23			
			Sk	e(PKP)	19 34	04			
									ePKP
			Um	iPKP	19 34	02.8			
			Ud	ePKP	19 34	12			
			De	iPKP	19 34	17.4			
									New Britain (h = N).
									M = 5.9 (Up,Ki).

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

1971					1971				
July	26	De	iPKP	21 19 24.1	July	27	(cont.)		
				New Ireland (h = 70 km).			Up	iPS	02 28 24.9
"	26	Up	Mx	21 24				iP'P'	02 41 03.5
				micr sec				iX2	02 41 44.3
									micr sec
			Mx	E 0.9 19				P	Z' 0.8 1.5
			Mx	N 0.7 19				Mx	E 34 22
			Mx	Z 0.8 19				Mx	N 25 22
		Ki	Mx	21 21				Mx	Z 52 20
				micr sec			Ki	iP	02 15 59.5
			Mx	Z 1.1 18				iPP	02 19 55.1
				New Ireland (h = N).				iSKS	02 26 30
"	26	Up	iP	21 27 58.6				iPKKP	02 32 56.6
			i	21 28 16.7				iX1	02 33 33.0
"	26	Ud	iP	22 28 57.6				iP'P'	02 41 06.2
		De	iP	22 28 23.4				iX2	02 41 39.6
									micr sec
"	26	Up	iP	23 20 05.7				P	Z' 1.0 1.7
			ipP	23 20 26.6				Mx	E 18 19
		Ki	iP	23 19 26.9				Mx	N 9.8 19
		Sk	iP	23 20 00.5				Mx	Z 22 22
		Um	iP	23 19 43.6 C			Sk	iP	02 15 45.8
		Ud	iP	23 20 12.3				iPP	02 19 28.0
			ipP	23 20 33.9				iPKKP	02 33 04.5
		De	iP	23 20 26.6				iX1	02 33 40.4
				Japan.				iP'P'	02 41 10.9
				h = 80 km (Up,Ud).				iX2	02 41 49.8
"	27	Up		micr sec			Um	iP	02 16 01.1
			Mx	E 0.9 18				iPP	02 19 55.8
			Mx	N 0.9 20				iSKS	02 26 30
			Mx	Z 1.5 19				iPKKP	02 32 54.5
		Ki		micr sec				iX1	02 33 31.1
			Mx	E 0.8 18				iP'P'	02 41 05.5
			Mx	N 0.6 18				iX2	02 41 35.7
			Mx	Z 1.1 18			Ud	iP	02 15 47.7
		Um	iPKP	00 40 59.0				iPS	02 27 55.6
		Ud	iPKP	00 41 08.3				iP'P'	02 41 11.3
		De	iPKP	00 41 12.4			De	iP	02 15 49.1
			i	00 41 27.6				iPP	02 19 32.1
				New Britain (h = N).				i	02 26 55.3
				M = 5.5 (Up,Ki).				iPKKP	02 33 01.4
"	27	Ud	iP	00 52 28.7				iX1	02 33 39.2
"	27	Ud	iPKP	01 22 58.2				iP'P'	02 41 06.9
		De	iPKP	01 23 02.6				iX2	02 41 41.7
				New Ireland (h = 70 km).					Peru-Ecuador (h = 140 km).
"	27	Up	iP	02 15 58.8 D					m = 6.9, M = 6.8 (Up,Ki).
			i	02 16 10.9					The phases X1 and X2 are in
			iPP	02 19 52.0					average about 36 sec delayed
			iSKS	02 26 21					with respect to PKKP and
				(cont.)					P'P', respectively, suggesting
									that they could be the
									corresponding depth phases,
									pPKKP and pP'P'.
"	27	Up	iP	03 28 34.0			Up	iP	03 28 34.0
				(cont.)					(cont.)

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

1971				1971			
July	27	(cont.)		July	27	Ki Mx	08 04
		Ki	iP 03 27 41.0				micr sec
		Sk	eP 03 28 13			Mx E	0.8 16
		Um	iP 03 28 06.6			Mx N	0.6 18
		Ud	iP 03 28 35.9			Mx Z	1.0 17
		De	iP 03 29 06.1			New Britain (h = 35 km).	
		Aleutian Islands (h = 40 km).					
"	27	Up	iPKP 04 22 44.9	"	27	Ki	iPn 09 01 49.5
		Um	iPKP 04 22 37.4				iSn 09 02 35.6
		Ud	iPKP 04 22 47.6				iS* 09 02 48.5
		De	iPKP 04 22 54.0			Sk	eSgl 09 05 33
		New Britain (h = 55 km).				Um	iSgl 09 04 24.5
						Ud	iSgl 09 06 54.6
"	27	Up	Mx 04 23			Northwest Russia-Norway border region, 69.7°N, 30.1°E. Origin time = 09 00 49. Explosion.	
			micr sec				
		Mx	E 1.8 19				
		Mx	N 1.7 19				
		Mx	Z 2.0 19				
		New Britain (h = 45 km).		"	27	Up	micr sec
"	27	Ki	iSgl 05 21 40.8			Mx Z	0.8 19
		Sk	eSgl 05 22 15			De	iPKP 09 37 22.3
		Um	iSgl 05 20 24.0			New Britain (h = N).	
		Ud	eSn 05 21 10				
			iSgl 05 21 56.7	"	27	Up	iSgl 12 03 42.9
		De	eSgl 05 22 43			Ki	eSgl 12 06 09
		Lake Ladoga, 61.3°N, 30.4°E. Origin time = 05 17 36. Explosion.				Sk	eSgl 12 05 36
						Um	iSgl 12 04 16.1
						Ud	iSgl 12 04 45.5
						De	iSgl 12 05 11.8
"	27	Ud	ePKP 05 52 42			Estonia, 59.5°N, 25.0°E. Origin time = 12 01 44. Explosion.	
		De	iPKP 05 52 47.6				
		New Britain (h = N).		"	27	De	i(P) 12 11 21.8
"	27	Ki	iP 06 19 07.4	"	27	Ud	i(Sgl) 12 37 34.1
		Ud	iP 06 18 39.0			De	i(Sgl) 12 37 53.9
		De	iP 06 18 21.4				
"	27	De	ePKP 06 50 36	"	27	Up	iP 12 56 21.1
		New Britain (h = N).					iPP 12 57 57.8
"	27	Up	micr sec				micr sec
		Mx	E 1.1 19			Mx	E 0.7 14
		Mx	N 1.0 18			Mx	N 0.5 9
		Mx	Z 2.0 19			Mx	Z 0.9 14
		Ki	micr sec			Ki	iP 12 56 18.8
		Mx	E 1.6 18				micr sec
		Mx	N 0.9 18			Mx	E 0.4 9
		Mx	Z 1.2 17			Mx	N 0.7 12
		Ud	ePKP 07 54 28			Mx	Z 0.7 14
		De	iPKP 07 54 31.5			Sk	iP 12 56 42.1
		New Britain (h = 40 km). M = 5.7 (Up,Ki).					iPP 12 58 25.6
						Um	iP 12 56 14.8
							i 12 56 18.5
						(cont.)	

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

1971				1971			
July	27	(cont.)		July	27	(cont.)	
		Um	iPP 12 57 47.9			Up	micr sec
		Ud	iP 12 56 37.6			Mx	E 3.1 20
			i 12 56 42.3			Mx	N 4.3 20
			iPP 12 58 17.4			Mx	Z 4.1 20
		De	iP 12 56 38.0			Ki	iP 14 36 52.5
			iPP 12 58 23.7				iS 14 46 15
		Sinkiang.					micr sec
		M = 4.9 (Up,Ki).				P	Z' 0.1 1.0
"	27	Ud	iPKP 13 01 33.6			Mx	E 4.9 18
		New Britain (h = N).				Mx	N 7.4 23
"	27	Up	iSgl 13 20 31.1			Mx	Z 6.1 18
		Ud	iSgl 13 20 35.4			Sk	iP 14 37 09.3
		De	iPgl 13 18 31.0				ipP 14 37 30.0
			iSgl 13 18 48.3			Um	iP 14 36 48.7
		Baltic Sea, south of Sweden,					ipP 14 37 08.7
		55.5°N, 15.0°E.					iS 14 46 08
		Origin time = 13 18 10.				Ud	iP 14 37 05.7
		Explosion.				De	iP 14 37 05.2
"	27	Up	iSgl 13 20 40.1				i 14 37 29.6
		Ud	iSgl 13 20 44.6			Andaman Islands:	
		De	iPgl 13 18 40.1			h = 80 km (Up,Sk,Um).	
			iSgl 13 18 57.1			m = 5.7, M = 5.9 (Up,Ki).	
		Baltic Sea, south of Sweden,		"	27	De	e(P) 18 05 32
		55.5°N, 15.5°E.		"	27	Up	iPKP 18 27 19.7
		Origin time = 13 18 19.					micr sec
		Explosion.				Mx	Z 0.6 17
"	27	De	ePKP 13 37 30			Ki	ePKP 18 27 07
		New Britain (h = N).					micr sec
"	27	Ud	i(P) 13 38 10.1			Mx	E 0.8 18
"	27	De	ePKP 13 50 38			Mx	N 0.5 19
		New Britain (h = N).				Mx	Z 0.8 17
"	27	Ud	i(P) 13 56 19.5			Sk	ePKP 18 27 18
"	27	Um	iSgl 14 02 52.0			Um	iPKP 18 27 12.5
		Esthonia.				Ud	iPKP 18 27 21.2
		Explosion.				De	iPKP 18 27 26.1
"	27	De	iPKP 14 21 11.7			New Britain (h = 45 km).	
		New Britain (h = 55 km).		"	27	Ud	iP 19 24 20.9
"	27	Ud	i(P) 14 22 17.3			Ionian Islands.	
"	27	Up	iP 14 36 54.0			Up	iP 20 39 49.6
		ipP	14 37 14.2			Sk	eP 20 39 28
		iS	14 46 17			Ud	iP 20 39 50.5 C
			micr sec			Aleutian Islands (h = 40 km).	
		P	Z' 0.1 1.0	"	27	Up	iP 20 46 24.2
		(cont.)				Ud	iP 20 46 24.9
						De	eP 20 46 48
						Hudson Bay.	
				"	27	Up	eP 21 02 53
						iPKP	21 06 35.9
						(cont.)	

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

1971				1971							
July	27	(cont.)		July	27	Um	i(P)	23 57 07.7			
		Up	ipPKP	21 06 47.8							
			iPKKP	21 17 10.1	"	28	Um	ipPKP	00 34 33.8		
				micr sec			Ud	ePKP	00 34 42		
		Mx	E	4.3 19			De	ePKP	00 34 43		
		Mx	N	6.4 22			New Britain (h = 55 km).				
		Mx	Z	8.1 20							
		Ki	eP	21 02 29	"	28	Up	eP	01 25 15		
			ipPKP	21 06 28.0				i	01 25 25.2		
			iSKS	21 13 03				ipPKP	01 29 05.9		
				micr sec				iSKS	01 35 53		
		Mx	E	6.3 23				iSKKS	01 37 02		
		Mx	N	4.7 21				ipKKP	01 39 36.4		
		Mx	Z	6.1 21					micr sec		
		Sk	ipPKP	21 06 35.8				PKP	Z' 0.1 1.4		
		Um	eP	21 02 44				Mx	E 6.1 21		
			ipPKP	21 06 29.6				Mx	N 5.4 20		
			i	21 06 38.5				Mx	Z 9.0 18		
			i	21 07 05.5			Ki	iP	01 24 51.7		
			ipKKP	21 17 27.8				ipPKP	01 28 50.2		
		Ud	iP	21 03 00.1				iSKS	01 35 29		
			ipPKP	21 06 39.2				iSKKS	01 36 26		
			ePKKP	21 17 08					micr sec		
		De	ipPKP	21 06 43.3				PKP	Z' 0.1 1.3		
			ipPKP	21 06 55.9				Mx	E 9.5 21		
			ipKKP	21 17 02.7				Mx	N 7.0 22		
								Mx	Z 10 19		
		New Ireland.					Sk	eP	01 25 26		
		h = 45 km (Up,De).						ipPKP	01 29 08.3		
		M = 6.3 (Up,Ki).						ePKKP	01 39 41		
"	27	De	i(P)	21 15 09.7			Um	iP	01 25 02.7		
"	27	Up	Mx	23 11				i	01 25 10.5		
				micr sec				ipPKP	01 28 59.6		
		Mx	E	1.0 18				iSKS	01 35 38		
		Mx	N	0.9 17			Ud	eP	01 25 21		
		Ki	Mx	23 14				i	01 25 29.7		
				micr sec				ipPKP	01 29 08.8		
		Mx	E	1.3 18				ipKKP	01 39 37.0		
		Mx	N	0.9 18			De	ipPKP	01 29 12.8		
		Mx	Z	1.7 18			New Britain (h = N).				
							M = 6.4 (Up,Ki).				
"	27	Up		micr sec	"	28	Up	iP	01 43 09.9		
		Mx	N	0.8 19							
		Mx	Z	1.3 19			"	28	Ud	i(P)	02 02 25.1
		Ki	ePKP	23 53 50			"	28	Ud	ipPKP	02 48 14.9
				micr sec					iSKP	02 51 31.8	
		Mx	E	1.4 19			Fiji Islands (h = 410 km).				
		Mx	N	0.5 17							
		Mx	Z	1.3 18			"	28	Ud	iP	02 51 00.8
		Sk	ePKP	23 54 01			Kurile Islands.				
		Um	ipPKP	23 53 54.3							
		Ud	ePKP	23 54 06			"	28	Um	ipPKP	03 06 02.5
		De	ipPKP	23 54 08.3			New Britain (h = 60 km).				
		New Britain (h = N).									
		M = 5.6 (Up,Ki).									

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

1971				1971					
July	28			July	28				
		Up	iP	04 45 45.0		Ki	ePKP	14 21 19	
		Ki	iP	04 44 51.8		Ud	iPKP	14 21 34.5	
		Sk	eP	04 45 26		De	iPKP	14 21 39.1	
		Um	iP	04 45 17.6		New Britain (h = 35 km),			
		Ud	iP	04 45 46.9					
		Aleutian Islands (h = 55 km).			"	28	Up	eSgl	14 57 25
"	28	Um	iP	06 00 37.3			Ki	eSgl	14 56 25
"	28	Up	iPKP	06 01 51.9			Sk	iPgl	14 54 26.0
		Um	iPKP	06 01 52.0				iSgl	14 55 06.7
		Ud	i(PKP)	06 01 52.0			Um	iSn	14 56 05.9
			iPKP	06 01 54.7				iSgl	14 56 37.4
			iSKP	06 04 46.3			Ud	iSn	14 56 17.7
		De	iPKP	06 02 04.0				iSgl	14 56 48.0
		Fiji Islands (h = 550 km).					Norwegian Sea, 65.7°N, 7.4°E. Origin time = 14 53 33.		
"	28	Ud	i(P)	06 32 03.6	"	28	Ud	i(Sgl)	15 09 15.5
		De	i(P)	06 32 14.8			De	e(Sgl)	15 09 55
"	28	Um	i(P)	08 04 01.7	"	28	Up	iSgl	15 15 40.7
"	28	Up		micr sec			Sk	ePgl	15 12 37
		Mx	E	0.7 18				iSgl	15 13 18.8
		Mx	N	0.6 18			Um	i	15 15 01.9
		Mx	Z	1.0 19			Ud	eSgl	15 14 57
		Ki		micr sec			Probably Norwegian Sea, from the same focal area as the event on July 28, 14 53 33.		
		Mx	E	0.6 17					
		Mx	N	0.4 16					
		Mx	Z	0.7 16					
		De	iPKP	08 07 44.2	"	28	Ud	i(P)	15 27 20.1
		New Britain (h = N).			"	28	Ud	iP	15 47 01.0
		M = 5.4 (Up,Ki).			"	28	Up	iPKP2	15 55 19.3
"	28	Up		micr sec	"	28	Ki	ePKP2	15 55 16
		Mx	Z	0.6 19			Um	iPKP2	15 55 21.8
		Ki		micr sec			Ud	iPKP2	15 55 38.4
		Mx	E	0.5 16			De	iPKP2	15 55 39.2
		De	ePKP	10 15 51			Macquarie Islands (h = N).		
		New Britain (h = 40 km).			"	28	Ud	e(Sgl)	17 29 00
"	28	Up	Mx	11 30			De	i(Pgl)	17 26 44.3
				micr sec				i(Sgl)	17 27 24.6
		Mx	Z	0.5 16					
		New Britain (h = N).			"	28	Ud	ePKP	18 03 32
"	28	Up	iSgl	13 28 36.8			New Britain (h = N).		
		Ki	eSgl	13 30 32	"	28	De	e(Sgl)	18 22 52
		Sk	eSgl	13 30 18	"	28	Up	iS*	18 58 39.9
		Um	iSgl	13 28 52.4				iSgl	18 58 45.4
		Ud	iSgl	13 29 35.5			Sk	eSgl	19 00 03
		De	iSgl	13 30 02.3			Um	iSgl	18 58 16.6
		Western Russia, 59.3°N, 27.8°E. Origin time = 13 25 52. Explosion?					Ud	iSgl	18 59 44.3
							Lake Ladoga. Explosion.		

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

1971				1971			
July	28	Up	iSgl	19 29 27.5	July	29	(cont.)
		Sk	eSgl	19 32 43			Um eP 10 30 27
		Um	iSgl	19 31 06.7			Italy (h = N).
		Ud	iSgl	19 30 27.2			
				Baltic Sea, off coast of			
				Estonia, 58.3°N, 21.8°E.			
				Origin time = 19 28 11.			
				Explosion.			
"	28	Ki	e(P)	20 45 45	"	29	Um iPKP 10 37 10.3
							De iPKP 10 37 25.1
							New Ireland (h = 45 km).
"	28	Up	iP	21 34 13.6	"	29	Ud i(Sgl) 11 40 47.5
		Ud	iP	21 34 20.4			De i(Pgl) 11 38 32.8
		De	iP	21 33 45.7			e(Sgl) 11 39 08
				Southern Baltic Sea.			
				Explosion.			
"	28	Up	iPgl	23 25 33.1 C	"	29	De i(Pgl) 12 24 31.5
			iSgl	23 26 02.7			e(Sgl) 12 25 04
			eRg	23 26 16	"	29	Up i(P) 13 15 36.5
		Ki	iSgl	23 27 55.7	"	29	Up iP 13 40 12.3
		Sk	ePgl	23 25 41			Ud eP 13 40 25
			iSgl	23 26 16.8	"	29	De iPKP 14 20 01.6
		Um	iPgl	23 25 30.1			New Ireland (h = 70 km).
			iSgl	23 25 58.1	"	29	Um iPKP 15 04 08.2
		Ud	ePgl	23 25 40			De ePKP 15 04 22
			iSgl	23 26 14.0			New Britain (h = 60 km).
		De	eSgl	23 27 56	"	29	Ud e(Pgl) 15 12 25
				Medelpad-Hälsingland,			
				Sweden, 62.1°N, 17.3°E.			
				Origin time = 23 24 54.			
				Felt.			
"	29	Ki	eP	01 15 29	"	29	Ud eP 16 22 38
		Um	iP	01 16 10.0			Aleutian Islands (h = 40 km).
		Ud	iP	01 16 46.6	"	29	Up e(PKP) 16 37 23
				Arctic Ocean.			
"	29	Ud	iP	03 00 43.7	"	29	Sk iPKP 16 37 12.1
"	29	Ud	iP	05 43 38.5			Um iPKP 16 37 07.3
				Japan.			
"	29	Um	e(PKP)	09 16 35			iPKP2 16 37 22.2
		Ud	ePKP	09 16 36			Ud iPKP 16 37 18.9
		De	iPKP	09 16 41.2			De iPKP 16 37 22.7
				New Britain (h = N).			
"	29	Up	iPKP	09 28 17.7	"	29	Ki eSgl 18 03 08
		Sk	ePKP	09 28 04			Sk eSgl 18 03 13
		Um	ePKP	09 27 59			Um iSgl 18 03 35.7
		Ud	iPKP	09 28 10.8			Nordland, Norway,
				66.5°N, 14.1°E.			
				Origin time = 18 01 39.			
				Explosion.			
"	29	Up	iP	10 29 41.5	"	29	Um iP 19 45 29.4 C
		Sk	eP	10 30 16			Ud iP 19 45 09.8 C
				(cont.)			
				Turkey.			

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SEISMOLOGICAL BULLETIN

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

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

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

AUGUST 1 - 31, 1971

1971				1971			
Aug.				Aug.			
1	Up	iP	02 16 46.9 C	1	(cont.)		
		iP'P'	02 45 17.1		Ki	iP	10 55 11.2
			micr sec		Um	iP	10 54 55.5
	Mx	E	1.2 20		Ud	eP	10 54 54
	Mx	N	2.3 21		De	iP	10 54 43.3
	Mx	Z	3.7 21		Indian Ocean (h = N).		
	Ki	iP	02 15 55.5 C				
		ipP	02 16 08.5	"	1	Um	ePKP 16 22 17
			micr sec				i(pPKP) 16 22 26.2
	P	Z'	0.1 0.6		Ud	e	16 22 45
	Mx	E	2.0 20		De	ePKP	16 22 28
	Mx	N	1.1 20				i(pPKP) 16 22 41.6
	Mx	Z	1.6 20		New Britain (h = N).		
	Sk	iP	02 16 31.9 C				
		ipP	02 16 44.5	"	1	Up	iP 19 06 12.0
	Um	iP	02 16 19.5 C		Ki	e(P)	19 05 37
	Ud	iP	02 16 51.3 C			e	19 05 55
		ipP	02 17 03.8		Um	iP	19 05 49.0
		iP'P'	02 45 17.1			e	19 06 11
	De	iP	02 17 11.6		Ud	iP	19 06 17.3
		ipP	02 17 20.8		Kurile Islands (h = N).		
	Kurile Islands.						
	h = 45 km (Ki,Sk,Ud,De).			"	1	Up	iP 20 32 50.0
	M = 5.4 (Up,Ki).					Um	iP 20 32 25.6
"	1	Up	i(P) 03 37 19.0			Ud	iP 20 32 56.4
		Ud	iP 03 37 12.2		Japan (h = 55 km).		
		De	eP 03 36 39	"	1	De	i(P) 21 03 54.7
	Crete.						
"	1	Um	ePKP 08 40 00	"	1	Up	micr sec
		Ud	ePKP 08 40 11			Mx	Z 0.8 19
	Solomon Islands					Ki	micr sec
	(h = 60 km).					Mx	E 0.7 18
						Mx	N 0.5 18
						Mx	Z 0.9 18
"	1	Up	eP 10 54 47		Um	iPKP	22 08 19.2
		i	10 55 00.2		De	iPKP	22 08 30.4
	(cont.)				New Britain (h = 40 km).		

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

1971						1971						
Aug.	2	Up	iPKP	00 38 34.2		Aug.	2	Up	iP	13 11 06.4	C	
				micr sec					ipP	13 11 13.5		
			Mx	E 1.0 17						micr sec		
			Mx	N 1.3 18					P	Z' 0.1 1.1		
			Mx	Z 1.5 16					pP	Z' 0.2 0.8		
		Ki	iP	00 34 20.4					Mx	E 0.9 18		
			i	00 35 20.2					Mx	N 1.3 23		
				micr sec					Mx	Z 1.9 23		
			Mx	E 0.8 18				Ki	iP	13 10 24.2	C	
			Mx	N 0.6 18						micr sec		
			Mx	Z 1.0 17					P	Z' 0.2 1.1		
		Um	iPKP	00 38 28.0					Mx	E 1.6 23		
			iSKS	00 45 09					Mx	N 1.0 23		
		Ud	ePKP	00 38 39					Mx	Z 1.0 17		
		De	iPKP	00 38 41.6				Um	iP	13 10 43.1	C	
		New Britain (h = 35 km).							ipP	13 10 48.3		
		M = 5.6 (Up, Ki).						Ud	iP	13 11 13.6	C	
"	2	Ki	iPKP	04 41 11.1					ipP	13 11 18.4		
		Um	iPKP	04 41 08.7					i	13 11 29.9		
		Ud	iPKP	04 41 00.3				De	eP	13 11 31		
			iPKKP	04 51 37.8					ipP	13 11 37.2		
		Chile (h = 10 km).						Japan.				
								h = 20 km (Up, Um, Ud, De).				
								m = 6.3, M = 5.3 (Up, Ki).				
"	2	Up	iP	07 36 01.6	D	"	2	De	iPKP	13 15 34.2		
			iS	07 45 01				New Britain (h = N).				
			iP'P'	08 04 05.2				"	2	Um	iP	17 07 11.4
				micr sec				Yellow Sea.				
			P	Z' 8.4 1.6				"	2	Up	iP	19 27 24.9
			Mx	E 160 25						Ki	iP	19 28 37.8
			Mx	N 250 23						Um	iP	19 28 02.0
			Mx	Z 400 24						Ud	iP	19 27 32.1
		Ki	iP	07 35 19.3	D					De	iP	19 26 56.2
			iS	07 43 45				South of Greece.				
			iP'P'	08 04 17.0				"	2	Um	ePKP	20 28 38
				micr sec						ipPKP	20 28 47.3	
			P	Z' 8.5 1.8						De	ePKP	20 28 52
			Mx	E 210 19						ipPKP	20 29 01.0	
			Mx	N 110 20				New Britain.				
			Mx	Z 160 20				h = 35 km (Um, De).				
		Um	iP	07 35 38.3	D			"	3	Up	iP	05 43 13.9
			iS	07 44 20						ipP	05 43 20.6	
		Ud	iP	07 36 08.8	D						micr sec	
			iS	07 45 18.5						P	Z' 0.1 1.1	
			iP'P'	08 04 07.7					Ki	iP	05 43 39.3	
		De	iP	07 36 25.1	D					ipP	05 43 46.2	
			iS	07 45 50.4							micr sec	
		Japan (h = 50 km).								P	Z' 0.1 1.3	
		m = 7.6, M = 7.4 (Up, Ki).							Sk	eP	05 43 04	
"	2	Ki	iP	09 14 27.1				Um	iP	05 43 30.0		
		Um	iP	09 14 32.4				(cont.)				
		Ud	eP	09 14 50								
		Molucca Passage (h = N).										

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

1971						1971						
Aug.	4	(cont.)				Aug.	4	(cont.)				
		Ud	iP	02 06 43.5	C			Ud	iP	18 35 01.2		
			ipP	02 07 29.4				Aleutian Islands				
		De	iP	02 06 39.6				(h = 35 km).				
		Hindu Kush.						"	4	Ki		
		h = 220 km (Up,Ud).									micr sec	
"	4	Ki	iPn	10 51 17.8					Mx	E	0.7 19	
			iSn	10 52 16.6					Mx	N	0.6 18	
			iS*	10 52 35.7					Mx	Z	1.2 19	
		Sk	eSg1	10 55 07				Um	iPKP2		19 27 38.4	
		Um	i	10 53 12.9				Ud	iPKP2		19 27 43.9	
			iSg1	10 53 31.8				Balleny Islands (h = N).				
		Northwest Russia,						"	4	Up	iP	21 09 02.1
		67.8°N, 34.0°E.								Ki	iP	21 08 07.2
		Origin time = 10 50 00.									i	21 08 18.3
		Explosion.										micr sec
"	4	Ki	iPn	11 00 32.2					P	Z'	0.1 0.6	
			iSn	11 01 32.1				Sk	iP		21 08 44.4	
			iS*	11 01 50.2				Um	iP		21 08 32.6	
		Sk	eSg1	11 04 18				Ud	iP		21 09 05.5	
		Um	iSg1	11 02 44.9				De	iP		21 09 27.3	
		Northwest Russia,						Kamchatka (h = 90 km).				
		67.6°N, 34.3°E.						"	4	Ki	iP	21 36 26.9
		Origin time = 10 59 12.						Mindanao.				
		Explosion.						"	4	Um	iPKP	23 27 26.7
"	4	Up	iSg1	12 11 10.7				Ud	i(pPKP)		23 27 57.0	
			eRg	12 11 27				Kermadec Islands				
		Sk	iSg1	12 11 11.7				(h = 60 km).				
		Um	iSg1	12 10 52.1				"	5	Up	iP	02 09 48.3
			iRg	12 11 05.3						iS		02 18 49
		Medelpad, Sweden,										micr sec
		62.4°N, 17.3°E.							P	Z'	0.5 1.5	
		Origin time = 12 09 50.							Mx	E	24 21	
"	4	Up	iP	14 15 59.3					Mx	N	79 29	
				micr sec					Mx	Z	70 28	
		P	Z'	0.1 1.2				Ki	iP		02 10 29.0	
		Ki	iP	14 16 25.2					iX		02 10 56.4	
				micr sec							micr sec	
		P	Z'	0.1 1.2					P	Z'	1.6 2.4	
		Sk	eP	14 15 50					Mx	E	43 16	
		Um	iP	14 16 16.3					Mx	N	35 19	
		Ud	iP	14 15 41.6					Mx	Z	44 18	
		De	iP	14 15 43.3				Sk	iP		02 09 57.2	
		North Atlantic Ocean							iX		02 10 24.1	
		(h = N).						Um	iP		02 10 11.3	
		m = 5.6 (Up,Ki).							iS		02 19 36	
"	4	Up	iP	18 35 02.0				Ud	iP		02 09 40.5	
		Ki	iP	18 34 08.7				De	iP		02 09 24.5	
		Um	iP	18 34 35.4					iX		02 09 48.2	
		(cont.)						Atlantic Ocean (h = N).				
								m = 6.6, M = 6.9 (Up,Ki).				

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

1971						1971				
Aug.	5	Ki	i(P)	04 14 18.9		Aug.	5	Ki	eP	10 52 06
		Um	e(P)	04 15 12				Um	iP	10 51 49.0
									Atlantic Ocean (h = N).	
"	5	Ki	eP	05 04 02		"	5	Up	iSg1	11 01 34.7
				micr sec					iRg	11 01 40.3
		Mx	E	0.9 17				De	iSg1	11 02 58.3
		Mx	N	0.6 17				Off coast of Södermanland,		
		Mx	Z	2.0 22				Sweden.		
		Um	iP	05 04 02.8				Explosion.		
		Ud	iP	05 04 19.0						
		Celebes (h = 15 km).								
"	5	Ki	i(P)	06 13 52.8		"	5	Up	iSg1	11 03 29.5
									iRg	11 03 34.3
"	5	Up	iPg1	09 18 00.0				De	iSg1	11 04 51.3
			iSg1	09 18 15.5				Off coast of Södermanland,		
			iRg	09 18 20.8				Sweden.		
		Ud	iSg1	09 19 08.4				Explosion.		
		De	iSg1	09 19 32.2		"	5	Up	iP	11 06 49.5
		Off coast of Södermanland,						Ki	iP	11 06 02.7
		Sweden, 58.9°N, 18.6°E.						Sk	iP	11 06 38.4
		Origin time = 09 17 41.						Um	iP	11 06 24.5
		Explosion.						Ud	iP	11 06 56.4
"	5	Up	iPg1	09 35 48.7				De	iP	11 07 13.6
			iSg1	09 36 04.5				Kurile Islands		
			iRg	09 36 10.6				(h = 60 km).		
		De	iSg1	09 37 25.3		"	5	Up	iSg1	12 00 58.4
		Off coast of Södermanland,						Ki	e(Sg1)	12 03 33
		Sweden.						Sk	iSg1	12 02 48.4
		Origin time = 09 35 29.						Um	iSg1	12 01 30.2
		Explosion.						De	eSg1	12 02 26
"	5	Up	iPg1	09 51 09.0				Esthonia, 59.5°N, 25.1°E.		
			iSg1	09 51 24.4				Origin time = 11 58 59.		
			iRg	09 51 29.9				Explosion.		
		De	iSg1	09 52 41.4		"	5	Up	i(PP)	12 48 29.8
		Off coast of Södermanland,						De	ePP	12 49 03
		Sweden.						New Britain.		
		Origin time = 09 50 50.				"	5	Up	iP	13 36 13.6
		Explosion.						Ki	iP	13 26 12.1
"	5	Up	iPg1	10 07 45.5				Sk	eP	13 36 32
			iRg	10 08 05.2				Um	iP	13 36 09.3
		De	iSg1	10 09 19.5				Ud	iP	13 36 25.8
		Off coast of Södermanland,						De	iP	13 36 24.8
		Sweden.						Andaman Islands (h = N).		
		Explosion.				"	5	Ud	e(P)	13 48 05
"	5	Up	iPg1	10 26 35.1		"	5	Up	iP	14 01 45.1
			iSg1	10 26 50.6				Ki	iP	14 00 50.4
			iRg	10 26 55.9						micr sec
		Ud	iSg1	10 27 47.9				P	Z'	0.1 0.9
		De	iSg1	10 28 10.3				Mx	E	1.2 22
		Off coast of Södermanland,						Mx	N	0.5 16
		Sweden, 59.0°N, 18.9°E.						Mx	Z	0.7 14
		Origin time = 10 26 16.						Sk	eP	14 01 21
		Explosion.						(cont.)		

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

1971				1971			
Aug.	5	(cont.)		Aug.	5		
		Um	iP 14 01 18.6			Up	iP 23 10 50.9
		Ud	iP 14 01 43.9			Ki	iP 23 10 48.4
		De	iP 14 02 06.8			Um	iP 23 10 54.3
			iPcP 14 02 32.7			Ud	eP 23 10 44
		Aleutian Islands (h = N).				De	iP 23 10 50.3
						Costa Rica (h = N).	
"	5	Up	iP 15 20 38.3	"	6	Ud	i(P) 00 08 35.3
		Um	iP 15 20 20.0				
		Ud	iP 15 20 46.2	"	6	Um	eP 02 26 24
		South of Japan (h = 460 km).		"	6	Ki	iPn 10 51 01.4
"	5	Up	iP 16 18 43.2				iSn 10 51 59.6
		Um	iP 16 18 37.8				eS* 10 52 20
"	5	Up	iP 16 19 35.8			Sk	iSg1 10 54 48.4
		Ki	iP 16 19 34.9			Um	iSn 10 52 38.7
		Um	iP 16 19 31.8				iSg1 10 53 14.1
		Ud	iP 16 19 40.6			Northwest Russia, 67.8°N, 33.9°E.	
		De	eP 16 19 46			Origin time = 10 49 44. Explosion.	
"	5	Ki	i(P) 17 46 36.8	"	6	Ki	i(P) 19 48 05.1
"	5	Up	iP 22 48 34.7	"	6	Up	iPKP 23 10 31.7
		ipP	22 48 44.0				iSKP 23 13 27.5
			micr sec			Ki	iX 23 10 24.4
		pP	Z' 0.1 1.1			Sk	iPKP 23 10 24.0
		Mx	E 1.0 21				iX 23 10 36.0
		Mx	N 0.8 17			Um	iPKP 23 10 20.0
		Mx	Z 1.1 21				iX 23 10 33.0
		Ki	iP 22 48 35.9			Ud	iPKP 23 10 34.5
		ipP	22 48 44.7			De	iPKP 23 10 44.5
			micr sec			Fiji Islands (h = 530 km). Double PKP, in average about 12.5 sec apart. The phase X denotes the second arrival.	
		Mx	E 1.6 18	"	7	Ki	iP 03 48 12.5
		Mx	N 2.0 20			Sk	iP 03 48 34.5
		Mx	Z 2.0 19			Ud	eP 03 48 38
		Sk	iP 22 49 00.6	"	7	Up	iPKP 07 12 13.7
		Um	iP 22 48 32.9				eSKP 07 15 21
		ipP	22 48 40.8				micr sec
		Ud	eP 22 48 50			Ki	iPKP 07 12 00.4 C
		ipP	22 48 57.1				micr sec
		De	iP 22 48 47.2			Sk	PKP Z' 0.2 0.9
		Andaman Islands. h = 30 km (Up, Ki, Um, Ud). M = 5.3 (Up, Ki).				Um	iPKP 07 12 11.1 C
"	5	Up	ePKP 22 55 42				eSKP 07 15 21
		ipPKP	22 55 51.3			Um	iPKP 07 12 06.6 C
		Sk	ePKP 22 55 41			Ud	iPKP 07 12 15.7 C
		ipPKP	22 55 50.7				iSKP 07 15 25.7
		Um	iPKP 22 55 34.5			De	iPKP 07 12 22.0 C
		ipPKP	22 55 45.0				iSKP 07 15 36.4
		Ud	iPKP 22 55 47.3			New Hebrides Islands (h = 180 km).	
		De	iPKP 22 55 53.9				
		Kermadec Islands. h = 35 km (Up, Sk, Um).					

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

1971				1971				
Aug.	7	Ki	i(Pg1) i(Sg1)	10 16 15.0 10 16 44.2	Aug.	8	(cont.) Ud e(Pn) iPg1 i(Sn) iSg1 De ePn i(Sn) iSg1	03 51 50 03 52 02.1 03 52 33.4 03 52 51.4 03 52 10 03 52 56.2 03 53 22.0
"	7	Ki	i(Pg1) i(Sg1)	10 16 29.4 10 16 58.0				
"	7	Up	iP	15 30 03.2 micr sec				
			P	Z' 0.1 1.0				
		Ki	e(P) iP	15 29 51 15 30 01.8 micr sec				Southern Norway, 59.3°N, 6.8°E. Origin time = 03 50 59.
			P	Z' 0.1 0.5	"	8	Sk iP iPcP	04 02 25.7 04 02 53.4
			Mx	E 0.6 13				Atlantic Ocean (h = N).
			Mx	N 0.8 12				
			Mx	Z 0.5 12				
		Sk	iP	15 30 25.1	"	8	Up iPKP	06 50 51.4 micr sec
		Um	iP	15 30 00.1				PKP Z' 0.1 1.0
		Ud	iP	15 30 18.6			Ki ePKP	06 50 27
		De	iP	15 30 18.2			Sk iPKP	06 50 45.5 C
				Kashmir-Sinkiang (h = N). m = 5.9 (Up, Ki). (P) at Ki denotes early arrival of P.			Um iPKP	06 50 40.5 C
							Ud iPKP	06 50 54.1 C
							De iPKP	06 51 02.0
"	7	Up	eP i	17 12 32 17 12 41.2				Kermadec Islands (h = 50 km).
		Ki	eP	17 13 21 micr sec	"	8	Um iP	16 51 03.9 Banda Sea (h = 160 km).
			Mx	E 0.6 14				
			Mx	N 0.5 16	"	8	Up iP Ki eP Sk iP Um iP Ud iP De iP	19 44 13.6 19 45 30 19 44 55.5 19 44 54.0 19 44 20.9 19 43 49.5
			Mx	Z 0.6 15				Greece (h = 55 km).
		Sk	eP	17 13 09				
		Um	iP	17 12 54.9	"	8	Um iP	21 21 45.9 Japan Sea. Deep.
		Ud	iP	17 12 40.1				
				Turkey (h = 20 km).	"	9	Ud iP	01 11 32.3 Sinkiang (h = N).
"	7	Um	iP	22 46 45.6				
"	8	Um	iP	02 33 12.0	"	9	Up iP i iPp iS i	03 01 08.1 03 01 12.9 03 01 17.0 03 06 21 03 07 22.3 micr sec
"	8	Ud	iP	02 52 35.2 Indian Ocean (h = N).				pP Z' 0.2 1.0 Mx E 3.4 18 Mx N 2.6 15 Mx Z 4.1 20
"	8	Up	iPg1 iSg1	03 52 40.4 03 53 52.6	(cont.)			
		Ki	iSg1 i	03 56 23.7 03 56 29.0				
		Sk	ePg1 iSn iSg1 i	03 52 28 03 53 11.5 03 53 35.5 03 53 41.3				
		Um	eSn i iSg1	03 54 21 03 54 48.3 03 55 03.6				

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

1971

Aug. 9 (cont.)

Ki	iP	03 01	40.6
	ipP	03 01	50.1
	iPn	03 02	52.6
			micr sec
	pP	Z' 0.2	1.0
	Mx	E 3.6	17
	Mx	N 3.5	18
	Mx	Z 3.3	14
Sk	iP	03 01	42.4
	ipP	03 01	52.3
	iPP	03 03	05.8
Um	iP	03 01	18.6
	ipP	03 01	27.0
	iPn	03 02	21.9
	iS	03 06	37
Ud	iP	03 01	24.7
	ipP	03 01	33.2
De	iP	03 01	11.0
	ipP	03 01	20.7

Iran.
h = 35 km (Up, Ki, Sk, Um, Ud, De).
m = 5.9, M = 5.3 (Up, Ki).
Clear Pn were found only for Ki, Um, which are those of our stations with the least disturbed paths.

" 9 Ud eP 04 46 11
Turkey (h = 10 km).

" 9 Up iP 12 30 42.0
iPP 12 31 43
micr sec

Mx	E	2.4	21
Mx	N	3.0	21
Mx	Z	4.6	21

Ki iP 12 30 30.7
i 12 31 27.8
micr sec

Mx	E	9.7	24
Mx	N	6.7	22
Mx	Z	21	26

Sk iP 12 30 42.0
Um iP 12 26 37
iPKP 12 30 36.6
iPP 12 31 25.1
Ud iP 12 30 44.9
iPP 12 31 58.6
De iP 12 30 50.4

Solomon Islands
(h = 60 km).
M = 6.2 (Up, Ki).

" 9 De i(P) 16 31 04.4

1971

Aug. 9 Up iP 20 21 28
micr sec

Mx	E	2.9	19
Mx	N	3.8	18
Mx	Z	6.5	18

Ki eP 20 16 10
ePKP 20 20 12
iSKS 20 26 45
iSKKS 20 27 39
micr sec

Mx	E	4.1	17
Mx	N	2.5	17
Mx	Z	5.1	17

Sk iP 20 20 22.9
Um iP 20 20 16.5
ipPKP 20 20 23.3
Ud e(PKP) 20 20 29
De iP 20 20 25.5

New Britain.
h = 25 km (Um).
M = 6.1 (Up, Ki).

" 9 Up iP 20 25 43.3

" 10 Ki eP 04 38 25
iPKP 04 42 25.3
micr sec

Mx	E	0.8	18
Mx	N	0.5	17
Mx	Z	1.2	19

Um iP 04 42 30.0
De iP 04 42 44.2

New Britain (h = N).

" 10 Um iP 10 40 01.3
Ionian Sea.

" 10 Up micr sec

Mx	E	1.3	17
Mx	N	1.4	19
Mx	Z	2.9	18

Ki ePKP 14 56 26
micr sec

Mx	E	1.6	16
Mx	N	1.1	16
Mx	Z	2.2	18

Um iP 14 56 30.8
De iP 14 56 43.5

New Ireland (h = 40 km).
M = 5.8 (Up, Ki).

" 10 Ki eP 15 10 30
Ud iP 15 10 49.5

Baja California (h = N).

" 10 De iP 19 27 43.3

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

1971				1971			
Aug. 11	De	iPKP Fiji Islands	00 19 43.7 (h = N).	Aug. 11	(cont.)		
"	11	Up	iP 05 06 55.1		Up		micr sec
		Ki	iP 05 06 35.2 C		PKP2	Z'	0.2 1.7
			ipP 05 06 48.6		Mx	E	2.8 21
					Mx	N	2.1 17
			micr sec		Mx	Z	5.7 21
			P Z' 0.1 1.0	Ki	iPKP2		14 44 12.1
		Um	iP 05 06 40.8				micr sec
		Ud	iP 05 06 59.0		PKP2	Z'	0.1 1.2
		De	e(P) 05 07 14		Mx	E	3.3 18
			Molucca Passage.		Mx	N	2.3 18
			h = 50 km (Ki).		Mx	Z	3.9 19
"	11	Up	iP 05 42 26.0	Sk	iPKP2		14 44 25.3
			ipP 05 42 49.6	Um	iPKP2		14 44 09.4
			micr sec	Ud	iPKP2		14 44 16.7
			pP Z' 0.1 0.7	De	iPKP2		14 44 12.5
		Ki	iP 05 43 35.3				Balleny Islands (h = N).
			ipP 05 44 00.2				M = 6.3 (Up, Ki).
		Sk	iP 05 43 05.2	"	11	Up	iP 16 43 15.1
			ipP 05 43 27.9				i 16 43 23.1
		Um	i 05 43 14.7	Ki	iP		16 42 57.6
			ipP 05 43 25.4	Sk	iP		16 43 20.3
		Ud	iP 05 42 32.9	Um	i(P)		16 43 15.6
			ipP 05 42 56.0	Ud	iP		16 43 24.4
			iS 05 46 46.3				Luzon.
		De	iP 05 41 59.0	"	11	Up	iPKP2 17 57 54.4
			i 05 42 02.8				micr sec
			ipP 05 42 20.0		Mx	E	0.8 20
			iS 05 45 27.2		Mx	N	0.7 20
			Greece.		Mx	Z	1.9 20
			h = 120 km (Up, Ki, Sk, Ud, De).	Ki	e(PKP2)		17 57 47
"	11	Ud	i(P) 10 53 37.2				micr sec
		De	i(P) 10 53 56.9		Mx	E	0.8 18
"	11	De	e(Sg1) 11 23 17		Mx	N	0.7 18
			i(Rg) 11 23 20.2		Mx	Z	1.3 18
"	11	Up	iP 13 25 21.9	Ud	e(PKP2)		17 57 57
			micr sec	De	iPKP2		17 58 05.5
			P Z' 0.1 0.8				Balleny Islands (h = N).
		Ki	iP 13 24 47.7				M = 5.8 (Up, Ki).
			micr sec	"	11	Up	iP 19 13 34.3
			P Z' 0.1 0.9				Ki iP 19 12 56.4
		Sk	iP 13 25 19.1				Sk iP 19 13 29.0
		Um	iP 13 25 02.5				Um iP 19 13 12.9
		Ud	iP 13 25 29.9				ipP 19 13 29.3
		De	iP 13 25 42.6				Ud iP 19 13 42.2
			South of Japan				Japan.
			(h = 390 km).				h = 60 km (Um).
			m = 5.5 (Up, Ki).	"	11	Sk	eP 21 10 16
"	11	Up	iPKP2 14 44 07.6			Ud	eP 21 10 16
			(cont.)				Tibet.
"	12	Ud	iP 00 42 10.9				

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

1971				1971			
Aug. 12	Ud	eP	01 35 23	Aug. 12	(cont.)		
			North Atlantic Ocean		Ud	iP	14 33 26.4
			(h = N).		De	iP	14 33 35.7
" 12	Up	iP1	04 28 31.1				Mexico.
		iP2	04 28 38.3				h = 35 km (Ki, Sk, Um).
			micr sec				m = 6.1, M = 5.8 (Up, Ki).
		P1	Z' 0.1 1.0	" 12	Ud	iP	15 12 24.5
		P2	Z' 0.3 1.3				Kurile Islands.
		Mx	E 0.6 15	" 12	Ki	eSn	16 34 44
		Mx	N 0.6 17			iSg1	16 34 57.3
		Mx	Z 1.1 16		Sk	iSg1	16 35 00.4
	Ki	iP1	04 28 29.9		Um	iSg1	16 35 23.6
		iP2	04 28 36.6				Nordland, Norway,
			micr sec				66.5°N, 14.0°E.
		P2	Z' 0.1 1.5				Origin time = 16 33 28.
		Mx	E 1.7 21				Explosion.
		Mx	N 1.6 21	" 12	Ki	iP	16 46 57.4
		Mx	Z 2.0 19		Um	iP	16 47 16.2
	Sk	eP1	04 28 47		Ud	iP	16 47 47.9
		iP2	04 28 54.4				Japan.
	Um	iP1	04 28 26.9	" 12	Sk	iP	22 35 48.0
		iP2	04 28 33.5				Japan.
	Ud	iP1	04 28 43.5	" 12	Ki	iP	23 17 42.4
		iP2	04 28 50.3				micr sec
	De	iP1	04 28 43.1			P	Z' 0.1 1.4
		iP2	04 28 49.3		Sk	eP	23 18 30
			Andaman Islands		Um	iP	23 18 29.7
			(h = 40 km).		Ud	iP	23 19 09.5
			m = 6.0, M = 5.3 (Up, Ki).				Arctic Ocean (h = N).
			Double P, in average	" 12	Up	i(P)	11 41 40.4
			6.7 sec apart.	" 12	Um	iSg1	14 17 02.0
" 12	Up	i(P)	11 41 40.4	" 12	Up	eP	14 33 39
" 12	Um	iSg1	14 17 02.0			iPP	14 36 59.7
" 12	Up	eP	14 33 39				micr sec
		iPP	14 36 59.7			P	Z' 0.1 1.2
			micr sec			Mx	E 1.4 15
		P	Z' 0.1 1.2			Mx	N 1.4 16
		Mx	E 1.4 15			Mx	Z 4.5 22
		Mx	N 1.4 16		Ki	iP	14 33 13.7
		Mx	Z 4.5 22			ipP	14 33 22.9
	Ki	iP	14 33 13.7			iPP	14 36 26.9
		ipP	14 33 22.9				micr sec
		iPP	14 36 26.9			pP	Z' 0.2 1.5
			micr sec			Mx	E 3.9 21
		pP	Z' 0.2 1.5			Mx	N 2.9 20
		Mx	E 3.9 21			Mx	Z 4.4 20
		Mx	N 2.9 20	" 13	Up	eSg1	11 07 36
		Mx	Z 4.4 20		Ki	e(Sg1)	11 10 06
	Sk	iP	14 33 13.5		Sk	iSg1	11 09 21.9
		ipP	14 33 23.5		Um	iSg1	11 08 04.3
	Um	iP	14 33 27.1		De	eSg1	11 09 01
		ipP	14 33 35.2				Esthonia, 59.6°N, 25.1°E.
		iPP	14 36 49.9				Origin time = 11 05 32.
			(cont.)				Explosion.

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

1971				1971			
Aug. 13	Up	i(Rg)	12 23 44.6	Aug. 13	Ud	iP	21 30 39.4
	Sk	eSg1	12 25 32				
	Um	eSg1	12 25 32	" 14	Up	iPKP	00 34 14.2
	Ud	iSg1	12 23 56.7			iSKP	00 37 26.0
	Södermanland, Sweden.					ipSKP	00 38 18.9
	Explosion.					i	00 46 38.3
" 13	Up	iSg1	13 52 03.8				micr sec
	Sk	iPg1	13 51 23.6			PKP	Z' 0.3 1.1
		iSg1	13 52 16.4			Mx	E 0.9 19
	Um	iPg1	13 50 32.4			Mx	N 1.1 20
		iSg1	13 50 43.9			Mx	Z 2.4 22
		iRg	13 50 49.9		Ki	iPKP	00 33 59.5
	Ud	iPg1	13 51 34.6				micr sec
		iSg1	13 52 33.3			PKP	Z' 0.2 0.6
	Gulf of Bothnia,					Mx	E 0.8 18
	63.0°N, 20.2°E.					Mx	N 1.0 19
	Origin time = 13 50 18.					Mx	Z 1.2 17
" 13	Up	iPKP2	15 03 01.9		Sk	iPKP	00 34 11.2
		i	15 03 05.1			ipPKP	00 34 41.8
			micr sec			iSKP	00 37 21.1
		PKP2	Z' 0.1 1.0		Um	iPKP	00 34 05.8
		Mx	N 0.7 20			ipPKP	00 34 37.2
		Mx	Z 0.8 20			iSKP	00 37 14.3
	Ki	ePKP	15 02 25			i	00 46 33.2
		i	15 02 29.6		Ud	i(PKP)	00 34 06.5
			micr sec			iPKP	00 34 15.7
		PKP	Z' 0.1 1.1			ipPKP	00 34 47.6
		Mx	E 0.7 18			iSKP	00 37 30.1
		Mx	N 0.6 19			ipSKP	00 38 25.0
		Mx	Z 1.2 19			i	00 46 27.6
	Sk	e(PKP)	15 02 44		De	i(PKP)	00 34 08.0
		iPKP2	15 03 00.8			iPKP	00 34 20.4
	Um	iPKP	15 02 34.3			ipPKP	00 34 53.3
		i	15 02 38.9			iSKP	00 37 40.5
	Ud	iPKP2	15 03 08.0			New Hebrides Islands.	
		i	15 03 11.1			h = 120 km (Sk,Um,Ud,De).	
	De	iPKP2	15 03 21.2			M = 5.7 (Up,Ki).	
	New Zealand (h = 20 km).					M not corrected for focal depth.	
	M = 5.6 (Up,Ki).			" 14	Um	i(Sg1)	02 27 36.3
" 13	Up	ePP	17 08 39	" 14	Ki	ePKP	09 20 31
			micr sec		Um	iPKP	09 20 40.1
		Mx	E 1.8 19		Fiji Islands (h = N).		
		Mx	N 1.8 20	" 14	Up	iPKP	09 22 04.5
		Mx	Z 3.6 18				micr sec
	Ki	ePP	17 08 00			Mx	E 4.3 22
			micr sec			Mx	N 9.9 22
		Mx	E 3.2 20			Mx	Z 11 23
		Mx	N 2.8 22		Ki	ePKP	09 21 49
		Mx	Z 4.9 21				micr sec
	Sk	ePP	17 08 42			Mx	E 12 21
	Um	iPP	17 08 13.0			Mx	N 10 20
	Ud	ePP	17 08 52			Mx	Z 15 21
	De	ePKP	17 07 45		Um	iPKP	09 21 58.5
	Solomon Islands				Ud	ePKP	09 22 06
	(h = 20 km).				(cont.)		
	M = 5.9 (Up,Ki).						

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

1971				1971					
Aug. 14	(cont.)			Aug. 15	Ki	iP		06 59 01.3	
	De	ePKP	09 22 16			Japan.			
			Fiji Islands (h = N).						
			M = 6.6 (Up, Ki).	" 15	Up	iP1		12 26 26.1	
" 14	Ki	iPn	10 34 29.7			iP2		12 26 29.2	
		iSn	10 35 18.3						
		iSg1	10 35 36.0			P2	Z'	0.1 0.9	
	Um	iSg1	10 37 04.1			Mx	E	0.6 17	
			Northwest Russia-Norway			Mx	N	1.4 16	
			border region,			Mx	Z	0.9 12	
			69.5°N, 31.0°E.		Ki	iP1		12 26 02.6	
			Origin time = 10 33 26.			iP2		12 26 06.5	
			Explosion.						
" 14	Ki	i(Sn)	11 23 40.5			P2	Z'	0.1 0.8	
		i(Sg1)	11 23 53.8			Mx	E	0.6 13	
	Um	i(Sg1)	11 24 52.5			Mx	N	0.7 15	
" 14	Up		micr sec			Mx	Z	0.6 13	
		Mx	E 0.8 21		Sk	iP2		12 26 33.3	
		Mx	N 1.0 19		Um	iP1		12 26 11.1	
		Mx	Z 2.0 21			iP2		12 26 14.3	
	Ki	ePKP	11 42 26		Ud	iP1		12 26 36.1 C	
			micr sec			iP2		12 26 38.8	
		Mx	E 1.3 21		De	eP1		12 26 45	
		Mx	N 0.9 20					Formosa (h = 30 km).	
		Mx	Z 1.8 21	" 15	Ki	iPKP		15 12 09.0	
	Um	iPKP	11 42 36.3					Fiji Islands (h = N).	
			Fiji Islands (h = N).	" 15	Ki	ePn		15 48 41	
			M = 5.6 (Up, Ki).			iSn		15 49 26.9	
" 14	Ki	iPP	15 19 20.8			iSg1		15 49 42.9	
			Chile-Bolivia					15 51 13.3	
			(h = 190 km).		Um	iSg1			
" 14	Ud	iP	19 24 22.2					Northwest Russia-Norway	
	De	iP	19 24 33.4					border region,	
								69.6°N, 30.2°E.	
" 14	Up	Mx	20 12	" 15	Sk	iP		17 46 31.7	
			Weak surface waves	" 15	Ki	iP		21 13 54.3	
			recorded on Up Press-Ewing			i		21 14 00.0	
			LP seismographs from the		Um	iP		21 14 47.1	
			French atmospheric nuclear			i		21 14 51.4	
			explosion at Tuamotu.		Ud	iP		21 15 32.3	
" 14	Ki	eP	22 24 46			i		21 15 36.9	
	Sk	eP	22 24 54					Svalbard.	
	Um	iP	22 24 29.5					Approximate origin time =	
	Ud	iP	22 24 39.9					21 11 36.	
	De	iP	22 24 30.2	" 16	Ud	iP		01 17 26.3	
			Pakistan.	" 16	Up	iP		05 08 28.9 C	
" 15	Ki	eP	06 24 45					micr sec	
	Sk	eP	06 24 22			P	Z'	0.4 1.0	
	Um	iP	06 24 50.0			Mx	E	1.2 16	
	Ud	eP	06 24 29			Mx	N	2.5 20	
			North Atlantic Ocean					(cont.)	
			(h = N).						

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

1971

Aug. 16 (cont.)
 Up micr sec
 Mx Z 2.4 18
 Ki iP 05 08 12.0 C
 micr sec
 P Z' 0.2 1.0
 Mx E 2.4 11
 Mx N 4.6 18
 Mx Z 3.1 11
 Sk iP 05 08 39.3
 Um iP 05 08 15.9 C
 Ud iP 05 08 41.4 C
 De iP 05 08 46.8
 China (h = N).
 m = 6.5, M = 5.6 (Up, Ki).

" 16 Up iP 05 38 38.2
 micr sec
 P Z' 0.1 1.0
 Mx E 0.6 13
 Mx N 1.0 14
 Mx Z 2.3 17
 Ki eP 05 38 15
 iP 05 38 25.4
 micr sec
 Mx E 1.0 13
 Mx N 0.6 17
 Mx Z 1.1 14
 Sk eP 05 38 46
 Um iP 05 38 25.5
 iP 05 38 36.6
 Ud iP 05 38 48.8
 Formosa.
 h = 40 km (Ki, Um).
 M = 5.4 (Up, Ki).

" 16 Up iP 09 24 39.9
 Um iP 09 24 22.7
 Ud iP 09 24 48.6
 Bonin Islands (h = 90 km).

" 16 Up iP 13 39 53.8
 Ki eP 13 39 36
 Sk iP 13 40 03.0
 Um iP 13 39 40.8
 Ud iP 13 40 05.1
 China (h = N).

" 16 Up iP 15 50 40.4
 Ki iP 15 49 57.8
 Um iP 15 50 16.7
 Ud iP 15 50 46.4
 Japan (h = 30 km).

" 16 Up iP 15 52 30.5
 micr sec
 P Z' 0.1 1.0
 (cont.)

1971

Aug. 16 (cont.)
 Up micr sec
 Mx E 1.8 19
 Mx N 1.6 18
 Mx Z 1.1 16
 Ki eP 15 51 47
 micr sec
 P Z' 0.1 1.2
 Mx E 3.2 20
 Mx N 2.0 20
 Mx Z 2.2 15
 Sk eP 15 52 21
 Um iP 15 52 05.8
 Ud iP 15 52 36.5
 De eP 15 52 55
 Japan (h = N).
 m = 5.9, M = 5.6 (Up, Ki).

" 16 Up iP 17 34 48.8
 Um iP 17 34 23.2
 Ud iP 17 34 55.0
 Kurile Islands.

" 16 Up iP 19 04 23.2
 micr sec
 P Z' 0.2 0.7
 Mx E 1.4 15
 Mx N 2.3 16
 Mx Z 2.1 16
 Ki iP 19 04 06.4
 micr sec
 P Z' 0.1 1.0
 Mx E 3.4 11
 Mx N 8.3 20
 Mx Z 5.7 12
 Sk iP 19 04 33.5
 Um iP 19 04 10.0
 iS 19 12 32
 Ud iP 19 04 35.5
 De eP 19 04 42
 China (h = N).

m = 6.3, M = 5.7 (Up, Ki).

" 16 Up iP 19 06 31.8
 micr sec
 P Z' 0.1 1.0
 Ki iP 19 06 16.8
 Sk eP 19 06 41
 Um iP 19 06 19.1
 Ud iP 19 06 43.8
 De eP 19 06 47
 China.
 Origin time = 18 56 03.

" 16 Up iP 19 08 30.1
 Ki iP 19 08 13.0
 Sk iP 19 08 40.3
 (cont.)

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

1971				1971			
Aug. 16	(cont.)	Um iP	19 08 17.4	Aug. 16	(cont.)	De iP	22 48 19.7
		Ud iP	19 08 42.6			China.	
		China.				h = 25 km (Up, Ki, Sk, Um, Ud).	
		Origin time = 18 58 02.				m = 6.0 (Up, Ki).	
" 16		Up iP	19 11 10.3	" 16		Up iP	22 50 56.2
		Ki iP	19 10 57.7				micr sec
		Sk iP	19 11 22.7			P Z'	0.1 1.1
		Um iP	19 10 57.5			Ki iP	22 50 40.0
		Ud iP	19 11 22.8				micr sec
		China.				P Z'	0.1 1.2
		Origin time = 19 00 44.				Sk iP	22 51 07.4
" 16		Up iP	19 43 14.3			Um iP	22 50 43.8
		Ki eP	19 42 57			Ud iP	22 51 08.8
		Sk iP	19 43 25.3			China.	
		Um iP	19 43 00.7			Origin time = 22 40 28.	
		Ud eP	19 43 28			m = 6.0 (Up, Ki).	
		China.		" 16		Ud iP	23 58 08.7
		Origin time = 19 32 46.				De iP	23 58 19.6
" 16		Um i(P)	19 46 45.7	" 17		Um iP	00 05 53.6
" 16		Um e(P)	19 49 12	" 17		Up iP	00 59 49.2
" 16		Up eP	20 01 20			Ki iP	00 59 32.4
		Ud iP	20 01 21.6			Sk eP	01 00 03
" 16		Up iP	20 03 27.1			Um iP	00 59 36.4 C
		Ki iP	20 03 09.7			Ud iP	01 00 01.6
		Sk iP	20 03 37.0			China.	
		Um iP	20 03 13.6			Origin time = 00 49 21.	
		Ud iP	20 03 39.0 C	" 17		Um iP	02 16 45.0
		China.				Ud iP	02 17 09.8
		Origin time = 19 52 59.				Probably China.	
" 16		Um iP	20 03 51.7			Origin time = 02 06 30.	
" 16		Up iP	22 48 01.8	" 17		Up iP1	04 35 02.5
		ipP	22 48 08.6			iP2	04 35 04.6
			micr sec				micr sec
		P Z'	0.1 1.0			P2 Z'	0.1 1.0
		Ki iP	22 47 45.1 C			Mx E	0.7 14
		ipP	22 47 52.4			Mx N	1.1 13
			micr sec			Mx Z	1.0 15
		P Z'	0.1 1.0			Ki iP1	04 35 58.6
		Mx E	0.9 12			iP2	04 36 00.4
		Mx N	1.0 19				micr sec
		Mx Z	1.1 14			P2 Z'	0.1 0.9
		Sk iP	22 48 12.1 C			Mx E	0.7 12
		ipP	22 48 19.8			Mx N	0.7 12
		Um iP	22 47 48.9			Mx Z	0.9 12
		ipP	22 47 55.8			Sk iP2	04 35 44.7
		Ud iP	22 48 14.7			Um iP1	04 35 26.7
		ipP	22 48 21.1			iP2	04 35 28.6
		(cont.)				Ud iP1	04 35 15.6
						iP2	04 35 18.3
						(cont.)	

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

1971				1971			
Aug. 17	(cont.)			Aug. 18	Ki	iPKP	00 05 37.6
	De	iP1	04 34 50.4		Um	iPKP	00 05 44.4
		iP2	04 34 52.9		Ud	iPKP	00 05 53.7
	Turkey (h = N).				De	iPKP	00 05 57.6
	m = 5.6, M = 4.7 (Up, Ki).				Tonga Islands (h = 70 km).		
	The amplitudes of the			"	18	Ud	iP 04 31 44.9
	second phase P2 are				Tadzhik-Sinkiang.		
	considerably larger than			"	18	Ud	iP 08 06 17.0
	those of the first onset.				De	iP	08 06 40.3
	P2-P1 = 2.2 sec.			"	18	Ud	iP 09 55 10.4
"	17	Up	iP 09 46 43.9 C	"	18	Ud	iP 09 58 02.2
			micr sec	"	18	Um	iPKP 10 31 42.5
		P	Z' 0.1 1.0		Ud	iPKP	10 31 55.8
	Ki	iP	09 46 27.5	"	Kermadec Islands.		
	Sk	iP	09 46 54.4	"	18	Ud	i(P) 13 59 33.5
	Um	iP	09 46 31.3 C		De	i(P)	13 59 21.5
	Ud	iP	09 46 56.7	"	18	Up	iP 14 11 48.9 C
	De	eP	09 47 05			P	Z' 0.1 1.0
	China (h = N).				Ki	iP	14 11 14.9 C
"	17	Ud	i(P) 10 33 47.9			P	Z' 0.1 1.0
"	17	Ki	iPg1 11 29 59.1 C	"	18	Sk	iP 14 11 20.1 C
			iSg1 11 30 05.7		Um	iP	14 11 34.4 C
	Sk	eSn	11 32 10		Ud	iP	14 11 41.4 C
		iSg1	11 32 36.1		De	iP	14 11 57.5
	Um	iPg1	11 30 54.6 C		Nevada.		
		iS*	11 31 38.2		m = 5.9 (Up, Ki).		
		iSg1	11 31 43.2		Underground explosion.		
	Ud	iSg1	11 34 00.1	"	18	Um	iP 14 51 51.1
	Lapland, Sweden,			"	18	Ki	iSg1 18 27 02.2
	67.4°N, 20.6°E.					Sk	eSg1 18 27 06
	Origin time = 11 29 52.					Um	iSn 18 27 15.5
	Explosion, probably in the						iSg1 18 27 30.8
	ore-mines of Malmberget.				Nordland, Norway,		
"	17	Ud	iP 14 34 54.2		66.5°N, 13.8°E.		
"	17	De	iP 15 33 26.0		Origin time = 18 25 31.		
"	17	Up	iP 17 18 09.2 C		Explosion.		
			micr sec	"	18	Up	iP 20 09 20.3
		P	Z' 0.1 1.0		Ki	eP	20 08 30
	Ki	iP	17 17 52.2			ipP	20 08 46.8
	Sk	iP	17 18 21.4 C		Ud	iP	20 09 26.6
	Um	iP	17 17 56.3 C		De	iP	20 09 44.2
	Ud	iP	17 18 21.5		Kurile Islands		
	China (h = N).				(h = 60 km).		
"	17	Up	iP 18 58 54.6				
	Ud	iP	18 59 08.2				
"	17	Up	i(P) 21 51 57.3				
	Ud	i(P)	21 51 45.2				

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

1971				1971			
Aug. 18	Ud	iP	23 38 26.6	Aug. 19	Um	iPKP	12 05 43.7
					Ud	iPKP	12 05 53.6
					De	iPKP	12 05 59.1
"	19	Up	iP1 08 40 41.5 C				
			iP2 08 40 56.2				
			micr sec				
		P1	Z' 0.1 1.4	"	19	Um	iPg1 13 09 07.4
		P2	Z' 0.2 1.0				iSg1 13 09 38.2
		Mx	E 6.1 18	"	19	Up	iP 13 24 10.0
		Mx	N 15 22			Ud	iP 13 24 23.9
		Mx	Z 11 18			De	iP 13 24 26.8
	Ki	iP1	08 40 17.2				
		iP2	08 40 33.1				
			micr sec	"	19	Up	iP 13 45 50.3
		P1	Z' 0.1 1.5				micr sec
		P2	Z' 0.1 1.2				P Z' 0.1 0.8
		Mx	E 6.1 19		Ki	iP	13 45 15.1
		Mx	N 5.7 20		Sk	iP	13 45 48.6
		Mx	Z 7.0 17		Um	iP	13 45 30.6
	Sk	iP1	08 40 45.1 C		Ud	iP	13 45 58.1
		iP2	08 41 01.5		De	iP	13 46 10.3
	Um	iP1	08 40 26.0 C				South of Japan
		iP2	08 40 42.1				(h = 390 km).
	Ud	iP1	08 40 51.3 C	"	19	Ud	iP 17 37 04.4
		iP2	08 41 07.0				Okhotsk Sea.
	De	iP1	08 41 00.8				Deep.
		iP2	08 41 16.4	"	19	Ki	i(Sg1) 17 41 24.8
			Formosa (h = 25 km).			Sk	e(Sg1) 17 41 21
			m = 5.7 (P1), 6.0 (P2),	"	19	Up	iP 22 26 20.5 C
			M = 6.0 (Up, Ki).				micr sec
			The second phase is larger				P Z' 0.4 1.2
			than P1 and arrives 16 sec				Mx E 12 22
			later. Either it is pP,				Mx N 24 22
			suggesting a focal depth				Mx Z 40 23
			of 60 km, or it is P of		Ki	iP	22 25 30.4 C
			another shock in the same				micr sec
			place.				P Z' 0.3 1.1
"	19	Ki	iPn 11 16 41.6				Mx E 18 19
			iSn 11 17 30.3				Mx N 12 18
			iS* 11 17 45.7				Mx Z 18 17
	Um	iSg1	11 19 14.8		Sk	iP	22 26 08.0
			Northwest Russia-Norway			iPcP	22 26 44.5
			border region,		Um	iP	22 25 54.0
			69.5°N, 31.1°E.		Ud	iP	22 26 25.9 C
			Origin time = 11 15 37.		De	iP	22 26 46.4
			Explosion.				Kurile Islands (h = N).
"	19	Up	iP 11 24 40.9				m = 6.4, M = 6.3 (Up, Ki).
		Ki	iP 11 24 18.3	"	20	Ud	ePKP 02 15 52
			micr sec			De	iPKP 02 16 01.9
		P	Z' 0.1 1.0				Tonga Islands (h = 50 km).
	Sk	iP	11 24 45.3	"	20	Ud	iP 07 27 05.7
	Um	iP	11 24 26.7				
	Ud	iP	11 24 51.1				
	De	iP	11 24 58.7				
			Formosa (h = 15 km).				

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

1971

Aug. 20	Up	iP	10 46 41.8
	Um	iP	10 46 27.6
	Ud	iP	10 46 51.2
	Formosa (h = N).		
" 20	Up	iSg1	10 53 00.9
	Um	iSg1	10 53 29.0
	Ud	iSg1	10 54 04.1
	De	eSg1	10 54 30
	Esthonia, 59.6°N, 25.5°E. Origin time = 10 50 56. Explosion.		
" 20	Up	iP	11 32 09.3 C
	Sk	iP	11 32 15.0
	Um	iP	11 31 57.4 C
	Ud	iP	11 32 18.1 C
	De	eP	11 32 24
	Mindoro (h = 140 km).		
" 20	Sk	i(Sg1)	11 39 11.5
" 20	Um	iSg1	12 09 15.3
	Northwest Russia. Explosion.		
" 20	Sk	eP	13 29 42
	Japan.		
" 20	Up	iPn	19 08 04.6
		iSn	19 09 16.3
		iSg1	19 09 50.6
			micr sec
	Sk	Sg1	Z' 0.4 0.6
		iPn	19 07 30.3
		iPg1	19 07 40.3
		iSg1	19 08 27.5
	Um	iPn	19 08 15.5
		iSn	19 09 36.1
		iSg1	19 10 17.9
	Ud	iPn	19 07 37.7
		iPg1	19 07 48.4
		iSn	19 08 29.6
		iSg1	19 08 51.3
	De	iPn	19 08 10.5
		iSn	19 09 26.7
		iSg1	19 10 03.8
	Near west coast of Norway, 61.8°N, 5.0°E. Origin time = 19 06 28.		
" 20	Ud	iP	21 15 31.5
" 20	Up	iP	21 48 58.5
		iSKS	21 59 24
	(cont.)		

1971

Aug. 20	(cont.)			
	Up		micr	sec
		P	Z'	0.1 1.2
		Mx	E	4.1 21
		Mx	N	3.1 24
		Mx	Z	8.7 22
	Ki	iSKS		21 59 13
			micr	sec
		Mx	E	6.1 21
		Mx	N	4.9 22
		Mx	Z	11 23
	Sk	iP		21 48 41.8
	Um	iP		21 48 56.2
		iSKS		21 59 25
	Ud	iP		21 48 49.9
		ipP		21 48 58.0
	De	iP		21 48 55.8
		ipP		21 49 05.2
		iPP		21 52 19.0
	Mexico. h = 30 km (Ud, De). M = 6.0 (Up, Ki).			
" 21	Up	iP		04 03 07.3
	Sk	eP		04 03 41
	Um	iP		04 03 45.1 C
	Ud	iP		04 03 07.3 C
	De	iP		04 02 33.0 C
	Tyrrhenian Sea (h = 480 km).			
" 21	Up	iP		10 38 31.2
	Ud	iP		10 38 25.6
" 21	Ud	iP		10 46 33.3
" 21	Ki	iPn		10 50 38.9
		iSn		10 51 27.0
		iS*		10 51 40.9
	Um	iSg1		10 53 12.8
	Northwest Russia-Norway border region, 69.5°N, 30.9°E. Origin time = 10 49 35. Explosion.			
" 21	Ud	iP		14 14 54.1
	Kurile Islands.			
" 21	Up	iP		17 14 59.1
			micr	sec
		P	Z'	0.1 1.3
		Mx	N	0.6 16
		Mx	Z	1.1 20
	Ki	eP		17 15 30
	(cont.)			

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

1971				1971			
Aug. 21	(cont.)			Aug. 22	Sk	iP	11 14 19.9
	Sk	eP	17 14 47		Guatemala (h = 70 km).		
	Um	iP	17 15 17.6				
	Ud	iP	17 14 42.8	" 22	Up	iP	18 01 24.0
	Azores Islands (h = N).						micr sec
" 21	Ud	iP	17 54 39.2		P	Z'	0.1 0.9
" 21	Up	iP	19 40 52.3		Ki	iP	18 02 04.0
	Ki	e(P)	19 39 32			iPP	18 03 47.4
		iPn	19 39 57.6				micr sec
		iSn	19 44 21.3		Mx	E	1.1 21
	Sk	iP	19 40 27.9		Mx	N	0.8 21
	Um	iPn	19 40 45.7		Sk	iP	18 01 59.6
	Ud	iP	19 40 55.6		Um	iP	18 01 39.4
	De	iP	19 41 25.7		Ud	iP	18 01 37.5
	Arctic Ocean (h = N).					iPP	18 03 09.7
	Pn at Ki, Um and Sn at Ki correspond to the relatively homogeneous structure of the shelf zone north of Eurasia - apparently the first observations at our stations of Pn, Sn from this region.			" 23	Up		micr sec
" 21	Um	iPKP	20 56 14.3		Mx	E	12 23
	Ud	iPKP	20 56 23.1		Mx	N	14 22
	De	iPKP	20 56 28.6		Mx	Z	21 19
	New Ireland (h = 80 km).				Ki	eP	04 22 29
" 21	Um	iP	22 37 29.8			iPP	04 26 51.6
" 21	Up	iP	22 54 22.5				micr sec
		P	Z' 0.1 1.0	" 23	Ki	e(P)	05 25 23
	Ki	iP	22 53 29.5	" 23	Up	iP	05 46 40.1
		P	Z' 0.1 1.0				micr sec
	Sk	eP	22 53 59		P	Z'	0.1 1.0
	Um	iP	22 53 57.0 C		Mx	E	1.7 18
	Ud	iP	22 54 21.9 C		Mx	N	1.9 18
	De	iP	22 54 45.2		Mx	Z	2.6 19
	Alaska (h = N).				Ki	iP	05 46 23.0
	m = 5.9 (Up, Ki).						micr sec
" 22	Ki	iP	11 11 08.3 D		Mx	E	2.3 18
		P	Z' 0.4 1.4		Mx	N	1.2 18
	Sk	iP	11 11 53.0		Mx	Z	2.2 18
		ipP	11 12 02.8		Sk	iP	05 46 52.6
	Um	iP	11 11 53.6		Um	iP	05 46 26.4
		ipP	11 12 02.0		Ud	iP	05 46 52.3
	Ud	iP	11 12 23.5		De	iP	05 46 58.9
		i	11 12 36.5		China (h = N).		
	Arctic Ocean.				M = 5.5 (Up, Ki).		
	h = 40 km (Sk, Um).			" 23	Up	iP	05 48 04.5
					Ki	iP	05 47 47.7
					Sk	iP	05 48 16.1
					Um	iP	05 47 52.1
					(cont.)		

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

1971					1971						
Aug.	Date	Station	Type	Time (HH MM SS)	Aug.	Date	Station	Type	Time (HH MM SS)		
	23	(cont.)				23	(cont.)				
		Ud	iP	05 48 16.7			De	iP	22 06 38.8		
		China.					Kurile Islands.				
		Origin time = 05 37 37.					h = 40 km (Up,Ki,Um,Ud). m = 6.1, M = 6.0 (Up,Ki).				
"	23	Up	iP	05 56 53.7	"	24	Ud	ePKP	01 45 46		
				micr sec			De	iPKP	01 46 00.2		
			P	Z' 0.2 1.7			Tonga-Kermadec Islands (h = 350 km).				
		Ki	eP	05 56 37			"	24	Ud	iP	03 47 20.5 C
		Sk	iP	05 57 03.7 C			"	24	Up	Mx	04 41
		Um	iP	05 56 41.1 C						micr sec	
			i(pP)	05 56 48.0					Mx	Z	0.7 20
		Ud	iP	05 57 06.2					Indian Ocean (h = N).		
		China (h = N).					"	24	Um	iP	08 22 31.2
"	23	Ki	eP	10 09 28	"	24	Up	iP	10 03 51.7		
		Sk	eP	10 09 56			Ki	iP	10 03 04.9		
		Um	iP	10 09 32.3			Um	iP	10 03 26.0		
		Ud	iP	10 09 56.8			Ud	iP	10 03 57.2		
		China.					Kurile Islands (h = N).				
		Origin time = 09 59 17.			"	24	De	iPKP	13 48 01.3		
"	23	Ud	iPKP	10 32 02.3			New Britain (h = 35 km).				
		De	iPKP	10 32 13.2	"	24	Ud	iPKP	15 56 26.0		
							De	iPKP	15 56 37.3		
"	23	Ki	eP	11 45 24			Tonga-Kermadec Islands (h = 180 km).				
		Sk	eP	11 45 18	"	24	Up	iP1	16 40 53.9		
		Um	iP	11 45 03.3				iP2	16 40 58.7		
"	23	Um	iSKP	16 01 32.8					micr sec		
		Ud	iPKP	15 58 57.4				P2	Z' 0.2 1.0		
			iSKP	16 01 46.2				Mx	E 3.3 11		
		De	iPKP	15 59 09.1				Mx	N 2.3 11		
		Fiji Islands (h = 620 km).						Mx	Z 6.1 11		
"	23	Up	iP	22 06 14.6	"	24	Ki	iP1	16 40 23.4		
			ipP	22 06 26.2				iP2	16 40 27.8		
			iPcP	22 06 41.3					micr sec		
				micr sec				P2	Z' 0.1 1.0		
			P	Z' 0.1 0.6				Mx	E 4.1 13		
			Mx	E 4.1 18				Mx	N 4.2 17		
			Mx	N 7.5 21				Mx	Z 4.7 14		
			Mx	Z 11 20			Sk	iP1	16 41 01.4		
		Ki	iP	22 05 27.9			Um	iP1	16 40 33.5		
			ipP	22 05 39.8				iP2	16 40 38.2		
				micr sec			Ud	iP1	16 41 08.1		
			P	Z' 0.1 0.8				iP2	16 41 12.9		
			Mx	E 4.3 20			De	iP1	16 41 20.1		
			Mx	N 7.6 18				iP2	16 41 24.7		
			Mx	Z 14 19			(cont.)				
		Sk	iP	22 06 03.1							
			iPcP	22 06 31.6							
		Um	iP	22 05 49.5							
			ipP	22 06 00.6							
		Ud	iP	22 06 20.1							
			ipP	22 06 31.6							
		(cont.)									

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

1971

Aug. 24 (cont.)
Siberia-Mongolia (h = N).
m = 5.6, M = 5.6 (Up, Ki).
Double P-phases at Up, Ki,
Um, Ud, and De, about 4.7
sec apart. If the second
phase is interpreted as
pP, the focal depth would
be 15 km.

" 24 Up iP 16 45 51.8 C
Ki iP 16 45 21.1 C
Sk eP 16 46 00
Um iP 16 45 31.0 C
Ud iP 16 46 06.2
De iP 16 46 18.0
Siberia-Mongolia.
Origin time = 16 38 21.

" 24 Ud iP 17 25 04.0
De iP 17 25 19.2

" 24 Up iP 17 30 54.2 C
Um iP 17 30 34.4 C
Ud iP 17 31 01.9
De eP 17 31 15
Japan (h = 420 km).

" 24 Ki iPKP 22 32 55.5
New Hebrides Islands
(h = N).

" 24 Um iP 23 12 46.1
Ud iP 23 13 13.2
South of Japan
(h = 160 km).

" 25 Up iP 00 38 11.4
Ki iP 00 38 48.1
Um iP 00 38 25.5
Ud iP 00 38 26.8
De eP 00 38 10
Iran (h = N).

" 25 De iP 09 12 02.5
Turkey.

" 25 Ki i(pP) 10 52 15.7
Ud iP 10 52 46.9
Japan (h = 70 km).

" 25 Up iSg1 13 10 11.2
Um iSg1 13 10 30.5
Ud iSg1 13 11 12.8
De eSg1 13 11 37
(cont.)

1971

Aug. 25 (cont.)
Esthonia, 59.4°N, 27.3°E.
Origin time = 13 07 37.
Explosion.

" 25 Ud iPKP 14 35 33.1
Tonga-Kermadec Islands
(h = 430 km).

" 25 Ki iPn 15 37 05.0
iPg1 15 37 12.9
iSn 15 37 51.1
iS* 15 38 03.9
Sk eSg1 15 40 57
Um iSg1 15 39 40.9
Northwest Russia-Norway
border region,
69.7°N, 30.0°E.
Origin time = 15 36 04.
Explosion.

" 25 Up iP 20 21 13.7
Um iP 20 22 08.4
Ud eP 20 21 14

" 25 Up iPKP2 20 27 17.2
Ud ePKP2 20 27 18
De ePKP2 20 27 37
Tonga-Kermadec Islands
(h = 60 km).

" 26 De iPKP 00 05 30.5
New Ireland (h = 55 km).

" 26 Um iP 02 31 52.9

" 26 Um iP 02 59 11.7
De iP 02 58 55.8
Mona Passage (h = 55 km).

" 26 Um i(P) 06 05 30.9
De i(P) 06 06 14.8

" 26 Um iP 06 36 15.0
Ud iP 06 36 45.3
Japan (h = 35 km).

" 26 Up iP 07 02 16.9
Um iP 07 02 29.3
Ud iP 07 02 30.6
De iP 07 02 15.3
Iran (h = 45 km).

" 26 Up i(P) 08 18 21.6
Ud e(P) 08 18 37
De i(P) 08 18 19.7

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

1971				1971			
Aug. 26	Um	iPKP	09 51 06.2	Aug. 26	(cont.)		
	De	iPKP	09 51 14.6		Um	i(PKP)	17 53 06.6
	Tonga Islands		(h = 280 km).			iPKS	17 56 23.4
" 26	Up	ePKP	11 09 28		Ud	ePKP	17 53 11
			micr sec		De	i(PKP)	17 53 07.7
	Mx	N	1.1 21			iPKP	17 53 20.3
	Mx	Z	1.1 21		Loyalty Islands		
	Ki		micr sec		(h = 15 km).		
	Mx	E	1.1 19	" 27	Up	iP	02 23 01.1
	Mx	N	1.1 20		Sk	iP	02 23 43.6
	Mx	Z	2.4 21		Um	iP	02 23 52.0
	Um	iPKP	11 09 35.9		Ud	iP	02 23 07.2
		i	11 09 52.5			i	02 23 12.3
	Ud	iPKP	11 09 26.4		De	iP	02 22 40.1
		i	11 09 44.6		Greece.		
		ePP	11 11 04	" 27	Sk	i(P)	02 43 23.5
	South Sandwich Islands				Um	i(P)	02 43 43.9
	(h = N).			" 27	Sk	i(P)	02 45 04.6
	M = 5.7 (Up, Ki).				Um	i(P)	02 45 40.6
" 26	Um	iSg1	11 59 02.9	" 27	Up	iPKP	04 02 19.8 C
	Esthonia.					i	04 02 24.0
	Explosion.				Sk	iPKP	04 02 13.7
" 26	Up	iPg1	14 55 53.8			i	04 02 18.1
		iSg1	14 56 53.1		Um	iPKP	04 02 08.4 C
	Sk	iSg2	14 59 18.1			i	04 02 12.5
	Um	iSg1	14 58 13.3		Ud	iPKP	04 02 21.5 C
	Ud	eSg1	14 57 48			i	04 02 25.8
	De	ePg1	14 56 15		De	iPKP	04 02 29.8 C
		iSg1	14 57 33.7			i	04 02 34.3
	Latvia, 57.1°N, 24.0°E.				Kermadec Islands		
	Origin time = 14 54 35.				(h = 570 km).		
	Explosion?				Double PKP, about 4.3 sec apart.		
" 26	De	iP	15 16 42.8	" 27	Up	iP	05 27 20.3
" 26	Up	iSg1	15 26 39.7			i	05 27 24.5
		i	15 26 43.4				micr sec
	Um	iSg1	15 28 47.7			P	Z' 0.1 0.9
	Ud	iPg1	15 26 28.4		Sk	iP	05 28 00.6
		iSg1	15 26 55.7			iPP	05 29 29.1
	De	iSg1	15 27 07.5		Um	iP	05 27 34.8
	Östergötland, Sweden,					i	05 27 39.2
	58.6°N, 16.1°E.				Ud	iP	05 27 35.6
	Origin time = 15 25 52.					i	05 27 40.0
" 26	Ud	i(P)	16 22 04.7		De	iP	05 27 18.8
	De	e(P)	16 22 40			i	05 27 22.8
" 26	Up		micr sec		Iran (h = 55 km).		
	Mx	N	0.6 18		Double P (Up, Um, Ud, De),		
	Mx	Z	1.2 22		small and large, in average		
	Sk	i(PKP)	17 52 52.6		4.2 sec apart.		
		ePKP	17 53 03	" 27	Sk	eP	06 48 59
	(cont.)				(cont.)		

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

1971				1971			
Aug. 27	(cont.)			Aug. 27	(cont.)		
	Um	iP	06 49 17.9		De	iSg1	11 38 19.6
	North Atlantic Ocean (h = N).				Off coast of south Sweden, 55.4°N, 15.3°E. Origin time = 11 37 35. Explosion?		
"	27	Sk	eSg1 07 17 52	"	27	Up	iSg1 12 09 16.6
		Um	iPg1 07 16 54.2				iRg 12 09 23.0
			i 07 16 56.2			Sk	eSg1 12 11 11
			iSg1 07 17 14.2			Ud	iSg1 12 09 32.7
		Ud	iSg1 07 18 19.3				iRg 12 09 38.4
		Ångermanland, Sweden, 62.9°N, 17.9°E. Origin time = 07 16 29.				Central Sweden. Explosion?	
"	27	Ud	iP 08 06 33.2	"	27	Ki	iP 14 00 18.1
		Iran (h = 60 km).				Um	iP 14 00 46.9
"	27	Um	eP 09 34 53			Ud	iP 14 01 17.1
		Ud	eP 09 34 40			Japan (h = N).	
		De	iP 09 34 50.6	"	27	Ud	i(P) 16 03 43.6
		Central America (h = N).					
"	27	Up	iPKP 09 44 59.4 C	"	28	Up	iPKP 03 23 52.3
			ipPKP 09 45 08.3			Ki	iPKP 03 23 43.3
			micr sec			Um	ePKP 03 23 49
			PKP Z' 0.1 1.1			Ud	iPKP 03 23 52.6
		Sk	iPKP 09 44 52.8 C			De	iPKP 03 24 02.9
		Um	iPKP 09 44 48.0			Fiji Islands (h = 520 km).	
			ipPKP 09 44 55.6	"	28	Up	iPKP 04 28 12.3
		Ud	iPKP 09 45 01.1 C			Ki	ePKP 04 28 00
		Kermadec Islands. h = 30 km (Up,Um).					iSKP 04 31 12.8
"	27	Up	iSg1 11 13 44.2			Um	iPKP 04 28 03.4
		Sk	eSg1 11 15 37			Ud	i(PKP) 04 28 05.8
		Um	iSg1 11 14 17.9				iPKP 04 28 13.5
		De	eSg1 11 15 04			De	iPKP 04 28 17.7
		Esthonia. Explosion.				Tonga Islands (h = 150 km).	
"	27	Up	iSg1 11 17 12.5	"	28	Um	i(P) 06 13 08.1
		Um	iSg1 11 19 23.1			Up	iRg 10 02 15.9
		Ud	eSg1 11 17 14			Ud	iRg 10 02 02.3
		De	iPg1 11 15 14.8			De	iRg 10 02 04.7
			iSg1 11 15 31.4			Probably Östergötland, Sweden. Explosion?	
		Off coast of south Sweden, 55.5°N, 15.1°E. Origin time = 11 14 54. Explosion?		"	28	Ud	iP 12 27 13.2
"	27	De	i(P) 11 24 41.6			De	iP 12 26 42.7
						Dodecanese Islands.	
"	27	Up	iSg1 11 39 58.8	"	28	Up	iP 16 09 35.1
		Ud	eSg1 11 40 00				ipP 16 09 41.5
		De	iPg1 11 37 59.8				micr sec
		(cont.)				P	Z' 0.1 0.9
						pP	Z' 0.3 1.3
						(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

Remark. Since September 23, 1971, Kiruna operates also a long-period vertical-component Press-Ewing seismograph with photographic recording (seismometer period = 15 sec, galvanometer period = 100 sec). This replaces the same system with visible ink recording, whose operation was discontinued in June, 1970. In the monthly bulletins, these records are used only for supplementary time readings.

S E P T E M B E R 1 - 30, 1971
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1971					1971				
Sep.	1	Ki	iSgl	00 46 41.2	Sep.	1	Up	iSKP	14 21 58.7
		Sk	iSgl	00 46 55.9			Um	iPKP	14 18 39.4
		Um	iSgl	00 47 15.5			Ud	iSKP	14 22 03.3
		Nordland, Norway, 66.7°N, 14.1°E. Origin time = 00 45 15. Explosion.					De	eSKP	14 22 15
							New Hebrides (h = 130 km).		
"	1	Ki	i(P)	00 47 58.2	"	1	Ki	iSgl	16 22 41.7
		Sk	i(P)	00 48 33.4			Sk	iSgl	16 22 48.5
							Um	iSgl	16 23 09.0
							Nordland, Norway, 66.5°N, 14.2°E. Origin time = 16 21 14. Explosion.		
"	1	Up	iPKP	00 51 02.5	"	1	Um	iSgl	16 24 06.3
		Ki	iPKP	00 51 08.9			Near Lake Ladoga. Explosion.		
		Ud	iPKP	00 51 01.1	"	1	Up	iPKP	17 30 32.0
		South Sandwich Islands (h = N).							micr sec
"	1	De	i(Sgl)	06 18 47.9			PKP	Z'	0.1 0.8
"	1	Ud	iP	06 56 03.0			Ud	iPKP	17 30 34.3
"	1	Ud	iP	10 37 18.1			De	iPKP	17 30 44.2
"	1	Ud	iP	11 04 56.1			Tonga-Kermadec Islands (h = 490 km).		
		Kurile Islands (h = 50 km).			"	1	Sk	ePKP	20 36 23
"	1	Ki	iP	12 22 16.8			Um	iPKP	20 36 12.3
		Sk	iP	12 22 34.1			Ud	iPKP	20 36 25.1
			i	12 22 51.9			De	iPKP	20 36 30.7
		Um	i(pP)	12 22 59.8			New Britain (h = N).		
		Hindu Kush.							

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

1971

Sep. 2 Ki ePgl 04 28 34
iSgl 04 29 23.6
Sk ePgl 04 28 06
iSgl 04 28 33.3
Um iSgl 04 29 24.9
Nordland, Norway,
65.7°N, 12.6°E.
Origin time = 04 27 26.

" 2 Up iPKP 06 52 01.9
Ki iPKP 06 51 48.6
Sk iPKP 06 51 59.2
Um iPKP 06 51 54.4
Ud iPKP 06 52 04.4
De iPKP 06 52 10.6
Santa Cruz Islands
(h = 180 km).

" 2 Up iP 12 31 27.1
Ki iP 12 32 06.8
Um eP 12 31 40
Ud iP 12 31 43.3
ipP 12 31 50.0
De iP 12 31 24.5
Iran.
h = 25 km (Ud).

" 2 Up iP1 18 31 54.0
iP2 18 31 56.9
iPP 18 33 19.2
micr sec
P2 Z' 0.1 0.6
Ki eP1 18 32 33
Sk iP1 18 32 30.8
Um iP1 18 32 10.1
iPP 18 33 34.7
Ud iP1 18 32 09.4
iP2 18 32 12.2
De iP2 18 31 53.3
Iran (h = 45 km).
Double P, in average 2.8 sec
apart.

" 2 Ud iP 22 29 04.1
i 22 29 33.0
Iran (h = 40 km).

" 2 Sk iPKP 23 28 41.9 C
New Hebrides Islands
(h = 50 km).

" 3 Up iPKP 00 07 20.6
micr sec
PKP Z' 0.1 1.0
Ki ePKP 00 07 10
Um iPKP 00 07 15.7
(cont.)

1971

Sep. 3 (cont.)
Ud iPKP 00 07 22.3
De iPKP 00 07 32.6
Tonga-Kermadec Islands
(h = N).

" 3 Ki eP 02 09 56
Um iP 02 10 03.8
Ud iP 02 10 21.0
Mindanao (h = 110 km).

" 3 Ud iP 13 22 26.6
Turkey.

" 3 Up iP 18 52 45.2
Ki iP 18 52 28.5
Um iP 18 52 32.4
Ud iP 18 52 58.0
China (h = N).

" 3 Ki ePKP 23 56 30
South Sandwich Islands
(h = N).

" 4 Ki iP 00 58 53.0
Mariana Islands (h = 140 km).

" 4 Up iP 01 21 02.2
Ki eP 01 20 46
Ud iP 01 21 16.5
China (h = N).

" 4 Ki iP 02 06 08.2
Mariana Islands (h = 230 km).

" 4 Up iPgl 06 54 29.9
iSgl 06 54 38.0
iRg 06 54 41.2
Um iSgl 06 56 45.3
Ud iSgl 06 55 28.8
Södermanland, Sweden,
59.3°N, 17.5°E.
Origin time = 06 54 21.
Explosion?

" 4 Ud iP 13 49 48.0
Iran (h = 30 km).

" 4 Ki iP 14 23 13.2
Um iP 14 23 22.5
Ud iP 14 23 45.9
Luzon (h = 70 km).

" 4 Up iP 15 21 12.9
Um iP 15 20 48.9
Ud iP 15 21 18.1
Kurile Islands (h = 60 km).

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

1971				1971						
Sep.	4	Up	iP	16 03 57.6	C	Sep.	5 (cont.)			
			iScP	16 08 20.0			Ki iP	15 04 40.8		
			iP'P'	16 32 33.4			iX	15 04 48.5		
				micr sec				micr sec		
			P	Z' 0.6	1.3		P	Z' 0.1	1.1	
		Ki	iP	16 03 03.3	C		Mx	E 0.7	15	
			iPcP	16 03 56.4			Mx	N 0.7	15	
			iScP	16 07 43.9			Mx	Z 1.5	21	
				micr sec			Sk	iX	15 05 26.3	
			P	Z' 0.8	1.3		Um	iP	15 05 07.7	
		Sk	iP	16 03 32.9	C			iX	15 05 14.5	
		Um	iP	16 03 31.1	C		Ud	iP	15 05 39.2	
			iPcP	16 04 11.9				iX	15 05 47.8	
			iScP	16 08 01.9			Komandorsky Islands (h = N).			
			iP'P'	16 32 44.0			m = 5.9 (Up,Ki).			
		Ud	iP	16 03 55.5	C		The phase X can either be interpreted as a second P-phase, in average 7.7 sec after the first onset, or as pP for a focal depth of 30 km.			
			iPcP	16 04 27.7						
			iScP	16 08 19.1						
		De	iP	16 04 19.0	C					
		Unimak Island (h = 110 km).								
		m = 6.5 (Up,Ki).								
"	4	Up	iP	17 21 59.1		"	5	Ki	iPn	16 03 12.2
		Ki	iP	17 21 34.8					iSn	16 03 59.6
		Ud	iP	17 22 09.0					iSgl	16 04 16.1
		Formosa (h = 130 km).						Um	iSgl	16 05 44.9
								Ud	iSgl	16 08 15.0
"	4	Up	iP	22 42 32.0			Northwest Russia-Norway border region.			
		Ki	iP	22 41 38.4			69.5°N, 30.7°E.			
		Um	iP	22 42 03.9			Origin time = 16 02 10.			
		Ud	iP	22 42 35.9			Explosion.			
		De	iP	22 42 57.3		"	5	Up	iP	18 46 02.2
		Kamchatka.							iS	18 54 45
"	5	Ud	iP	02 25 19.4					micr sec	
		North Atlantic Ocean.						P	Z' 2.0	1.5
"	5	Ki	iP	09 25 46.7				Mx	E 420	20
		Um	eP	09 25 54				Mx	N 350	19
		Mexico (h = 50 km).						Mx	Z 310	20
"	5	Um	iP	10 09 55.1	C		Ki	iP	18 45 16.8	C
		Ud	iP	10 10 18.5					micr sec	
		Mariana Islands.						P	Z' 1.9	1.5
"	5	Up	i(P)	12 08 17.5				Mx	E 470	20
		Ud	i(P)	12 08 55.8				Mx	N 320	19
"	5	Ki	iP	12 26 22.3				Mx	Z 250	15
		Um	iP	12 25 44.4			Sk	iP	18 45 54.4	C
		Ud	iP	12 25 32.8				i(PPP)	18 49 52.2	
		Turkey (h = 20 km).					Um	iP	18 45 37.5	C
"	5	Up	iX	15 05 44.1				iS	18 53 58	
				micr sec			Ud	iP	18 46 09.5	C
		X	Z' 0.1	1.1			De	iP	18 46 26.2	C
		(cont.)					Sakhalin (h = 10 km).			
"	5	Up	iP	19 44 24.1	C		m = 7.0, M = 7.7 (Up,Ki).			
			iPcP	19 44 58.3						
		(cont.)				"	5	Up	iP	19 44 24.1
									iPcP	19 44 58.3
		(cont.)					(cont.)			

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

Year	Date	Time	Location	Origin Time	Explosion	Station	Phase	Time	Unit
1971	Sep. 7	(cont.)	58.9°N, 18.1°E.	11 41 05.	Explosion.				
"	"	7	Up	iSgl	11 42 02.9				
				iRg	11 42 09.8				
			Um	iSgl	11 44 04.2				
			Ud	iSgl	11 42 50.7				
			De	iSgl	11 43 14.3				
			Baltic Sea, near coast of Södermanland, Sweden, 58.7°N, 18.1°E.						
			Origin time = 11 41 29.						
			Explosion.						
"	"	7	Up	iPgl	11 43 21.5				
				iSgl	11 43 36.6				
				iRg	11 43 43.2				
			Sk	eSgl	11 45 56				
			Um	iSgl	11 45 37.8				
			Ud	iSgl	11 44 24.0				
			De	i(S*)	11 44 42.4				
				iSgl	11 44 48.1				
			Baltic Sea, near coast of Södermanland, Sweden, 58.9°N, 18.1°E.						
			Origin time = 11 43 03.						
			Explosion.						
"	"	7	Up	iSgl	13 01 48.4				
			Ki	eSgl	13 04 45				
			Sk	iSgl	13 03 46.8				
			Um	iSgl	13 02 38.8				
			Ud	iSgl	13 02 51.3				
			De	eSgl	13 03 18				
			Esthonia, 59.1°N, 24.1°E.						
			Origin time = 13 00 00.						
			Explosion.						
"	"	7	Ud	iP	15 40 40.6				
			Ryukyu Islands (h = N).						
"	"	7	Ki	iSgl	17 36 22.7				
			Sk	iSgl	17 36 27.9				
			Um	iSn	17 36 35.7				
				iSgl	17 36 48.9				
			Nordland, Norway, 66.5°N, 14.2°E.						
			Origin time = 17 34 54.						
			Explosion.						
"	"	7	Ud	i(Sgl)	17 41 43.1				
"	"	8	Up	iP	03 28 01.1				
			(cont.)						
1971	Sep. 8	(cont.)							
			Up					micr	sec
				Mx	E	2.5	19		
				Mx	N	3.0	19		
				Mx	Z	3.0	15		
			Ki	iP		03 27	15.5		
								micr	sec
				Mx	E	2.0	15		
				Mx	N	2.1	18		
				Mx	Z	3.4	19		
			Sk	e(P)		03 27	57		
			Um	iP		03 27	35.9		
			Ud	iP		03 28	08.1		
			De	iP		03 28	25.3		
			Sakhalin (h = 15 km).						
			M = 5.6 (Up, Ki).						
"	"	8	Up	iP		04 13	46.2		
				i		04 13	58.0		
			Ki	iP		04 15	14.0		
			Sk	eP		04 14	40		
				e		04 14	56		
			Um	eP		04 14	27		
				i		04 14	44.6		
			Ud	eP		04 14	01		
			De	iP		04 13	21.6		
			Rumania (h = 140 km).						
"	"	8	Up	iP		07 36	38.0	C	
				ipP		07 36	50.3		
								micr	sec
				P	Z'	0.1	0.9		
				pP	Z'	0.2	1.1		
			Ki	iP		07 35	58.6	C	
				ipP		07 36	11.3		
								micr	sec
				pP	Z'	0.1	0.7		
				Mx	E	0.7	17		
				Mx	N	0.3	13		
				Mx	Z	0.9	18		
			Sk	iP		07 36	31.8	C	
				ipP		07 36	44.3		
			Um	iP		07 36	16.0	C	
				ipP		07 36	28.3		
			Ud	iP		07 36	45.2	C	
				ipP		07 36	57.6		
			De	iP		07 37	00.0	C	
				ipP		07 37	12.7		
			Japan.						
			h = 45 km (Up, Ki, Sk, Um, Ud, De).						
			m = 6.1 (Up, Ki).						
"	"	8	Ki	iPn		11 48	30.1		
				iSn		11 49	29.3		
				iS*		11 49	49.5		
			Sk	eSgl		11 52	18		
			(cont.)						

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

Year	Month	Day	Station	Phase	Time	Notes
1971	Sep.	8	(cont.)			
			Um	iSn	11 50 08.2	
				iSgl	11 50 43.3	
						Northwest Russia, 67.8°N, 34.2°E. Origin time = 11 47 11. Explosion.
"	"	8	Up	iP	11 59 03.1	
				iPP	12 01 35.8	
				iS	12 07 39	
						micr sec
			P	Z'	0.1 1.0	
			Mx	E	42 19	
			Mx	N	46 19	
			Mx	Z	24 18	
			Ki	iP	11 58 17.6	
				iS	12 06 19	
						micr sec
			P	Z'	0.1 1.0	
			Mx	E	37 18	
			Mx	N	29 12	
			Mx	Z	30 14	
			Sk	iP	11 58 54.5	
			Um	iP	11 58 36.8	
				ipP	11 58 38.8	
				iS	12 06 56	
			Ud	iP	11 59 09.6	
				ipP	11 59 11.1	
			De	iP	11 59 29.2	
						Sakhalin, h = 5 km (Um,Ud). m = 5.9, M = 6.8 (Up,Ki). The relatively low value of m compared to M is probably connected with the shallow focal depth, at least in part.
"	"	8	Up	iP	12 49 31.6	
			Ki	iP	12 48 45.3	
			Sk	iP	12 49 23.8	
			Um	iP	12 49 06.9	
			Ud	iP	12 49 39.0	
			De	iP	12 49 57.3	
						Sakhalin (h = 20 km).
"	"	8	Up	iP	13 01 25.5 C	
				ipP	13 01 28.8	
						micr sec
			P	Z'	0.1 1.0	
			Ki	iP	13 01 51.7	
						micr sec
			P	Z'	0.1 1.1	
			Sk	iP	13 01 59.9	
			Um	iP	13 01 33.4 C	
						(cont.)
1971	Sep.	8	(cont.)			
			Um	ipP	13 01 37.2	
			Ud	iP	13 01 41.2 C	
				ipP	13 01 44.6	
				iPP	13 03 28.1	
			De	iP	13 01 29.1	
				ipP	13 01 32.9	
						Iran. h = 15 km (Up,Um,Ud,De). m = 5.5 (Up,Ki).
"	"	8	Ki	eP	13 08 51	
			Ud	iP	13 09 39.3	
						Sakhalin (h = N).
"	"	8	De	i	14 34 30.7	
				i	14 34 34.1	
						Probably sonic boom. Felt.
"	"	8	Up	eP	15 12 48	
						micr sec
			Mx	E	1.0 17	
			Mx	N	1.1 20	
			Ki	eP	15 12 03	
						micr sec
			Mx	E	0.7 12	
			Mx	N	0.7 12	
			Mx	Z	0.8 14	
			Um	iP	15 12 23.2	
			Ud	iP	15 12 54.9	
						Sakhalin (h = N). M = 5.1 (Up,Ki).
"	"	8	Up	iP	17 06 26.2 C	
			Ki	iP	17 07 29.6	
			Sk	eP	17 07 11	
			Um	iP	17 06 54.0	
			Ud	iP	17 06 39.0	
			De	eP	17 06 07	
				ipP	17 06 10.0	
						Turkey (h = 5 km).
"	"	8	Up	iP	17 10 30.6	
				iPP	17 12 52.9	
				iS	17 19 10	
				iP'P'	17 39 16.7	
						micr sec
			P	Z'	0.2 1.0	
			Mx	E	18 20	
			Mx	N	23 20	
			Mx	Z	11 17	
			Ki	iP	17 09 46.8	
				iPP	17 11 56.1	
						micr sec
			P	Z'	0.2 1.0	
						(cont.)

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

Year	Month	Station	Phase	Time	Amplitude	Duration	Location	Depth	Magnitude
1971	Sep.	8	(cont.)						
		Ki		micr	sec				
		Mx	E	20	20				
		Mx	N	11	12				
		Mx	Z	14	14				
		Sk	iP	17 10	21.8				
		Um	iP	17 10	05.2				
			iS	17 18	24				
			iP'P'	17 39	30.6				
		Ud	iP	17 10	36.8				
			iP'P'	17 39	19.5				
		De	iP	17 10	55.2				
							Sakhalin (h = 15 km).		
							m = 6.2, M = 6.5 (Up,Ki).		
"		8	Ki	iSg1	18 28	29.3			
			Sk	iSg1	18 28	36.4			
			Um	iSg1	18 28	57.4			
			Ud	iSg2	18 30	28.8			
							Nordland, Norway,		
							66.5°N, 14.1°E.		
							Origin time = 18 27 01.		
							Explosion.		
"		8	Up	iP	19 32	51.6			
							micr sec		
			Mx	E	1.0	20			
			Mx	N	1.1	20			
			Ki	eP	19 32	08			
							micr sec		
			Mx	E	0.8	16			
			Mx	N	0.4	12			
			Sk	eP	19 32	44			
			Um	iP	19 32	26.8			
			Ud	iP	19 32	59.0			
							Sakhalin (h = 20 km).		
							M = 5.1 (Up,Ki).		
"		8	Ud	iP	19 54	53.0			
"		8	Ud	i(P)	20 10	24.8			
"		8	Up	iP	20 38	25.9			
							micr sec		
			P	Z'	0.1	1.3			
			Mx	E	1.2	20			
			Mx	N	1.0	19			
			Mx	Z	2.2	20			
			Ki	iP	20 38	30.3			
							micr sec		
			Mx	E	1.1	16			
			Mx	N	0.4	13			
			Mx	Z	1.0	16			
			Sk	iP	20 38	01.2			
			Um	iP	20 38	27.2			
			Ud	iP	20 38	08.3			
							North Atlantic Ocean (h = N).		
							M = 4.7 (Up,Ki).		
1971	Sep.	8	Ud	iP	20 55	42.0			
							Sakhalin.		
"		8	Ki	eP	22 22	53			
			Sk	ePKP	22 27	20			
			Um	iP	22 22	58.2			
				iPKP	22 27	12.2			
			Ud	iPKP	22 27	21.6			
							Banda Sea (h = N).		
"		8	Up	iP	22 40	37.3			
				i	22 40	41.6			
				iX	22 40	54.6			
							micr sec		
				P	Z'	0.1	1.4		
			Mx	E	1.2	20			
			Mx	N	2.1	20			
			Mx	Z	1.2	18			
			Ki	iP	22 41	18.9			
				i	22 41	24.9			
							micr sec		
				P	Z'	0.1	0.9		
			Mx	E	1.6	16			
			Mx	N	0.8	13			
			Mx	Z	1.9	14			
			Sk	eX	22 41	40			
			Um	iP	22 40	54.8			
			Ud	iP	22 40	52.3			
				i	22 40	56.4			
			De	eP	22 40	35			
							Turkey-USSR (h = 35 km).		
							m = 5.5, M = 4.8 (Up,Ki).		
"		9	Ud	iP	01 50	32.5			
							Peru-Brazil (h = 150 km).		
"		9	Um	iP	03 05	43.5			
			Ud	iP	03 06	06.7			
							Mariana Islands (h = 320 km).		
"		9	Up	iP	06 56	01.4			
				ipP	06 56	03.5			
			Um	eP	06 56	41			
			Ud	iP	06 56	10.1			
				ipP	06 56	12.4			
							Greece.		
							h = 10 km (Up,Ud).		
"		9	Um	iP	10 35	54.6			
			Ud	iP	10 36	25.8			
							Kurile Islands (h = 45 km).		
"		9	Ud	iP	10 57	33.0			
							Sakhalin (h = N).		
"		9	Ud	i(P)	11 34	00.6			

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

1971				1971			
Sep.	9			Sep.	9	(cont.)	
		Ki	ePgl 12 10 24			Ki	
			iSgl 12 10 49.0				micr sec
		Um	iSgl 12 12 35.2			P3	Z' 0.3 0.8
			Probably Lofoten area,			Mx	E 8.9 17
			Norway.			Mx	N 5.3 18
"	9	Ki	ePgl 12 30 07			Mx	Z 9.4 16
			iSgl 12 30 31.4		Sk	iP1	23 12 03.8 C
		Um	iSgl 12 32 16.5			iP2	23 12 11.4
			Probably Lofoten area,			iP3	23 12 22.0
			Norway.		Um	iP1	23 11 49.2 C
"	9	Ki	iP 13 35 01.0			iP3	23 12 04.7
			micr sec			iP4	23 12 18.8
		P	Z' 0.1 0.8			iS	23 20 24
		Um	iP 13 34 59.1		Ud	iP1	23 12 20.6 C
		Ud	iP 13 35 11.7			iP2	23 12 27.4
			Sumatra (h = 100 km).			iP3	23 12 37.0
"	9	Up	iP 15 15 18.0			iP4	23 12 48.4
			micr sec		De	iP1	23 12 39.0
		P	Z' 0.2 1.0			iP2	23 12 46.1
		Mx	E 1.0 11			iP3	23 12 56.6
		Mx	N 2.3 13				Kurile Islands (h = 5 km).
		Mx	Z 3.2 12				m = 6.4 (P1), 6.6 (P3),
		Ki	iP 15 16 21.9				M = 6.1 (Up,Ki).
			micr sec				The phases P1, P2, P3 and
		P	Z' 0.2 1.0				P4 denote multiple P-phases.
		Mx	E 1.4 13				In average:
		Mx	N 1.0 11				P2 - P1 = 7.2 sec,
		Mx	Z 1.7 12				P3 - P1 = 17.1 sec,
		Um	iP 15 15 47.1		"	10	P4 - P1 = 29.4 sec.
		Ud	iP 15 15 28.5			Ud	i(PKP) 00 15 50.3
		De	iP 15 14 56.9			De	i(PKP) 00 16 01.6
			Turkey (h = 25 km).		"	10	Ud iP 04 21 18.1
			m = 5.8, M = 5.0 (Up,Ki).		"	10	Up iP 06 48 15.4
"	9	Ud	i(P) 17 02 16.5				micr sec
"	9	Up	iP1 23 12 14.9 C			Mx	E 0.9 19
			iP2 23 12 22.6			Mx	N 2.1 20
			iP3 23 12 32.9			Mx	Z 3.0 20
			iP4 23 12 45.8		Ki	iPKP	06 48 02.3
			iS 23 21 14				micr sec
			iScS 23 22 16.6			Mx	E 0.9 17
			micr sec			Mx	N 0.8 17
		P1	Z' 0.2 0.7			Mx	Z 1.7 16
		P3	Z' 0.3 0.8		Sk	iPKP	06 48 12.5
		Mx	E 4.5 23		Um	iPKP	06 48 08.6
		Mx	N 8.2 20		Ud	i(PKP)	06 48 09.0
		Mx	Z 6.3 23			iPKP	06 48 17.5
		Ki	iP1 23 11 28.0 C		De	iPKP	06 48 20.9
			iP2 23 11 35.5				Tonga Islands (h = N).
			iP3 23 11 44.7				M = 5.8 (Up,Ki).
			iS 23 19 50		"	10	Ki iPgl 11 04 40.4
			micr sec				iSgl 11 05 07.6
		P1	Z' 0.2 0.8			Sk	iSgl 11 05 54.3
							(cont.)
(cont.)							

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Year	Month	Day	Station	Type	Time	Amplitude	Location	Depth	Notes
1971	Sep.	10	Um	iSgl	11 05	44.9	Lapland, Sweden, 66.6°N, 16.4°E.		Origin time = 11 04 06.
"	"	10	Up	iSKP	14 13	22.9			
			Ki	ePKP	14 10	34			
				iSKP	14 12	57.6			
			Sk	ePKP	14 10	36			
				iSKP	14 13	15.3			
			Um	iPKP	14 10	37.5			
				iSKP	14 13	10.3			
			Ud	iPKP	14 10	42.0			
				iSKP	14 13	24.3			
			De	iPKP	14 10	51.8			
				iSKP	14 13	34.5			
							Fiji Islands (h = 670 km).		
"	"	10	Up	iP	16 04	36.7			
			Um	iP	16 04	08.6			
			Ud	iP	16 04	40.3			
				ipP	16 04	54.8			
							Kurile Islands. h = 55 km (Ud).		
"	"	11	Up	iP	02 07	57.0 C			
				P	Z'	0.1 0.7			
				Mx	E	0.4 11			
				Mx	N	0.5 12			
				Mx	Z	0.6 12			
			Ki	iP	02 09	11.7			
				Mx	E	0.4 14			
				Mx	N	0.3 10			
				Mx	Z	0.5 9			
			Sk	iP	02 08	39.2			
			Um	iP	02 08	34.9			
			Ud	iP	02 08	04.1			
				ipP	02 08	06.0			
			De	eP	02 07	26			
							Greece. h = 5 km (Ud). M = 4.4 (Up, Ki).		
"	"	11	Ki	iP	06 00	38.1			
			Um	iP	06 00	30.5			
			Ud	iP	06 00	53.4			
							Burma (h = N).		
"	"	11	Up	iP	06 39	29.8			
				i	06 39	33.9			
			Ki	iP	06 39	25.4			
				i	06 39	30.2			
			Sk	iP	06 39	44.9			
							(cont.)		
1971	Sep.	11	Sk	i	06 39	49.2			
			Um	iP	06 39	23.8			
				i	06 39	28.2			
							Burma (h = 30 km).		
							The second phase is in average 4.4 sec delayed. It can either be interpreted as another event from the same area or as pP for a focal depth of 15 km.		
"	"	11	Ki	iPn	10 58	02.7			
				iSn	10 58	52.0			
				iS*	10 59	05.7			
			Sk	eSgl	11 01	49			
			Um	i	11 00	13.6			
				iSgl	11 00	34.8			
							Northwest Russia-Norway border region, 69.4°N, 31.2°E. Origin time = 10 56 58. Explosion.		
"	"	11	Um	iS*	11 46	08.1			
				iSgl	11 46	13.6			
							Northwest Russia. Explosion.		
"	"	11	Um	iS*	11 46	39.2			
				iSg	11 46	45.3			
							Northwest Russia. Explosion.		
"	"	11	Up	iSgl	14 02	23.6			
			Ki	iSgl	14 04	56.0			
			Um	iSgl	14 02	58.6			
			Ud	eSgl	14 03	30			
							Esthonia, Origin time = 14 00 17. Explosion.		
"	"	11	Up	iSn	14 17	45.2			
				iSgl	14 17	49.1			
			Sk	iSgl	14 18	51.5			
			Um	eSgl	14 19	33			
			Ud	iPgl	14 16	47.7			
				iSgl	14 17	05.6			
			De	iSn	14 17	38.6			
				iSgl	14 17	42.1			
							Dalsland, Sweden, 58.9°N, 12.8°E. Origin time = 14 16 25.		
"	"	11	Ki	iP	15 05	51.8			
			Sk	iP	15 06	11.9			
							(cont.)		

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

1971				1971			
Sep.	11	(cont.)		Sep.	12		
		Um	iP 15 05 49.9			Up	iPKP 14 53 39.1
		Ud	iP 15 06 08.7			Sk	iPKP 14 53 32.7
		Burma (h = 35 km).				Um	iPKP 14 53 28.1
"	11	Ki	iP 22 57 45.2			i	14 53 34.2
"	12	Ki	eP 03 44 56	"	12	Ud	iPKP 14 53 41.0
		Sk	iP 03 45 16.8			Kermadec Islands (h = N).	
		Arctic Ocean.				Up	iPKP 17 01 11.2
"	12	Up	iPKP 04 35 06.2			i	17 01 18.3
		Sk	iPKP 04 35 11.1				PKP Z' 0.1 0.9
		South Atlantic Ocean (h = N).				Um	iPKP 17 01 04.3
"	12	Up	iP 05 10 55.6 C			Ud	iPKP 17 01 12.8
		Ud	iP 05 11 11.7			i	17 01 20.2
		Afghanistan-USSR (h = 130 km).				De	iPKP 17 01 23.1
"	12	Ki	iP 05 51 39.3	"	12	Tonga-Kermadec Islands (h = 130 km)	
			micr sec			Up	iP 19 20 36.6
		Mx	E 0.4 13			Ki	iP 19 20 08.8
		Mx	N 0.3 15				micr sec
		Mx	Z 0.5 14			P	Z' 0.1 0.7
		Sk	iP 05 51 54.8			Sk	iP 19 20 34.9
		Ud	iP 05 52 40.8			Um	iP 19 20 19.6
		Norwegian Sea.				Mariana Islands (h = 80 km).	
"	12	Up	iSn 06 02 42.3	"	12	Up	iSKP 20 35 52.1
			iSgl 06 03 47.5			Ki	iPKP 20 32 31.2
		Ki	iPn 05 59 32.1			Sk	iSKP 20 35 46.3
			iSn 06 00 29.5			Um	iSKP 20 35 38.1
			iSgl 06 00 52.0			Ud	iSKP 20 35 55.4
		Sk	iSgl 06 03 18.2			De	iSKP 20 36 04.5
		Um	iSn 06 01 11.1			New Hebrides Islands (h = 230 km).	
			iSgl 06 01 46.6	"	13	Up	iP 01 21 08.3 D
		Ud	iSgl 06 04 11.4				micr sec
		De	eSgl 06 05 41			P	Z' 0.2 0.8
		Northwest Russia, 68.0°N, 33.8°E.				Ki	iP 01 20 32.3 D
		Origin time = 05 58 16.				iPP	01 23 04.7
		Explosion.					micr sec
"	12	Up	iPKP 08 26 19.0			P	Z' 0.2 0.9
			ipPKP 08 26 46.3			Sk	iP 01 21 04.1 D
			micr sec			iPP	01 23 49.0
		PKP	Z' 1.2 1.3			Um	iP 01 20 47.6 D
		Ki	iPKP 08 26 02.2			Ud	iP 01 21 15.6 D
		Sk	iPKP 08 26 12.6			De	iP 01 21 29.2 D
		Um	iPKP 08 26 08.4			Japan (h = 250 km). m = 5.9 (Up, Ki).	
		Ud	iPKP 08 26 20.6	"	13	Up	iP 01 53 09.1
		De	i(PKP) 08 26 26.1			Sk	iP 01 53 35.4
			iPKP 08 26 30.4			Um	iP 01 53 08.4
		Tonga-Kermadec Islands. h = 100 km (Up).				Ud	iP 01 53 25.2
						Hindu Kush (h = 120 km).	

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

1971				1971			
Sep.	13	Up	iP	04 29 29.8	Sep.	14	(cont.)
				micr sec			Ud iPKP 03 22 28.7
			P	Z' 0.1 1.0			De iPKP 03 22 31.4
			Mx	E 0.9 22			Solomon Islands (h = 45 km).
			Mx	Z 1.2 22			
		Ki	iP	04 29 31.8	"	14	Up iPKP 05 39 09.8
				micr sec			micr sec
			P	Z' 0.2 1.0			Mx E 3.2 21
			Mx	E 1.0 22			Mx N 6.8 21
			Mx	Z 1.4 22			Mx Z 8.2 23
		Sk	iP	04 29 14.4			Sk iPKP 05 39 09.0
		Um	iP	04 29 34.2			Um iPKP 05 39 03.4
		Ud	iP	04 29 18.3			Ud iPKP 05 39 12.1
		De	iP	04 29 20.4			De iPKP 05 39 17.2
		Dominican Republic					New Britain (h = N).
		(h = 50 km).					M = 6.3 (Up).
		m = 6.1, M = 5.1 (Up, Ki).					
"	13	Sk	iSn	15 04 53.6	"	14	Up iP 07 07 35.3
			iSgl	15 05 02.1			Ud iP 07 07 41.7
		Um	iSn	15 04 55.9			Japan (h = 40 km).
			iSgl	15 05 13.6	"	14	Up iSgl 10 44 35.2
		Ud	eSgl	15 06 55			Ud eSgl 10 44 38
		Nordland, Norway,					De iPgl 10 42 35.2
		near Bodø, 67.3°N, 14.3°E.					iSgl 10 42 51.4
		Origin time = 15 03 02.					Baltic Sea, south of Sweden,
"	13	Ud	iPKP	16 29 58.4			55.5°N, 15.0°E.
		De	iPKP	16 30 07.7			Origin time = 10 42 16.
							Explosion?
"	13	Up	iPKP	23 17 40.2	"	14	Ud i(P) 14 14 10.7
		Sk	ePKP	23 17 44	"	14	Ud iPKP 14 27 11.9
		Um	iPKP	23 17 48.5			De ePKP 14 27 24
		Ud	iPKP	23 17 38.9			Tonga Islands (h = 35 km).
		South Sandwich Islands					
		(h = N).					
"	14	Ud	iP	03 19 03.1	"	14	Sk eSgl 16 57 03
		Greece.					Um iSgl 16 55 33.1
							Norrbotten, Sweden.
"	14	Up	iP	03 21 56.8	"	14	Up iP 20 04 17.9
				micr sec			iS 20 13 22
			P	Z' 0.3 1.5			micr sec
			Mx	E 4.2 17			Mx E 1.3 23
			Mx	N 11 21			Mx N 1.6 22
			Mx	Z 7.5 18			Mx Z 2.2 23
		Sk	iP	03 22 08.1			Ki eP 20 05 05
		Um	iP	03 21 47.0			Sk iP 20 04 22.8
			iS	03 30 33			Um eP 20 04 41
		Ud	iP	03 22 08.0			iS 20 14 05
		De	iP	03 22 13.0			Ud eP 20 04 11
		Burma-China (h = N).					Atlantic Ocean (h = N).
		m = 6.3, M = 6.1 (Up).					
"	14	Up	iPKP	03 22 22.1	"	14	Up iP 20 18 23.9
				micr sec			Ki eP 20 19 19
			PKP	Z' 0.1 0.9			Sk eP 20 19 18
		(cont.)					(cont.)

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

1971				1971			
Sep.	14	(cont.)		Sep.	15		
		Um	iP 20 18 47.2			Ud	i(P) 14 23 52.8
			iS 20 23 28.7			De	i(P) 14 23 40.2
		Ud	iP 20 18 31.5	"	15	Up	iP 15 06 27.3 C
		De	eP 20 18 17				i 15 06 36.5
		Turkey.					iPP 15 09 06.4
"	15	Sk	eP 00 39 09				micr sec
		Um	iP 00 39 03.5			P	Z' 0.9 1.5
		Ud	eP 00 39 36			Mx	E 14 20
"	15	Up	iP 03 46 36.3			Mx	N 14 17
			i 03 46 54.9			Mx	Z 19 19
		Ki	iP 03 45 52.3		15	Sk	iP 15 06 19.1
		Ud	iP 03 46 40.8				i 15 06 28.7
		Japan (h = 90 km).				Um	iP 15 06 04.7 C
"	15	Um	iP 07 20 21.0				i 15 06 13.5
		Ud	iP 07 20 51.5				iS 15 15 01
		China.				Ud	iP 15 06 33.5 C
"	15	Up	iP 09 18 51.7				i 15 06 43.0
		Ud	eP 09 19 01			De	iP 15 06 49.9 C
		Chagos Islands (h = N).					i 15 06 59.9
"	15	Up	eP 10 10 33.4				iPP 15 09 38.4
			i(PcP) 10 10 57.8			Japan (h = 15 km).	
			micr sec			m = 6.7, M = 6.4 (Up).	
			(PcP) Z' 0.1 1.2			Two onsets with about the	
		Sk	iP 10 10 27.5			same amplitude in average	
		Um	iP 10 10 11.0			9.6 sec apart. If the second	
		Ud	iP 10 10 42.7			arrival is interpreted as	
			iPP 10 11 03.1			pP, it gives a focal depth	
		De	iP 10 11 00.9			of about 35 km. It is not	
		Japan.				unlikely that the onsets	
		h = 80 km (Ud).				belong to two shocks from	
"	15	Ud	i(PKP) 11 45 18.8			the same area.	
		De	i(PKP) 11 45 29.7	"	15	Ud	eSgl 15 16 22
"	15	Up	iP 12 57 29.5			De	eSgl 15 14 33
"	15	Up	iSgl 13 12 28.5			Probably Baltic Sea,	
		Probably Esthonia.				south of Sweden.	
		Explosion.				Explosion?	
"	15	Up	iP 13 41 26.2	"	15	Um	i(P) 16 21 41.6
			micr sec			Ud	i(P) 16 22 11.3
		Mx	E 1.7 18	"	15	Up	iSgl 17 19 48.6
		Mx	N 3.6 20			Ud	eSgl 17 19 50
		Mx	Z 3.8 19			De	iPgl 17 17 26.5
		Sk	iP 13 41 18.7				iSgl 17 17 55.2
		Um	iP 13 41 03.1			Baltic Sea, near coast of	
			iS 13 50 33			Germany, 54.4°N, 14.4°E.	
		Ud	iP 13 41 29.5			Origin time = 17 16 49.	
		De	eP 13 41 46			Explosion?	
		South of Japan (h = 70 km).		"	16	Up	iP 06 36 38.7 C
							i 06 38 12.7
							iPP 06 40 49.9
							iPKKP 06 52 26.5
							micr sec
						P	Z' 0.1 0.9

(cont.)

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

1971				1971			
Sep.	16	(cont.)		Sep.	16	(cont.)	
		Up	micr sec			Japan (h = 45 km).	
		Mx	E 1.0 20			M = 5.3 (Up,Ki).	
		Mx	N 1.8 20				
		Mx	Z 1.9 20	"	16	Ud iP 23 38 39.8	
		Sk	iP 06 36 43.4 C			Aleutian Islands (h = 60 km).	
			iPKKP 06 52 21.6				
		Um	iP 06 36 28.1 C	"	17	De iPKP 14 40 20.5	
			iPP 06 40 42.7			Tonga Islands (h = N).	
			iSKS 06 46 53				
			i(PKKP) 06 52 16.9	"	17	Up iPgl 16 19 31.9	
		Ud	iP 06 36 46.8 C			iSgl 16 20 13.8	
			iPKKP 06 52 18.4			Um iSgl 16 20 55.7	
		De	iP 06 36 52.3 C			Ud iSgl 16 21 15.0	
			iPP 06 41 27.1			De iSgl 16 21 46.4	
		Banda Sea (h = 120 km).				Gulf of Finland,	
"	16	Um	iP 08 53 10.0			59.7°N, 23.6°E.	
		Ud	eP 08 53 41			Origin time = 16 18 37.	
		Japan (h = 40 km).				Explosion.	
"	16	Up	eP 12 49 28	"	18	Ud iP 02 23 24.3	
		Um	iP 12 49 52.0			ipP 02 23 54.9	
						Aleutian Islands,	
						h = 130 km (Ud).	
"	16	Up	iP 14 27 33.7	"	18	Ud iP 10 37 06.5	
		Um	eP 14 27 40			Venezuela.	
		Ud	iP 14 27 50.6				
		Iran.		"	18	Up iSgl 17 11 51.2	
"	16	Up	iS* 17 44 42.8			Ud iSgl 17 12 04.9	
			iSgl 17 44 51.6			De ePgl 17 09 44	
		Ki	iPgl 17 41 34.1			iSgl 17 10 17.3	
			iSgl 17 42 07.2			Baltic Sea, near coast of	
						Poland,	
			micr sec			Origin time = 17 09 01.	
		Sgl	Z' 0.2 0.4			Explosion?	
		Um	iPn 17 41 59.6	"	18	Up iP 17 24 32.6	
			iSn 17 42 49.1			Sk iP 17 24 14.7	
			iSgl 17 43 06.9			Ud iP 17 24 22.9	
		Ud	eSgl 17 44 46			Guatemala (h = 80 km).	
		Nordland, Norway, near Bodö,					
		67.3°N, 14.3°E.					
		Origin time = 17 40 54.		"	18	Ki eP 18 23 14	
"	16	Up	iP 19 03 03.4 C			Ud iP 18 24 04.6	
			iPcP 19 03 26.8			Japan (h = N).	
				"	19	Ki iP 06 50 38.0	
			micr sec			Ud iP 06 50 24.7	
		P	Z' 0.1 1.0			Caucasus.	
		Mx	E 0.7 15	"	19	Up iP 07 36 54.8	
		Mx	N 0.8 18			Ud iP 07 37 02.8	
		Mx	Z 0.9 17			Greece.	
		Ki	micr sec	"	19	Up iP 07 36 54.8	
			E 2.0 18			Ud iP 07 37 02.8	
			N 1.3 19			Greece.	
			Z 1.6 17	"	19	Up iPKP 10 18 38.0 C	
		Um	iP 19 02 40.2			Sk iPKP 10 18 34.4	
		Ud	iP 19 03 09.7			(cont.)	
		(cont.)					

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

1971				1971				
Sep.	21	Up	iP	08 54 33.7	Sep.	21	(cont.)	
			ipP	08 55 20.3			De iP	20 43 16.3
			iPP	08 57 03.1			Colombia (h = 150 km).	
				micr sec				
			P	Z' 0.4 1.2	"	21	Ki ePKP	21 28 10
		Sk	iP	08 54 29.0			Chile (h = 90 km).	
			ePP	08 56 57				
		Um	iP	08 54 12.3	"	22	Ki iP	06 38 49.3
		Ud	iP	08 54 41.3			Ud iP	06 38 12.2
		De	iP	08 54 56.9			North Atlantic Ocean	
				Japan.			(h = N).	
				h = 190 km (Up).				
"	21	Up	iP	09 23 19.7	"	22	Up i	09 30 50.0
				micr sec			iSgl	09 31 03.7
			Mx	N 2.2 18			Um iSgl	09 31 36.3
		Sk	eP	09 23 33			Ud eSgl	09 32 10
		Um	iP	09 23 07.7			Esthonia.	
		Ud	iP	09 23 34.1			Explosion.	
				Tibet (h = N).	"	22	Up eP	14 27 06
"	21	Ki	iPn	12 38 06.0				micr sec
			iPgl	12 38 13.5			Mx E	2.7 18
			iSn	12 38 52.1			Mx N	3.0 19
			iS*	12 39 05.4			Mx Z	5.1 19
		Um	iSgl	12 40 36.6			Um iP	14 27 05.9
				Northwest Russia,			Ud iP	14 26 57.1
				69.4°N, 30.3°E.			De iP	14 27 06.5
				Origin time = 12 37 05.			Mexico (h = N).	
				Explosion.	"	23	Ud iP	00 58 42.4
"	21	Up	iP	16 54 04.3 C			Turkey.	
				micr sec	"	23	Up iP	01 01 29.3
			P	Z' 0.1 1.1				micr sec
			Mx	E 1.2 20			P	Z' 0.1 1.0
			Mx	N 1.6 15			Ki iP	01 00 45.6
			Mx	Z 1.7 13				micr sec
		Ki	iP	16 55 07.5			P	Z' 0.1 0.7
				micr sec			Sk eP	01 01 22
			P	Z' 0.2 1.5			Um iP	01 01 05.2
		Um	iP	16 54 33.5			Ud iP	01 01 37.9
		Ud	iP	16 54 14.6			De iP	01 01 54.2
		De	iP	16 53 45.3			Sikhota Alin (h = 290 km).	
				Turkey (h = 35 km).			m = 5.5 (Up,Ki).	
				m = 5.7 (Up,Ki).	"	23	Ud iP	01 34 31.2
"	21	Up	ePKP	19 03 23			Greece.	
		Sk	ePKP	19 03 14	"	23	Ki eP	03 03 52
		Um	iPKP	19 03 05.4			Um iP	03 04 06.2
		Ud	iPKP	19 03 17.0			Ud iP	03 04 36.8
			i	19 03 24.9			De iP	03 04 52.5
				South of Kermadec Islands.			Japan (h = 60 km).	
"	21	Ki	iP	20 43 28.3	"	23	Up iP	13 42 01.3
		Sk	iP	20 43 11.8			Ki iP	13 41 06.9
		Ud	iP	20 43 13.9			(cont.)	
				(cont.)				

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

1971				1971			
Sep.	23	(cont.)		Sep.	24	(cont.)	
		Ki	micr sec			De	iPgl 10 41 19.9
		P	Z' 0.1 0.9			iSgl	10 41 50.0
		Sk	eP 13 41 38			i	10 42 00.4
			iPcP 13 42 15.4			Off coast of Bohuslän, Sweden, 58.1°N, 10.7°E. Origin time = 10 40 36. Explosion. See note to Sep. 28, 14 37 30.	
		Um	iP 13 41 34.6				
		Ud	iP 13 41 59.0				
		De	iP 13 42 22.8				
		Unimak Island (h = 45 km).					
"	23	Sk	iSgl 18 10 49.8	"	24	Up	iSgl 10 51 41.4
		Um	iSn 18 10 57.5			Ud	iPgl 10 50 20.0
			iSgl 18 11 10.3			iSgl	10 50 53.5
		Ud	iSgl 18 12 38.0			i	10 51 02.3
		Nordland, Norway.				De	iPgl 10 50 20.3
						iSgl	10 50 50.4
"	24	Up	iP 01 21 19.4			Off coast of Bohuslän, Sweden, 58.1°N, 10.7°E. Origin time = 10 49 37. Explosion.	
			micr sec				
		P	Z' 0.4 1.3			"	24
		Mx	E 7.2 18			Up	iSgl 10 55 10.0
		Mx	N 8.5 16			Ud	iPgl 10 53 48.7
		Mx	Z 13 19			iSgl	10 54 22.2
		Ki	iP 01 20 32.1			i	10 54 31.1
			micr sec			De	iPgl 10 53 49.1
		P	Z' 0.3 1.2			iSgl	10 54 17.9
		Mx	E 24 20			Off coast of Bohuslän, Sweden, 58.1°N, 10.7°E. Origin time = 10 53 05. Explosion.	
		Mx	N 19 22				
		Mx	Z 12 15			"	24
		Sk	iP 01 21 13.1			Up	iSgl 11 08 08.7
		Um	iP 01 20 56.0			Ud	iPgl 11 06 47.2
			iS 01 29 55			iSgl	11 07 21.3
		Ud	iP 01 21 26.3			i	11 07 30.4
		De	iP 01 21 42.6			De	iPgl 11 06 46.7
			iPP 01 24 32.1			iSgl	11 07 16.1
		Japan (h = 20 km). m = 6.4, M = 6.4 (Up, Ki).				Off coast of Bohuslän, Sweden, 58.1°N, 10.7°E. Origin time = 11 06 03. Explosion.	
"	24	Ud	iP 03 40 38.7			"	24
		Iran.				Up	iP 12 11 53.2
"	24	Ki	micr sec			"	24
		Mx	E 1.4 20			Ud	iP 14 48 41.6
		Mx	N 0.9 17			Turkey.	
		Mx	Z 1.1 18			"	24
		Um	iP 04 47 12.5			Up	i(P) 15 18 26.8
		Ud	eP 04 47 03			Ud	i(P) 15 18 42.2
		Peru (h = 30 km).				"	24
"	24	Um	iP 07 00 59.2			Ki	eP 19 21 29
		Japan.				Um	iP 19 21 48.9
"	24	Up	iSgl 10 42 40.7			Ud	iP 19 22 19.7
		i	10 42 51.5			Japan (h = 70 km).	
		Ud	iPgl 10 41 19.5				
		iSgl	10 41 52.9				
		i	10 42 01.6				
		(cont.)					

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

1971				1971					
Sep.	24	Ud	iPKP	19 38 47.1	Sep.	25	(cont.)		
		De	iPKP	19 38 58.4			Ki iSn	11 29 44.8	
		Tonga-Kermadec Islands					iSgl	11 30 02.1	
		(h = 430 km).					Um iSgl	11 31 27.2	
"	24	Um	iP	19 49 49.7			Northwest Russia-Norway		
		Ud	iP	19 50 19.8			border region,		
			i	19 50 30.9			69.4°N, 31.2°E.		
		Japan (h = 20 km).					Origin time = 11 27 51.		
							Explosion.		
"	25	Up	iPKP	03 42 23.7	"	25	Ud	iP	12 54 10.9
			i	03 42 40.0			Greece.		
		Sk	iPKP	03 42 16.3	"	25	Ki	iPKP	13 24 48.7
		Um	iPKP	03 42 11.5			Ud	iPKP	13 24 38.9
		Ud	iPKP	03 42 25.2			Chile (h = N).		
		De	iPKP	03 42 34.1					
		Kermadec Islands (h = 45 km).			"	25	Ki	iP	15 38 24.0
"	25	Up	iPKP	04 54 40.1			Um	iP	15 38 14.0
			ipPKP	04 55 11.6			Azores Islands (h = N).		
			iPP	04 55 42.4	"	25	Ud	iP	19 36 26.6
				micr sec			Yugoslavia-Albania.		
		PKP	Z'	0.1 1.3	"	25	Ki	eP	19 41 42
		PP	Z'	0.6 1.6			Um	iP	19 41 58.4
		Mx	E	3.4 18			Japan (h = 360 km).		
		Mx	N	6.0 17	"	25	Up	e(PKP)	22 36 39
		Mx	Z	3.6 18			Ki	iPKP	22 36 32.5
		Ki	iP	04 50 25.7			Sk	ePKP	22 36 42
			i	04 54 05.9			Um	iPKP	22 36 38.7
			iPKP	04 54 27.6			Ud	i(PKP)	22 36 39.5
			iPP	04 55 02.2				iPKP	22 36 48.6
				micr sec			De	iPKP	22 36 50.5
		P	Z'	0.3 1.5			Fiji Islands (h = 370 km).		
		PKP	Z'	0.1 1.1	"	25	Up	iPKP	01 51 51.7
		Mx	E	3.7 17				ipPKP	01 52 18.6
		Mx	N	5.9 18					micr sec
		Mx	Z	3.0 19				PKP	Z' 0.1 0.8
		Sk	iPKP	04 54 41.4			Ud	iPKP	01 51 53.5
			ipPKP	04 55 13.0				ipPKP	01 52 20.3
			iPP	04 55 39.9			De	iPKP	01 52 03.6
		Um	iPKP	04 54 34.8				ipPKP	01 52 31.9
			ipPKP	04 55 05.8			Tonga-Kermadec Islands.		
		Ud	iPKP	04 54 42.7			h = 100 km (Up,Ud,De).		
		De	iPKP	04 54 48.2	"	26	Ki	iP	03 32 56.9
			iPP	04 56 06.4					micr sec
		New Guinea.					P	Z'	0.1 0.7
		h = 120 km (Up,Sk,Um).					Sk	iP	03 33 18.6
		M = 6.3 (Up,Ki).					Um	iP	03 33 04.5
		M uncorrected for focal					Ud	iP	03 33 22.3
		depth.					Mindanao (h = 120 km).		
"	25	Sk	iP	10 38 40.5					
		Ud	iP	10 37 57.3					
		Italy (h = 20 km).							
"	25	Ki	iPn	11 28 55.8					
		(cont.)							

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1971

Sep. 26 Ki eSn 04 21 35
eSgl 04 21 56
Um iSgl 04 22 44.6
Probably northwest Russia.
Explosion.

" 26 Ud iP 04 30 11.0
Pakistan.

" 26 Ud iPKP 05 27 59.4
De iPKP 05 28 08.6
Fiji Islands (h = 620 km).

" 26 Up iP 05 49 22.0
micr sec
P Z' 0.1 1.2
Sk iP 05 50 02.2
Ud iP 05 49 29.5
De iP 05 48 53.5
Greece (h = 110 km).

" 26 Up iSgl 08 26 27.0
Ki ePn 08 22 11
iSn 08 23 10.0
iSgl 08 23 32.5
Sk eSgl 08 25 58
Um iSgl 08 24 24.1
Ud eSgl 08 26 58
Northwest Russia,
67.9°N, 34.3°E.
Origin time = 08 20 51.
Explosion.

" 26 Up iPKP 11 21 29.5 C
i 11 21 39.2
Ki iPKP 11 21 44.6 C
ipPKP 11 22 28.8
iSKP 11 24 48.4
micr sec
PKP Z' 0.3 1.1
Sk iPKP 11 21 34.7
Um iPKP 11 21 38.0 C
Ud iPKP 11 21 28.1
South Sandwich Islands,
h = 170 km (Ki).

" 26 Ki iP 15 38 25.1
micr sec
P Z' 0.1 1.0
Sk iP 15 38 47.0
Um iP 15 38 30.8
Ud iP 15 38 49.7
Talaud Islands (h = 50 km).

" 26 Up eSgl 15 47 52
Ki ePn 15 43 37
(cont.)

1971

Sep. 26 (cont.)
Ki iSn 15 44 34.4
iSgl 15 44 55.1
Sk eSgl 15 47 20
Um iSgl 15 45 44.6
Northwest Russia.
Origin time = 15 42 20.
Explosion.

" 26 Ud iP 16 38 44.8
Pamir.

" 26 Up iP 16 46 35.0 C
iPP 16 50 40.7
micr sec
P Z' 0.1 1.2
Mx E 1.1 22
Mx N 1.1 21
Mx Z 2.2 23
Ki iP 16 46 20.8
iPP 16 50 12
micr sec
P Z' 0.2 1.1
Mx E 1.4 18
Mx N 2.6 20
Mx Z 1.1 18
Sk iP 16 46 41.9
iPP 16 50 49.7
Um iP 16 46 25.9
iPP 16 50 21.8
Ud iP 16 46 43.7
iPP 16 50 54.8
De iP 16 46 49.2
Molucca Sea (h = 70 km).
m = 6.5, M = 5.7 (Up, Ki).

" 26 Up iP 17 07 43.5
Ki iP 17 07 52.4
Sk iP 17 08 11.1
Um iP 17 07 43.3
Ud iP 17 08 02.4
Pakistan.

" 26 Ki iP 23 55 54.4
Sk iP 23 56 11.6
Um iP 23 55 44.0
Ud iP 23 56 01.5
iPP 23 56 49.7
Hindu Kush.
h = 240 km (Ud).

" 27 Sk ePKP 02 40 05
Solomon Islands (h = 60 km).

" 27 Up iP 06 04 23.2 C
iS 06 07 49
(cont.)

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

1971				1971			
Sep.	27	(cont.)		Sep.	27		
		Up	micr sec			Up	iP 15 48 06.2
		P	Z' 1.7 0.5				iPcP 15 48 38.4
		Mx	E 27 9				micr sec
		Mx	N 32 8			Mx	Z 0.6 17
		Mx	Z 38 8			Ki	iP 15 47 15.0
		Ki	iP 06 02 52.3 C			Ud	iP 15 48 11.2
		iS	06 05 06			Kurile Islands (h = N).	
		e(P'P')	06 39 11	"	27	Ud	iSgl 16 09 22.4
			micr sec			De	iSgl 16 07 32.1
		P	Z' 5.4 0.5			Probably Baltic Sea, south of Sweden.	
		Mx	E 32 6			Explosion?	
		Mx	N 35 5				
		Mx	Z 28 6				
		Sk	iP 06 04 02.0 C	"	27	Up	iP 19 12 21.3 C
		iS	06 07 15.0				ipP 19 12 28.6
		Um	iP 06 03 30.7 C				iS 19 20 58
		iS	06 06 15				micr sec
		i(P'P')	06 39 05.2			P	Z' 0.5 1.8
		Ud	iP 06 04 33.5 C			Mx	E 24 19
		De	iP 06 05 06.2 C			Mx	N 25 20
		Novaya Zemlya.				Mx	Z 15 17
		m = 6.7, M = 6.2 (Up,Ki).				Ki	iP 19 11 35.8
		The relatively large M-value may be influenced by the fact that we are somewhat outside the range of validity of the surface-wave magnitude formula, concerning both distances and periods involved.					ipP 19 11 43.4
		Underground explosion. (P'P') at Ki,Um is interpreted as early arrivals of P'P'.					iS 19 19 37
"	27	Ud	iP 10 17 07.9				micr sec
		Aleutian Islands (h = 70 km).				P	Z' 0.6 1.8
"	27	Up	ipKP 10 17 23.1			Mx	E 31 20
			micr sec			Mx	N 25 12
		PKP	Z' 0.1 0.8			Mx	Z 12 14
		Ud	ipKP 10 17 24.5			Sk	iP 19 12 12.6
		De	ipKP 10 17 34.5				ipP 19 12 19.7
		Tonga-Kermadec Islands (h = 120 km).		"	27	Um	iP 19 11 56.1
							iS 19 20 15
"	27	Ud	iP 19 12 28.2			Ud	iP 19 12 28.2
							ipP 19 12 35.8
						De	iP 19 12 45.6
						Sakhalin.	
						h = 25 km (Up,Ki,Sk,Ud).	
						m = 6.4, M = 6.6 (Up,Ki).	
"	27	Ud	iP 19 19 19.6			Sakhalin.	
"	27	Ud	iP 21 43 04.5 C			Sakhalin.	
"	27	Up	i(P'P) 22 39 04.0				
			micr sec			Mx	E 4.7 22
		Mx	N 6.0 22			Mx	Z 6.7 24
		Mx	Z 6.7 24			Ki	micr sec
							E 6.8 20
							N 5.9 18
							Z 6.8 19
						(cont.)	

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

1971				1971		
Sep.	27	(cont.)		Sep.	28	(cont.)
		Sk e(PP)	22 39 11			Off coast of Bohuslän, Sweden. Explosion.
		De ePKP	22 38 45			
		Bismarck Sea (h = N). M = 6.4 (Up,Ki). (PP) at Up,Sk denotes early arrivals of PP.		"	28	Ud iPgl 14 37 01.6 iSgl 14 37 35.5 i 14 37 42.1
"	28	Up iP	05 15 40.6			De iPgl 14 37 03.0 iSgl 14 37 33.4
			micr sec			Off coast of Bohuslän, Sweden, 58.2°N, 10.8°E. Origin time = 14 36 18. Explosion.
		Mx E	0.7 14			
		Mx N	0.8 11			
		Mx Z	1.0 11			
		Ki	micr sec			
		Mx E	0.4 12			
		Mx N	0.7 14	"	28	De iPgl 14 37 10.9 iSgl 14 37 40.6
		Sk eP	05 16 15			Off coast of Bohuslän, Sweden. Explosion.
		Um eP	05 16 04			
		Ud iP	05 15 47.5			
		i	05 15 51.6			
		De eP	05 15 20			
		Turkey (h = 35 km). M = 4.6 (Up,Ki).		"	28	Ud iPgl 14 37 16.2 iSgl 14 37 50.9 i 14 37 57.4
"	28	Up iP	12 26 53.0			De iPgl 14 37 17.7 iSgl 14 37 47.7
		Ki iP	12 26 24.7			Off coast of Bohuslän, Sweden, 58.2°N, 10.6°E. Origin time = 14 36 32. Explosion.
		Sk iP	12 26 50.3			
		Um iP	12 26 36.4			
		Ud iP	12 26 59.4			
		Volcano Islands (h = 250 km).				
"	28	Ud iP	14 24 29.0	"	28	Ud ePgl 14 37 30 iSgl 14 38 04.6 i 14 38 13.7
		Japan (h = 45 km).				De iPgl 14 37 24.4
"	28	Ud iPgl	14 29 26.1			Off coast of Bohuslän, Sweden. Explosion.
		iSgl	14 29 59.5			The phase arriving in average 7.8 sec after Sgl at Ud in these events, is probably a T-phase (TSgl).
		i	14 30 07.9			
		De iPgl	14 29 27.7			
		iSgl	14 29 57.2			
		Off coast of Bohuslän, Sweden, 58.2°N, 10.9°E. Origin time = 14 28 43. Explosion.		"	28	Ud iSgl 16 02 18.6
"	28	Ud iPgl	14 29 42.5			Southwest Norway. By combination with Kongsberg readings.
		iSgl	14 30 15.8			
		i	14 30 23.8			
		De iPgl	14 29 44.0			
		Off coast of Bohuslän, Sweden, 58.2°N, 10.9°E. Origin time = 14 29 00. Explosion.		"	28	Ki micr sec
						Mx N 1.2 19
						Mx Z 1.0 18
						Ud iPKP 20 04 08.0
						De iPKP 20 04 13.8
		Solomon Islands (h = N).		"	28	Um iPKP 21 57 47.1
"	28	Ud iSgl	14 30 39.4			South Sandwich Islands (h = N).
		i	14 30 47.8			
		De iSgl	14 30 37.5			
		(cont.)				

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

1971				1971					
Sep.	28	Ki	iPKP	23 34 38.6	Sep.	29	Up	iSgl	16 23 11.7
		Um	iPKP	23 34 36.3			Ud	iSgl	16 23 16.2
		Ud	iPKP	23 34 27.8			De	iPgl	16 21 11.8
			iPKKP	23 45 15.0				iSgl	16 21 29.3
		Chile-Argentina (h = 110 km).					Off coast of south Sweden, 55.5°N, 15.0°E.		
"	29	Ud	iP	03 21 18.3			Origin time = 16 20 50.		
		Aleutian Islands (h = 35 km).					Explosion.		
"	29	Up	iP	07 22 07.1	"	29	Um	iP	17 20 20.0
			i(S)	07 24 50.0					
			iLg2	07 26 22.1	"	29	Up	iSgl	20 10 14.8
		Ki	iP	07 23 42.1			Ki	iPgl	20 05 45.7
		Sk	iP	07 22 45.4				iSgl	20 06 08.9
		Um	iP	07 23 02.7					micr sec
		Ud	iP	07 22 09.4				Sgl	Z' 0.3 0.5
			iS	07 24 43.2			Sk	iSgl	20 08 59.3
		De	iP	07 21 16.1			Um	iSgl	20 08 07.8
			i	07 22 42.8			Ud	iS*	20 10 22.0
			iS	07 23 12.1				iSgl	20 10 30.0
			iLi	07 24 02.5			Finnmark, Norway, 69.3°N, 22.8°E.		
		Switzerland (h = 25 km).					Origin time = 20 05 16.		
"	29	Ki	ePn	11 55 55	"	29	Up	eP	21 07 32
			iSn	11 56 51.0			Sk	iP	21 08 14.5
			iSgl	11 57 13.1			Um	i(Pn)	21 08 37.1
		Um	eSgl	11 58 08			Ud	iP	21 07 42.0
		Ud	eSgl	12 00 40			De	iP	21 07 06.4
		Northwest Russia.					Greece (h = 40 km).		
		Origin time = 11 54 41.							
		Explosion.							
"	29	Um	iSgl	12 43 02.1	"	30	Up	iP1	08 30 28.9
		Ud	eSgl	12 43 46				iP2	08 30 34.4
"	29	Up	iP	15 58 14.8 C				iPP	08 33 44.1
				micr sec				iS	08 40 52
			P	Z' 0.1 1.1					micr sec
		Ki	iP	15 57 19.6				P1	Z' 0.2 1.6
				micr sec				P2	Z' 1.7 2.2
			P	Z' 0.1 0.8				Mx	E 15 18
		Sk	iP	15 57 56.5				Mx	N 23 18
		Um	iP	15 57 45.6				Mx	Z 29 19
			iPcP	15 58 39.8			Ki	eP1	08 30 04
		Ud	iP	15 58 17.6				iP2	08 30 09.1
		De	iP	15 58 40.1					micr sec
		Kamchatka (h = N).						P2	Z' 0.5 1.6
		m = 6.0 (Up, Ki).						Mx	E 45 16
								Mx	N 30 16
								Mx	Z 34 16
"	29	Up	iSgl	16 23 05.3			Sk	eP1	08 30 03
		Ud	iSgl	16 23 08.3				iP2	08 30 10.8
		De	iPgl	16 21 05.5			Um	iP1	08 30 18.8
			iSgl	16 21 22.4				iP2	08 30 24.5
		Off coast of south Sweden, 55.5°N, 15.0°E.						iS	08 40 35
		Origin time = 16 20 44.					Ud	iP1	08 30 18.6
		Explosion.						iP2	08 30 22.1
							De	iP1	08 30 35.8
							(cont.)		

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

1971					1971				
Sep.	30	(cont.)			Sep.	30	(cont.)		
		De	iP2	08 30 40.2			Sk	iP	21 34 49.6
				Gulf of California				ipP	21 34 55.9
				(h = 35 km).			Um	iP	21 35 00.0
				m = 6.6, M = 6.9 (Up,Ki).				ipP	21 35 06.4
				The second phase is				iS	21 43 51
				considerably larger than			Ud	iP	21 34 29.0
				the first.				ipP	21 34 35.2
"	30	Ud	iP	08 37 32.0			De	iP	21 34 06.9
				Japan.				ipP	21 34 13.2
"	30	Ud	iP	08 51 18.9					Atlantic Ocean,
				Turkey (h = N).					h = 25 km (Up,Ki,Sk,Um,Ud,
"	30	Up	iP	12 03 32.6					De).
		Ki	eP	12 02 41					m = 6.4, M = 5.9 (Up,Ki).
		Ud	iP	12 03 33.3	"	30	De	iPKP	21 37 56.0
				Aleutian Islands (h = 40 km).					Tonga-Kermadec Islands
"	30	Up	iP	12 51 19.3					(h = 590 km).
			i	12 51 22.9	"	30	Up	iP	21 40 25.4
		Ki	iP	12 50 52.6				i	21 40 44.3
		Um	iP	12 50 59.5					micr sec
		Ud	iP	12 51 34.0				P	Z' 0.3 0.9
			i	12 51 38.4			Ki	iP	21 39 29.3
		De	iP	12 51 44.7					micr sec
			i	12 51 49.4				P	Z' 0.1 0.9
				USSR-Mongolia.			Sk	iP	21 40 12.0
"	30	Up	iP	14 25 52.2			Um	iP	21 39 55.4
		Ud	iP	14 25 39.6			Ud	iP	21 40 32.3
"	30	Up	iP	20 38 58.6			De	iP	21 40 54.9
		Ki	iP	20 39 04.7					Eastern Siberia (h = N).
		Sk	iP	20 38 44.4					m = 5.9 (Up,Ki).
		Um	iP	20 39 05.4	"	30	Ki	iP	21 49 36.1
		Ud	iP	20 38 46.7					South China Sea.
				Virgin Islands (h = 150 km).					
"	30	Up	iP	21 34 33.0 C					
			ipP	21 34 39.0					
			iPcP	21 35 09.9					
			iS	21 42 57					
				micr sec					
		P	Z'	0.4 1.3					
		Mx	E	4.4 18					
		Mx	N	5.1 18					
		Mx	Z	6.8 18					
		Ki	iP	21 35 23.3					
			ipP	21 35 29.0					
			iS	21 44 32					
				micr sec					
		P	Z'	0.5 1.4					
		Mx	E	5.5 20					
		Mx	N	7.3 22					
		Mx	Z	3.8 17					
				(cont.)					

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February 28, 1974

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

1971						1971				
Oct.	2	Up	iP	19 54 32.7		Oct.	3	Up	iP	17 13 39.1
		Ki	eP	19 53 44				Ki	iP	17 13 27.7
		Um	iP	19 54 07.0				Um	iP	17 13 35.1
		Ud	iP	19 54 38.2				De	iP	17 13 37.7
		Kurile Islands						Gulf of Campeche		
		(h = 100 km).						(h = 40 km).		
"	3	Um	iP	07 49 57.1		"	3	Ki	eP	17 25 16
		Ud	iP	07 49 41.8				Um	iP	17 24 42.8
		De	iP	07 49 05.6				Ud	iP	17 24 25.1
		Turkey (h = 25 km).						Turkey (h = 25 km).		
"	3	Up	iPKP	08 54 43.2		"	3	Um	e(P)	19 03 00
			iPKKP	09 05 07.1				Luzon (h = 15 km).		
		Ki	iPKP	08 54 34.3		"	3	Ud	eP	22 04 31
		Sk	ePKP	08 54 44				Kamchatka (h = N).		
			iPKKP	09 05 13.5		"	3	Up	iP	23 25 08.4
		Um	iPKP	08 54 37.7				Ki	iP	23 26 20.1
			iPKKP	09 05 18.1						micr sec
		Ud	iPKP	08 54 46.9				Mx	E	1.5 21
			iPKKP	09 05 00.7				Mx	N	0.6 14
		De	iPKP	08 54 52.4				Mx	Z	0.5 15
			iPKKP	09 04 53.0				Sk	eP	23 25 52
		Solomon Islands (h = 60 km).						Um	iP	23 25 46.7
		The epicentral distances						Ud	iP	23 25 21.6
		are close to those where						De	iP	23 24 48.8
		maximum PKKP-amplitudes						Crete (h = 40 km).		
		are to be expected,				"	4	Up	iP	01 45 27
		according to B. Gutenberg,							i(PKP)	01 49 14.6
		Trans. Amer. Geophys. Union,							iPKP	01 49 22.7
		vol. 32, pp. 373-390, 1951.							iPP	01 50 21
"	3	Up		micr sec						micr sec
		Mx	E	12 23				Mx	E	10 21
		Mx	N	16 20				Mx	N	12 22
		Mx	Z	24 20				Mx	Z	23 24
		Ki	iPKP	13 43 37.3			Ki	iP	01 45 01	
				micr sec				iPKP	01 49 06.9	
		Mx	E	24 23				iPP	01 49 39	
		Mx	N	33 23				iPKKP	01 59 58.9	
		Mx	Z	33 25						micr sec
		Sk	ePKP	13 43 49				Mx	E	24 22
		Um	iPKP	13 43 43.7				Mx	N	35 22
		Ud	ePKP	13 43 51				Mx	Z	32 23
		De	iPKP	13 44 02.2			Sk	iPKP	01 49 19.1	
		New Hebrides Islands					Um	iP	01 45 13	
		(h = 10 km).						i(PKP)	01 49 09.2	
		M = 6.9 (Up,Ki).						iPKP	01 49 17.2	
"	3	Um	iP	14 24 29.6				iPP	01 49 59	
		Japan (h = 70 km).						iPKKP	01 59 54.7	
"	3	Um	iP	14 51 57.7			Ud	i(PKP)	01 49 21.0	
		Ud	iP	14 52 10.0				(cont.)		

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1971				1971			
Oct.		(cont.)		Oct.		(cont.)	
	Ud	iPKP	01 49 25.6		Um	iP	16 48 19.1
		iPKKP	01 59 33.1		Ud	iP	16 47 32.2
	De	i(PKP)	01 49 22.9		Italy (h = N).		
		iPKP	01 49 31.8				
	Solomon Isländs (h = 70 km). M = 6.9 (Up,Ki).			"	4	Ud	iP 18 59 12.3
					Aleutian Islands (h = 45 km).		
"	4	Up	ePKP 07 55 18	"	4	Ud	iP 21 07 54.1
		Sk	iPKP 07 55 12.9		Hindu Kush. Intermediate depth.		
		Um	iPKP 07 55 02.5				
			i 07 55 06.5				
	Ud	iPKP	07 55 15.5	"	4	Up	i(P) 22 26 12.0
		i	07 55 19.5			Ki	iP 22 27 24.1
	Kermadec Islands (h = 70 km).					Sk	iP 22 26 38.3
					Italy (h = 45 km).		
"	4	Up	iP 10 03 25.8 C	"	5	Ki	iP 00 19 04.3
		iS	10 06 02.3			Ud	iP 00 20 00.4
	Sk	iP	10 03 47.5		Aleutian Islands (h = 20 km).		
		i	10 03 49.7				
		eS	10 06 57	"	5	Up	iP 01 49 54.5
	Um	iP	10 03 02.0			Ki	iP 01 48 52.2
		iS	10 05 21.0				i 01 48 54.8
		iLg1	10 06 28.0				micr sec
	Ud	iP	10 03 49.0			P	Z' 0.1 1.1
		i	10 03 50.8			Mx	E 0.4 13
		iLg1	10 08 44.6			Mx	N 0.6 15
	De	iP	10 04 06.8			Mx	Z 0.5 14
	Western Russia. Probably underground explosion.				Sk	iP	01 49 27.0
					Um	iP	01 49 23.2
"	4	Um	iP 11 18 29.0				i 01 49 25.9
		ipP	11 18 56.0		Ud	iP	01 49 53.2
	Ud	i(pP)	11 19 16.1		De	eP	01 50 32
	Mariana Islands. h = 100 km (Um).				Eastern Siberia (h = N).		
"	4	Up	iP 16 40 34.0 C	"	5	Ki	iP 01 50 08.7
		Ki	iP 16 41 51.5		Aleutian Islands (h = 50 km).		
		Sk	iP 16 41 23.4	"	5	Ud	iP 05 18 22.4
	Um	eP	16 41 16				
	Ud	iP	16 40 52.2	"	5	Ki	eSg1 11 58 51
	De	iP	16 40 19.8			Sk	iSg1 11 57 36.0
	Crete (h = 35 km).					Um	iPg1 11 56 39.0
"	4	Up	iP 16 47 34.0				iSg1 11 56 57.9
			micr sec		Ångermanland, Sweden, 63.0°N, 17.8°E. Origin time = 11 56 15.		
		P	Z' 0.1 1.0	"	5	Ki	iPKP 14 09 52.3
	Ki	iP	16 48 58.1		New Zealand (h = N).		
			micr sec	"	5	Ud	iP 16 57 23.1
		Mx	E 0.8 11				
		Mx	N 0.4 10				
		Mx	Z 0.3 8				
	Sk	iP	16 48 13.5				
	(cont.)						

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

1971				1971			
Oct.	5	Ki iP	17 28 56.2	Oct.	6	Um iP	23 21 45.7
		Ud iP	17 29 55.4			Turkey.	
		Kamchatka (h = 80 km).					
"	5	Up iP	18 39 05.8	"	6	Up iP	23 51 01.1
		Ki iP	18 39 40.0			iPP	23 52 36.5
		Um iP	18 39 17.2			Mx N	1.6 15
		Ud iP	18 39 18.8			Ki iP	23 51 07.3 C
		De iP	18 39 03.6			ipP	23 51 26.7
		Iran (h = 40 km).					micr sec
"	5	Um iP	18 58 36.9			P Z'	0.1 1.0
		Ud iP	18 58 13.5			Sk iP	23 51 25.7
		De eP	18 57 47			Um iP	23 50 58.1 C
		Turkey (h = 10 km).				ipP	23 51 19.8
"	5	Ud iP	22 19 13.0			iPP	23 52 34.2
		Okhotsk Sea (h = 400 km).				Ud iP	23 51 18.0 C
"	5	Up iP	22 51 58.5			De iP	23 51 18.4
		Ud iP	22 52 13.3			Tadzhik SSR.	
		Iran (h = 70 km).				h = 90 km (Ki,Um).	
"	6	Up iP	01 51 43.9	"	7	Up iSg1	09 34 33.0
		Um iP	01 52 15.8			Sk iSg1	09 35 44.1
		Ud iP	01 51 58.0			Um iSg1	09 36 24.4
		De eP	01 51 28			Ud iPg1	09 33 35.6
		Turkey (h = 20 km).				iSg1	09 33 57.2
"	6	Ud iP	02 21 40.4			De iSg1	09 34 13.8
		Kamchatka (h = 170 km).				Västergötland, Sweden,	
"	6	Ud iPKP	04 07 12.4			58.6°N, 13.0°E.	
		De iPKP	04 07 22.4			Origin time = 09 33 08.	
		Fiji Islands (h = 540 km).		"	7	Ki iP	11 04 41.7
"	6	Up ePKP	07 33 52			Molucca Passage	
		Um ePKP	07 33 45			(h = 50 km).	
		Ud iPKP	07 33 52.4	"	7	Sk iSg1	13 28 15.5
		Fiji Islands (h = 630 km).				Ud iSg1	13 27 52.8
"	6	Ki iSn	07 45 08.9			West coast of Norway,	
		eSg1	07 45 37			near Bergen.	
		Sk iSg1	07 44 13.2	"	8	Up iPKP	04 09 36.5
		Um iPg1	07 43 13.7				micr sec
		i(S*)	07 43 32.7			PKP Z'	0.1 0.7
		iSg1	07 43 36.7			Um iPKP	04 09 32.4
		iRg	07 43 43.7			Ud iPKP	04 09 38.0
		Off coast of Ångermanland,				De iPKP	04 09 49.0
		Sweden, 62.5°N, 18.0°E.				Tonga-Kermadec Islands	
		Origin time = 07 42 44.				(h = 90 km).	
"	6	Ud i(pP)	11 49 12.9	"	8	Up iP	05 15 56.3
		Aleutian Islands				Um iP	05 15 37.7
		(h = 140 km).				Ud iP	05 16 03.9
						South of Japan	
						(h = 490 km).	
"	8	Ud iP	05 57 27.5	"	8	Ud iP	05 57 27.5
		North Atlantic Ocean				(h = N).	

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

1971				1971					
Oct.	8	Ud	iP	14 41 40.6	Oct.	9	Up	iP	13 27 12.9 C
		Nevada.					i	13 27 17.8	
		Underground explosion.					ipP	13 27 36.7	
"	8	Up	i(PKP)	16 22 53.7			P	Z' 0.3 1.1	
			iPKP	16 23 06.7			Mx	E 0.7 18	
			iSKP	16 25 49.2			Mx	N 1.8 25	
			iPKS	16 26 38.8		Ki	iP	13 26 48.7 C	
				micr sec			i	13 26 54.0	
			PKP	Z' 0.2 1.2			ipP	13 27 11.5	
		Ki	iPKP	16 22 48.6				micr sec	
			iSKP	16 25 23.3			P	Z' 0.4 1.1	
				micr sec		Sk	iP	13 27 16.0	
			PKP	Z' 0.6 1.5			i	13 27 21.7	
		Sk	i(PKP)	16 22 50.6		Um	iP	13 26 56.6 C	
			iPKP	16 22 59.9			i	13 27 02.1	
			iSKP	16 25 42.3			ipP	13 27 18.6	
		Um	i(PKP)	16 22 46.0		Ud	iP	13 27 22.5	
			i(PKP)	16 22 52.5			i	13 27 28.1	
			iPKP	16 22 56.7			ipP	13 27 45.8	
			iPP	16 25 24.2				Formosa.	
			iSKP	16 25 36.8				h = 90 km (Up,Ki,Um,Ud).	
		Ud	i(PKP)	16 22 55.8				m = 6.1 (Up,Ki).	
			iPKP	16 23 06.2				Double P-phases, in average	
			iSKP	16 25 49.2				5.4 sec apart.	
			iPKS	16 26 42.0					
		Fiji Islands (h = 550 km).			"	9	Up	iP	21 42 35.3 C
"	9	Ud	iP	04 11 53.0			Ki	iP	21 42 12.4
		Tadzhik SSR.					Um	iP	21 42 22.5
"	9	Up	iP	06 09 49.2 C			Ud	iP	21 42 44.5
			iPn	06 10 53.3			Formosa (h = N).		
		Ki	iP	06 09 34.1 C	"	10	Up	iSn	05 30 29.9
				micr sec			i(Sg2)	05 30 41.4	
			P	Z' 0.2 0.5			Ki	i(Sg1)	05 32 16.4
		Sk	iP	06 10 05.5 C			Sk	iSg1	05 31 29.2
		Um	iP	06 09 34.7			Um	iPg1	05 29 42.8
		Ud	iP	06 10 05.2			iS*	05 30 08.6	
			iPn	06 11 15.3			iSg1	05 30 10.0	
		Kazakh SSR.				Ud	iPg1	05 30 21.7	
		Underground explosion.					iSg1	05 31 19.1	
"	9	Up	iP	11 15 56.6 C			Near west coast of Finland,		
				micr sec			62.0°N, 21.4°E.		
			P	Z' 0.2 0.9			Origin time = 05 29 08.		
		Ki	iP	11 15 12.9 C	"	10	Ud	iP	06 03 39.5
				micr sec			Tibet.		
			P	Z' 0.4 1.0	"	10	Um	eP	09 11 40
		Sk	iP	11 15 48.4 C			Ud	iP	09 11 31.4
		Um	iP	11 15 32.5 C			Caucasus.		
		Ud	iP	11 16 02.7 C	"	10	Up	iSg1	10 02 11.5
			ipP	11 16 31.7			Ki	eSg1	10 02 57
		Japan.					Sk	eSg1	10 03 23
		h = 120 km (Ud).					Um	iSg1	10 01 35.9
		m = 6.1 (Up,Ki).					(cont.)		

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

1971				1971			
Oct.	10	(cont.)		Oct.	11	(cont.)	
		Ud eSg1	10 03 12			Um iP	01 40 05.4
		Lake Ladoga.				Ud iP	01 40 37.0
		Explosion?				Kurile Islands	
						(h = 60 km).	
"	10	Ki iP	11 23 10.8	"	11	Ud iPKP	05 09 36.5
		Ud iP	11 22 41.5			Tonga Islands	
						(h = 180 km).	
"	10	Ki iP	13 34 03.2				
		i	13 34 26.6	"	11	Up eP	10 27 41
		Mexico (h = 70 km).				ipP	10 27 50.6
							micr sec
"	10	Up iP	16 21 17.6			pP	Z' 0.1 0.9
		Ki iP	16 20 31.9			Ki iP	10 27 06.1
		Ud iP	16 21 24.2				micr sec
		Kurile Islands.				P	Z' 0.1 1.0
"	10	Up iP	18 35 49.3			Um iP	10 27 22.7
		iX	18 36 09.3			ipP	10 27 31.9
			micr sec			Ud iP	10 27 51.9
		X	Z' 0.1 1.0			ipP	10 28 01.5
		Mx	E 1.4 15				Japan.
		Mx	N 5.0 20				h = 35 km (Up,Um,Ud).
		Mx	Z 2.2 15				m = 6.0 (Up,Ki).
		Ki iP	18 35 43.0	"	11	Ki iP	18 46 19.4
			micr sec			Ud iP	18 47 26.0
		Mx	E 2.0 15	"	12	Um iP	05 35 59.6
		Mx	N 3.4 17			ipP	05 36 16.4
		Mx	Z 2.0 14			Ud iP	05 36 28.9
		Sk iX	18 36 23.3				Japan.
		Um eP	18 35 39				h = 60 km (Um).
		iS	18 44 16	"	12	Up iP	09 57 35.0
		Ud iP	18 36 01.9				micr sec
		Burma (h = 35 km).				P	Z' 0.3 1.0
		M = 5.8 (Up,Ki).				Ki iP	09 57 23.5
"	10	Up eP1	18 43 28				micr sec
		iP2	18 43 29.9			P	Z' 0.5 1.1
		Sk iP2	18 44 14.1			Sk iP	09 57 16.5
		Um eP1	18 44 19			Um iP	09 57 32.2
		iP2	18 44 20.6			Ud iP	09 57 25.3
		Ud iP1	18 43 37.4				Mexico-Guatemala
		iP2	18 43 40.8				(h = 35 km).
		Greece (h = 100 km).					m = 6.6 (Up,Ki).
		Double B-phases, about 2.5		"	12	Up iP	11 48 40.0
		sec apart.				Ud iP	11 48 26.8
							Italy (h = 25 km).
"	10	Up iP	19 12 55.5 C	"	12	Up iP	16 08 49.4
		Ki iP	19 12 48.2			i	16 08 54.3
		Sk iP	19 13 11.3			Ki iP	16 08 31.5
		Ud iP	19 13 09.5 C				(cont.)
		Burma (h = 130 km).					
"	11	Ki iP	01 39 44.1				
		(cont.)					

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

1971		1971	
Oct. 12	(cont.)	Oct. 13	(cont.)
	Um iP 16 08 37.5	Up ipP 14 13 00.6	
	Ud iP 16 08 58.2	Ki iP 14 11 42.1 C	
	i 16 09 03.4	ipP 14 12 07.7	
	Luzon (h = 40 km).	Ud iP 14 12 36.4 C	
" 12	Ud iP 21 25 32.1	Aleutian Islands.	
	Ionian Islands.	h = 100 km (Up,Ki).	
" 13	Um iP 01 03 42.8 C	" 13 Up iPP 22 54 30.5	
	South of Japan	Ud iPP 22 54 16.8	
	(h = 25 km).	Chile-Bolivia	
		(h = 90 km).	
" 13	Um iP 02 05 29.3	" 14 Um iPKP 00 33 04.0	
	Mexico-Guatemala (h = N).	Ud iPKP 00 33 16.9	
" 13	Up iP 03 31 59.4	" 14 Up iP 07 59 16.7	
	micr sec	" 14 Up iP 09 20 52.6	
	P Z' 0.1 0.9	Ud iP 09 20 51.1	
	Ki iP 03 33 06.7 C	" 14 Ki ePn 11 25 42	
	Sk iP 03 32 39.4	i(S*) 11 26 25.1	
	Um iP 03 32 31.6 C	North Norway.	
	Ud iP 03 32 07.1 C	" 14 Up iP 13 05 54.3	
	Crete (h = 25 km).	ipP 13 06 12.6	
" 13	Ki iP 09 44 22.4	iS 13 14 30	
	North of New Guinea	micr sec	
	(h = 40 km).	P Z' 0.1 1.0	
" 13	Ki iPn 11 01 35.8	Mx E 2.2 17	
	iSn 11 02 34.2	Mx N 6.4 20	
	iS* 11 02 53.5	Mx Z 3.4 17	
	iSg1 11 02 57.1	Ki iP 13 05 47.4	
	Um iSg1 11 03 47.8	micr sec	
	Northwest Russia,	P Z' 0.1 1.0	
	67.8°N, 33.9°E.	Mx E 3.0 14	
	Origin time = 11 00 18.	Mx N 5.3 17	
	Explosion.	Mx Z 2.4 13	
" 13	Ki eP 12 04 05	Sk iP 13 06 09.5	
	North of New Guinea	Um iP 13 05 46.6	
	(h = N).	iS 13 14 18	
" 13	Ki iPn 12 04 59.8	Ud iP 13 06 07.2	
	iP* 12 05 08.0	De iP 13 06 09.9	
	iSn 12 05 46.3	Burma.	
	iSg1 12 06 03.2	h = 70 km (Up).	
	Um iSg1 12 07 34.0	m = 6.0, M = 5.8 (Up,Ki).	
	Northwest Russia-Norway	" 14 Up eP 21 18 37	
	border region,	Ki eP 21 17 44	
	69.6°N, 30.2°E.	Um iP 21 18 10.5	
	Origin time = 12 03 59.	Ud iP 21 18 36.4	
	Explosion.	De eP 21 18 58	
" 13	Up iP 14 12 35.1	Aleutian Islands	
	(cont.)	(h = 40 km).	

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

1971

Oct. 14 Um iP 21 21 53.1
Ud iP 21 22 22.9
Kodiak Island (h = 45 km).

" 14 Up iP 22 03 29.7 D
ipP 22 03 52.8
micr sec
P Z' 0.1 0.7
Ki iP 22 03 38.2 D
iPP 22 05 17.8
micr sec
Mx N 0.5 8
Sk iP 22 03 54.7 D
ipP 22 04 19.7
Um iP 22 03 27.9 D
ipP 22 03 52.2
Ud iP 22 03 46.6 D
ipP 22 04 10.6
iPP 22 05 27.9
De iP 22 03 43.1 D
ipP 22 04 07.3
Afghanistan-USSR.
h = 110 km (Up,Sk,Um,Ud,De).

" 14 Up micr sec
Mx E 8.1 20
Mx N 13 22
Mx Z 19 21
Ki iP 22 55 30.4
iPP 22 56 55
micr sec
Mx E 17 23
Mx N 31 20
Mx Z 11 20
Um iP 22 55 25.0
iPP 22 56 47.2
Ud iP 22 56 07.5
Bouvet Island (h = N).
M = 6.9 (Up,Ki).

" 15 Up iP 02 45 21.3
ipP 02 45 30.7
micr sec
P Z' 0.1 0.9
Ki iP 02 45 01.0
micr sec
P Z' 0.1 1.0
Sk iP 02 45 25.5
Um iP 02 45 07.7
ipP 02 45 15.7
Ud iP 02 45 31.0
ipP 02 45 40.7
Luzon.
h = 35 km (Up,Um,Ud).
m = 5.8 (Up,Ki).

1971

Oct. 15 Ki iP 03 52 28.9
Sk iP 03 52 43.0
Um iP 03 52 26.1
Ud iP 03 52 39.3
Sumatra (h = 190 km).

" 15 Up eP 08 24 12
Sk eP 08 24 45
Um iP 08 24 38.5
Ud iP 08 24 14.8
De iP 08 23 40.6
Crete (h = N).

" 15 Up i(PKP) 13 52 33.6
Sk ePKP 13 52 08
Um iPKP 13 52 13.4
Ud ePKP 13 52 25
South of Kermadec Islands.

" 15 Up iP 14 26 11.0
iPn 14 27 03.2
Ki eP 14 26 46
iPn 14 27 37.7
Sk eP 14 26 47
iPn 14 27 46.5
Um iP 14 26 20.5
iPn 14 27 13.0
Ud iP 14 26 25.0
i 14 26 27.9
De iP 14 26 15.0
Iran-USSR (h = 40 km).

" 15 Up iP 15 27 55.0
Japan.

" 15 Up iP 16 29 41.6 D
i 16 29 45.9
ipP 16 30 17.3
iPP 16 31 18.7
micr sec
P Z' 0.1 1.0
Ki iP 16 29 48.5 D
micr sec
P Z' 0.1 1.0
Sk iP 16 30 06.2
Um iP 16 29 39.1 D
ipP 16 30 14.5
Ud iP 16 29 57.9 D
i 16 30 02.2
ipP 16 30 34.3
De iP 16 29 55.0 D
iPP 16 31 37.9
Afghanistan-USSR.
h = 170 km (Up,Um,Ud).
m = 5.5 (Up,Ki).

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

1971				1971			
Oct. 15	Up	iP	17 13 41.4	Oct. 16	(cont.)		
		iPP	17 14 18.6		Solomon Islands		
	Ki	iP	17 14 17.3		(h = 80 km).		
	Sk	eP	17 14 17		M = 6.0 (Up,Ki).		
	Um	iP	17 13 53.2	" 16	Up	iP	05 47 38.4
	Ud	iP	17 13 58.6	" 16	Up	iP	06 19 10.5
	De	iP	17 13 48.2		Ki	eP	06 19 22
		Caucasus (h = N).			Um	eP	06 19 08
" 15	Up	iP	18 37 20.7			ipP	06 19 33.0
		ipP	18 37 33.0		Ud	iP	06 19 27.7
	Ki	eP	18 36 27		De	ipP	06 19 48.0
	Um	eP	18 36 53			Afghanistan-USSR.	
	Ud	iP	18 37 21.0			h = 120 km (Um).	
		ipP	18 37 33.2	" 16	Ki	iP	09 52 08.6
	De	eP	18 37 43		Ud	iP	09 51 12.4
		Aleutian Islands.			De	iP	09 50 39.9 C
		h = 45 km (Up,Ud).				Dodecanese Islands	
" 15	Up	iP	22 09 22.5			(h = 60 km).	
			micr sec	" 16	Ki	iP	22 08 04.3
	Mx	E	2.0 21			Ceram (h = 55 km).	
	Mx	N	1.9 21	" 16	Ud	iP	22 54 32.8
	Mx	Z	4.1 23			Japan.	
	Ki	iP	22 09 57.0	" 17	Up	ePKP	07 10 38
		iS	22 19 19			i	07 10 45.0
			micr sec		Ki	ePKP	07 10 20
	Mx	E	1.2 19		Sk	ePKP	07 10 33
	Mx	N	1.0 18		Um	iPKP	07 10 29.0 C
	Mx	Z	1.0 17			ipPKP	07 10 40.0
	Um	iP	22 09 46.6		Ud	iPKP	07 10 42.8
		ipP	22 09 53.5			i	07 10 45.4
		iS	22 18 46		De	iPKP	07 10 51.1
	Ud	iP	22 09 15.4			Kermadec Islands	
		ipP	22 09 23.4			(h = 45 km).	
	De	eP	22 09 06	" 17	Up	iSg1	08 35 28.6
		Atlantic Ocean.			Ki	iSn	08 32 15.1
		h = 30 km (Um,Ud).				iSg1	08 32 37.2
		M = 5.4 (Up,Ki).			Sk	eSg1	08 35 02
" 16	Up	iPP	05 35 12.9		Um	iSg1	08 33 27.8
		iPKKP	05 44 27.8		Ud	eSg1	08 36 03
			micr sec			Northwest Russia,	
	Mx	E	1.9 24			67.7°N, 33.8°E.	
	Mx	N	2.2 24			Origin time = 08 30 00.	
	Mx	Z	2.7 22			Explosion.	
	Ki	iPP	05 34 26.5	" 17	Ud	iP	15 52 59.5
			micr sec			Mariana Islands	
	Mx	E	5.6 23			(h = 90 km).	
	Mx	N	6.3 22				
	Mx	Z	4.5 23				
	Sk	e(PP)	05 34 57				
	Um	iPP	05 34 48.0				
	Ud	iPP	05 35 23.5				
	De	iPKP	05 34 11.4				
		(cont.)					

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

1971				1971			
Oct. 17	Sk	i	16 53 19.1	Oct. 19	(cont.)		
		i(Sg1)	16 53 49.0		Ki		micr sec
	Ud	i	16 53 19.6		P	Z'	0.2 1.0
		i(Sg1)	16 53 51.5		Sk	iP	11 13 10.0
		Southwest Norway.				ipP	11 13 19.6
" 17	Ki	iP	18 18 27.5 C		Um	iP	11 13 07.3
	Ud	iP	18 18 37.2			ipP	11 13 16.8
		Sumatra (h = N).			Ud	iP	11 13 33.1
" 18	Up	iPKP	04 04 17.0 C			ipP	11 13 42.7
		i	04 04 22.1		De	iP	11 13 55.8
			micr sec			ipP	11 14 05.0
		PKP	Z' 0.2 0.8			Aleutian Islands.	
	Ki	iPKP	04 03 53.8			h = 35 km (Up,Ki,Sk,Um,Ud,De).	
		i	04 04 02.6			m = 6.3 (Up,Ki).	
			micr sec	" 19	Ki	iP	13 55 45.2
		PKP	Z' 0.1 1.0		Sk	iP	13 56 18.5
	Sk	iPKP	04 04 10.9		Ud	iP	13 56 40.5
	Um	iPKP	04 04 05.5			Aleutian Islands	
	Ud	iPKP	04 04 19.1			(h = 60 km).	
		i	04 04 24.8	" 19	Ki	iP	15 07 15.7
	De	iPKP	04 04 27.4		Ud	iP	15 07 52.5
		i	04 04 38.9			Mariana Islands	
		Kermadec Islands				(h = 50 km).	
		(h = 360 km).		" 19	Up	iP	18 45 39.6
" 18	Um	iPKP	12 49 46.1		Um	iP	18 45 51.7
	De	iPKP	12 50 01.9			Indian Ocean (h = N).	
		Loyalty Islands		" 20	Um	iP	00 02 40.3
		(h = 60 km).		" 20	Ud	iPKP	07 46 42.0
" 18	Up	ePKP	13 14 56			Tonga-Kermadec Islands	
			micr sec			(h = 480 km).	
	Mx	E	1.5 20	" 20	Ud	iP	07 51 20.0
	Mx	N	2.1 20			Hindu Kush.	
	Mx	Z	3.3 20	" 20	Up	iP	08 52 13.5
	Ki	ePKP	13 14 43			i	08 52 27.6
			micr sec				micr sec
		Mx	E 1.9 18			P	Z' 0.2 0.9
		Mx	N 2.4 18			Mx	E 2.5 19
		Mx	Z 2.6 19			Mx	N 6.9 25
	Sk	iPKP	13 14 54.7			Mx	Z 4.6 20
	Um	iPKP	13 14 50.0		Ki	iP	08 51 51.3
	Ud	ePKP	13 14 51				micr sec
	De	iPKP	13 15 00.9			P	Z' 0.2 0.9
		Loyalty Islands				Mx	E 3.1 16
		(h = 70 km).				Mx	N 5.1 20
		M = 6.0 (Up,Ki).				Mx	Z 2.2 15
" 19	Up	iP	11 13 33.4		Sk	iP	08 52 17.8
		ipP	11 13 43.3		Ud	iP	08 52 23.0
			micr sec		De	iP	08 52 32.0
		P	Z' 0.2 1.1			(cont.)	
	Ki	iP	11 12 40.5			(cont.)	
		ipP	11 12 49.9				
		(cont.)					

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

1971				1971			
Oct. 20	(cont.) Formosa (h = 35 km). m = 6.2, M = 5.9 (Up,Ki).			Oct. 22	(cont.) Ural Mountains. m = 5.8 (Up,Ki). Probably underground explosion.		
" 20	De iPKP 14 44 28.3 New Britain (h = 130 km).			" 22	Ki iP 18 18 12.2 Mariana Islands (h = 20 km).		
" 20	Ki eP 17 23 50 Sk eP 17 23 54			" 22	Ki iPKP 20 57 29.1 Tonga Islands (h = 200 km).		
" 21	Up iP 06 09 49.4 iPn 06 10 51.0 Ki iP 06 09 33.7 iPP 06 10 47.5 P Z' 0.3 0.6 Sk iP 06 10 05.1 iPn 06 11 04.7 Um iP 06 09 34.6 Ud iP 06 10 05.9 Kazakh SSR. Underground explosion.			" 22	Ki iP 23 19 33.3 Sk iP 23 20 01.4 Alaska (h = 130 km).		
" 21	Up ePKP 07 03 45 Sk iPKP 07 03 39.1 Um iPKP 07 03 33.8 Ud iPKP 07 03 44.9 South of Kermadec Islands (h = N).			" 23	Up iP 00 52 41.0 Ki iP 00 51 49.7 Kurile Islands.		
" 21	Up iP 08 34 33.4 Ki iP 08 34 06.6 Sk eP 08 34 35 Um iP 08 34 18.6 Ud iP 08 34 43.2 Ryukyu Islands (h = 60 km).			" 23	Up ePKP 02 01 12 micr sec PKP Z' 0.1 1.1 Mx E 2.4 21 Mx N 2.4 17 Mx Z 3.7 21 Ki i(PKP) 02 01 02.9 iPKP 02 01 06.6 micr sec PKP Z' 0.1 1.0 Mx E 2.8 18 Mx N 3.0 20 Mx Z 3.3 20 Sk ePKP 02 01 13 Um iPKP 02 01 04.9 Ud iPKP2 02 01 26.9 C West of Macquarie Islands (h = N). M = 6.2 (Up,Ki).		
" 21	Ud iP 22 56 11.3 Crete (h = N).			" 23	Ki iPKP 03 02 12.6 i 03 02 17.3 Um iPKP 03 02 22.6 New Zealand.		
" 21	Ud iP 23 15 25.5 Central Russia.			" 23	Ki iP 05 49 29.1 ipP 05 49 41.4 Um iP 05 49 46.9 ipP 05 50 01.4 Ud iP 05 50 15.0 Japan. h = 50 km (Ki,Um).		
" 22	Up iP 05 04 57.2 iS 05 08 58.8 micr sec P Z' 0.6 1.1 Ki iP 05 05 08.5 C iS 05 09 25.2 micr sec P Z' 0.2 0.9 Sk iP 05 05 27.1 Um iP 05 04 52.3 C Ud iP 05 05 17.8 C iS 05 09 38.6 (cont.)						

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

1971				1971			
Oct. 23	Ud	iP	11 56 48.1	Oct. 24	(cont.)		
	De	eP	11 56 33		Up	micr	sec
	Iran (h = N).				Mx	E	12 18
" 23	Ki	iP	13 27 42.0		Mx	N	13 18
	Um	iP	13 27 59.2		Mx	Z	24 18
		i	13 28 08.7		Ki	iP	01 50 28.7
	Japan (h = 55 km).				iPP		01 54 05.6
" 23	Up	iP	22 46 59.0		iSKS		02 00 53
		iSKS	22 57 29.3			micr	sec
			micr sec		P	Z'	0.9 2.0
	Mx	E	11 17		Mx	E	15 18
	Mx	N	13 19		Mx	N	21 18
	Mx	Z	23 18		Mx	Z	15 18
	Ki	iP	22 46 32.3		Sk	iP	01 50 54.4
		i	22 46 45.4		Um	iP	01 50 39.0
		iSKS	22 56 55			iSKS	02 01 09
			micr sec		Ud	iP	01 51 04.3
	P	Z'	0.1 1.0		De	iP	01 51 13.0
	i	Z'	0.1 1.0		Mariana Islands (h = N).		
	Mx	E	17 18	" 24	Ki	iP	02 20 08.6
	Mx	N	22 18		Mariana Islands		
	Mx	Z	17 18		(h = 35 km).		
	Sk	iP	22 46 57.2	" 24	Up	iP	02 34 25.8
	Um	iP	22 46 42.4			iSKS	02 44 57.8
		iSKS	22 57 12				micr sec
	Ud	iP	22 47 05.7		P	Z'	0.1 1.3
	De	iP	22 47 17.8		Mx	E	3.9 17
	Mariana Islands				Mx	N	5.4 18
	(h = 30 km).				Mx	Z	10 19
	M = 6.7 (Up,Ki).				Ki	iP	02 34 00.3 C
" 23	Ki	i(PKP)	23 20 23.4				micr sec
		iPKP	23 20 32.2		P	Z'	0.3 1.1
			micr sec		Mx	E	5.0 18
		(PKP)	Z' 0.1 1.0		Mx	N	7.0 18
		PKP	Z' 0.2 1.5		Mx	Z	5.0 18
	Sk	ePKP	23 20 21		Sk	eP	02 34 29
	Um	i(PKP)	23 20 16.0		Um	iP	02 34 11.2 C
	South Sandwich Islands				Ud	eP	02 34 32
	(h = N).				De	eP	02 34 52
" 24	Ki	iP	00 31 07.1		Mariana Islands (h = N).		
	Mariana Islands				m = 6.3, M = 6.2 (Up,Ki).		
	(h = 40 km).			" 24	Up	iP	09 08 38.6
" 24	Ki	iP	01 49 53.8		Ki	iP	09 08 36.0
	Mariana Islands				Sk	iP	09 08 57.5
	(h = 45 km).				Um	iP	09 08 31.8
" 24	Up	iP	01 50 57.1		Ud	iP	09 08 52.9
		iPP	01 54 56.9		De	iP	09 08 53.1
		iSKS	02 01 27		Tibet (h = 45 km).		
			micr sec	" 24	Up	iSg1	10 26 42.7
	P	Z'	0.5 1.9		Ki	iPn	10 22 30.8
(cont.)						iSn	10 23 28.4
				(cont.)			

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

1971		1971	
Oct. 24	(cont.)	Oct. 25	(cont.)
	Sk iSg1 10 26 16.7		Ud iSg1 11 56 29.3
	Um iSn 10 24 09.7		De iSg1 11 54 38.7
	iSg1 10 24 43.9		Off coast of south Sweden, same focal area as for the preceding events.
	Ud iSg1 10 27 16.8		Explosion.
	Northwest Russia, 67.8°N, 33.8°E.		
	Origin time = 10 21 14.		
	Explosion.	" 25	Ki iP 16 01 05.2 Mariana Islands (h = 60 km).
" 24	Ud iP 22 35 56.8 Philippine Islands (h = 70 km).	" 26	Ki iP 10 08 06.0 micr sec P Z' 0.1 1.3 Ud iP 10 08 18.0 Java (h = 100 km).
" 25	Up iP 00 20 33.6 iPP 00 23 37.1 micr sec P Z' 0.5 0.8 Ki iP 00 20 01.3 micr sec P Z' 0.3 0.8 Sk iP 00 20 31.2 Um iP 00 20 14.5 Ud iP 00 20 41.0 De iP 00 20 52.9 South of Japan (h = 510 km). m = 6.0 (Up,Ki).	" 26	Ki iP 13 02 23.7 Um iP 13 02 43.6 Ud iP 13 03 14.3 ipP 13 03 31.8 De iP 13 03 33.5 Japan. h = 60 km (Ud).
" 25	Ud iP 00 53 22.7	" 26	Um iPKP 15 33 21.1 i 15 33 25.0 Chile (h = 45 km).
" 25	Up micr sec Mx E 3.6 23 Mx N 5.7 21 Mx Z 8.6 21 Ki iPKP 04 05 19.9 Um iPKP 04 05 31.2 Ud ePKP 04 05 38 New Hebrides Islands (h = 35 km).	" 26	Up iSg1 15 37 09.0 Sk iSg1 15 37 08.2 Ud eSg1 15 36 04 iSg2 15 36 09.4 De iSg1 15 36 20.3 Southwest Norway, 58.4°N, 6.7°E. Origin time = 15 34 03.
" 25	Up iSg1 11 56 02.5 Ud iSg1 11 56 06.8 De iPg1 11 54 02.8 iSg1 11 54 19.1 Off coast of south Sweden, 55.5°N, 15.0°E. Origin time = 11 53 43. Explosion.	" 26	Um iP 18 36 24.4 Japan (h = 270 km).
" 25	De iPg1 11 54 14.0 iSg1 11 54 31.8 Off coast of south Sweden, same focal area as for the preceding event. Explosion.	" 26	Ki iP 19 18 09.2 micr sec Mx E 0.8 18 Mx N 0.7 18 Mx Z 1.0 18 Mariana Islands (h = N).
" 25	Up iSg1 11 56 23.6 (cont.)	" 26	Up i(P) 20 17 28.0
		" 26	Up iP 20 18 22.8 Ki iP 20 17 49.6 C Um iP 20 18 03.5 C Ud iP 20 18 30.1 South of Japan (h = 410 km).
		" 26	Um iP 23 25 53.9 Ud eP 23 26 19 Japan (h = 60 km).
		" 26	Ud eP 23 53 23 Molucca Passage (h = 90 km).

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

1971

Oct. 27 Ki iP 01 46 39.7
Mariana Islands
(h = 55 km).

" 27 Up iP 02 46 58.9
micr sec
P Z' 0.1 1.1
Um iP 02 47 13.6
Ud iP 02 47 14.5

" 27 Up iP 09 39 29.9 C
micr sec
P Z' 0.1 1.0
Mx E 1.3 14
Mx N 1.4 20
Mx Z 3.2 17
Ki iP 09 39 10.4 C
micr sec
Mx E 2.7 14
Mx N 1.5 15
Mx Z 2.0 14
Sk iP 09 39 35.1
Um iP 09 39 16.8 C
Ud iP 09 39 39.4 C
De iP 09 39 45.7 C
Luzon (h = 50 km).
M = 5.6 (Up,Ki).

" 27 Up eP 10 52 53
Ki iP 10 51 59.2
Um iP 10 52 27.6
Ud iP 10 52 56.2
De iP 10 53 18.4
Kamchatka (h = N).

" 27 Up iP 12 20 38.7

" 27 Ud iP 12 33 08.0
Japan (h = 50 km).

" 27 Ud iP 14 50 43.4

" 27 Up iP 18 14 32
e(PKP) 18 17 31
iPKP 18 17 47.0
iPP 18 19 55.0
iPKS 18 21 07.5
e 18 29 49
ePS 18 30 14
micr sec
PKP Z' 0.3 0.9
Mx E 44 23
Mx N 69 23
Mx Z 120 23
Ki iP 18 14 06
i(PKP) 18 17 26.0
(cont.)

1971

Oct. 27 (cont.)
Ki iPKP 18 17 30.0
iPP 18 19 11
iPKKP 18 27 19.1
ePKKS 18 30 56
micr sec
PKP Z' 0.9 1.0
Mx E 64 22
Mx N 72 22
Mx Z 51 23
Sk i(PKP) 18 17 33.5
iPKP 18 17 41.8
iPKS 18 21 05.1
Um iP 18 14 19
i(PKP) 18 17 22.8
iPKP 18 17 36.8
iPP 18 19 36
iPKKP 18 27 06.6
iPKKS 18 30 45.1
Ud i(PKP) 18 17 34.4
iPKP 18 17 48.4
iPP 18 20 03.5
iPKS 18 21 10.6
iPKKS 18 30 36.5
De i(PKP) 18 17 38.4
i 18 17 43.6
iPKP 18 17 53.7
iPKS 18 21 21.4
i 18 29 42.9
iPKKS 18 30 18.0
New Hebrides Islands
(h = 40 km).
M = 7.4 (Up,Ki).

" 27 Up iP 22 01 59.1
Ki iP 22 01 46.7
Sk iP 22 01 40.8
Um iP 22 01 53.5
De iP 22 01 59.9
ipP 22 02 21.2
Mexico.
h = 80 km (De).

" 28 De iPKP 01 13 07.1
ipPKP 01 13 25.9
New Ireland.
h = 70 km (De).

" 28 Up eP 02 41 38
Ki eP 02 41 24
Um iP 02 41 26.5
Ud iP 02 41 47.0
Talaud Islands
(h = 90 km).

" 28 Ud iP 07 41 07.4
Kurile Islands.

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

1971				1971			
Oct. 28	De	iPKP	10 28 35.4	Oct. 28	(cont.)		
		New Britain (h = 40 km).			Ki	i(P)	15 28 45.8
"	28	Um	iSg1 11 51 50.7			ePKP	15 32 07
"	28	Ud	iPKP 12 13 05.0			epPKP	15 32 42
		De	iPKP 12 13 16.3			i	15 33 06.8
		Fiji Islands (h = 260 km).					micr sec
"	28	Up	iP 13 38 11.6		Sk	Mx E	12 20
			iPn 13 39 23.3			Mx N	21 22
			iPP 13 39 35.0			Mx Z	9.6 18
			micr sec		Um	ePKP	15 32 14
		P	Z' 0.3 1.5			i	15 34 20.3
		Mx	E 4.3 8		Ud	iPKP	15 32 06.5
		Mx	N 4.9 8			ipPKP	15 32 45.2
		Mx	Z 6.6 10			iPKKP	15 43 23.6
	Ki		micr sec		Ud	i(P)	15 29 19.6
		Mx	E 4.7 9			iPKP	15 32 17.7
		Mx	N 11 9			iPP	15 33 44.8
		Mx	Z 4.2 9		De	iPKKP	15 43 09.0
	Sk	iP	13 38 34.9 C			i(PKP)	15 32 18.4
	Um	iP	13 38 05.8 C			iPKP	15 32 20.9
		iPP	13 39 34.0			ipPKP	15 33 00.2
	Ud	iP	13 38 28.8 C			iPKKP	15 43 04.8
	De	iP	13 38 28.2 C				New Ireland.
		Kirghiz SSR (h = 20 km).					h = 140 km (Up,Ki,Um,De).
		M = 5.8 (Up,Ki).					M = 6.6 (Up,Ki).
"	28	Ud	iP 13 51 45.3				Phases tentatively marked
		Kirghiz SSR.					(P) would fit pP better.
"	28	Um	iP 14 16 14.9	"	28	De	iP 15 46 23.9
"	28	Up	iPKP 14 39 32.6	"	28	Up	eP 15 57 32
			iPKS 14 42 55.0			Kirghiz SSR.	
	Ki	iPKP	14 39 17.9	"	28	Ud	iP 16 21 22.7
	Sk	iPKP	14 39 29.9 C			Hindu Kush.	
	Um	iPKP	14 39 24.3	"	28	Up	iPKP 18 19 02.9
	Ud	iPKP	14 39 34.9 C				iPP 18 21 10
		iPKS	14 42 56.4				i 18 21 31.1
		i	14 43 03.0				iPKS 18 22 22
	De	iPKP	14 39 42.0				micr sec
		iPKS	14 43 08.2			Mx E	11 22
		i	14 43 22.0			Mx N	18 21
		New Hebrides Islands				Mx Z	31 22
		(h = N).			Ki	iPKP	18 18 50.8
"	28	Up	e(P) 15 29 11				micr sec
			iPKP 15 32 15.6			Mx E	12 18
			ipPKP 15 32 52.9			Mx N	13 21
			iPKKP 15 43 10.7			Mx Z	13 20
			i 15 45 48.9		Sk	iPKP	18 19 02.3
			micr sec		Um	iPKP	18 18 57.3
		Mx	E 8.5 22		Ud	iPKP	18 19 07.6
		Mx	N 13 23			iSKP	18 22 26.9
		Mx	Z 16 23		De	iPKP	18 19 13.1
(cont.)						iSKP	18 22 40.8
							New Hebrides Islands
							(h = N).
							M = 6.8 (Up,Ki).

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

1971					1971				
Oct. 28	De	iPKP	23 16 38.0		Oct. 29	Up	iP	14 16 58.7	
		New Britain (h = 55 km).					iPcP	14 17 30.7	
"	28	Ud	iP	23 21 30.4					micr sec
			Japan (h = 60 km).				PcP	Z' 0.1	1.0
"	29	Up	iPKP	01 02 35.4			Mx	E 0.7	18
			i	01 02 51.0			Mx	N 1.8	24
							Mx	Z 2.4	25
						Ki	eP	14 16 09	
									micr sec
			PKP	Z' 0.2 0.8			Mx	E 1.0	20
	Ki	e(PKP)	01 02 14				Mx	N 0.9	17
		iPKP	01 02 17.3				Mx	Z 0.9	20
	Sk	iPKP	01 02 29.2			Sk	eP	14 16 44	
		iSKP	01 05 10.3				i	14 16 48.5	
		e(SKKP)	01 13 04			Um	iP	14 16 31.0	
		i	01 13 22.8			Ud	iP	14 17 03.4	
	Um	iPKP	01 02 22.9				iPcP	14 17 33.2	
		iSKP	01 05 06.4			De	iP	14 17 23.5	
		i(SKKP)	01 13 18.9				ePcP	14 17 49	
	Ud	i(PKP)	01 02 34.5						Kurile Islands
		iPKP	01 02 37.5						(h = 100 km).
		ipPKP	01 04 58.5						M = 5.2 (Up,Ki).
		iSKP	01 05 17.3			"	29	Up	iP
		i(SKKP)	01 13 08.8					Ki	
	De	i(PKP)	01 02 41.4						17 25 48.6
		iPKP	01 02 46.1						micr sec
								Mx	E 0.9 14
								Mx	N 1.0 18
								Mx	Z 0.8 15
								Ud	eP 17 26 07
								De	iP 17 26 06.7
									Tibet (h = N).
"	29	Ud	iP	07 18 52.9		"	29	Um	iPKP
			Kurile Islands.						20 23 46.2
"	29	Ud	iSg1	11 14 45.2					New Hebrides Islands
		De	iPg1	11 12 43.3					(h = 25 km).
			i	11 12 53.8		"	29	Up	
			iSg1	11 12 57.9					micr sec
			iRg	11 13 04.9				Mx	N 0.8 17
								Mx	Z 1.1 17
								Sk	ePKP 20 26 13
								Um	iPKP 20 26 07.8
								Ud	iPKP 20 26 17.8
									New Hebrides Islands
									(h = N).
"	29	Um	i(Sg1)	12 35 13.1		"	29	Um	iP
"	29	Up	iSn	12 43 19.6				Ud	i(pP)
			iSg1	12 43 32.6					20 37 33.5
		Um	iSg1	12 44 06.8					Japan (h = 50 km).
		Ud	eSg1	12 44 33		"	29	Um	eP
		De	iSg1	12 45 00.5					20 44 03
			Esthonia, 59.4°N, 25.3°E.						i(pP) 20 44 10.0
			Origin time = 12 41 29.						Haiti (h = N).
			Explosion.		"	29	Ki	iPKP	23 28 20.2
"	29	Ud	iP	13 01 23.7			Sk	ePKP	23 28 31
			Luzon (h = 10 km).						(cont.)
"	29	Ki	eP	13 25 33					
		Ud	iP	13 26 27.0					
			Alaska (h = 140 km).						

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

1971

Oct. 29 (cont.)
Um iPKP 23 28 26.5
New Hebrides Islands
(h = 30 km).

" 30 Up i(S*) 06 15 15.2
iSg1 06 15 23.6
Sk e(Sn) 06 13 49
iSg1 06 13 59.0
Ud iSn 06 14 10.4
iSg1 06 14 25.5

Southwest Norway,
62.0°N, 7.5°E.
Origin time = 06 12 34.

" 30 Up iP 14 27 28.9
ipP 14 28 56.6
iS 14 36 36.5
P Z' 0.6 0.9
Sk iP 14 27 25.7
iPP 14 30 18.9
Um iP 14 27 09.5
iS 14 35 58
isS 14 38 33
Ud iP 14 27 36.5 D
ipP 14 29 06.5
iPP 14 30 35.0
iS 14 36 50.7
De iP 14 27 48.7
iS 14 37 17.6

South of Japan.
h = 390 km (Up,Um,Ud).

" 30 Um iPKP 16 50 06.4
New Hebrides Islands
(h = 120 km).

" 30 Up iP 21 00 37.9 C
micr sec
P Z' 0.2 1.3
Mx E 2.6 22
Mx N 6.0 22
Mx Z 8.4 15
Ki micr sec
Mx E 8.1 12
Mx N 4.7 12
Mx Z 5.9 12
Sk eP 21 00 43
Um iP 21 00 22.9
De iP 21 00 55.7
Formosa (h = 35 km).
M = 6.2 (Up,Ki).

" 30 Sk ePKP 22 54 19
ipPKP 22 54 29.2
(cont.)

1971

Oct. 30 (cont.)
Um iPKP 22 54 15.0
ipPKP 22 54 24.3
Ud iPKP 22 54 34.2
ipPKP 22 54 44.9
New Hebrides Islands.
h = 35 km (Sk,Um,Ud).

" 30 Up iPKP 23 18 28.6
Sk ePKP 23 18 23
Um iPKP 23 18 17.0
i 23 18 21.0
Ud iPKP 23 18 29.9
i 23 18 34.5
De iPKP 23 18 38.8

" 31 Up iP 05 26 39.2 C
Sk iP 05 26 20.9 C
Um iP 05 26 35.8
Ud iP 05 26 29.0
i 05 26 38.4
Mexico (h = 90 km).

" 31 Um iP 09 15 11.9
i 09 15 15.9

" 31 Up iPKP2 12 30 26.9 C
micr sec
PKP2 Z' 0.1 1.0
Ki iPKP 12 29 53.4 C
micr sec
PKP Z' 0.3 1.0
Um iPKP 12 30 01.9 C
Ud iPKP 12 30 11.9
iPKP2 12 30 30.6
De iPKP2 12 30 43.9 C
New Zealand (h = 90 km).

" 31 Um iPKP 15 13 34.5
iPP 15 14 27.4
Solomon Islands
(h = 120 km).

" 31 Up iP 16 04 48.4 C
ipP 16 04 54.6
Sk iP 16 05 05.2
Um iP 16 04 41.3
Ud iP 16 05 01.5 C
ipP 16 05 08.1
De iP 16 05 03.0
India.
h = 25 km (Up,Ud).

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February 28, 1974

SEISMOLOGICAL INSTITUTE
BOX 517
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SWEDEN

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ,

UDDEHOLM and DELARY

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

NOVEMBER 1 - 30, 1971

1971	Nov. 1	Up	iP	05 37 50.0	1971	Nov. 3	Ki	iSg1	15 35 24.6	
			ipP	05 37 57.7					Southwest Norway.	
				micr sec		"	4	Ki	iP	04 18 27.1
			Mx	E 1.9 13				Sk	iP	04 18 30.7
			Mx	N 1.0 12				Um	iP	04 18 09.7
			Mx	Z 3.8 12						Iran (h = 50 km).
		Ki	iP	05 37 35.3		"	4	Up	iP	14 31 07.5 C
			ipP	05 37 40.3				Ki	eP	14 32 17
				micr sec				De	iP	14 30 41.5
			P	Z' 0.1 0.5						Crete (h = 30 km).
			Mx	E 1.2 12		"	4	Up	iP	20 22 49.1
			Mx	N 2.0 16						micr sec
			Mx	Z 1.0 14					P	Z' 0.1 1.0
		Sk	iP	05 38 05.0				Ki	eP	20 22 32
		Um	iP	05 37 35.9				Um	iP	20 22 36.7
		Ud	iP	05 38 05.2						China (h = 35 km).
		De	iP	05 38 11.8		"	5	Up		micr sec
				Sinkiang.				Mx	E	1.0 20
				h = 30 km (Up,Ki).				Mx	N	1.2 17
				M = 5.3 (Up,Ki).				Mx	Z	1.5 18
"	1	Ud	iP	09 40 01.3				Ki	eP	11 31 16
				Halmahera (h = 120 km).						micr sec
"	3	Up	iP	01 51 06.0				Mx	E	0.7 14
				micr sec				Mx	N	0.9 17
			P	Z' 0.1 0.9				Um	iP	11 30 54.3
		Ki	iP	01 50 44.9						Atlantic Ocean (h = N).
				Luzon (h = 70 km).						M = 5.2 (Up,Ki).
"	3	Ki	e(Pn)	10 26 35		"	5	Ki	iP	15 04 43.9
			i(Sn)	10 27 36.9				Sk	iP	15 04 49.3
				Probably northwest Russia.				De	iP	15 04 22.9
				Explosion?						Pakistan (h = N).
"	3	Up	iP	14 54 54.5		"	5	Up	iP	22 22 45.5
				micr sec						(cont.)
			P	Z' 0.1 0.9						
		Ki	iP	14 54 02.3						
				Kamchatka (h = N).						

May 1982

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

1971

Nov. 5 (cont.)
 Up ipP 22 23 02.7
 micr sec
 P Z' 0.6 1.2
 Mx E 1.0 20
 Mx N 1.4 20
 Mx Z 2.0 21
 Ki ipP 22 22 46.6
 micr sec
 P Z' 0.1 0.6
 Mx E 1.0 17
 Mx N 1.3 17
 Mx Z 0.9 16
 Sk ipP 22 23 02.3
 Um ipP 22 22 42.2
 ipP 22 22 57.3
 iS 22 32 06
 De ipP 22 22 55.3
 ipP 22 23 11.3
 Andaman Islands.
 h = 60 km (Up,Um,De).
 m = 6.3, M = 5.4 (Up,Ki).

" 5 Um ipP 22 44 59.4
 De ipP 22 44 42.6
 Iran.

" 6 Up ipP 00 10 16.5
 i 00 10 29.4
 Ki ipP 00 10 16.4 C
 micr sec
 P Z' 0.1 0.8
 Um ipP 00 10 13.1 C
 De ipP 00 10 21.1
 Sumatra (h = 290 km).

" 6 Sk ipP 04 37 47.2
 Kurile Islands.

" 6 Ki Mx 17 31
 micr sec
 Mx E 0.8 18
 Mx N 0.8 16
 Japan (h = 70 km).

" 6 Ki ipP 18 50 40.7

" 6 Sk ipP 18 52 32.3
 Japan.

" 6 Up ipP 19 48 53.8
 iS 19 52 50
 micr sec
 P Z' 0.1 0.8
 Mx E 1.1 12
 Mx N 1.8 13
 Mx Z 1.9 14
 (cont.)

1971

Nov. 6 (cont.)
 Ki ipP 19 49 50.8
 micr sec
 Mx E 1.6 13
 Mx N 1.5 15
 Mx Z 1.4 15
 Sk ipP 19 49 32.0
 Um ipP 19 49 16.1
 De ipP 19 48 23.7
 Turkey (h = 15 km).
 M = 5.0 (Up,Ki).

" 6 Up ipP 22 10 57.1 C
 i(P'P') 22 39 10.6
 i 22 39 17.8
 micr sec
 P Z' 2.6 1.0
 Mx E 2.3 20
 Mx N 2.7 19
 Mx Z 3.6 18
 Ki ipP 22 10 04.0 C
 i(P'P') 22 39 20.0
 i 22 39 28.9
 micr sec
 P Z' 1.9 1.4
 Mx E 2.8 18
 Mx N 4.5 18
 Mx Z 3.4 17
 Sk ipP 22 10 37.0 C
 i(P'P') 22 39 14.5
 i 22 39 20.7
 Um ipP 22 10 29.8 C
 i(P'P') 22 39 13.7
 i 22 39 19.5
 iP'P' 22 39 28.9
 De ipP 22 11 19.8 C

Aleutian Islands.
 m = 7.2, M = 5.7 (Up,Ki).
 Underground explosion
 "Cannikin".
 (P'P') arrivals are 12-16
 sec early and i 6-10 sec,
 when compared with P'P' in
 Gutenberg-Richter tables.

" 7 Ki eP 01 10 39
 Formosa (h = 140 km).

" 7 Ki eP 05 28 21
 Sk ipP 05 28 16.7
 Um ipP 05 28 31.9
 Guatemala (h = 90 km).

" 7 Up ipP 08 02 43.3
 Ki ipP 08 01 58.7
 (cont.)

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

1971									1971									
Nov.	7	(cont.)							Nov.	8	(cont.)							
		Sk	iP	08 02	37.6						Up			micr	sec			
		Um	iP	08 02	18.2						P	Z'	0.1	0.9				
		De	iP	08 02	59.6						Ki	iP	03 32	46.0				
		Japan (h = 80 km).									Sk	iP	03 32	45.1				
"	7	Ki	iP	11 13	28.6						Um	iP	03 32	23.7				
"	7	Ki	iP	11 21	49.1						De	iP	03 32	07.7				
		North Atlantic Ocean							"	8	Ki	Mx	12 33					
		(h = N).												micr	sec			
"	7	Ki	Mx	15 17								Mx	E	0.6	17			
												Mx	N	0.8	15			
												Mx	Z	0.9	17			
												Aleutian Islands.						
												Cannikin collapse.						
		Easter Island region							"	8	Up	iP	22 56	02.4				
		(h = N).												micr	sec			
"	7	Ki	iPKP	17 49	11.6 C							P	Z'	0.2	1.1			
		Sk	ePKP	17 49	22						Ki	iP	22 55	45.3				
		Um	iPKP	17 49	18.1									micr	sec			
		De	iPKP	17 49	34.7							P	Z'	0.3	1.0			
		New Hebrides Islands									Sk	iP	22 56	08.1				
		(h = 200 km).									Um	iP	22 55	50.6				
"	8	Ki	iP	00 10	44.2						Ud	iP	22 56	10.2 C				
		Greece.									De	eP	22 56	16				
											Mindanao (h = 160 km).							
											m = 6.3 (Up,Ki).							
"	8	Up	iP1	03 14	19.2				"	8	Up	ePn	23 26	23				
			iP2	03 14	21.3							iSn	23 27	38.3				
												iSg1	23 28	14.3				
											Ki	ePn	23 26	43				
												eSn	23 28	11				
												i	23 28	24.1				
												iSg1	23 28	51.2				
											Sk	iPg1	23 25	37.8				
												i	23 25	55.6				
												iSg1	23 26	25.5				
											Um	iPn	23 26	26.6				
												iSn	23 27	41.6				
												iSg1	23 28	15.2				
											Ud	iPn	23 25	58.8				
												i	23 26	23.7				
												iSn	23 26	56.1				
												iSg1	23 27	21.6				
											De	iSn	23 28	02.3				
												iS*	23 28	39.7				
												iSg1	23 28	47.5				
											Norwegian Sea,							
											63.1°N, 5.1°E.							
											Origin time = 23 24 43.							
"	8	Up	iP	03 32	11.0				"	9	Ki	iP	00 25	17.5				
		(cont.)									(cont.)							

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

1971				1971			
Nov. 9 (cont.)				Nov. 10 (cont.)			
	Ud	iP	00 24 57.8	Ki		micr	sec
	Iran (h = N).				Mx	N	1.4 23
"	9	Up	iP 03 51 30.6		Mx	Z	1.0 18
		ipP	03 51 43.3	Ud	iPKP		10 41 20.5
			micr sec	De	iPKP		10 41 28.1
		P	Z' 0.1 0.8	New Britain (h = 50 km).			
	Ki	iP	03 51 09.3	"	10	Ud	iP 11 06 02.6
		ipP	03 51 21.9	"	10	Ud	iP 15 00 36.3
			micr sec			De	iP 15 00 40.7
		pP	Z' 0.1 0.9	"	10	Ki	iP 15 32 35.4
	Sk	ipP	03 51 47.7			Um	i(P) 15 32 54.3
	Um	iP	03 51 17.2	Iceland (h = N).			
		ipP	03 51 29.8	"	11	Up	iP 04 51 31.6
	Ud	iP	03 51 40.4			Ud	iP 04 51 44.5
		ipP	03 51 52.7			ipP	04 51 59.5
	Luzon.					De	iP 04 51 45.4
	h = 45 km (Up,Ki,Um,Ud).			Burma.			
	m = 5.9 (Up,Ki).			h = 55 km (Ud).			
"	9	Ki	iP 09 09 22.1	"	11	Ud	iP 06 01 44.5
		Ud	iP 09 09 01.9	Kurile Islands.			
	Iran.			"	11	Up	iPKP 08 28 18.3
"	9	Up	iP 12 44 41.1				micr sec
			micr sec				PKP Z' 0.2 0.7
		P	Z' 0.1 0.9	Ud	iPKP		08 28 20.2
	Ki	iP	12 44 11.3	De	iPKP		08 28 29.8
	Sk	iP	12 44 42.3	Tonga-Kermadec Islands			
	Um	iP	12 44 23.8	(h = 440 km).			
	Ud	iP	12 44 48.7	"	11	Ki	iP 10 30 09.7
	De	iP	12 45 04.2			Ud	iP 10 30 59.3
	Ryukyu Islands (h = N).			Japan (h = 70 km).			
"	9	Ud	iP 21 59 55.5	"	11	Um	iPKP 18 52 27.8 D
"	10	Ki	iP 03 03 37.6	New Zealand (h = 110 km).			
	Japan (h = 45 km).			"	12	De	ePKP 05 20 02
"	10	Ki	iP 04 22 06.3	Fiji Islands (h = 360 km).			
	Iran.			"	12	Ud	iP 12 36 13.9
"	10	Ki	ePKP 06 30 53			De	iP 12 35 41.2
	New Ireland (h = 30 km).			Dodecanese Islands			
"	10	Ud	iP 07 48 52.9	(h = 25 km).			
	Mariana Islands			"	12	De	iPKP 18 48 56.3
			(h = 40 km).	"	12	Ki	iP 19 46 47.6
"	10	Um	iP 08 48 31.2			Ud	iP 19 47 42.8
		Ud	iP 08 49 04.3	Aleutian Islands			
	Japan (h = 5 km).			(h = 70 km).			
"	10	Ki					
			micr sec				
		Mx	E 1.4 18				
	(cont.)						

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

1971				1971			
Nov. 13	Um	iP	07 29 20.1	Nov. 16	Ki	iPn	11 04 02.3
		i	07 29 32.4			iSn	11 04 51.6
						iS*	11 05 04.9
" 13	Up	eP	15 56 45		Um	iSg1	11 06 33.2
		ipP	15 56 50.0		Northwest Russia-Norway border region. Explosion.		
			micr sec				
		pP	Z' 0.3 1.5				
	Ki	iP	15 57 34.4	" 16	Up	iPKP	19 18 42.2
		ipP	15 57 38.4		Ki	ePKP	19 18 21
			micr sec		Um	iPKP	19 18 32.0
		pP	Z' 0.4 1.8		Ud	iPKP	19 18 44.3
	Um	iP	15 57 08.8		South of Kermadec Islands (h = N).		
		ipP	15 57 12.4				
	Ud	iP	15 56 56.3	" 16	Um	iP	22 34 59.1
	Ethiopia.				Greenland Sea.		
	h = 15 km (Up,Ki,Um).						
	m = 6.1 (Up,Ki).						
" 14	Ud	e(Pg1)	11 58 35	" 17	Ki	ePn	11 26 03
		iSg1	11 59 10.0			iSn	11 26 50.8
	South Norway.					iSg1	11 27 07.8
	By combination with Bergen and Kongsberg readings.				Um	iSg1	11 28 28.2
" 14	Ud	iPKP	14 55 23.0		Northwest Russia-Norway border region. Origin time = 11 25 00. Explosion.		
	De	iPKP	14 55 34.9	" 17	Ki	eP	12 25 43
" 14	Um	iP	22 17 50.2		Ud	iP	12 26 12.5
" 15	De	iPKP	00 41 33.3		Iceland-Jan Mayen (h = N).		
	New Ireland (h = 60 km).			" 17	Ki	eP	16 23 58
" 15	Ud	iP	09 42 57.5		Um	iP	16 24 29.1
	Aleutian Islands (h = 55 km).			" 17	Um	iP	17 19 52.9
" 15	Ud	iP	12 45 46.2		Japan (h = 340 km).		
	Formosa (h = 55 km).			" 18	Ki	iP	03 47 03.6
" 15	Um	iP	21 50 11.0		Svalbard.		
	Ud	iP	21 50 50.1	" 18	Up	iP	07 38 44.6
	Japan (h = 55 km).					ipP	07 38 52.8
" 16	Up	iP	01 33 11.5			iPP	07 39 57.2
	Ki	iP	01 32 24.4				micr sec
	Um	iP	01 32 46.0			P	Z' 0.1 0.9
	Ud	iP	01 33 17.3			Mx	E 3.0 16
	Okhotsk Sea (h = 580 km).					Mx	Z 5.7 17
" 16	Um	iP	01 35 30.8		Ki	iP	07 38 56.9
" 16	Up	iP	10 07 40.7			ipP	07 39 05.5
		i	10 07 55.0			iPP	07 40 26.1
	Ud	iP	10 07 46.8				micr sec
	De	iP	10 07 15.7			pP	Z' 0.1 1.1
	South of Greece.					Mx	E 2.7 17
						Mx	N 1.6 17
						Mx	Z 3.4 17

(cont.)

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

1971				1971			
Nov. 20 (cont.)				Nov. 21 (cont.)			
	De	iP	16 02 23.5		Ki		micr sec
			Hindu Kush.		Mx	N	31 21
			Intermediate depth.		Mx	Z	27 20
"	20	Um	iP 16 59 06.5		Sk	iPKP	06 15 59.2
		Ud	iP 16 59 32.9			iPP	06 17 58.9
			Japan (h = 80 km).			i	06 29 08.2
"	20	Up	iP 21 35 42.7 C		Um	iP	06 12 27
			iS 21 44 45			i(PKP)	06 15 48.0
			micr sec			iPKP	06 15 54.6
		P	Z' 0.3 1.5			ipPKP	06 16 27.4
		Mx	E 2.0 18			iPP	06 17 36
		Mx	N 3.0 17			iPKKP	06 25 46.1
		Mx	Z 2.3 16		Ud	i(PKP)	06 15 57.2
	Ki	iP	21 34 57.6			iPKP	06 16 03.9
			micr sec			iPP	06 18 08.4
		P	Z' 0.3 1.8			i	06 28 50.6
		Mx	E 3.9 17		De	i(PKP)	06 16 04.2
		Mx	N 4.1 17			iPKP	06 16 09.5
		Mx	Z 3.4 17			iPP	06 18 27.6
	Sk	iP	21 35 14.5 C				Santa Cruz Islands.
	Um	iP	21 35 22.1 C				h = 120 km (Um).
		iS	21 44 09				m = 6.5, M = 7.3 (Up,Ki).
	Ud	iP	21 35 36.3 C				M uncorrected for focal
	De	iP	21 35 57.0 C				depth.
			Vancouver Island (h = N).	"	21	Ki	iP 06 26 27.3
			m = 6.2, M = 5.7 (Up,Ki).			Um	iP 06 26 17.2
"	20	Sk	ePKP 23 18 19			Ud	eP 06 26 23
		Um	iPKP 23 18 14.1				These phases belong
			New Hebrides Islands				possibly to the preceding
			(h = 35 km).				event (pPKP?).
"	20	Up	iP 23 49 53.5	"	21	Sk	ePKP 06 38 47
		Sk	eP 23 50 28			Um	iPKP 06 38 42.9
							Santa Cruz Islands
"	21	Up	iP 06 12 43				(h = 110 km).
			i(PKP) 06 15 56.5	"	21	Sk	ePKP 07 44 22
			iPKP 06 16 02.4			Um	iPKP 07 44 17.8
			iPP 06 18 04				Santa Cruz Islands
			i 06 28 42.4				(h = 110 km).
			micr sec	"	21	Um	iP 15 15 32.5
		PKP	Z' 0.3 1.6			Ud	iP 15 15 10.4
		PP	Z' 3.0 2.8				North Atlantic Ocean
		Mx	E 26 22				(h = N).
		Mx	N 69 30	"	22	Up	iP 00 56 57.7 C
		Mx	Z 76 22				ipP 00 57 09.5
	Ki	iPKP	06 15 48.5				micr sec
		iPP	06 17 10.5				P Z' 0.6 1.0
		i	06 29 15.1				Mx N 7.5 22
			micr sec				Mx Z 4.8 18
		PKP	Z' 0.5 1.3			Ki	iP 00 56 03.6 C
		PP	Z' 0.4 1.6				(cont.)
		Mx	E 40 23				
			(cont.)				

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

1971				1971			
Nov. 22	(cont.)			Nov. 22	Ki	iP	22 49 21.9
	Ki	ipP	00 56 15.7				micr sec
						Mx	E 1.0 20
		P	Z' 0.4 1.1			Mx	N 1.3 15
		Mx	E 5.8 18		Sk	iP	22 48 42.2
		Mx	N 6.4 20		Um	eP	22 49 10
		Mx	Z 4.7 19			iS	22 56 30
	Sk	iP	00 56 37.7		Ud	iP	22 48 39.1
	Um	iP	00 56 30.1 C		North Atlantic Ocean		
		ipP	00 56 41.6		(h = N).		
	Ud	iP	00 56 59.0 C	" 23	Ki	iPKP	00 30 44.7
	De	iP	00 57 21.3				micr sec
		ipP	00 57 33.5			PKP	Z' 0.1 1.0
	Aleutian Islands.				Um	iPKP	00 30 37.6
	h = 45 km (Up,Ki,Um,De).				South Sandwich Islands		
	m = 6.6, M = 5.9 (Up,Ki).				(h = 180 km).		
" 22	Up	iP	08 33 21.3	" 23	De	iPKP	09 29 35.2
			micr sec		Fiji Islands (h = 660 km).		
		P	Z' 0.1 1.0	" 23	Um	iP	10 26 53.2
	Ki	iP	08 33 05.5			epP	10 28 31
			micr sec		Ud	iP	10 27 18.7
		P	Z' 0.1 1.0		South of Japan.		
	Sk	iP	08 33 26.2		h = 450 km (Um).		
	Um	iP	08 33 10.4	" 23	Sk	iP	10 30 08.1
	Ud	iP	08 33 27.7	" 23	Ud	iPKP	10 30 25.7
	De	eP	08 33 34		New Britain (h = 50 km).		
	Celebes (h = 110 km).			" 23	Up	iP	17 50 35.5
	m = 6.3 (Up,Ki).				Sk	iP	17 50 46.3
" 22	Um	iP	12 44 53.4		Um	iP	17 50 22.7
	Yugoslavia.				China (h = N).		
" 22	Ki	iP	19 06 27.8	" 24	Up	iP	01 08 58.3 D
	Sk	iP	19 06 41.9			iPcP	01 09 24.8
	Um	iP	19 06 23.9				micr sec
	Ud	iP	19 06 36.9			P	Z' 0.1 0.8
	Sumatra (h = 55 km).				Ki	iP	01 08 10.4 D
" 22	Um	iP	19 31 21.4				micr sec
	Ud	iP	19 31 41.2			P	Z' 0.1 0.7
	Kashmir.				Sk	iP	01 08 45.8
" 22	Up	eP	19 32 11		Um	iP	01 08 32.4
			micr sec			iPcP	01 09 08.4
		Mx	E 1.2 20		De	iP	01 09 22.0 D
		Mx	N 0.8 18		Kurile Islands (h = 50 km).		
	Ki	iP	19 33 15.1		m = 6.1 (Up,Ki).		
			micr sec	" 24	Sk	iP	02 53 18.9
		Mx	E 0.7 14	" 24	Um	iP	03 54 50.2
	Sk	iP	19 32 48.9	" 24	Up	iP	04 45 23.4
	Um	eP	19 32 47		(cont.)		
	Ud	iP	19 32 18.1				
	De	iP	19 31 47.4				
		i	19 31 52.5				
	Dodecanese Islands						
	(h = 35 km).						
	M = 4.5 (Up,Ki).						

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

1971

Nov. 24 (cont.)
 Um iP 04 45 04.8
 South of Japan
 (h = 370 km).

" 24 Up iP 04 49 58.7
 Um iP 04 49 40.9
 Northeast of Formosa
 (h = 150 km).

" 24 Ki iP 07 20 50.9
 Sk iP 07 20 23.7
 Um iP 07 20 14.7
 Ud iP 07 19 52.9
 De iP 07 19 23.2
 Crete.

" 24 Ki iP 08 31 05.8
 micr sec
 P Z' 0.1 1.0
 Um iP 08 30 57.5
 Ud iP 08 31 17.1
 Tadzhik-Sinkiang (h = N).

" 24 Ki iPn 11 08 40.2
 iSn 11 09 39.2
 iS* 11 09 58.3
 Sk eSg1 11 12 28
 Um iSg1 11 10 53.3
 Ud eSg1 11 13 25
 Northwest Russia,
 67.7°N, 34.1°E.
 Origin time = 11 07 22.
 Explosion.

" 24 Up iP 19 45 49.1 C
 iS 19 54 11.3
 iP'P' 20 14 34.1
 micr sec
 P Z' 2.1 0.6
 Mx E 270 41
 Mx N 360 41
 Mx Z 570 40
 Ki iP 19 44 55.5 C
 iS 19 52 35
 iP'P' 20 14 45.6
 micr sec
 P Z' 5.4 0.6
 Mx E 290 30
 Mx N 420 42
 Mx Z 470 42
 Sk iP 19 45 32.5 C
 iS 19 53 55.4
 Um iP 19 45 21.0 C
 iP'P' 20 14 38.3
 (cont.)

1971

Nov. 24 (cont.)
 Ud iP 19 45 52.6 C
 iS 19 54 22.4
 iP'P' 20 14 37.2
 De iP 19 46 13.8 C
 iS 19 55 03.0
 iP'P' 20 14 37.3
 Kamchatka (h = 110 km).
 m = 7.5, M = 7.4 (Up,Ki).
 M uncorrected for focal
 depth.

" 24 Sk iP 20 22 45.3
 Mariana Islands.

" 25 Ki iSg1 10 36 55.1
 Sk eSg1 10 36 57
 Um iSg1 10 37 34.5
 Off coast of Nordland,
 Norway.

" 25 Ki ePn 10 48 15
 iSn 10 49 02.0
 iS* 10 49 14.6
 Northwest Russia-Norway
 border region.
 Explosion.

" 25 Ki iPn 10 49 53.2
 iSn 10 50 41.2
 iS* 10 50 54.4
 Northwest Russia-Norway
 border region.
 Explosion.

" 25 Up iP 11 09 26.4 C
 micr sec
 P Z' 0.2 0.9
 Ki iP 11 08 32.1 C
 ipP 11 09 09.1
 micr sec
 P Z' 0.3 1.0
 Sk iP 11 09 01.4
 Um iP 11 09 00.1
 ipP 11 09 36.8
 Ud iP 11 09 24.5 C
 ipP 11 09 59.7
 De iP 11 09 48.0 C
 ipP 11 10 26.4
 Alaska.
 h = 160 km (Ki,Um,Ud,De).
 m = 6.0 (Up,Ki).

" 25 Ki iPg1 13 47 11.1
 iSg1 13 47 28.0
 (cont.)

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

1971					1971				
Nov. 25	(cont.)				Nov. 27	Up	iP	03 59	14.1
	Ki		micr sec			Sk	iP	03 59	57.0
		Sg1	Z' 0.1 0.6			Um	iP	03 59	46.1
	Um	iSg1	13 48 28.7			Ud	iP	03 59	19.3
			Lapland, Sweden.			De	iP	03 58	55.0
			Origin time = 13 46 50.					Aegean Sea (h = 20 km).	
"	25	Up	iP	23 51 13.6 C	"	27	De	iP	11 08 14.5
			i	23 51 28.9				Hindu Kush.	
				micr sec				Intermediate depth.	
			P	Z' 0.1 1.0	"	27	Up	iP	13 56 49.7
		Ki	iP	23 50 26.7				micr sec	
		Sk	iP	23 50 51.9				P	Z' 0.1 1.1
		Um	i(P)	23 50 55.4				Mx	E 4.2 15
		Ud	iP	23 51 05.7 C				Mx	Z 7.0 15
				Vancouver Island (h = N).			Ki	eP	13 56 21
"	26	Up	eP	03 06 59			Um	iP	13 56 32.0
		Ki	iP	03 06 04.4				ipP	13 56 48.6
		Um	iP	03 06 29.2			Ud	iP	13 56 57.9
		Ud	iP	03 07 02.1			De	iP	13 57 09.1
				Kamchatka (h = N).				Ryukyu Islands.	
"	26	Ki	iP	10 56 49.5				h = 60 km (Um).	
		Sk	iP	10 57 01.3	"	27	Up	iP	18 51 32.1
		Um	iP	10 56 35.9			Ki	eP	18 50 56
		Ud	iP	10 56 48.7 C			Um	iP	18 51 11.6
				Pakistan.			Ud	iP	18 51 40.6
"	26	Um	i(P)	14 28 56.7				Japan (h = 90 km).	
"	26	Ki	iP	14 33 14.5	"	27	Um	iP	21 47 01.7
				Molucca Passage			Ud	eP	21 47 16
				(h = 100 km).			De	eP	21 47 34
"	26	De	iP	16 27 38.0	"	28	Up	iP	01 37 53.1
				Turkey (h = N).			Um	iP	01 37 51.2 C
"	26	Up	iP	23 12 44.5			Ud	iP	01 38 09.1
			i	23 12 53.4			De	iP	01 38 06.1
				micr sec				Hindu Kush.	
			P	Z' 0.1 1.0				Intermediate depth.	
		Ki	iP	23 11 25.1	"	28	Ki	i(Sg1)	06 41 21.7
				micr sec			Um	eSg1	06 41 22
			P	Z' 0.4 1.5				iSg2	06 41 28.8
		Sk	iP	23 11 59.4				Finland.	
		Um	iP	23 12 08.0	"	28	Um	iPKP	06 59 33.9
		Ud	iP	23 12 36.9			Ud	iPKP	06 59 46.0
		De	iP	23 13 14.9				South of Kermadec Islands.	
				Greenland (h = 20 km).	"	28	De	iPg1	07 36 44.8
				m = 5.3 (Up,Ki).				iSg1	07 36 58.5
"	27	Up	iPKP	03 46 06.8	"	28	Ud	ePKP	09 19 01
		Ud	iPKP	03 46 05.3				New Ireland (h = 90 km).	
				South Sandwich Islands					
				(h = 55 km).					

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1971

Nov. 28 Up ePKP 11 30 29
micr sec
Mx E 0.9 18
Mx N 1.2 17
Ki iPKP 11 30 34.2
Um iPKP 11 30 32.8
Ud iPKP 11 30 23.8
iPKKP 11 41 23.8
De iPKP 11 30 22.5
iPKKP 11 41 20.0
Chile-Argentina
(h = 110 km).

" 28 Ki iP 14 24 55.9
Mariana Islands
(h = 190 km).

" 28 Ud e(PKP2) 15 18 49
Macquarie Islands (h = N).

" 28 Up eP 17 58 46
Ki iP 17 57 55.3
Sk iP 17 58 32.4
Um iP 17 58 19.9
Ud iP 17 58 52.0
Kurile Islands (h = 90 km).

" 29 De i(P) 06 06 44.6

" 29 Up iP 06 09 52.4
iPn 06 10 58.4
micr sec
P Z' 0.1 0.8
Ki iP 06 09 37.7 C
micr sec
P Z' 0.2 0.6
Sk iP 06 10 08.6 C
Um iP 06 09 38.0
i 06 10 21.1
iPn 06 10 38.3
Ud iP 06 10 09.5 C
iPn 06 11 22.1
De iP 06 10 16.4 C
Kazakh SSR.
m = 6.0 (Up,Ki).
Underground explosion.

" 29 Ud iP 11 25 08.4
Aleutian Islands
(h = 50 km).

" 29 Sk e 14 54 09
i 14 54 13.7
iSg1 14 54 50.4
(cont.)

1971

Nov. 29 (cont.)
Ud iPg1 14 53 36.8
iSg1 14 54 35.5
iSg2 14 54 44.4
West coast of Norway, near
60.2°N, 4.9°E.
Origin time = 14 52 19.
By combination with Bergen
and Kongsberg readings.

" 29 Sk e 15 08 32
Ud iPg1 15 06 53.9
iSg1 15 07 54.0
iSg2 15 08 02.0
West coast of Norway.

" 29 Ki iP 18 55 31.8
Sk eP 18 54 45
Um iP 18 54 53.9
Ud iP 18 54 08.6
Italy (h = 15 km).

" 29 Up micr sec
Mx E 1.8 23
Mx Z 3.7 24
Ki micr sec
Mx E 2.3 23
Mx Z 2.1 21
Ud iP 20 27 55.8
Peru (h = 55 km).
M = 5.6 (Up,Ki).

" 30 Up iP 06 54 54.7 C
micr sec
P Z' 0.1 0.9
Ki iP 06 54 01.5
micr sec
P Z' 0.1 0.9
Sk eP 06 54 34
Ud iP 06 54 55.1
Aleutian Islands
(h = 45 km).
m = 6.0 (Up,Ki).

" 30 Um iP 07 59 41.8
Ud iP 08 00 14.7
Aleutian Islands
(h = 40 km).

" 30 Ki iP 15 56 07.7
Nevada (h = 40 km).

" 30 Up iSg1 16 09 59.2
Ki eSg1 16 12 32
(cont.)

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

1971

Nov. 30 (cont.)
Sk iSg1 16 11 50.2
Um iSg1 16 10 35.5
Ud iSg1 16 11 03.4
De iSg1 16 11 28.4
Esthonia, 59.5°N, 24.7°E.
Origin time = 16 08 06.
Explosion.

" 30 Ki iSg1 17 37 24.8
Sk iSg1 17 37 29.5
Um eSg1 17 37 55
Nordland, Norway.
Explosion.

Markus Båth
Ota Kulhánek
Klaus Meyer
Rutger Wahlström

March 1, 1974

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

Year	Month	Day	Station	Phase	Time	Distance (km)	Depth (km)	Notes
1971	Dec.	2	(cont.)					
			Ud	iP	18 36	48.2		Japan (h = 70 km).
"	"	2	Up	iP	19 10	05.9		Kurile Islands.
			Um	iP	19 09	40.4		
			Ud	iP	19 10	11.6 D		
"	"	2	Up	iP	23 17	13.9		Unimak Island (h = N).
			Um	iP	23 16	47.1		
			Ud	iP	23 17	12.1		
			De	eP	23 17	35		
"	"	3	Ud	iPKP	04 59	55.0		Aleutian Islands (h = 60 km).
			De	ePKP	05 00	05		
"	"	3	Ud	iP	05 01	46.7		
"	"	3	Ud	eP	07 38	19		
"	"	3	Up	iSgl	07 59	12.1		Bohuslän, Sweden, 58.2°N, 10.3°E. Origin time = 07 57 00. Explosion.
			Ud	iPgl	07 57	44.2		
				iSgl	07 58	18.2		
			De	iSgl	07 59	20.8		
"	"	3	Up	i(S*)	08 00	03.7		Bohuslän, Sweden, 58.2°N, 10.3°E. Origin time = 07 58 00. Explosion.
				iSgl	08 00	10.5		
			Ud	iPgl	07 58	44.8		
				iSgl	07 59	18.9		
			De	iSgl	07 59	20.8		
"	"	3	Up	iSgl	12 27	52.7		Esthonia, 59.7°N, 24.6°E. Origin time = 12 26 00. Explosion.
			Um	iSgl	12 28	26.3		
			Ud	iSgl	12 28	58.4		
			De	iSgl	12 29	25.2		
"	"	3	De	iP	13 00	29.3		
"	"	3	Up	i(Sgl)	13 34	42.2		Kurile Islands (h = N).
			Ud	i(Sgl)	13 35	28.4		
"	"	3	Up	iP	19 24	00.3		Kurile Islands (h = N).
			Ud	iP	19 24	05.9		
1971	Dec.	3	Ud	iP	20 35	26.6		Kurile Islands.
"	"	4	Ki	eP	02 24	11		North of Mariana Islands (h = 60 km).
			Sk	iP	02 24	37.1		
			Um	iP	02 24	23.8		
				i(PcP)	02 24	29.8		
			Ud	iP	02 24	46.7		
"	"	4	Up	iPP	02 45	39.7		Solomon Islands (h = 80 km). M = 6.6 (Up,Ki).
				PP	Z'	0.1 1.0		
				Mx	E	6.1 21		
				Mx	N	5.7 21		
				Mx	Z	11 21		
			Ki			micr sec		
				Mx	E	18 24		
				Mx	N	19 24		
				Mx	Z	19 25		
			Sk	ePKP	02 44	27		
			Um	ePP	02 45	14		
			Ud	ePKP	02 44	33		
			De	iPKP	02 44	34.7		
"	"	4	Up	iP	02 58	11.0		
"	"	4	Up	iP	08 47	41.0		Nepal (h = 30 km).
			Ud	eP	08 47	55		
			De	iP	08 47	55.6		
"	"	4	Ki	iP	16 08	32.2		Mindanao (h = 55 km).
						micr sec		
				P	Z'	0.2 1.1		
			Um	iP	16 08	38.3		
			Ud	iP	16 08	57.8		
"	"	4	Up	iP	16 12	27.2		Kurile Islands.
			Ud	iP	16 12	26.7		
"	"	4	Ud	iP	23 20	57.9		Crete (h = 45 km).
				i	23 21	03.0		
"	"	5	Up	ePKP2	02 49	28		New Zealand (h = 150 km).
			Um	iPKP	02 49	03.8		
			Ud	iPKP2	02 49	32.7		
"	"	5	Up	iP	06 01	05.4		(cont.)

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

1971

Dec.	5	(cont.)			
		Up	iS	06 10 06	
				micr sec	
			P	Z' 0.5 2.0	
			Mx	E 2.4 18	
			Mx	N 4.8 22	
			Mx	Z 7.9 23	
		Ki	iP	06 00 32.8	
				micr sec	
			Mx	E 6.4 19	
			Mx	N 14 22	
			Mx	Z 7.9 21	
		Sk	eP	06 00 42	
		Um	eP	06 00 45	
			iS	06 09 24	
		Ud	iP	06 00 57.8	
			i	06 01 08.6	
				Vancouver Island (h = 5 km).	
				M = 6.0 (Up,Ki).	
"	5	Ud	iP	06 23 40.3	
				Vancouver Island (h = 15 km).	
"	5	Up	iPKP	13 41 16.3	
		Um	iPKP	13 41 05.2	
		Ud	iPKP	13 41 16.7	
				South of Kermadec Islands	
				(h = 240 km).	
"	5	Ud	iP	14 54 34.3	
				Mariana Islands (h = 35 km).	
"	5	Um	iP	16 20 38.6	
		Ud	iP	16 20 57.6	
				Tadzhik SSR.	
"	6	Up	iP	00 20 24.5	
		Ki	iP	00 19 31.3	
		Sk	iP	00 20 08.2	
		Um	iP	00 19 56.6	
		Ud	iP	00 20 28.0	
		De	iP	00 20 50.1	
				Kamchatka (h = 170 km).	
"	6	Ud	iP	01 55 03.4	
				Kurile Islands (h = 120 km).	
"	6	Up	iPKP	02 25 57.6	
			ipPKP	02 26 06.2	
		Ki	iPKP	02 25 43.6	
			ipPKP	02 25 52.4	
		Um	iPKP	02 25 50.0	
			ipPKP	02 25 59.0	
				New Hebrides Islands.	
				h = 35 km (Up,Ki,Um).	

1971

Dec.	6	Up	iPKP	02 28 23.6	
		Ki	iPKP	02 28 08.8	
			ipPKP	02 28 17.5	
		Sk	iPKP	02 28 20.7	
		Um	iPKP	02 28 16.1	
		Ud	iPKP	02 28 26.1	
		De	iPKP	02 28 33.0	
				New Hebrides Islands.	
				h = 30 km (Up).	
"	6	Um	iPKP	04 01 28.6	
				New Hebrides Islands (h = 30 km)	
"	6	Ki	eP	05 34 32	
		Um	iP	05 34 55.7	
		Ud	iP	05 35 26.6	
				Kurile Islands.	
"	6	Um	iPKP	06 12 58.5	
				New Hebrides Islands (h = 30 km)	
"	6	Um	iP	09 16 20.6	
"	6	Ud	iP	10 14 43.6	
		De	eP	10 14 14	
				Crete (h = 55 km).	
"	6	Up	iP	11 15 21.4	
		Ki	iP	11 14 28.4	
		Um	iP	11 14 54.9	
		Ud	iP	11 15 22.4	
				Aleutian Islands (h = 170 km).	
"	6	De	iP	12 34 14.0	
				Crete.	
"	6	Up	iP	13 28 25.9	
		Ud	iP	13 28 34.5	
				Ryukyu Islands.	
"	6	Up	ePn	23 38 21	
			iPgl	23 38 43.2	
			iSn	23 39 41.9	
			i(Sg2)	23 40 36.2	
				micr sec	
			Sg2	Z' 0.1 0.9	
		Ki	iPn	23 37 51.9	
			iSn	23 38 54.2	
		Sk	iPn	23 37 19.7	
			i	23 37 34.6	
			iSn	23 37 55.0	
		Um	iPn	23 37 55.9	
			iSn	23 39 00.1	
		Ud	iPn	23 38 05.0	
			iSn	23 39 13.6	
		De	iSn	23 40 37.1	
				(cont.)	

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Um = Umeå, Ud = Uddeholm, De = Delary							
1971				1971			
Dec.	9	Up	iP 11 24 33.3	Dec.	10	Up	iPKP 21 17 28.7
"	9	Ki	iP 12 39 09.7			Um	iPKP 21 17 32.1
		Um	iP 12 39 02.9			i	21 17 43.1
		Ud	iP 12 38 57.2			Chile (h = 15 km).	
		Indian Ocean (h = N).		"	11	Up	eP 03 43 23
"	9	Ki	ePKP 15 20 09			Ki	iP 03 43 05.5
		Um	iPKP 15 20 11.7				micr sec
		Ud	ePKP 15 20 18				P Z' 0.1 1.0
		New Hebrides Islands (h = 40 km).				Um	iP 03 43 11.0
						Ud	iP 03 43 29.5
						Halmahera (h = 110 km).	
"	9	Um	i(P) 15 54 48.0	"	11	Up	micr sec
"	9	De	ePKP 19 14 08			Mx	E 3.1 20
		New Britain (h = 45 km).				Mx	N 3.6 20
						Mx	Z 6.8 20
"	9	Up	iP 22 51 07.4 C			Ki	iPP 07 44 23.6
			micr sec				micr sec
			P Z' 0.1 0.8			Mx	E 9.2 22
		Ki	iP 22 50 41.2			Mx	N 10 22
			micr sec			Mx	Z 11 23
			P Z' 0.1 1.1			Um	i 07 44 14.4
		Sk	eP 22 51 10			iPP	07 44 37.6
		Um	iP 22 50 51.2			Solomon Islands (h = 70 km).	
		Ud	iP 22 51 13.9			M = 6.3 (Up,Ki).	
		De	eP 22 51 26	"	11	Up	iPKP 12 04 48.0
		Formosa (h = 150 km).				Ud	iPKP 12 04 47.0
		m = 5.6 (Up,Ki).				Chile (h = 30 km).	
"	10	Ki	iP 07 36 44.6	"	11	Up	iP 22 43 47.7
		Um	iP 07 36 48.7				micr sec
		Banda Sea (h = 110 km).					P Z' 0.1 1.3
"	10	Um	iSgl 12 28 35.9			Ki	iP 22 43 35.5
		Esthonia.					ipP 22 43 59.9
		Explosion.					micr sec
"	10	Ki	iP 13 51 35.8				P Z' 0.1 1.0
		Ud	iP 13 52 26.5			Sk	iP 22 43 29.7
		Japan (h = 210 km).				Um	iP 22 43 44.3
"	10	Up	iSgl 15 03 22.8			Ud	iP 22 43 38.9
		Sk	eSgl 15 03 16			Mexico.	
		Ud	iPgl 15 01 28.8			h = 100 km (Ki).	
			i(Sn) 15 02 04.1	"	12	Ud	iP 09 50 27.1
			iSgl 15 02 24.7	"	12	Ki	iP 13 31 22.8
		Southwest Norway,				Okhotsk Sea.	
		58.5°N, 6.3°E.		"	12	Ki	iP 13 49 18.1
		Origin time = 15 00 16.				Um	iP 13 49 14.4
"	10	Ki	iP 19 41 07.8			Ud	iP 13 49 40.8
		Um	iP 19 41 20.4			Kirghiz-Sinkiang (h = N).	
		Ud	iP 19 41 42.4	"	12	Um	iP 14 44 03.4
		Mariana Islands (h = 110 km).				(cont.)	

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

1971				1971			
Dec.		(cont.)		Dec.		(cont.)	
	12	Ud iP	14 44 34.2		15	Sk iPKP	07 46 36.0
		Kurile Islands.				Um iPKP	07 46 30.3
"	12	Up iPKP	15 54 41.3			Ud iPKP	07 46 43.1
		Sk iPKP	15 54 35.8			i	07 46 50.3
		Um iPKP	15 54 29.9			De iPKP	07 46 51.5
		Ud iPKP	15 54 42.8			i	07 47 04.2
		i	15 54 48.0			Kermadec Islands (h = 360 km).	
		De iPKP	15 54 51.7	"	15	Ki iP	07 59 36.7
		Kermadec Islands (h = 310 km).				Um iP	07 59 38.1
"	12	Ud eP	21 51 34			Ud iP	08 00 08.7
		South Atlantic Ocean				Kazakh SSR.	
		(h = N).				Underground explosion.	
"	12	Ki iP	22 35 14.7	"	15	Up iP	08 40 09.0
		Um iP	22 35 06.8			ipP	08 40 20.2
		Ud iP	22 35 28.3			i	08 43 01.7
		Tadzhik-Sinkiang (h = N).				iS	08 48 28
"	13	Ki iP	01 50 56.1			eP'P'	09 09 30
		Um iP	01 51 02.4				micr sec
		Mindoro.				P	Z' 1.2 1.3
"	13	Ud iP	10 10 08.3			pP	Z' 3.2 1.3
"	14	Up iP	01 52 47.6			Mx	E 420 19
"	14	Ud iP	02 40 10.5			Mx	N 420 18
		Aleutian Islands (h = 40 km).				Mx	Z 250 19
"	14	De iPKP	18 48 44.6			Ki iP	08 39 12.8
		Chile (h = 60 km).				ipP	08 39 24.6
"	14	Up iP	21 21 49.8 C				micr sec
		Ud iP	21 21 41.8			P	Z' 1.6 1.6
		Nevada.				pP	Z' 3.9 1.4
		Underground explosion.				Mx	E 370 19
"	15	Ud i(P)	00 17 55.1			Mx	N 320 15
"	15	Up iP	05 10 02.9			Mx	Z 290 15
			micr sec			Sk iP	08 39 51.2
		P	Z' 0.1 1.3			ipP	08 40 02.1
		Ki iP	05 09 08.8			eP'P'	09 09 46
		Ud iP	05 10 04.9			Um iP	08 39 40.3
		De iP	05 10 27.6			ipP	08 39 51.3
		Komandorsky Islands				Ud iP	08 40 11.3
		(h = 35 km).				De iP	08 40 34.9
"	15	Up iPKP	07 46 41.6			ipP	08 40 44.6
		i	07 46 47.6			Kamchatka.	
			micr sec			h = 40 km (Up, Ki, Sk, Um, De).	
		PKP	Z' 0.2 0.9			m = 6.9, M = 7.8 (Up, Ki).	
		Ki iPKP	07 46 19.7	"	15	Ud iP	08 53 02.5
		(cont.)				Eastern Siberia.	
"	15	Up iPKP	07 46 41.6	"	15	Ud iP	09 30 23.2
		i	07 46 47.6			Eastern Siberia.	
			micr sec	"	15	Ki iP	09 31 53.7
		PKP	Z' 0.2 0.9			Ud iP	09 32 53.0
		Ki iPKP	07 46 19.7			Kamchatka (h = N).	
		(cont.)		"	15	Ud iP	09 37 19.8

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

1971				1971			
Dec.	15	Ud iP Kamchatka.	10 04 09.7	Dec.	15	(cont.) Ki	micr sec
"	15	Ki iP Ud eP Komandorsky Islands (h = N).	10 15 19.1 10 16 09	"	15	P Z' 0.2 1.4 Ud iP 13 18 01.0 Komandorsky Islands (h = 30 km). m = 6.2 (Up,Ki).	
"	15	Up iP P Z' 0.1 1.2 Ki iP Ud iP Kamchatka (h = N).	10 37 35.0 micr sec 10 36 37.3 10 37 35.9	"	15	Ki iP 13 27 40.3 Sk eP 13 28 23 Ud eP 13 28 36 De eP 13 29 00 Kamchatka (h = 35 km).	
"	15	Ki i(P) Um e(P)	10 50 22.8 10 51 37	"	15	Ki iP 15 16 06.0 Kamchatka (h = N).	
"	15	Ud iP Kamchatka (h = 25 km).	11 19 18.1	"	15	Up iP 15 32 02.8 i 15 32 44.3 P Z' 0.1 0.7 Ki iP 15 32 41.2 Sk iP 15 32 38.7 Um iP 15 32 18.3 Ud iP 15 32 17.2 De iP 15 32 01.0 Iran (h = 40 km).	
"	15	Ud iP Kamchatka (h = N).	11 21 06.4	"	15	Ud iP 17 10 14.7 Komandorsky Islands (h = 25 km).	
"	15	Up iP P Z' 0.1 1.0 Ki iP 11 20 28.2 P Z' 0.1 1.0 Ud iP 11 21 26.1 De iP 11 21 49.8 Komandorsky Islands (h = N). m = 5.9 (Up,Ki).	11 21 22.3 micr sec 11 20 28.2 micr sec 11 21 26.1 11 21 49.8	"	15	Ki iSgl 19 07 38.4 Sk iSgl 19 07 42.4 Um ePgl 19 07 18 iSn 19 07 52.2 iSgl 19 08 06.7 Ud iSgl 19 09 28.2 Nordland, Norway, 66.5°N, 13.8°E. Origin time = 19 06 08. Explosion.	
"	15	Up iP P Z' 0.2 1.4 Ki iP 12 11 07.5 P Z' 0.3 1.4 Ud iP 12 12 05.2 Komandorsky Islands (h = N). m = 6.2 (Up,Ki).	12 12 02.5 micr sec 12 11 07.5 micr sec 12 12 05.2	"	15	Ud iP 20 23 40.3 C	
"	15	Ud iP Kamchatka (h = 25 km).	12 52 53.9	"	15	Ki eP 22 16 22 Sk eP 22 16 16 Um iP 22 16 30.8 Mexico-Guatemala (h = 260 km).	
"	15	Up iP Ki i(pP) Ud iP Kamchatka (h = 35 km).	13 01 55.7 13 01 10.3 13 01 57.1	"	16	Ki eP 00 12 34 Ud eP 00 13 35 Komandorsky Islands (h = 40 km).	
"	15	Up iP P Z' 0.3 1.4 Ki iP (cont.)	13 17 58.4 micr sec 13 17 02.9	"	16	Um iP 02 17 09.8 Banda Sea (h = 300 km).	
				"	16	Ki iP (cont.) 02 47 14.5	

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

1971				1971			
Dec.	16	(cont.)		Dec.	16		
		Ud	iP 02 48 14.6			Ki	iP 13 20 30.0
		Kamchatka (h = 25 km).				Ud	iP 13 21 26.3
						Kamchatka (h = 25 km).	
"	16	Um	iP 04 38 28.5	"	16	Ki	iP 14 37 37.2
		Banda Sea (h = 460 km).				Ud	iP 14 38 35.7
						Kamchatka (h = N).	
"	16	Ki	iP 07 51 33.2	"	16	Ki	i(P) 14 46 44.7
		Kamchatka (h = N).				Ud	i(P) 14 45 46.1
"	16	Up	iP 08 23 56.2 C	"	16	Up	iP 15 17 53.6
			micr sec			Ki	iP 15 16 56.7
			Z' 0.1 1.0			Ud	iP 15 17 57.6
		Ki	iP 08 23 00.9			Kamchatka (h = 25 km).	
			micr sec				
			Z' 0.1 0.8			"	16
		Um	iP 08 23 26.8 C			Ki	iP 15 36 02.0
		Ud	iP 08 23 59.0 C			Ud	iP 15 36 59.9
		De	iP 08 24 22.0			Kamchatka (h = N).	
		Kamchatka (h = 35 km).				"	16
		m = 6.0 (Up, Ki).				Up	iP 18 39 51.0
"	16	Ud	iPgl 11 19 23.8			i	18 39 55.6
			iSgl 11 19 45.9			iS	18 43 00.7
							micr sec
"	16	Ud	iPKP 12 16 21.2			P	Z' 0.1 1.0
		De	iPKP 12 16 31.6			Mx	E 1.8 14
						Mx	N 2.2 14
"	16	Up	iP 12 36 02.3			Mx	Z 4.4 18
			ipP 12 36 17.1			Ki	iP 18 38 05.6
			micr sec			i	18 38 07.8
			Z' 0.5 1.5			iS	18 39 56.8
		Ki	iP 12 35 06.6				micr sec
			ipP 12 35 19.2			P	Z' 0.1 0.8
			micr sec			Mx	E 5.2 11
			Z' 0.2 1.2			Mx	N 4.6 15
		Mx	N 3.4 20			Mx	Z 3.1 16
		Sk	iP 12 35 44.1			Sk	iP 18 39 09.9
		Um	iP 12 35 33.9			Um	iP 18 38 59.9
		Ud	iP 12 36 04.6			iS	18 41 35.1
		De	iP 12 36 27.6			Ud	iP 18 39 50.6
		Kamchatka.				i	18 39 54.7
		h = 50 km (Up, Ki).				i	18 43 23.9
		m = 6.3 (Up, Ki).				De	iP 18 40 27.6
						i	18 40 33.3
"	16	Up	iP 12 39 45.3			Svalbard (h = N).	
			micr sec			m = 5.0, M = 4.7 (Up, Ki).	
			Z' 0.2 1.4			The second phase, following	
		Ki	iP 12 38 50.1			P, arrives with a delay which	
			micr sec			increases with distance over	
			Z' 0.1 1.1			our network.	
		Ud	eP 12 39 46	"	17	Ud	iP 00 15 57.3
		Kamchatka (h = N).				Alaska (h = N).	
		m = 6.0 (Up, Ki).		"	17	Ud	iP 00 28 13.8
"	16	Ud	i(Sgl) 12 43 45.3			Komandorsky Islands.	

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

1971				1971			
Dec.	17	Ki iP	01 12 14.6	Dec.	17	Sk iP	19 01 19.3
		Kamchatka (h = N).				Ud iP	19 01 40.8
"	17	Up iP	02 11 29.3			Komandorsky Islands.	
		Ki iP	02 12 36.9	"	17	Up iP	19 16 24.3
		Sk iP	02 12 06.5			ipP	19 16 36.6
		Um iP	02 11 59.0			iS	19 24 46
		Ud iP	02 11 35.0				micr sec
		De iP	02 11 02.3			P	Z' 0.2 1.2
		Crete (h = 35 km).				pP	Z' 0.8 1.4
"	17	Ki iP	04 08 58.0			Mx	E 8.7 17
		Ud iP	04 09 21.9			Mx	N 9.2 15
		Mindanao.				Mx	Z 9.5 17
"	17	Up iP	04 17 45.6		Ki iP	19 15 28.7	
			micr sec		ipP	19 15 41.3	
		P	Z' 0.1 1.3			micr sec	
		Ki iP	04 16 49.9			pP	Z' 0.5 1.4
			micr sec			Mx	E 8.2 20
		P	Z' 0.1 1.0			Mx	N 18 21
		Um iP	04 17 15.7			Mx	Z 7.6 18
		Ud iP	04 17 48.1		Sk iP	19 16 05.9	
		De eP	04 18 17		ipP	19 16 18.7	
		Kamchatka (h = 25 km).			Um iP	19 15 55.1	
		m = 5.9 (Up,Ki).			ipP	19 16 07.3	
"	17	Up iP	09 21 46.1		Ud iP	19 16 26.7	
		Um iP	09 21 40.7		ipP	19 16 39.4	
		Ud iP	09 21 55.2 C		De iP	19 16 49.0	
		Java (h = 60 km).			ipP	19 17 02.5	
"	17	Up i(P)	14 01 57.3		Komandorsky Islands.		
"	17	Up iP	18 11 35.6		h = 45 km (Up,Ki,Sk,Um,Ud,De).		
		Ki iP	18 11 34.2		M = 6.2 (Up,Ki).		
		ipP	18 12 18.0	"	18	Ud iP	00 48 26.9
		Sk eP	18 11 47			Turkey.	
		Um iP	18 11 32.3	"	18	Ki iP	00 53 51.4
		Ud iP	18 11 46.1	"	18	Up i(P)	00 54 41.1
		ipP	18 12 29.2			Um iP	00 54 41.0
		De iP	18 11 45.2			Ud i(P)	00 55 19.9
		Sumatra.				China.	
		h = 180 km (Ki,Ud).		"	18	Up iP	02 38 34.1
"	17	Up iP	18 35 42.5			i	02 38 39.2
		ipP	18 35 54.0			Sk eP	02 39 14
			micr sec			Ud iP	02 38 40.3
		pP	Z' 0.1 1.0			De iP	02 38 04.9
		Mx	E 1.6 17			Greece (h = 5 km).	
		Mx	N 1.7 16	"	18	Up iP	06 27 21.0
		Ki iP	18 34 46.4			Ki eP	06 26 28
		Um iP	18 35 13.5			Ud eP	06 27 28
		Ud iP	18 35 43.1			Kamchatka (h = N).	
		Kamchatka.		"	18	Ud iP	06 39 42.3
		h = 45 km (Up).					

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

1971				1971			
Dec.	18	Ud	eP	06 42 28	Dec.	19	(cont.)
"	18	Ki	iP	06 53 24.0			Sk eP 08 00 27
				Kamchatka (h = N).			Um eP 08 00 11
"	18	Ki	i(pP)	06 56 47.4			Ud iP 08 00 43.1
		Ud	eP	06 57 32			De iP 08 01 07.7
				Kamchatka (h = N).			Kamchatka (h = N).
							m = 5.9 (Up,Ki).
"	18	Up	eP	07 26 26	"	19	Up iPKP 14 46 46.1
		Ki	eP	07 25 32			Ki iPKP 14 47 00.0
		Um	iP	07 26 00.1			Um iPKP 14 46 53.7
		Ud	eP	07 26 31			Ud iPKP 14 46 43.3
				Kamchatka (h = N).			South Sandwich Islands
							(h = 45 km).
"	18	Um	i(Sgl)	12 18 21.0	"	19	Up ipP 15 42 42.8
"	18	Up	iP	22 08 05.9			Ki ipP 15 41 46.2
				micr sec			Sk epP 15 42 28
				P Z' 0.2 1.3			Ud ipP 15 42 44.0
		Ki	iP	22 07 13.0			Kamchatka (h = N).
				micr sec			In some of these Kamchatka
				P Z' 0.1 1.4			earthquakes, pP is
		Um	iP	22 07 39.7			considerably larger than P,
		Ud	iP	22 08 10.0			which for weaker cases like
		De	iP	22 08 35.2			this one, may explain the
				Kamchatka (h = N).			presence of pP without clear
				m = 6.0 (Up,Ki).			P.
"	18	Ud	iP	22 32 29.9	"	19	Um iPKP 21 02 51.7
				Near Lake Baikal (h = N).			Ud iPKP 21 03 02.8
"	19	Up	iP	00 41 29.9	"	19	Up iP 21 40 51.1
		Ud	iP	00 41 31.5			Um iP 21 40 32.3
							Bonin Islands (h = N).
"	19	Up	iP	05 46 32.4	"	20	Ud iP 00 34 12.8
		Ki	iP	05 46 36.5			Kamchatka (h = 35 km).
		Sk	eP	05 46 58	"	20	Up iP 01 34 54.2
		Ud	iP	05 46 47.5			iSn 01 39 54.5
				Sumatra (h = 80 km).			micr sec
"	19	Up	iSKP	06 21 22.3			P Z' 0.2 1.1
		Ki	iPKP	06 17 57.1			Mx E 4.5 14
		Um	iPKP	06 18 03.4			Mx N 8.1 14
		Ud	iPKP	06 18 13.3			Mx Z 10 15
			iSKP	06 21 26.5			Ki iP 01 35 30.9
		De	iPKP	06 18 20.4			micr sec
			iSKP	06 21 37.6			P Z' 0.1 0.8
				New Hebrides Islands			Mx E 7.4 14
				(h = 150 km).			Mx N 8.1 15
							Mx Z 6.1 16
"	19	Up	iP	08 00 39.8			Sk eP 01 35 32
				micr sec			Um iP 01 35 05.6
				P Z' 0.1 1.0			i 01 35 07.4
		Ki	iP	07 59 44.8			Ud iP 01 35 12.7
				micr sec			De eP 01 35 00
				P Z' 0.1 1.1			Caucasus (h = N).
				(cont.)			m = 5.8, M = 5.7 (Up,Ki).

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

1971				1971									
Dec.	20	Up	iP	01 46	41.3	Dec.	21	Ki	i(P)	11 03	31.2		
				micr	sec								
			P	Z'	0.2 1.1	"	21	Up	iPgl	11 10	27.7		
			Mx	E	3.6 16				iSgl	11 10	40.2		
			Mx	N	7.5 17				iRg	11 10	45.8		
		Ki	iP	01 47	17.0			Sk	iSgl	11 12	59.6		
				micr	sec			Um	ePgl	11 11	36		
			P	Z'	0.3 1.1				iSgl	11 12	40.6		
			Mx	E	3.2 15				i(Sg2)	11 12	50.8		
			Mx	N	6.2 14			Ud	iPgl	11 10	55.0		
		Sk	iP	01 47	18.4				iSgl	11 11	29.0		
		Um	iP	01 46	52.4			De	iPn	11 11	05.5		
		Ud	iP	01 46	58.6				iSn	11 11	44.7		
		De	iP	01 46	45.6				iSgl	11 11	56.6		
		Caucasus (h = N).						Near coast of Södermanland, Sweden, 59.0°N, 18.0°E.					
		m = 6.0, M = 5.5 (Up,Ki).						Origin time = 11 10 12. Explosion.					
"	20	Up	iP	05 11	04.7	"	21	Ki	ePn	11 49	15		
		Um	iP	05 11	13.1				iPgl	11 49	23.6		
		Ud	iP	05 11	18.0				iSn	11 50	01.3		
		Caucasus (h = N).							iSgl	11 50	16.7		
"	20	Up	iP	07 58	50.1			Um	iSgl	11 51	50.9		
		Ki	iP	07 59	22.5			Northwest Russia-Norway border region, 69.7°N, 30.0°E.					
		Um	iP	07 59	02.5			Origin time = 11 48 14. Explosion.					
		Ud	iP	07 59	04.3			"	21	Up	iP	19 35	49.3
		Caucasus (h = N).							ipP	19 36	24.8		
"	20	Ki	iP	10 51	56.6				P	Z'	0.1 1.1		
		Ud	iP	10 51	39.8			Ki	iP	19 35	49.2		
		Caucasus.							ipP	19 36	24.2		
"	20	Ki	eP	16 32	46			Sk	iP	19 36	02.6		
		Ud	iP	16 33	46.1				ipP	19 36	39.7		
		Kamchatka (h = N).						Um	iP	19 35	46.6		
"	20	Ud	iP	16 45	19.1				ipP	19 36	22.1		
		Crete.						Ud	iP	19 36	00.3		
"	20	Ud	iPgl	18 37	26.9				ipP	19 36	35.1		
			iSgl	18 37	45.1			De	iP	19 35	59.6		
"	20	Ud	eP	23 35	38			Sumatra. h = 140 km (Up,Ki,Sk,Um,Ud).					
		De	iP	23 35	23.1			"	22	Ud	iP	00 31	03.6
		Iran (h = N).						"	22	Ki	iP	04 13	12.1
"	21	Ki	iPKP	06 09	15.5			Kamchatka.					
		Um	iPKP	06 09	22.8			"	22	Up	iP	07 04	46.5 C
		New Hebrides Islands (h = 120 km).							P	Z'	2.1 0.9		
"	21	Up	iP	10 02	45.2			Ki	iP	07 05	17.7 C		
		Ki	iP	10 02	48.7				P	Z'	3.6 1.0		
		Sk	iP	10 03	09.3			(cont.)					
		Um	iP	10 02	41.6								
		Ud	iP	10 03	01.1								
		De	iP	10 02	56.3								
		Kashmir (h = 25 km).											

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1971				1971	
Dec.	22	(cont.)		Dec.	23
		Um	iP	07 04 53.1	C
		Ud	iP	07 05 07.3	C
		De	iP	07 04 58.1	C
		North of the Caspian Sea. m = 6.8 (Up,Ki). Underground explosion.			
"	22	Ki	iP	11 11 55.8	
		Ud	iP	11 12 53.2	
		Kamchatka (h = N).			
"	22	Ki	iPn	11 15 08.7	
			iSn	11 16 07.4	
			iSgl	11 16 35.6	
		Um	iSgl	11 17 24.8	
		Northwest Russia, 67.9°N, 33.9°E. Origin time = 11 13 50. Explosion.			
"	22	Um	iSgl	12 12 42.9	
		Lake Ladoga. Explosion.			
"	22	Up	iPgl	13 21 10.0	
			iSgl	13 21 23.3	
			iRg	13 21 28.5	
		Um	iPgl	13 22 18.8	
			iSgl	13 23 23.3	
		Ud	iPgl	13 21 40.5	
			iSgl	13 22 12.3	
		De	iPn	13 21 47.9	
			iSn	13 22 26.7	
			i(Sg2)	13 22 44.8	
		Near coast of Södermanland, Sweden, 59.0°N, 18.0°E. Origin time = 13 20 54. Explosion.			
"	22	Ki	eP	20 28 14	
		Um	iP	20 28 37.4	
		Ud	iP	20 29 09.4	
		Komandorsky Islands (h = N).			
"	23	Um	iP	00 20 28.6	
		Ud	iP	00 20 00.5	
		Windward Islands (h = 15 km).			
"	23	Ud	iP	01 22 03.7	
		Kamchatka (h = 15 km).			
"	23	Ki	iP	03 17 23.8	
		Um	iP	03 17 46.6	
		Ud	iP	03 18 17.4	
		Kurile Islands (h = 130 km).			
		Dec.	23	Ud	iP
				09 09 15.4	
		Komandorsky Islands (h = N).			
		"	23	Up	iP
				13 28 11.6	
				Ki	iP
				13 28 20.2	
				Um	iP
				13 28 20.5	
				Ud	iP
				13 28 00.3	
				De	iP
				13 27 59.0	
		Leeward Islands (h = 170 km).			
		"	23	Um	iPKP
				17 57 07.8	
				i	17 57 27.5
				Ud	ePKP2
				17 57 31	
		South of Kermadec Islands.			
		"	23	Ki	iSgl
				18 48 22.1	
				Sk	ePgl
				18 47 50	
				iSgl	18 48 28.7
				Um	iPgl
				18 48 01.4	
				iSn	18 48 35.3
				iSgl	18 48 48.7
				Ud	iSgl
				18 50 16.9	
		Nordland, Norway, 66.3°N, 14.8°E. Origin time = 18 47 00. Explosion?			
		"	23	Um	iP
				20 14 06.8	
				Ud	iP
				20 14 30.3	
		Mariana Islands (h = 60 km).			
		"	23	Ud	i(P)
				22 46 47.3	
		"	24	Ud	iPKP
				00 50 27.2	
				De	iPKP
				00 50 38.3	
		"	24	Ki	iP
				14 20 27.6	
		Kurile Islands.			
		"	24	Ud	ePKP
				19 23 09	
		Tonga-Kermadec Islands (h = 570 km).			
		"	24	Up	iP
				21 24 08.3	C
				Ki	iP
				21 23 45.3	
				Ud	iP
				21 24 16.4	C
		Formosa (h = N).			
		"	24	Ud	iPKP
				21 31 31.5	
		Tonga Islands (h = 250 km).			
		"	24	Ud	iP
				22 55 18.2	
		"	25	Um	iP
				01 34 34.6	
				Ud	iP
				01 35 06.6	
		Kurile Islands (h = 110 km).			

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1971				1971			
Dec.				Dec.			
25	Up	iP	05 24 39.5	26	(cont.)		
	Ki	iP	05 24 31.2		Northwest Russia,		
	Um	iP	05 24 29.6		68.0°N, 33.3°E.		
	Ud	iP	05 24 51.8		Origin time = 05 16 23.		
			Burma (h = N).		Explosion.		
"	25	Ud	iP 06 47 34.6	"	26	Ud	iP 07 01 29.1
			Unimak Island (h = N).				Aleutian Islands (h = 160 km).
"	25	Um	iP 11 24 38.2	"	26	Up	iS* 12 15 27.0
			Indian Ocean (h = N).				iSgl 12 15 35.7
"	25	Ud	iP 18 06 30.5			Um	iSgl 12 14 57.2
			Banda Sea (h = 120 km).			Ud	iSgl 12 16 33.4
"	26	Ud	iPKP 02 58 40.5			De	iSgl 12 17 14.1
		De	iPKP 02 58 51.4				Lake Ladoga.
"	26	Up	iP 04 40 10.8	"	26	Up	iP 13 30 07.5 C
			iPP 04 44 14.4				ipP 13 30 20.4
		Ki	iP 04 39 53.9				iPcP 13 30 30.1
			micr sec				micr sec
		P	Z' 0.2 1.0				P Z' 0.1 1.0
		Um	iP 04 39 59.7			Ki	iP 13 29 16.3
		Ud	iP 04 40 19.1			Um	iP 13 29 40.4
		De	iPP 04 44 38.6			Ud	iP 13 30 07.3
			Halmahera (h = N).				ipP 13 30 20.0
"	26	Up	iSn 04 51 40.4			De	iP 13 30 29.9
			iSgl 04 52 39.8				ipP 13 30 42.3
		Ki	ePn 04 48 30				Aleutian Islands.
			iSn 04 49 26.9				h = 45 km (Up,Ud,De).
			iSgl 04 49 47.4	"	26	Up	iP 14 31 51.6
		Sk	eSn 04 51 19			Ki	iP 14 31 05.7 C
			iSgl 04 52 12.3			Um	iP 14 31 26.9 C
		Um	iSn 04 50 06.9			Ud	iP 14 31 57.3 C
			iSgl 04 50 40.9			De	iP 14 32 15.1
		Ud	iSn 04 52 04.5				Kurile Islands (h = 25 km).
			iSgl 04 53 15.7	"	26	Ud	iP 14 39 46.0
		De	iSgl 04 54 38.9				Kurile Islands (h = 60 km).
			Northwest Russia,	"	26	Ud	iP 14 47 39.3
			68.0°N, 33.3°E.				Kurile Islands.
			Origin time = 04 47 14.	"	26	Up	iPKP 16 09 36.2
			Explosion.				iPKKP 16 20 01.6
"	26	Up	eSn 05 20 54			Um	iPKP 16 09 30.3
			iS* 05 21 41.4			Ud	iPKP 16 09 38.7
			iSgl 05 21 50.7				iPKKP 16 19 53.2
		Ki	iPn 05 17 39.4			De	iPKP 16 09 44.2
			iSn 05 18 36.8				iPKKP 16 19 46.3
			iS* 05 18 56.0				Solomon Islands (h = 55 km).
		Sk	iSgl 05 21 25.5	"	27	Ud	iP 00 19 59.3
		Um	iSn 05 19 17.4	"	27	Um	iP 00 28 45.6
			iSgl 05 19 51.2			Ud	iP 00 29 21.5
		Ud	iSn 05 21 14.4				Sakhalin (h = 40 km).
			iSgl 05 22 25.4				
		De	eSgl 05 23 43				
			(cont.)				

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1971				1971					
Dec.	27	Sk	iP	03 59 52.7	Dec.	28	Um	i(P)	19 46 00.1
		Ud	iP	03 59 53.2					
		De	iP	03 59 51.9	"	28	Ki	iP	22 55 40.5 C
		Windward Islands (h = 160 km).							micr sec
"	27	Up	i(PKP)	11 19 51.6			P	Z'	0.1 0.9
			iSKP	11 23 13.0			Sk	eP	22 56 02
		Ki	iPKP	11 19 43.9			Um	iP	22 55 46.0 C
			iSKP	11 22 48.0			Ud	iP	22 56 04.5 C
		Sk	ePKP	11 19 53			Talaud Islands (h = 120 km).		
			iSKP	11 23 10.3	"	29	Ki	iP	09 51 16.8
		Um	iPKP	11 19 49.3			Ud	iP	09 52 14.4
			ipPKP	11 20 49.1			Komandorsky Islands (h = 35 km).		
			iSKP	11 23 03.0	"	29	Up	iP	21 19 58.8
		Ud	i(PKP)	11 19 51.2			Ki	eP	21 20 35
			iPKP	11 19 59.7			Sk	iP	21 20 33.6
			iSKP	11 23 16.7			Um	iP	21 20 12.4
		De	i(PKP)	11 20 00.2			Ud	iP	21 20 14.1 C
			iPKP	11 20 07.5			De	iP	21 19 57.9
		Tonga Islands. h = 230 km (Um).					Iran (h = 20 km).		
"	27	Ud	iP	12 48 41.6	"	29	Um	iP	21 26 56.9
		Kurile Islands.					Ud	iP	21 27 29.1
"	27	Up	iP	21 07 33.3			Kurile Islands.		
		Ki	iP	21 07 42.5	"	29	Up	iP	22 37 21.0
		Sk	iP	21 08 00.5			i		22 37 21.8
		Um	iP	21 07 33.5					micr sec
		Ud	iP	21 07 51.7			P	Z'	0.1 0.6
			iPP	21 09 37.1			Mx	E	0.8 16
		De	eP	21 07 48			Mx	N	1.2 17
		Kashmir (h = 10 km).					Mx	Z	0.9 16
"	28	Ud	iP	09 50 03.5			Ki	iP	22 37 13.9
		Hindu Kush.					ipP		22 37 31.3
"	28	Ki	iP	12 57 38.9					micr sec
		Um	iP	12 57 34.7			P	Z'	0.2 1.1
		Ud	iP	12 57 48.0			Sk	iP	22 37 36.3
		De	iP	12 57 47.6			ipP		22 37 54.9
		Nicobar Islands (h = N).					Um	iP	22 37 13.2
"	28	Up	iSgl	16 19 54.4			ipP		22 37 31.0
		Ud	iSgl	16 20 07.4			iS		22 45 24
		De	iPgl	16 18 14.1			Ud	iP	22 37 34.6 D
			iSgl	16 18 37.2			i		22 37 35.0 C
			iRg	16 18 48.4			ipP		22 37 52.7
		Off coast of south Sweden, 55.7°N, 16.4°E. Origin time = 16 17 45. Explosion.					De	eP	22 37 36
							Burma-India. h = 70 km (Ki,Sk,Um,Ud). m = 6.2 (Up,Ki).		
"	28	Ki	iP	19 45 13.8	"	29	Up	iP	23 32 10.2
		Ud	iP	19 46 14.0			Ki	eP	23 33 31
		Kamchatka (h = N).					Sk	iP	23 32 52.7
							Um	eP	23 32 50
							Ud	iP	23 32 17.2
							De	eP	23 31 37
							Greece (h = 20 km).		

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1971				1971			
Dec.	30	Ud iP	02 31 28.8	Dec.	30	Ud iP	17 34 38.6
		Rhodes Island,					
"	30	Up iP	05 12 58.9 C	"	30	Up iP	19 17 36.4
		Um iP	05 13 02.5			Um iP	19 17 09.9
		Ud iP	05 12 48.5			Ud iP	19 17 34.1
		Colombia (h = 45 km).				De iP	19 17 58.3
						Aleutian Islands (h = 25 km).	
"	30	Up iP	06 27 53.1 C	"	30	Up iP	21 58 50.5
		iPn	06 28 58.9			i	21 58 59.4
		iPP	06 29 11.6				micr sec
			micr sec			P	Z' 0.1 0.7
		P	Z' 0.2 0.9			Ki iP	21 57 58.2
		Ki iP	06 27 37.5 C			Sk eP	21 58 26
			micr sec			Um iP	21 58 24.3
		P	Z' 0.7 0.6			Ud iP	21 58 50.2
		Sk iP	06 28 08.4 C			i	21 58 59.6
		Um iP	06 27 38.1 C			De iP	21 59 12.4
		De iP	06 28 16.3 C			Aleutian Islands (h = 10 km).	
		Kazakh SSR.		"	30	Ud iP	23 43 28.7
		m = 6.4 (Up,Ki).				Sinkiang (h = N).	
		Underground explosion.		"	31	Ud iPKP	01 06 51.6
"	30	Ud i(Sgl)	10 52 09.5			Tonga Islands (h = 40 km).	
"	30	Ud iP	10 58 28.1	"	31	Ud iP	08 55 28.4
		China (h = N).				Unimak Island (h = N).	
"	30	Um iP	11 43 43.3	"	31	Ud eSn	09 13 06
		Ud iP	11 44 06.7			i	09 13 33.8
"	30	Up iSn	12 07 11.6			De iSn	09 11 36.7
		iSgl	12 07 23.2			i	09 12 41.4
		Ki eSgl	12 09 56			Austria (h = N).	
		Um iSgl	12 07 57.0	"	31	Ud iPKP	11 37 49.6
		Ud iSn	12 07 59.3			De iPKP	11 38 01.0
		iSgl	12 08 24.9	"	31	Ud ePgl	12 53 39
		De iSgl	12 08 54.6			iSgl	12 53 49.8
		Esthonia, 59.6°N, 24.7°E.				iRg	12 53 54.9
		Origin time = 12 05 30.				Explosion.	
		Explosion.		"	31	Up iPKP2	14 57 29.4
"	30	Up i(P)	12 44 22.6			Um iPKP	14 57 12.9
"	30	Up iSgl	13 05 20.9			Ud iPKP2	14 57 38.3
		Um iSgl	13 05 39.8			De iPKP	14 57 16.9
		Ud eSgl	13 06 23			Macquarie Islands (h = N).	
		De eSgl	13 06 52	"	31	Ud iP	17 59 37.9
		Probably Esthonia.		"	31	Up iP	20 02 06.6
		Explosion.				ipP	20 02 32.0
"	30	Up iPKP	15 58 06.2				micr sec
		Sk iPKP	15 58 02.7			P	Z' 0.1 1.0
		Um iPKP	15 57 59.4			Um iP	20 01 39.7
		Ud iPKP	15 58 08.3			(cont.)	
		De iPKP	15 58 14.2				
		New Britain (h = 110 km).					

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1971

Dec.	31	(cont.)	
		Um ipP	20 02 05.3
		Ud iP	20 02 06.6
		ipP	20 02 33.4
		De iP	20 02 28.6
		ipP	20 02 55.0
		Aleutian Islands.	
		h = 110 km (Up,Um,Ud,De).	
"	31	Ud iP	22 07 25.7
		Komandorsky Islands.	
"	31	Ud iP	22 34 29.7
		Aleutian Islands (h = 50 km).	
"	31	Up iP	22 41 59.3
		Ud iP	22 42 01.8
		(Iran).	
"	31	Up iP	22 49 32.0
		ePP	22 53 28
		Um iP	22 49 21.5
		Ud iP	22 49 39.4
		iPP	22 53 40.8
		Mindanao (h = 610 km).	

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March 2, 1974