

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

JANUARY 1 - 31, 1971  
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1971					1971				
Jan.	1	Sk	iP	03 18 37.5	Jan.	1	(cont.)		
		Ud	iP	03 17 50.8			Sk	ePKP	08 16 27
		Ionian Islands.						iPP	08 17 07.1
"	1	Ud	iP	03 35 24.2			Ud	iPKP	08 16 50.0
"	1	Ud	iP	04 21 16.6				iPP	08 17 27.3
"	1	Up	iP	04 55 35.7			New Guinea (h = 20 km).		
		Ki	iP	04 54 40.8	"	1	Ki	eP	12 05 01
		Sk	iP	04 55 07.1			Um	iP	12 05 27.6
		Um	iP	04 55 09.5			Ud	iP	12 05 52.1
			ipP	04 55 15.9			De	iP	12 06 15.1
		Ud	iP	04 55 32.2			Aleutian Islands		
		De	iP	04 55 55.9			(h = 60 km).		
		Gulf of Alaska.			"	1	Ud	iPKP	16 34 06.1
		h = 20 km (Um).					East Pacific (h = N).		
"	1	Um	iP	06 07 08.4	"	1	Ki	iPKP	16 51 49.0
		Japan (h = 60 km).					South Sandwich Islands		
"	1	Up	i(Sgl)	07 14 55.5			(h = N).		
		Ud	i(Sgl)	07 14 04.8	"	1	Sk	iP	17 18 28.1
"	1	Up	iPKP	08 16 47.4			De	i(P)	17 18 56.3
			iPS	08 26 33			Mariana Islands (h = 25 km).		
				micr sec	"	1	Up	iP	18 09 14.1
		Mx	E	1.9 20			Ki	iP	18 09 17.2
		Mx	N	1.7 19			Sk	iP	18 09 37.6
		Mx	Z	2.0 19			Um	iP	18 09 09.5
		Ki	iP	08 12 18.3			Ud	iP	18 09 31.2 C
			iPP	08 16 28.7			De	iP	18 09 30.0
				micr sec			Kirghiz SSR (h = 60 km).		
		Mx	E	2.0 20	"	1	Um	iP	18 38 13.9
		Mx	N	1.4 20					
		Mx	Z	2.2 18					

(cont.)

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

1971				1971			
Jan.	1	Ud iP Ionian Islands.	18 46 04.4	Jan.	2	Um iP Ud iP	18 04 01.0 18 03 56.3
"	1	Sk eP Um iP Ud iP Atlantic Ocean (h = N).	18 56 27 18 56 45.1 18 56 17.7	"	2	Up iP Ud iP Ionian Islands.	19 14 31.3 19 14 38.3
"	1	Ki iP Sk iP Crete (h = N).	20 18 06.9 20 17 38.7	"	2	Up iP Ki iP Sk iP Um iP Ud iP De iP ipP Gulf of Alaska. h = 20 km (De).	19 19 56.9 19 19 06.9 19 19 28.0 19 19 36.2 19 19 49.5 19 20 17.2 19 20 22.0
"	1	Up iP Ud iP De iP	22 15 25.5 C 22 15 27.9 C 22 15 38.3	"	2	Up eP Um iP i Ud iP Philippine Islands (h = 80 km).	22 33 57 22 33 35.7 22 33 48.7 22 34 06.5 C
"	1	Um iP	23 45 17.6	"	3	Up eP ipP P Ki iP Sk eP Um iP ipP Ud iP Japan. h = 60 km (Up,Um).	03 16 45 03 17 01.7 micr sec Z' 0.2 1.0 03 16 02.5 03 16 37 03 16 20.7 C 03 16 34.5 03 16 50.5 C
"	2	Um iP	00 30 15.1	"	3	Up iP i Ki iP Sk eP Um iP ipP Ud iP Japan. h = 60 km (Up,Um).	10 23 19.7 10 23 33.1 10 22 44.1 10 23 26 10 22 59.2 10 23 10.5 10 23 27.7 10 23 38.9 10 23 41.8
"	2	Up iP	00 51 36.0 micr sec Mx Z 0.5 12 Ki iP 00 52 45.6 Sk iP 00 52 14.9 C Um iP 00 52 10.6 Ud iP 00 51 43.0 C De iP 00 51 09.9 Crete (h = N).	"	3	Up iP i Ki iP Sk eP Um iP ipP Ud iP Japan. h = 25 km).	14 02 45.6 D micr sec Z' 0.1 1.0 14 01 59 14 02 14.5 D 14 02 22.6
"	1	Um iP	03 31 55.5 03 31 24.9 03 31 01.3 C Turkey (h = 40 km).	"	3	Up iP i Ki iP Sk eP Um iP ipP Ud iP Japan. h = 60 km (Up,Um).	10 23 19.7 10 23 33.1 10 22 44.1 10 23 26 10 22 59.2 10 23 10.5 10 23 27.7 10 23 38.9 10 23 41.8
"	2	Ki iP Um iP Ud iP Turkey (h = 40 km).	03 31 55.5 03 31 24.9 03 31 01.3 C	"	3	Up iP i Ki iP Sk eP Um iP ipP Ud iP Japan. h = 25 km).	14 02 45.6 D micr sec Z' 0.1 1.0 14 01 59 14 02 14.5 D 14 02 22.6
"	2	Ud iP Turkey.	03 59 29.2	"	3	Up iP i Ki iP Sk eP Um iP ipP Ud iP Japan. h = 25 km).	14 02 45.6 D micr sec Z' 0.1 1.0 14 01 59 14 02 14.5 D 14 02 22.6
"	2	Up iP Ki iP Sk iP Um iP i Ud iP Japan (h = 400 km).	10 19 24.0 10 18 50.4 10 19 22.6 10 19 04.3 C 10 19 17.2 10 19 31.8	"	3	Up iP i Ki iP Sk eP Um iP ipP Ud iP Japan. h = 25 km).	14 02 45.6 D micr sec Z' 0.1 1.0 14 01 59 14 02 14.5 D 14 02 22.6
"	2	Ud iP Sinkiang-USSR.	11 46 09.9	"	3	Up iP i Ki eP Um iP ipP (cont.)	14 02 45.6 D micr sec Z' 0.1 1.0 14 01 59 14 02 14.5 D 14 02 22.6
"	2	Up iP Ud iP De ePKP Tonga-Kermadec Islands (h = 180 km).	13 22 17.4 C 13 22 19.5 C 13 22 30	"	3	Up iP i Ki eP Um iP ipP (cont.)	14 02 45.6 D micr sec Z' 0.1 1.0 14 01 59 14 02 14.5 D 14 02 22.6

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1971

Jan. 3 (cont.)  
Ud iP 14 02 45.2 D  
ipP 14 02 53.1  
De iP 14 03 02.1

Japan.  
h = 30 km (Um,Ud).

" 3 Up micr sec  
Mx E 11 21  
Mx N 13 23  
Mx Z 20 24  
Ki iPKP 17 54 37.2  
micr sec  
Mx E 12 21  
Mx N 11 20  
Mx Z 20 21  
Um ePKP 17 54 32  
i 17 54 38.3  
Ud iPP 17 55 25.4  
De iPP 17 55 08.4  
Bouvet Island (h = N).  
M = 6.7 (Up,Ki).

" 3 Up micr sec  
Mx E 4.2 20  
Mx N 6.0 22  
Mx Z 8.7 25  
Ki micr sec  
Mx E 4.3 19  
Mx N 1.5 17  
Mx Z 2.7 17  
Ud iPKP 19 12 46.9  
Bouvet Island (h = N).  
M = 6.4 (Up,Ki).

" 3 Up iP 23 24 09.1  
iS 23 28 12.8  
micr sec  
P Z' 0.3 1.0  
Mx E 4.4 18  
Mx N 5.4 20  
Mx Z 10 20  
Ki iP 23 25 16.8 D  
i 23 25 31.3  
micr sec  
P Z' 0.4 1.5  
Mx E 4.7 19  
Mx N 6.3 21  
Mx Z 11 22  
Sk iP 23 24 49.1  
Um iP 23 24 42.4  
i 23 24 55.7  
Ud iP 23 24 17.2  
(cont.)

1971

Jan. 3 (cont.)  
De iP 23 23 46.7  
iS 23 27 34.4  
Crete (h = 30 km).  
m = 6.0, M = 5.3 (Up,Ki).

" 4 Ki iP 10 30 57.4  
Jan Mayen (h = N).

" 4 Ud iPKP 11 27 32.3 C  
De iPKP 11 27 43.6 C  
Tonga-Kermadec Islands  
(h = 580 km).

" 4 Up iSgl 12 03 55.0  
Ud iPgl 12 03 05.0  
iSgl 12 03 25.5  
De iPgl 12 03 16.8  
iSgl 12 03 45.6  
Central Sweden,  
58.6°N, 13.7°E.  
Origin time = 12 02 40.

" 4 Up iP 19 09 46.1  
micr sec  
Mx E 1.2 20  
Mx N 2.4 22  
Ki eP 19 10 02  
Sk iP 19 10 12.2  
Um iP 19 09 45.6  
Ud iP 19 10 01.4  
De eP 19 09 53  
West Pakistan (h = N).

" 4 Up iP 21 20 23.2 D  
micr sec  
P Z' 0.6 1.0  
Mx E 1.9 20  
Mx N 2.3 16  
Mx Z 3.8 19  
Ki iP 21 19 46.8 D  
micr sec  
P Z' 0.3 1.0  
Mx E 5.9 17  
Mx N 2.6 15  
Mx Z 3.5 16  
Sk iP 21 20 19.3  
ipP 21 20 30.6  
Um iP 21 20 02.4 D  
ipP 21 20 12.9  
eS 21 29 12  
iSS 21 33 41  
(cont.)

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Year	Month	Day	Station	Type	Time	Amplitude	Phase	Location	
1971	Jan.	4	(cont.)						
			Ud	iP	21 20	30.6	D		
				iPcP	21 20	45.3			
			De	iP	21 20	44.9			
			Japan.						
			h = 40 km (Sk,Um).						
			m = 6.6, M = 5.8 (Up,Ki).						
"		5	Up	iP	04 20	04.2			
			Sk	iP	04 20	06.8			
			Um	iP	04 19	48.1			
			Ud	iP	04 20	14.5			
			De	eP	04 20	23			
			Ryukyu Islands (h = 80 km).						
"		5	Um	iP	05 42	43.9			
			Japan (h = 50 km).						
"		5	Ki	iP	06 04	29.7			
			Alaska (h = 50 km).						
"		5	Ud	iP	07 20	38.2			
			Luzon (h = 70 km).						
"		5	Um	iP	23 10	08.4	C		
			Hindu Kush.						
"		6	Up	iP	06 15	49.9	C		
				iPP	06 18	33.1			
							micr sec		
			Mx	N	1.4	20			
			Mx	Z	1.6	20			
			Ki	iP	06 15	10.9			
							micr sec		
			Mx	E	2.4	17			
			Mx	N	1.8	19			
			Mx	Z	2.6	18			
			Sk	iP	06 15	43.8	C		
				iPP	06 18	22.0			
			Um	iP	06 15	28.8	C		
				ipP	06 15	39.7			
			Ud	iP	06 15	57.0	C		
				iPcP	06 16	10.4			
			De	iP	06 16	11.6	C		
			Japan.						
			h = 45 km (Um).						
			M = 5.5 (Up,Ki).						
"		6	Ki	e(Sgl)	11 45	06			
			Um	i(Sgl)	11 46	08.6			
"		6	Ud	iP	17 19	24.4			
			Kamchatka (h = N).						
1971	Jan.	6	Up	iP	17 52	12.8			
			Um	iP	17 51	45.6			
				i	17 51	49.0			
			Japan (h = 70 km).						
"		6	Ki	ePgl	18 36	29			
				iSgl	18 37	04.6			
			Sk	iSgl	18 37	11.1			
			Um	iPgl	18 36	44.4			
				iSn	18 37	18.9			
				iSgl	18 37	32.9			
			Ud	iSgl	18 38	59.1			
			Nordland, Norway,						
			66.5°N, 14.2°E.						
			Origin time = 18 35 36.						
			Explosion.						
"		6	Ki	iP	21 09	05.1			
			Um	iP	21 09	16.6			
			Mariana Islands (h = N).						
"		7	Up	iP	03 00	47.7			
				ipP	03 01	11.3			
							micr sec		
				pP	Z'	0.1	1.2		
			Ki	iP	02 59	53.1			
				ipP	03 00	17.3			
							micr sec		
				pP	Z'	0.1	1.0		
			Sk	iP	03 00	25.1			
			Um	iP	03 00	19.9	D		
				ipP	03 00	44.1			
			Ud	iP	03 00	45.0			
				ipP	03 01	10.1			
			De	iP	03 01	09.1	D		
			Aleutian Islands.						
			h = 90 km (Up,Ki,Um,Ud).						
"		7	Up	iPKP	13 28	19.9			
				ipPKP	13 28	44.0			
			Ud	iPKP	13 28	22.3	D		
				ipPKP	13 28	46.0			
			Tonga-Kermadec Islands.						
			h = 90 km (Up,Ud).						
"		7	Ki	iP	20 50	32.4			
			Colorado (h = N).						
"		8	Up	eP	06 14	31			
			Ki	iP	06 15	49.3			
			Ud	iP	06 14	46.2			
			Crete (h = 60 km).						

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1971				1971			
Jan.	8	Sk iPKP	09 16 10.8	Jan.	8	(cont.)	
		South Sandwich Islands				Ki i(P)	20 44 59.3
		(h = 140 km).				i	20 45 01.8
							micr sec
"	8	Ki iPn	11 36 01.4			P Z'	0.1 0.5
		iSn	11 37 00.3			Ud i(P)	20 45 32.2
		iSgl	11 37 19.5	"	8	Ud iP	22 15 55.6
		Um iSgl	11 38 15.3			Dodecanese Islands	
		Northwest Russia,				(h = 70 km).	
		67.0°N, 34.1°E.					
		Origin time = 11 34 43.		"	9	Up iP	00 00 41.5
		Explosion.					micr sec
"	8	Up iP	11 50 16.1			Mx E	1.7 18
		Ki iP	11 49 23.1			Mx N	2.4 19
		ipP	11 49 35.2			Mx Z	2.1 16
			micr sec			Ki eP	00 00 59
		P Z'	0.1 0.8				micr sec
		Sk iP	11 50 04.9			Mx E	2.1 11
		Um iP	11 49 48.8			Mx N	0.8 13
		ipP	11 50 00.3			Mx Z	1.7 13
		Ud iP	11 50 20.3			Sk iP	00 01 09.5
		De iP	11 50 43.6			Um iP	00 00 44.2 C
		Kamchatka.				Ud iP	00 00 57.5
		h = 45 km (Ki,Um).				De iP	00 00 52.7
"	8	Ki iPn	12 47 30.8			West Pakistan (h = 5 km).	
		iSn	12 48 16.9			M = 5.4 (Up,Ki).	
		iSgl	12 48 29.1	"	9	Ud iP	06 51 45.3
		Um iSgl	12 50 07.3	"	9	Up iP	09 54 21.8 C
		Northwest Russia.				i	09 54 29.5
		Explosion.					micr sec
"	8	Up iP	14 56 23.1 C			P Z'	0.1 1.0
			micr sec			Um iP	09 54 36.3
		P Z'	0.7 1.0	"	9	Ud iP	18 37 55.0 D
		Mx E	3.5 20			Hindu Kush (h = 240 km).	
		Mx N	7.5 17	"	10	Up iSgl	04 41 08.0
		Mx Z	12 18			Ki iPn	04 36 51.6
		Ki iP	14 55 34.3 C			iSn	04 37 48.9
			micr sec			iSgl	04 38 09.6
		P Z'	0.3 1.0			Sk iSgl	04 40 38.3
		Mx E	5.9 20			Um iSgl	04 39 05.8
		Mx N	5.5 18			iSg2	04 39 16.0
		Mx Z	13 18			Ud iSgl	04 41 42.2
		Sk iP	14 56 08.8 C			Northwest Russia,	
		Um iP	14 55 56.2 C			67.9°N, 33.7°E.	
		iS	15 04 29			Origin time = 04 35 35.	
		Ud iP	14 56 28.3 C			Explosion.	
		De iP	14 56 47.2 C	"	10	Ki iP	07 14 07.2
		Kurile Islands (h = 30 km).				Ud iP	07 14 17.0
		m = 6.6, M = 6.0 (Up,Ki).				Philippine Islands	
"	8	Up i(P)	20 44 39.8 D			(h = N).	
		i	20 44 43.3				
			micr sec				
		P Z'	0.1 0.9				
		(cont.)					



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1971				1971			
Jan.	12	(cont.)		Jan.	13	(cont.)	
		Ki eSgl	13 04 29			Sk eP	22 00 16
		Sk eSgl	13 03 32			Um eP	22 00 04
		Um iSgl	13 02 25.2			Ud iP	22 00 13.6 D
		Ud iSgl	13 02 34.4			i	22 00 17.0
		De iSgl	13 03 03.7			De iP	22 00 11.5
		Esthonia,				i	22 00 14.7
		59.4°N, 23.6°E.				Afghanistan-USSR	
		Origin time = 12 59 58.				(h = 70 km).	
		Explosion.					
"	12	Up iP	13 04 06.5	"	14	Up iP	04 31 26.2
		China.				micr sec	
						P Z'	0.1 1.4
"	12	Up iP	14 55 40.5			Sk iP	04 31 09.1
			micr sec			Um iP	04 30 58.8
		Mx N	1.5 21			Ud iP	04 31 29.9
		Mx Z	1.8 19			Kamchatka (h = 45 km).	
		Ki iP	14 55 16.2	"	14	Up iSgl	09 34 18.8
			micr sec			Ki eSgl	09 35 32
		P Z'	0.1 1.4			Sk iPgl	09 32 06.2
		Mx N	1.1 20			iSgl	09 32 53.6
		Mx Z	3.3 20			Um iSgl	09 34 41.9
		Um iP	14 55 25.6			Ud iPgl	09 32 24.9
		iPS	15 07 50			iSgl	09 33 20.7
		Ud iP	14 55 47.8			De iSgl	09 34 43.4
		De iP	14 55 56.2			West coast of Norway,	
		Caroline Islands (h = N).				62.1°N, 5.8°E.	
		M = 5.6 (Up,Ki).				Origin time = 09 31 08.	
"	13	Up iPKP	13 29 15.0	"	14	Sk iP	11 28 52.0
		i	13 29 20.5			Ud iP	11 28 45.8
		Sk iPKP	13 29 09.2 C			North Atlantic Ocean	
		Um iPKP	13 29 02.9			(h = N).	
		Ud iPKP	13 29 16.7	"	14	Ki iPn	13 11 58.0
		i	13 29 23.6			iSn	13 12 45.7
		De iPKP	13 29 24.6			iSgl	13 13 00.7
		i	13 29 37.3			Sk e(Sgl)	13 15 56
		Kermadec Islands				Northwest Russia.	
		(h = 360 km).				Origin time = 13 10 54.	
"	13	Up iSgl	16 58 16.2			Explosion.	
		Um iSgl	17 00 14.8	"	14	Ki eSgl	18 08 43
		Ud eSgl	16 58 58			Sk iSgl	18 08 47.4
		De iPgl	16 57 15.7			Um iSgl	18 09 10.4
		iSgl	16 58 10.5			Ud iSgl	18 10 39.7
		Latvia,				Nordland, Norway,	
		55.9°N, 21.0°E.				66.5°N, 14.1°E.	
		Origin time = 16 56 04.				Origin time = 18 07 13.	
		Explosion.				Explosion.	
"	13	Up iP	21 59 56.2	"	14	Up iP	23 53 45.6
			micr sec			iP	23 53 57.7
		Mx N	0.7 13			(cont.)	
		(cont.)				(cont.)	

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1971

Jan. 14 (cont.)

Up			micr	sec	
	P	Z'	0.2	1.5	
Ki	iP		23 52	51.6	C
	ipP		23 53	03.7	
			micr	sec	
	P	Z'	0.1	1.0	
Sk	iP		23 53	28.4	
	ipP		23 53	40.4	
Um	iP		23 53	17.5	
	ipP		23 53	29.9	
Ud	iP		23 53	48.9	
	ipP		23 54	00.7	
De	iP		23 54	10.9	
	ipP		23 54	23.3	

Kamchatka.  
h = 45 km (Up, Ki, Sk, Um, Ud, De).  
m = 6.0 (Up, Ki).

" 15

Ki	eP		00 00	05	
	ipP		00 00	15.5	
Sk	iP		00 00	41.1	
Um	iP		00 00	30.1	
	ipP		00 00	42.6	
Ud	iP		00 01	02.1	
	ipP		00 01	14.0	
De	iP		00 01	22.7	

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

" 15 Sk iP KP 03 56 03.8  
Kermadec Islands  
(h = 40 km).

" 15 Up iP 11 49 14.1  
micr sec  
P Z' 0.1 0.9  
Ud iP 11 49 28.3

" 15 Up iSgl 12 52 00.4  
Sk iSgl 12 53 53.6  
Um iSgl 12 52 34.0  
Ud iSgl 12 53 04.2  
De iSgl 12 53 29.5  
Esthonia,  
59.5°N, 25.1°E.  
Origin time = 12 50 00.  
Explosion.

" 15 Sk i(Sgl) 13 19 11.8  
Um i(Sgl) 13 17 25.9

" 15 Up iP 19 43 59.1  
(cont.)

1971

Jan. 15 (cont.)

Ki	iP		19 43	32.3	
Sk	iP		19 44	00.7	
Um	iP		19 43	44.0	
Ud	iP		19 44	08.0	

" 15 Up iP KP 19 52 32.0 C  
i 19 52 46.2  
micr sec  
PKP Z' 0.1 1.0  
Ki ePKP 19 52 13  
Sk iP KP 19 52 26.3  
Um iP KP 19 52 21.7  
i 19 52 33.9  
Ud iP KP 19 52 34.1  
De iP KP 19 52 43.3  
South of Kermadec Islands  
(h = N).

" 15 Up iP KP 22 05 21.0  
Sk iP KP 22 05 07.0  
Um iP KP 22 05 02.8  
Ud iP KP 22 05 14.8  
i 22 05 24.1

" 15 Up iSgl 23 09 56.1  
Ki iSgl 23 08 02.9  
Sk eSgl 23 08 07  
Um iSgl 23 08 17.1  
Ud eSgl 23 09 57  
Norway-Sweden border region,  
66.2°N, 15.0°E.  
Origin time = 23 06 37.  
Explosion.

" 16 Ki iP 09 11 31.6  
Um iP 09 11 01.3  
Congo (h = 20 km).

" 16 Ki iPgl 11 08 42.4  
iSgl 11 08 52.7  
iRg 11 08 56.9  
Sk eSgl 11 11 07  
Um i(Sgl) 11 10 09.3  
Gällivare, Sweden.  
Explosion.

" 16 Up iP KP 12 58 33.6  
ipPKP 12 58 55.1  
Ki iP KP 12 58 48.2  
ipPKP 12 59 08.3  
iSKP 13 01 59.2  
(cont.)



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

1971				1971				
Jan.	16	(cont.)		Jan.	18	Up	iP	05 13 11.9 C
		Ki				iPcP		05 13 33.1
			micr sec					micr sec
		PKP	Z' 0.1 1.0			P	Z' 0.3 1.5	
		pPKP	Z' 0.2 1.3			Ki	iP	05 12 28.5
		SKP	Z' 0.1 1.5			i		05 12 45.8
		Um	iPKP 12 58 41.8 C					micr sec
			ipPKP 12 59 03.8			P	Z' 0.1 1.3	
		Ud	iPKP 12 58 32.0			Mx	E 1.2 17	
			ipPKP 12 58 53.5			Mx	N 1.3 19	
			iPP 12 59 57.3			Mx	Z 2.3 17	
		South Sandwich Islands.				Sk	iP	05 13 15.1
		h = 80 km (Up,Ki,Um,Ud).				Um	iP	05 12 47.1
"	16	Up	iP 14 51 03.5				ipP	05 12 58.1
		Ud	iP 14 51 12.5			Ud	iP	05 13 18.1 C
"	16	Up	iP 15 14 53.9 C				iPcP	05 13 35.0
		Ki	iP 15 16 00.3			De	iP	05 13 36.3
		Sk	iP 15 15 32.4			Japan (h = 45 km).		
		Ud	iP 15 15 02.4			m = 6.1 (Up,Ki).		
		De	iP 15 14 31.0	"	18	Up	iP	06 06 00.6 C
		Dodecanese Islands						micr sec
		(h = 150 km).					P	Z' 0.1 1.4
"	16	Ud	iPgl 23 25 23.8			Ki	iP	06 05 39.6
			iSgl 23 26 02.8			i		06 05 45.4
"	17	Up	iP 05 23 37.7					micr sec
		Um	iP 05 24 18.2				P	Z' 0.1 1.0
		Ud	iP 05 23 48.0			Sk	iP	06 06 05.4
		Ionian Islands.				Um	iP	06 05 45.4
"	18	Up	eP 00 17 13			i		06 05 50.7
			micr sec			Ud	iP	06 06 03.4
		Mx	E 2.0 21			i		06 06 09.1
		Mx	N 2.3 21			Molucca Passage (h = N).		
		Mx	Z 1.9 20			m = 6.3 (Up,Ki).		
		Ki	iP 00 16 51.7	"	18	Ki	iP	07 03 01.3
			micr sec			Ud	iP	07 03 53.8
		P	Z' 0.1 1.0			De	iP	07 04 17.2
		Mx	E 1.2 20			Unimak Island (h = 60 km).		
		Mx	N 1.2 18	"	18	Up	iP	10 40 45.7
		Mx	Z 2.0 19			Ki	eP	10 42 07
		Sk	eP 00 17 12			Sk	iP	10 41 22.6
			ipP 00 17 21.1			Um	iP	10 41 26.3
		Um	iP 00 16 56.1				ipP	10 41 35.9
			ipP 00 17 06.1			Ud	iP	10 40 50.2
		Ud	iP 00 17 16.3			i		10 40 54.4
		De	iP 00 17 28.0			De	iP	10 40 15.7
		Molucca Passage.				Ionian Sea.		
		h = 35 km (Sk,Um).				h = 35 km (Um).		
		M = 5.7 (Up,Ki).		"	18	Ki	iSgl	13 04 35
						(cont.)		

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

1971				1971			
Jan.	18	(cont.)		Jan.	19	(cont.)	
		Um	iSgl 13 02 38.2			Ki	micr sec
		Ud	eSgl 13 03 08			Mx	E 1.6 14
			Esthonia.			Mx	N 1.7 17
			Explosion.			Mx	Z 2.1 16
"	18	Ud	iP 16 14 34.9			Sk	iP 23 40 03.9 D
			i 16 14 40.4			Um	iP 23 39 58.7
						Ud	iP 23 39 32.5 D
"	18	Up	eP 21 12 36			De	iP 23 38 59.6
		Ki	iP 21 12 14.7 C				ipP 23 39 08.1
			micr sec				i 23 39 14.4
			P Z' 0.1 1.0				Crete.
		Um	iP 21 12 19.5 C				h = 35 km (De).
		Ud	eP 21 12 38				M = 4.9 (Up,Ki).
			Banda Sea (h = 120 km).	"	20	Up	iPKP 01 37 12.1
						Sk	iPKP 01 37 01.8
"	19	Up	iP 03 29 37.1			Um	iPKP 01 36 56.4
			iS 03 40 07				i 01 36 59.8
			micr sec			Ud	iPKP 01 37 09.7
			P Z' 0.2 1.5	"	20	Ki	iP 02 16 08.3
		Mx	E 4.1 18			Sk	iP 02 16 37.3
		Mx	N 8.6 20			Um	iP 02 16 38.6
		Mx	Z 9.0 19				Alaska (h = 130 km).
		Ki	e(P) 03 29 08	"	20	Up	iP 04 57 37.9 C
			iP 03 29 18.2				i 04 57 58.7
			micr sec				micr sec
			P Z' 0.2 1.5				P Z' 0.3 1.1
		Mx	E 7.0 16				Mx E 1.4 18
		Mx	N 6.4 19				Mx Z 2.6 19
		Mx	Z 7.0 17			Ki	iP 04 57 36.5 C
		Sk	iP 03 29 16.9				micr sec
		Um	e(P) 03 29 19				P Z' 0.2 1.2
			i 03 29 22.3			Sk	iP 04 57 23.4 C
			iP 03 29 29.1			Um	iP 04 57 40.7 C
			iS 03 39 48				ipP 04 57 46.9
		Ud	eP 03 29 27				i 04 58 01.2
			i 03 29 36.2			Ud	iP 04 57 27.8 C
		De	iP 03 29 40.2				ipP 04 57 33.7
			Gulf of California			De	iP 04 57 31.0 C
			(h = N).				ipP 04 57 37.2
			m = 6.1, M = 6.3 (Up,Ki).				Panama.
"	19	Um	iP 03 46 39.7				h = 25 km (Um,Ud,De).
			Gulf of California				m = 6.2 (Up,Ki).
			(h = N).	"	20	Ki	iPn 12 37 30.0
"	19	Up	iP 23 39 26.1				iSn 12 38 16.2
			micr sec				iSgl 12 38 29.9
		Mx	E 0.8 14				Northwest Russia.
		Mx	N 2.5 20				Origin time = 12 36 29.
		Mx	Z 4.1 20				Explosion.
		Ki	iP 23 40 34.0 D				
			(cont.)				



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

1971				1971			
Jan.	23	(cont.)		Jan.	24		
		Ud	iSgl 12 26 12.8			Ki	iP 23 26 06.9
		De	iPgl 12 25 31.2				P 23 26 06.9
			iSgl 12 25 54.8				Z' 0.1 1.0
		South Sweden.				Sk	iP 23 26 34.1
		Origin time = 12 25 00.				Um	iP 23 26 34.9
"	23	Ki	iPn 12 50 53.3			Ud	iP 23 26 59.3
			iSn 12 51 41.4			De	iP 23 27 20.8
			iSgl 12 51 58.7			Kodiak Island (h = 40 km).	
		Um	iSgl 12 53 26.9	"	25	Up	micr sec
		Northwest Russia.					Mx E 1.5 20
		Origin time = 12 49 51.				Ki	iP 00 21 15.8
		Explosion.				Sk	iP 00 21 52.8
						Ud	iP 00 22 14.1
"	24	Up	iP 04 43 01.3			Kamchatka (h = N).	
		Ki	iP 04 42 51.2	"	25	Up	micr sec
		Sk	iP 04 43 15.6				Mx E 1.9 20
		Um	iP 04 42 51.7				Mx N 2.6 21
		Ud	iP 04 43 14.9				Mx Z 5.9 19
		Tibet.				Ki	iPKP 00 37 04.5
"	24	Up	eSgl 05 48 36				iX 00 37 11.2
		Ki	iPn 05 44 24.3				iPKKP 00 47 51.9
			iSn 05 45 22.3				micr sec
			iSgl 05 45 43.6				Mx E 2.4 20
		Sk	iSgl 05 48 10.1				Mx N 1.5 19
		Um	iSn 05 46 01.8				Mx Z 4.4 19
			iSgl 05 46 36.4			Sk	iPKP 00 37 13.2
		Ud	iSgl 05 49 04.4				iX 00 37 20.2
		Northwest Russia,				Um	iPKP 00 37 07.9
		67.7°N, 33.8°E.					iX 00 37 14.7
		Origin time = 05 43 07.				Ud	iPKP 00 37 15.9
		Explosion.				De	iPKP 00 37 21.2
							iX 00 37 27.8
"	24	De	iP 12 04 21.8			D'Entrecasteaux Islands	
"	24	Up	micr sec			(h = 40 km).	
			Mx E 1.6 17			M = 6.0 (Up,Ki).	
			Mx N 3.7 19			The phase X, interpreted	
			Mx Z 5.9 19			as pPKP, gives a focal	
		Ki	iP 13 38 39.8			depth of 25 km (Ki,Sk,	
			micr sec			Um,De).	
			Mx E 2.1 17	"	25	Ki	eP 10 56 09
			Mx N 1.6 18	"	25	Sk	iP 12 39 41.0
			Mx Z 3.9 18			Ud	i(P) 12 39 19.0
		Ud	iP 13 39 32.8			Ionian Sea.	
		Kurile Islands (h = 35 km).		"	25	Ki	iP 14 24 26.2
		M = 5.6 (Up,Ki).				Ud	iP 14 26 10.4
"	24	Ki	ePKP 18 59 36			Svalbard.	
		Um	iPKP 18 59 37.1			Solution checked with	
		Ud	iPKP 18 59 45.0			readings of Finnish	
		De	iPKP 18 59 55.6			stations (Kjn,Sod,Kev).	
		Fiji Islands (h = 560 km).					

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

1971				1971			
Jan.	25	Ki iP	14 55 52.9	Jan.	25	Ki iP	18 58 24.2
		Ud iP	14 57 30.1			Sk eP	18 59 16
		Svalbard. Solution checked with readings of Finnish stations (Nur,Kjn,Sod, Kev).				Svalbard. Cf remark on January 25, 14 55.	
"	25	Up iP	16 19 13.2	"	25	Ki iP	21 35 42.0
		i	16 19 15.5			Um iP	21 36 35.4
		iS	16 28 09			Ud iP	21 37 19.9
		iP'P'	16 47 30.7			Svalbard. Cf remark on January 25, 14 55.	
			micr sec				
		P	Z' 0.1 0.5	"	25	Ud iP	23 02 22.9
		Mx	E 12 20			Turkestan.	
		Mx	N 13 21	"	26	Ki iP	01 04 09.1
		Mx	Z 17 20			Um iP	01 05 02.3
		Ki iP	16 18 20.3			Ud iP	01 05 46.2
		i	16 18 36.4			Svalbard (h = N).	
		iPcS	16 23 02.4	"	26	Ki iP	01 54 47.4
		iS	16 26 30			Ud iP	01 56 24.7
		iP'P'	16 47 45.0			Svalbard. Cf remark on January 25, 14 24.	
			micr sec				
		P	Z' 0.1 0.6	"	26	Up iP	01 56 39.4
		Mx	E 17 21			Ki iP	01 56 40.4
		Mx	N 11 17			Um iP	01 56 37.3
		Mx	Z 19 17			De iP	01 56 48.4
		Sk iP	16 18 52.0			Nicobar Islands (h = 120 km).	
		i	16 18 54.2	"	26	Ki iP	04 04 13.6
		iPcP	16 19 25.1			Svalbard. Cf remark on January 25, 14 24.	
		iPcS	16 23 25.2	"	26	Ki iP	04 10 33.3
		iP'P'	16 47 31.6			Um iP	04 11 25.8
		Um iP	16 18 46.2			Ud iP	04 12 10.7
		iPcP	16 19 21.7			Svalbard. Cf remark on January 25, 14 55.	
		iS	16 27 18	"	26	Ki eP	04 51 43
		iP'P'	16 47 32.3			Um iP	04 52 38.3
		Ud iP	16 19 12.8			Ud iP	04 53 23.0
		i	16 19 30.5			Svalbard. Cf remark on January 25, 14 55.	
		iPcP	16 19 40.2				
		De iP	16 19 36.0				
		Aleutian Islands (h = 40 km). m = 6.2, M = 6.4 (Up,Ki).					
"	25	Up iP	16 32 50.5	"	26	Ki iP	04 10 33.3
		Ki iP	16 31 07.1			Um iP	04 11 25.8
		Sk iP	16 32 01.1			Ud iP	04 12 10.7
		Um iP	16 32 00.8			Svalbard. Cf remark on January 25, 14 55.	
		Ud iP	16 32 44.7	"	26	Ki eP	04 51 43
		Svalbard (h = N).				Um iP	04 52 38.3
"	25	Ki iP	17 06 39.6			Ud iP	04 53 23.0
		Yellow Sea.				Svalbard. Cf remark on January 25, 14 55.	

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

1971				1971							
Jan.	26	Up	eP	06 28 10	Jan.	26	Up	iP	19 11 37.8		
		Ki	iP	06 26 26.6			Ki	iP	19 11 27.7		
			iX	06 26 29.9			Sk	iP	19 11 23.4		
				micr sec			Um	iP	19 11 34.3		
			P	Z' 0.2 1.2			Mexico (h = 90 km).				
		Sk	eP	06 27 19		"	26	Up	iP	19 43 02.9	
		Um	iP	06 27 19.3					micr sec		
			iX	06 27 22.3				P	Z' 0.1 0.7		
		Ud	eP	06 28 06				Mx	E 1.6 17		
			iX	06 28 08.1				Mx	N 2.6 21		
		De	eP	06 28 49				Mx	Z 4.5 22		
		Svalbard (h = N).					Ki	iP	19 42 09.8		
		The phase X arrives in average about 3 sec after P. It can be interpreted either as P for a second event from the same area or as pP for a focal depth of 15 km (Ki,Um).							micr sec		
								Mx	E 1.1 16		
								Mx	N 1.2 18		
								Mx	Z 2.9 19		
"	26	Ki	iP	08 10 57.4			Sk	iP	19 42 41.3		
		Um	iP	08 11 52.7			Um	iP	19 42 36.3		
			ipP	08 11 59.7				i	19 42 39.1		
		Ud	iP	08 12 37.7			Ud	iP	19 43 03.1		
		Svalbard.					De	iP	19 43 25.3		
		h = 35 km (Um).						i	19 43 27.8		
							Aleutian Islands (h = 35 km).				
							M = 5.5 (Up,Ki).				
"	26	Ki	eSgl	13 50 54	"	26	Up	iP	22 03 21.5		
		Sk	iSgl	13 50 15.3			Ki	iP	22 02 28.6		
		Um	iSgl	13 48 57.2			Ud	iP	22 03 21.7		
		Ud	iSgl	13 49 27.0			Aleutian Islands (h = 60 km).				
		De	eSgl	13 49 51							
		Esthonia, 59.5°N, 25.1°E.					"	26	Up	iP	22 53 12.3
		Origin time = 13 46 23.							ipP	22 53 21.0	
		Explosion.							micr sec		
								P	Z' 0.1 0.8		
"	26	Ki	iP	15 23 36.0			Ki	iP	22 54 02.9		
		Um	iP	15 24 28.8					micr sec		
		Ud	iP	15 25 14.0				Mx	E 1.0 15		
		Svalbard.						Mx	N 0.6 16		
		Cf remark on January 25, 14 24.					Sk	eP	22 53 54		
								ipP	22 54 02.7		
"	26	Ki	eP	18 49 25			Um	iP	22 53 31.5		
		Sk	eP	18 50 17			Ud	iP	22 53 28.6		
		Um	iP	18 50 19.7				i	22 53 33.2		
		Ud	iP	18 51 02.7				ipP	22 53 37.4		
		Svalbard.					De	iP	22 53 06.0		
		Solution checked with readings of Finnish stations (Kjn,Sod).						i	22 53 09.0		
							Caucasus. h = 30 km (Up,Sk,Ud).				

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

1971					1971				
Jan.	27	Ki	iP	03 09 23.5	Jan.	27	(cont.)		
		Ud	iP	03 10 08.8			Up	micr	sec
"	27	Ki	eP	05 34 30			P	Z'	0.1 0.6
		Ud	iP	05 36 10.2			Ki	iP	22 40 39.2 C
		Svalbard.						micr	sec
		Cf remark on January 26,					P	Z'	0.1 0.7
		18 49.					Sk	iP	22 40 53.7 C
"	27	Ud	iPKP	12 57 02.6			Um	iP	22 40 36.3 C
		De	iPKP	12 57 12.9			Ud	iP	22 40 49.8 C
		Tonga-Kermadec Islands						iPP	22 43 59.4
		(h = 530 km).						iS	22 51 13.4
"	27	Um	iPP	13 47 40.0			De	iP	22 40 48.5 C
		New Guinea (h = N).						i	22 40 58.3
"	27	Up	iP	16 10 14.0			Sumatra (h = 120 km).		
		Sk	iP	16 10 56.1	"	28	Up	iSKP	00 10 29.1
		Um	iP	16 11 01.8			Ki	iPKP	00 07 02.3
		Ud	iP	16 10 20.1				ipPKP	00 07 36.3
			ipP	16 10 27.6			Sk	ePKP	00 07 14
		De	eP	16 09 43				ipPKP	00 07 47.0
		Greece-Albania.					Um	iPKP	00 07 09.0
		h = 25 km (Ud).						ipPKP	00 07 42.6
"	27	Up	iP	16 19 14.4				iSKKP	00 20 10.1
		Ki	iP	16 18 58.2			Ud	iSKP	00 10 34.9
		Sk	iP	16 19 24.4			De	iPKP	00 07 25.7
		Um	iP	16 19 03.3				eSKP	00 10 49
			i	16 19 32.2			New Hebrides Islands.		
		Ud	iP	16 19 21.8	"	28	Ki	iP	00 11 04.2
		De	eP	16 19 36.0			Um	iP	00 11 08.8
		Molucca Passage (h = N).					Banda Sea (h = N).		
"	27	Ki	eP	20 47 59	"	28	Um	iP	01 48 33.6
			ipP	20 48 05.3			Ud	iP	01 48 34.5
				micr sec			Jan Mayen (h = N).		
			pP	Z' 0.1 0.7	"	28	Sk	eSgl	03 37 48
			Mx	E 1.4 19			Um	iSgl	03 39 41.2
			Mx	N 1.7 20			Ud	iSgl	03 38 20.8
			Mx	Z 2.7 20			West coast of Norway.		
		Sk	eP	20 48 50	"	28	Sk	iP	04 37 51.6
			ipP	20 48 57.2			Um	iP	04 37 55.6
		Um	iP	20 48 52.1			Greece-Albania.		
			ipP	20 48 58.7	"	28	Ki	iP	06 17 41.7
		Ud	iP	20 49 31.5			Sk	eP	06 17 43
			ipP	20 49 38.1			Um	iP	06 17 20.9
		De	iP	20 50 18.9			Ud	iP	06 17 27.4
		Svalbard.					De	iP	06 17 12.6
		h = 30 km (Um,Ud).					Iran (h = 35 km).		
"	27	Up	iP	22 40 39.6 C	"	28	Ki	iPKP	06 46 59.0
			iPP	22 43 53.3			(cont.)		
			iS	22 50 51.2					
		(cont.)							



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

1971				1971			
Jan.	29	(cont.)		Jan.	29		
		Up	micr sec			Ki	iP 23 07 06.1
		P	Z' 3.5 1.0			Um	iP 23 07 29.4
		Mx	E 5.6 15			Ud	iP 23 08 00.7
		Mx	N 13 18				Okhotsk Sea (h = 520 km).
		Mx	Z 16 21		"	29	Ud ePKP 23 56 57
		Ki	iP 22 06 47.1 D			De	iPKP 23 57 04.6
			ipP 22 08 33.5				Tonga-Kermadec Islands
			iS 22 13 49.8				(h = 20 km).
			i(P'P') 22 36 25.9		"	30	Sk iP 00 35 44.9
			micr sec			Ud	iP 00 35 10.3
		P	Z' 2.6 0.8				Greece.
		Mx	E 8.1 13		"	30	Up iPKP 02 37 50.6
		Mx	N 5.4 14			Ud	iPKP 02 37 51.8
		Mx	Z 8.6 15			De	iPKP 02 38 03.1
		Sk	iP 22 07 24.8 D				Tonga-Kermadec Islands
			ipP 22 09 11.1				(h = 260 km).
			iScP 22 11 11.2		"	30	Um i(PcP) 07 43 17.9
			iS 22 15 01.0				Aleutian Islands
			iSP 22 15 12.9				(h = 220 km).
		Um	iP 22 07 10.3 D		"	30	Up eP 08 35 15
			ipP 22 08 58.2			Um	iP 08 35 37.8
			iScP 22 10 59.0		"	30	Um iP 08 53 05.5
			iS 22 14 36.1		"	30	Um iP 11 27 30.2
			isS 22 17 41				Japan (h = 35 km).
			i(P'P') 22 36 14.9		"	30	Um iPKP 17 44 29.0
		Ud	iP 22 07 41.7 D				i 17 44 40.5
			ipP 22 09 32.1		"	30	Ud iPKP 17 44 39.5
			iS 22 15 34.1		"	30	South of Kermadec Islands
			i(P'P') 22 35 55.6		"	30	(h = 15 km).
		De	iP 22 08 01.5 D		"	30	Up iPKP 18 48 58.4
			ipP 22 09 51.4			De	iPKP 18 49 09.5
			iS 22 16 11.0		"		Tonga-Kermadec Islands
			Okhotsk Sea.				(h = 50 km).
			h = 560 km (Up, Ki, Sk, Um, Ud, De).		"	30	Up iP 20 24 30.8
			m = 6.7, M = 6.2 (Up, Ki).			Ki	iP 20 24 34.4
			The phase taken as (P'P')			Sk	iP 20 24 53.2
			arrives in average about			Um	iP 20 24 26.4
			35 sec too early to be P'P'			Ud	iP 20 24 45.9
			in comparison with Gutenberg-		"		Tibet-India (h = 60 km).
			Richter tables.		"	31	Up iP 04 37 27.4
"	29	Up	iP 22 25 40.3 D			Ki	iP 04 35 44.8 D
			micr sec			Um	iP 04 36 37.0
		P	Z' 0.3 1.1				ipP 04 36 43.7
		Ki	iP 22 24 50.4				(cont.)
			micr sec				
		P	Z' 0.1 0.6				
		Sk	iP 22 25 27.2				
		Um	iP 22 25 13.5 D				
		Ud	iP 22 25 45.4 D				
		De	iP 22 26 04.9 D				
			Okhotsk Sea (h = 510 km).				
			m = 5.5 (Up, Ki).				

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

1971

Jan.	31	(cont.)		
		Ud	iP	04 37 28.4 D
		De	i(P)	04 38 06.9
		Svalbard.		
		h = 35 km (Um).		
"	31	Um	iSKP	17 15 33.9
		Ud	iPKP	17 12 53.7
		Tonga-Kermadec Islands		
		(h = 510 km).		
"	31	Ud	iP	19 09 29.3
			i	19 09 42.0
"	31	Um	iPKP	20 52 19.6 C
		Ud	iPKP	20 52 31.2
"	31	Ud	iP	23 18 16.3
		De	iP	23 17 36.2
		Ionian Sea.		

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October 1, 1973

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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

F E B R U A R Y 1 - 28, 1971  
.....

1971						1971				
Feb.	1	Up	iP	05 30 22.5		Feb.	1	(cont.)		
				micr sec				Sk	iP	07 55 33.3
			P	Z' 0.2 1.1				Um	eP	07 55 38
			Mx	E 3.4 18					i	07 55 41.7
			Mx	N 3.5 18				Ud	iP	07 55 01.5
			Mx	Z 3.6 18				Sicily (h = N).		
		Ki	iP	05 29 29.3						
			i	05 29 47.7		"	1	Um	e(PP)	12 15 18
				micr sec				New Guinea (h = 70 km).		
			Mx	E 3.0 17						
			Mx	N 3.5 18		"	1	Ki	iPKP	13 07 40.7
			Mx	Z 5.2 18				South Sandwich Islands		
		Sk	iP	05 30 04.9				(h = 15 km).		
		Um	iP	05 29 47.9						
			i(pP)	05 29 56.3		"	1	Ki	iP	14 29 29.4
		Ud	iP	05 30 22.0				Um	eP	14 29 34
		De	iP	05 30 45.5					i	14 29 47.8
			i	05 30 58.7				Ud	eP	14 30 03
		Aleutian Islands (h = 40 km).						Sinkiang (h = N).		
		M = 5.7 (Up,Ki).				"	1	Ki	iSgl	16 17 48.1
"	1	Up	iPKP	06 34 19.3 C				Sk	iSgl	16 17 52.5
		Ki	iPKP	06 34 08.3				Um	iSgl	16 18 17.5
		Sk	iPKP	06 34 13.6				Nordland, Norway,		
		Um	ePKP	06 34 07				66.6°N, 13.8°E.		
			ipPKP	06 34 16.1				Origin time = 16 16 18.		
		Ud	iPKP	06 34 20.7 C				Explosion.		
		De	iPKP	06 34 31.5 C		"	2	Up	eP	00 59 58
			ipPKP	06 34 42.6					iPcP	01 00 15.6
		Tonga-Kermadec Islands.						Um	iP	00 59 26.5
		h = 40 km (Um,De).						Ud	iP	00 59 53.8
"	1	Up	eP	07 54 57				De	iP	01 00 16.1
			i	07 55 08.1				Aleutian Islands (h = 40 km).		
		Ki	iP	07 56 16.2 C						
		(cont.)								

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

1971				1971			
Feb.				Feb.			
	2	Um iP	04 40 26.4		3	(cont.)	
		Japan (h = 50 km).				Ki iP	20 00 46.2
"	2	Ud iP	05 29 45.7			i	20 00 50.2
"	2	Up iP	08 10 12.2 C			P	Z' 0.1 0.7
		ipP	08 10 25.3			Sk iP	20 01 13.2
			micr sec			Um iP	20 00 59.0 D
		P	Z' 0.1 0.8			Ud iP	20 01 21.2
		Ki iP	08 10 08.4 C			De iP	20 01 34.9 D
		ipP	08 10 21.5			Mariana Islands (h = 40 km).	
			micr sec			m = 6.4 (Up,Ki).	
		P	Z' 0.2 1.1	"	4	Up iP	02 28 11.2
		Sk iP	08 10 29.2 C			Ki iP	02 27 39.5
		ipP	08 10 42.1			Um iP	02 27 51.4
		Um iP	08 10 05.8 C			Mariana Islands (h = 45 km).	
		ipP	08 10 18.9	"	4	Ud i(Sgl)	10 56 30.4
		Ud iP	08 10 25.5 C			De i(Sgl)	10 56 50.2
		ipP	08 10 38.7	"	4	Up iPKP	13 59 48.6
		De iP	08 10 26.5 C			Ud iPKP	13 59 49.7
		ipP	08 10 39.6			De iPKP	14 00 00.2
		India-East Pakistan.				Tonga-Kermadec Islands	
		h = 50 km (Up,Ki,Sk,Um,Ud,De).				(h = 90 km).	
		m = 6.1 (Up,Ki).		"	4	Up eP	14 20 28
"	2	Um iPKP	15 37 31.8			Sicily (h = N).	
		Ud iPKP	15 37 43.0	"	4	Up iP	15 46 01.2 D
		De iPKP	15 37 47.3			iPP	15 49 19.4
		Tonga Islands (h = 90 km).				iS	15 56 20
"	2	Ki iSgl	19 27 04.4				micr sec
		Sk iSgl	19 27 08.0			P	Z' 4.2 1.5
		Um iSgl	19 27 32.8			Mx	E 86 31
		Nordland, Norway,				Mx	N 140 30
		66.6°N, 13.6°E.				Mx	Z 180 31
		Origin time = 19 25 31.				Ki iP	15 46 02.0 D
		Explosion.					micr sec
"	2	Ki i(Sgl)	20 48 23.0			P	Z' 8.0 2.0
		Sk i(Sgl)	20 48 35.6			Mx	E 78 14
"	3	Um iP	04 58 56.0			Mx	N 60 14
		Sicily (h = N).				Mx	Z 93 20
"	3	Sk iP	18 33 49.8			Sk iP	15 46 17.5 D
		Um iP	18 33 37.3			Um iP	15 45 58.2 D
		Ud iP	18 33 06.5			Ud iP	15 46 11.6 D
		Greece (h = 50 km).				De iP	15 46 10.0 D
"	3	Up iP	20 01 15.3 D			Sumatra (h = N).	
			micr sec			m = 7.5, M = 7.3 (Up,Ki).	
		P	Z' 0.3 1.3	"	5	Ud iPKP	02 24 09.3
		(cont.)				De iPKP	02 24 20.1



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

1971				1971					
Feb.	7	(cont.)		Feb.	7	Up	iP	03 11 38.0	
		Um	ipP	02 40 09.8		Ki	eP	03 10 44	
			iP'P'	03 07 56.5		Um	iP	03 11 13.9	
		Ud	iP	02 40 26.2		Ud	eP	03 11 37	
			i	02 40 30.5		Aleutian Islands (h = 50 km).			
			ipP	02 40 37.3					
			iP'P'	03 08 49.0	"	7	Up	iP	03 14 14.6 C
		De	iP	02 40 48.7		Um	eP	03 13 48	
			i	02 40 52.5		Ud	iP	03 14 14.4	
			ipP	02 40 58.4		Aleutian Islands (h = 50 km).			
		Aleutian Islands.			"	7	Up	iP	03 30 15.2
		h = 40 km (Up,Ki,Um,Ud,De).					iPcP	03 30 41.1	
		M = 6.8 (Up,Ki).				Ki	eP	03 29 22	
"	7	Ki	iPP	02 44 26.2		Um	iP	03 29 48.4	
		Um	iPP	02 44 42.9			iPcP	03 30 21.1	
		Solomon Islands (h = 210 km).				Ud	iP	03 30 15.6	
"	7	Up	iP1	02 53 03.4		De	eP	03 30 38	
			iP2	02 53 04.4		Aleutian Islands (h = 20 km).			
			i	02 53 08.5	"	7	Up	iP	03 31 59.4
				micr sec			iPcP	03 32 24.0	
		P	Z'	0.3 0.7				micr sec	
		Ki	iP1	02 52 09.8			P	Z'	0.1 0.9
			iP2	02 52 10.7		Ki	eP	03 31 10	
		Um	iP1	02 52 36.1		Um	iP	03 31 32.8	
			iP2	02 52 37.0			iPcP	03 32 06.2	
		Ud	iP1	02 53 03.0		Ud	iP	03 32 00.0	
			iP2	02 53 04.0		De	iP	03 32 22.0	
			i	02 53 19.5		Aleutian Islands (h = 45 km).			
		De	iP1	02 53 25.2	"	7	Up	iP	04 12 57.2 C
			iP2	02 53 26.3		Ud	iP	04 12 57.1	
		Aleutian Islands (h = 50 km).				Aleutian Islands (h = 50 km).			
		Double P, in average 1.0 sec apart.			"	7	Ud	eP	05 05 29
"	7	Up	iP	03 01 50.9			i	05 05 44.1	
		Um	iP	03 01 24.0		De	iP	05 04 43.9	
		Ud	iP	03 01 50.4		Dodecanese Islands (h = 20 km).			
		De	iP	03 02 12.7					
		Aleutian Islands (h = N).		"	7	Up	iP	05 19 54.8	
"	7	Up	iP	03 04 10.5 D		Aleutian Islands (h = 60 km).			
			iPcP	03 04 35.4	"	7	Up	iP	08 45 56.3
				micr sec		Um	iP	08 45 30.5	
		P	Z'	0.1 0.9		Ud	iP	08 46 01.5	
		Ki	iP	03 03 17.5		De	iP	08 46 20.6	
		Um	iP	03 03 43.4		Aleutian Islands.			
			iPcP	03 04 17.1		Origin time = 08 34 58.			
		Ud	iP	03 04 10.5	"	7	Ki	iPn	09 56 20.6
		De	iP	03 04 32.8			iSn	09 57 07.1	
			iPcP	03 04 48.7			iSgl	09 51 22.0	
		Aleutian Islands (h = N).				(cont.)			

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

1971				1971					
Feb.	7	(cont.)		Feb.	8	Ki	iSgl	16 23 25.9	
		Um	iSgl	09 58 20.6		Um	iSn	16 23 38.2	
		Probably northwest Russia.					eSgl	16 23 52	
		Origin time = 09 55 19.				Ud	iSgl	16 25 17.6	
		Explosion.				Nordland, Norway, 66.6°N, 14.0°E.			
"	7	Ki	iPn	12 46 19.3	"	8	Ki	eP	19 26 31
			iSn	12 47 06.8			Um	iP	19 26 41.9
			iSgl	12 47 20.4			Ud	iP	19 27 07.8
		Um	iSgl	12 48 54.0			Ryukyu Islands (h = 40 km).		
		Probably northwest Russia.							
		Origin time = 12 45 17.							
		Explosion.							
"	7	Um	iP	16 30 52.4	"	8	Ki	iPKP	20 57 22.0
		Ud	iP	16 31 26.6			Um	iPKP	20 57 12.7
		Kurile Islands.				Ud	iPKP	20 57 06.0	
"	7	Up	iPKP	17 09 39.9			South Shetland Islands (h = N).		
				micr sec	"	8	Up	iP	21 20 49
			PKP	Z' 0.1 0.8			e(PKP)	21 23 22	
		Um	iPKP	17 09 30.1			iPKP	21 23 36.9	
			i	17 09 44.1			ipPKP	21 23 46.5	
		Ud	iPKP	17 09 40.9			iPP	21 26 18.2	
			i	17 09 42.3			iPKS	21 27 11	
		De	iPKP	17 09 50.7				micr sec	
		Kermadec Islands (h = N).				Mx	E	26 22	
"	7	Ki	iP	21 21 26.0			Mx	N	12 21
		Um	iP	21 21 52.7			Mx	Z	54 23
		Ud	iP	21 22 18.4		Ki	e(PKP)	21 23 47	
		Aleutian Islands.				iPKP	21 23 57.1		
		Origin time = 21 11 18.				i	21 24 45.8		
"	8	Ki	iP	01 13 05.7				micr sec	
		Um	iPcP	01 14 19.1			Mx	E	21 19
		Aleutian Islands (h = 60 km).				Mx	N	12 19	
"	8	Up	iP	02 40 09.2			Mx	Z	55 18
				micr sec		Um	i(PKP)	21 23 39.2	
			P	Z' 0.1 1.0			iPKP	21 23 49.8	
		Ki	iP	02 39 15.7 C			iPKS	21 27 23	
				micr sec		Ud	iPKP	21 23 38.0	
			P	Z' 0.1 0.9			ipPKP	21 23 48.8	
		Um	iP	02 39 41.9 C		De	iPKP	21 23 33.4	
		Ud	iP	02 40 10.6 C		South Shetland Islands. h = 35 km (Up,Ud).			
		De	iP	02 40 32.6 C		M = 7.1 (Up,Ki).			
		Aleutian Islands (h = 45 km).		"	8	Um	iP	22 20 05.1	
		m = 6.0 (Up,Ki).		"	8	Um	eP	22 38 33	
"	8	Ud	iP	10 19 48.7	"	9	Um	ePKP	03 36 25
		Ryukyu Islands (h = N).				South Sandwich Islands (h = 100 km).			

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

1971				1971					
Feb.	9	Up	iP	09 55 59.1	Feb.	9	(cont.)		
		Um	iP	09 55 37.9			Um	iP	21 26 04.4
		Ud	iP	09 56 06.6			Ud	iP	21 25 33.1
				Japan (h = 40 km).			De	iP	21 24 57.1
							Greece (h = 30 km).		
"	9	Ki	iPKP	13 07 45.1	"	10	Um	eP	05 18 24
			iX	13 07 50.9			California (h = 10 km).		
		Um	iPKP	13 07 54.0					
			iX	13 07 59.9					
		Ud	iX	13 08 10.3			Ud	iPKP	08 34 23.2
				New Zealand (h = 35 km).			De	iPKP	08 34 32.5
"	9	Up	ePKP	13 33 09	"	10	Ki	iPgl	09 05 22.4
		Ki	iPKP	13 32 54.0				iSgl	09 05 43.9
		Um	iPKP	13 33 01.9			Sk	eSgl	09 07 28
			i	13 33 07.9			Um	iSgl	09 07 26.7
"	9	Up	iP	14 12 46.9 C			North Norway, 68.3°N, 15.8°E.		
			iS	14 22 47			Origin time = 09 04 55.		
				micr sec			Ki shows a sequence of events, probably originating in the same region.		
			P	Z' 1.3 1.1					
			Mx	E 26 17					
			Mx	N 39 17					
			Mx	Z 77 17					
		Ki	iP	14 12 13.7 C	"	10	Up	eSgl	12 09 14
			iP'P'	14 39 52.7			Ud	iSgl	12 09 11.1
				micr sec			De	iPgl	12 07 16.3
			P	Z' 1.2 1.2				iSgl	12 07 31.5
			Mx	E 46 16			Baltic Sea, near south coast of Sweden.		
			Mx	N 28 17			Origin time = 12 06 58.		
			Mx	Z 54 16					
		Um	iP	14 12 32.8 C	"	10	Ki	eSgl	12 17 42
			iP'P'	14 39 48.1			Sk	eSgl	12 16 58
		Ud	iP	14 12 39.1 C			Um	iSgl	12 15 39.4
		De	iP	14 12 55.3 C			Ud	iSgl	12 16 09.1
				California (h = 15 km).			De	iSgl	12 16 33.2
				m = 6.9, M = 6.9 (Up,Ki).			Esthonia, 59.4°N, 25.4°E. Origin time = 12 13 01. Explosion.		
"	9	Um	iP	14 22 48.1	"	10	Sk	i(Sgl)	12 27 10.9
		Ud	iP	14 22 26.9			Um	i(Sgl)	12 25 47.2
"	9	Up	iP	16 10 27.0			Probably Esthonia. Explosion.		
		Ki	iP	16 09 53.9					
		Um	iP	16 10 12.7					
			ipP	16 10 16.4	"	10	Um	iSgl	13 45 53.4
		Ud	iP	16 10 19.4			Ud	iSgl	13 47 28.0
			ipP	16 10 22.7			De	eSgl	13 48 06
		De	iP	16 10 34.9			Lake Ladoga.		
				California. h = 15 km (Um,Ud).	"	10	Sk	i(Sgl)	15 26 20
"	9	Up	iP	21 25 20.8			Ud	i(Sgl)	15 25 11.9
		Sk	iP	21 26 05.8			(cont.)		



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

1971				1971					
Feb.	10	Up	iP	23 39	11.8	Feb.	11	(cont.)	
			iPP	23 40	36.4			Ud iP	17 01 48.3 C
			i	23 40	42.2			De iP	17 01 14.3
		Ki	i(PP)	23 41	07.5			Greece.	
		Sk	iP	23 39	38.5				
		Um	iP	23 39	05.4	"	11	Up iP	18 53 24.4
			i	23 39	08.7			Ki eP	18 54 50
			iPP	23 40	31.7			Sk iP	18 54 01.7
		Ud	iP	23 39	25.2			Um iP	18 54 08.3
			i	23 39	28.2			Ud iP	18 53 22.9
		De	eP	23 39	22			Italy (h = 5 km).	
			i	23 39	25.9				
		Afghanistan-USSR (h = 30 km).				"	11	Ki iP	22 51 57.3
								Sk eP	22 52 10
"	11	De	iP	01 47	12.6			Um iP	22 51 53.5
		Iran-USSR (h = 50 km).						Ud iP	22 52 05.5
"	11	De	iP	08 09	02.9			Sumatra (h = 100 km).	
"	11	Um	i(Sgl)	10 36	00.6	"	12	Um iP	03 18 59.4
		De	i(Sgl)	10 36	56.1			Ud iP	03 19 17.0
		Mindanao (h = 140 km).				"	12	Sk iP	03 33 54.0
"	11	Up	iP	13 06	52.5			Um iP	03 33 47.9 C
			i	13 06	53.4			i	03 33 51.2
					micr sec			Ud iP	03 33 12.6 C
			P	Z'	0.2 0.8			Yugoslavia.	
			Mx	E	0.8 17				
			Mx	N	0.8 17				
			Mx	Z	1.2 18	"	12	Up iP	04 58 57.1
		Ki	iP	13 06	00.5			Ki iP	05 00 22.6
			iPcP	13 06	44.3			Sk iP	04 59 34.5
		Sk	iP	13 06	32.1			Um iP	04 59 40.8
		Um	iP	13 06	24.8			Ud iP	04 58 55.8
			i	13 06	26.6			Italy (h = N).	
			iPcP	13 07	00.2	"	12	Up iP	05 27 33.7
		Ud	iP	13 06	52.4			Ki iP	05 26 41.4
			i	13 06	53.5			Um iP	05 27 07.0
			iPcP	13 07	17.6			Ud iP	05 27 34.4
		De	iP	13 07	14.3			De iP	05 27 56.4
			i	13 07	15.4			Aleutian Islands (h = 40 km).	
			iPcP	13 07	27.8	"	12	Um iP	05 36 00.8
		Aleutian Islands (h = 50 km).						Italy (h = N).	
"	11	Up	iP	14 08	47.3	"	12	Up iP	07 51 53.8
		Um	iP	14 08	26.1			Ki iP	07 53 18.5
			i	14 08	41.3			Sk eP	07 52 31
		Ud	iP	14 08	56.9			i	07 52 34.9
		De	iP	14 09	14.1			Um iP	07 52 36.0
		Kurile Islands (h = 40 km).						Ud iP	07 51 50.8
"	11	Up	iP	17 01	41.3 C			Yugoslavia (h = N).	
		Sk	iP	17 02	25.1 C				
		Um	iP	17 02	22.7				
		(cont.)							

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

1971				1971			
Feb.	12	Up	ipP	08 37 39.5	Feb.	14	(cont.)
		Um	eP	08 37 00			Up
				Formosa (h = 80 km).			micr sec
"	12	Ki	ePn	10 51 25			P
			iSn	10 52 10.4			Z' 0.2
		Sk	iSgl	10 55 05.0			E 1.7
		Um	iSgl	10 53 24.2			N 2.9
				Northwest Russia.			Z 3.9
				Explosion.			16 34 43.4 C
"	12	Up	eP	14 33 51			i
		Ki	iP	14 33 35.6			16 35 58.2
		Ud	iP	14 34 04.8			micr sec
				Luzon.			P
"	12	Up	ePP	19 26 28			Z' 0.5
			iPKKP	19 36 34.5			E 7.3
		Ki	iP	19 21 04.6			N 7.7
			iPP	19 25 31.2			Z 7.8
				micr sec			16 34 47.8 C
		Mx	E	1.3 21			Sk iP
		Mx	N	0.9 20			Um iP
		Um	iPKP	19 25 12.3			i
			iPP	19 25 51.9			iPP
		De	ePKP	19 25 30			iS
			i	19 26 09.2			Ud iP
				New Guinea (h = 110 km).			i
"	12	Um	iP	23 46 26.1			iPP
				Celebes (h = 60 km).			16 35 40.7
"	13	Up	ePKP	08 18 10			16 39 53
		Sk	iPKP	08 18 03.5			Ud iP
		Um	iPKP	08 17 58.0			i
			i(pPKP)	08 18 09.2			iPP
		Ud	iPKP	08 18 12.1			De iP
		De	iPKP	08 18 20.1			i
				Kermadec Islands (h = 40 km).			iPP
"	13	Up	iP	20 00 05.9			16 34 19.1 C
		De	iP	20 00 04.0			16 34 23.7
"	13	De	iPKP	23 54 35.7			16 35 24.4
				Loyalty Islands (h = 30 km).			Iran (h = 40 km).
"	14	Um	i(P)	08 23 12.8			m = 6.1, M = 5.5 (Up, Ki).
"	14	Ki	iP	14 38 17.1			" 14 Up iP
				Molucca Passage (h = 55 km).			Ki iP
"	14	Up	iP	16 34 14.1			Sk eP
			iPP	16 35 26.4			Um iP
			iS	16 39 35			Ud iP
				(cont.)			De iP
"	14	Up	iP	16 34 14.1			17 16 57.2
			iPP	16 35 26.4			17 16 19.6
			iS	16 39 35			17 16 54
				(cont.)			17 16 39.4
"	14	Up	iP	16 34 14.1			17 17 04.1
			iPP	16 35 26.4			17 17 16.1
			iS	16 39 35			Bonin Islands (h = 440 km).
				(cont.)			" 14 De iPKP
"	14	Up	iP	16 34 14.1			19 50 43.7
			iPP	16 35 26.4			Fiji Islands (h = 610 km).
			iS	16 39 35			" 15 Um iPKP
				(cont.)			04 03 27.2
"	14	Up	iP	16 34 14.1			Ud ePKP
			iPP	16 35 26.4			04 03 38
			iS	16 39 35			eSKP
				(cont.)			04 06 11
"	14	Up	iP	16 34 14.1			De iP
			iPP	16 35 26.4			04 03 35.3
			iS	16 39 35			Fiji Islands (h = 580 km).
				(cont.)			" 15 Up iPKP
"	14	Up	iP	16 34 14.1			08 09 27.0
			iPP	16 35 26.4			iSKP
			iS	16 39 35			08 12 18.4
				(cont.)			ipPKS
"	14	Up	iP	16 34 14.1			08 15 35.9
			iPP	16 35 26.4			iSKKP
			iS	16 39 35			08 20 31.9
				(cont.)			Ki i(PKP)
"	14	Up	iP	16 34 14.1			08 09 05.2 D
			iPP	16 35 26.4			iPKP
			iS	16 39 35			08 09 09.5
				(cont.)			iSKP
"	14	Up	iP	16 34 14.1			08 11 53.8
			iPP	16 35 26.4			micr sec
			iS	16 39 35			PKP
				(cont.)			Z' 0.8
"	14	Up	iP	16 34 14.1			1.1
			iPP	16 35 26.4			(cont.)
			iS	16 39 35			

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

1971					1971				
Feb.	15	(cont.)			Feb.	16	Ki	iP	13 16 05.4
		Sk	e(PKP)	08 09 19 D			Um	i(P)	13 16 18.8
			iPKP	08 09 22.0			Ud	iP	13 16 30.4
			iSKP	08 12 09.0			Molucca Passage (h = 30 km).		
		Um	e(PKP)	08 09 14	"	16	Up	iP	14 37 56.6 C
			iPKP	08 09 15.3					micr sec
			iSKP	08 12 03.5				P	Z' 0.4 1.2
			iSKKP	08 20 49.4				Mx	E 7.2 18
		Ud	iPKP	08 09 29.2				Mx	N 6.1 19
			iSKP	08 12 19.8				Mx	Z 15 19
			ipPKS	08 15 38.8			Ki	iP	14 37 32.1
			iSKKP	08 20 27.1					micr sec
		De	i(PKP)	08 09 36.8				P	Z' 0.3 1.4
			iPKP	08 09 39.7				Mx	E 3.3 17
			ipPKP	08 11 51.0				Mx	N 2.7 17
			ipPKS	08 15 48.6				Mx	Z 5.2 18
		Tonga-Kermadec Islands.					Sk	iP	14 38 00.3
		h = 580 km (De).					Um	iP	14 37 41.2
"	15	Up	iP	08 24 48.5				iPcP	14 37 56.1
				micr sec			Ud	iP	14 38 06.0
			P	Z' 0.1 0.9			Formosa (h = 30 km).		
			Mx	E 1.3 12			m = 6.4, M = 5.9 (Up, Ki).		
			Mx	N 1.4 16	"	16	De	iPKP	14 57 26.7
			Mx	Z 1.9 13			Fiji Islands (h = 520 km).		
		Ki	iP	08 25 56.2	"	17	Ki	iP	00 53 50.1
				micr sec			Um	iP	00 54 12.2
			P	Z' 0.1 1.0			Ud	iP	00 54 43.2
		Sk	iP	08 25 32.1			Kurile Islands (h = 50 km).		
		Um	iP	08 25 21.3 C	"	17	Up	iPKP	04 19 12.4 C
		Ud	iP	08 25 01.7 C			Ki	iPKP	04 19 27.1
		De	iP	08 24 27.9 C			Um	iPKP	04 19 20.1
		Turkey (h = 30 km).					Ud	iPKP	04 19 11.0
		m = 5.4 (Up, Ki).					South Sandwich Islands		
"	16	Up	iP	01 43 04.3 C			(h = N).		
		Sk	eP	01 43 07	"	17	Up	iP	05 24 10.6
		Ud	iP	01 43 14.0					micr sec
		De	iP	01 43 22.3				P	Z' 0.1 1.2
		Ryukyu Islands (h = 30 km).					Ki	iP	05 23 29.6
"	16	Ki	iPn	09 31 23.1				ipP	05 23 43.2
			iP*	09 31 34.0					micr sec
			iSn	09 32 23.2				P	Z' 0.2 1.3
			iS*	09 32 42.7				Mx	E 0.9 17
		Sk	eSgl	09 35 10				Mx	N 0.6 17
		Um	iSn	09 33 00.7				Mx	Z 1.0 16
			iSgl	09 33 34.7			Sk	eP	05 23 57
		Ud	eSgl	09 36 12				iPP	05 26 27.7
		Northwest Russia,					(cont.)		
		67.5°N, 34.3°E.							
		Origin time = 09 30 04.							
		Explosion.							

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

1971				1971						
Feb.	17	(cont.)		Feb.	18	Up	iP	03 10 37.1		
		Um	iP	05 23 47.4			iS	03 14 59		
			ipP	05 24 02.4				micr sec		
		Ud	iP	05 24 17.7			Mx	E 0.9 19		
			ipP	05 24 34.7			Mx	N 1.1 16		
		Japan.					Mx	Z 1.5 18		
		h = 60 km (Ki,Um,Ud).				Ki	iP	03 09 10.9		
		m = 6.0 (Up,Ki).					iS	03 12 29		
								micr sec		
"	17	Up	iP	07 17 36.9			P	Z' 1.9 2.1		
		Ki	iP	07 17 37.8 D			Mx	E 1.6 18		
			ipP	07 17 56.9			Mx	N 1.8 18		
				micr sec			Mx	Z 3.4 19		
			P	Z' 0.1 1.0		Sk	iP	03 09 59.3		
		Sk	iP	07 17 52.0			iPP	03 10 21.4		
			ipP	07 18 10.7		Um	iP	03 09 57.1		
		Um	iP	07 17 34.4 D			i	03 10 04.6		
			ipP	07 17 53.0			iS	03 13 46		
		Ud	iP	07 17 47.3 D		Ud	iP	03 10 34.0		
		De	iP	07 17 45.9			i	03 10 40.4		
			ipP	07 18 05.0			Arctic Ocean (h = N).			
		Sumatra.					M = 4.4 (Up,Ki).			
		h = 70 km (Ki,Sk,Um,De).				"	18	Um	iP	07 27 12.6
"	17	Ki	iP	10 34 49.3	"	18	Ki	iPKP	08 06 26.5	
			i	10 34 56.0	"	18	Um	iPKP	08 06 24.2	
		Ud	iP	10 35 03.1			Ud	iPKP	08 06 15.5	
			i	10 35 10.1			Chile (h = 30 km).			
		Kirghiz SSR.				"	18	Sk	eP	09 32 41
"	17	Ki	iPn	10 51 40.7	"	18	Um	iP	09 32 58.3	
			iSn	10 52 39.3			Mexico (h = 80 km).			
		Sk	eSgl	10 55 28	"	18	Ki	eSgl	09 47 14	
		Um	iSgl	10 53 55.9			Sk	iPgl	09 46 24.5	
		Northwest Russia,						iSgl	09 47 04.7	
		67.8°N, 34.0°E.				"	18	Ki	iP	10 59 07.7
		Origin time = 10 50 23.						Pamir.		
		Explosion.				"	18	Ki	iSgl	18 35 26.6
"	17	Ki	iP	17 19 32.5	"	18	Sk	iSgl	18 35 34.0	
		Ud	iP	17 20 25.2			Um	iSgl	18 35 56.9	
"	17	Ki	iSgl	18 48 25.5			Nordland, Norway,			
		Sk	iSgl	18 48 32.0			66.6°N, 14.0°E.			
		Um	iSgl	18 48 56.1			Origin time = 18 33 57.			
		Nordland, Norway,					Explosion.			
		66.6°N, 14.0°E.				"	18	Up	eSn	23 46 02
		Origin time = 18 46 56.						Ud	iSn	23 45 30.1
		Explosion.						De	ePn	23 43 11
"	18	Um	iP	02 31 08.9				iSn	23 44 23.1	
		Ud	iP	02 31 16.9			Germany (h = 25 km).			

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

1971				1971			
Feb.	19	Ki eP	06 40 28	Feb.	20	Ki iP	01 05 44.9
		Sk iP	06 40 20.4			Um iP	01 05 59.4
		Um iP	06 40 36.0			Ud iP	01 06 26.3
		Ud iP	06 40 28.8				
		Guatemala (h = 70 km).		"	20	Up ipP	07 20 37.4
"	19	Up eP	10 21 05			iPP	07 21 07.4
		Ki eP	10 21 13			iS	07 24 45
		Sk eP	10 21 30				micr sec
		Um iP	10 21 02.6			Mx E	0.4 8
		Ud iP	10 21 21.3			Mx N	0.6 9
		De iP	10 21 16.9			Mx Z	0.9 9
		Afghanistan-USSR (h = 110 km).				Ki eP	07 21 36
"	19	Ki iPn	10 51 10.1				micr sec
		iSn	10 52 07.9			Mx E	0.7 8
		Sk eSgl	10 54 57			Mx N	0.3 10
		Um iSgl	10 53 22.6			Mx Z	0.4 10
		Northwest Russia, 67.7°N, 33.8°E. Origin time = 10 49 53. Explosion.				Um iP	07 20 58.1
"	19	Ud eP	12 10 46			Ud iP	07 20 38.9
		De iP	12 10 34.2			ipP	07 20 43.8
"	19	Um iP	13 23 32.3			De iP	07 20 08.1
"	19	Up iP	14 29 43.1			ipP	07 20 13.2
		South Africa (h = N).				Turkey. h = 20 km (Ud,De). M = 4.6 (Up,Ki).	
"	19	Up iP	14 38 54.0	"	20	Ki eP	09 56 33
		Ud iP	14 39 03.5			Um iP	09 57 20.4
		Sunda Strait (h = N).				Arctic Ocean (h = N).	
"	19	Up ipP	17 12 50.6	"	20	Up iP	11 22 19.2
		Ki eP	17 11 55			Ud iP	11 22 21.5
		ipP	17 12 40.6			De iP	11 22 31.9
		Sk iP	17 11 45.7	"	20	Up eP	12 37 45
		ipP	17 12 32.2			Ki	micr sec
		Um iP	17 12 02.8			Mx E	1.0 20
		ipP	17 12 48.0			Mx N	0.3 15
		Ud iP	17 11 55.3			Mx Z	0.9 18
		ipP	17 12 39.6			Sk iP	12 37 27.7
		De eP	17 12 02			Um iP	12 37 42.4
		ipP	17 12 47.0			Ud iP	12 37 35.3
		El Salvador. h = 170 km (Ki,Sk,Um,Ud,De).				De eP	12 37 43
"	19	Ud iP	18 55 12.7			Mexico (h = 35 km).	
"	19	Ud iP	20 46 25.3	"	20	Up eP	12 46 11
						Ki iP	12 44 43.3
						i(PP)	12 44 53.2
							micr sec
						P Z'	0.1 1.1
						Mx E	0.6 15
						Mx N	0.6 16
						Mx Z	1.2 19

(cont.)

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

1971	Feb.	20	(cont.)	1971	Feb.	21	(cont.)
			Sk iP 12 45 30.2				Up iX3 11 04 55.5
			Um iP 12 45 30.0				iX4 11 04 56.7
			ipP 12 45 37.1				micr sec
			Ud iP 12 46 07.9			Mx E 5.8 19	
			De iP 12 46 38.1			Mx N 5.1 19	
			Arctic Ocean.			Mx Z 7.9 19	
			h = 25 km (Um).			Ki iP 10 49 40.0	
"		20	Ki iPn 14 51 51.9			iPKP 10 53 33.8	
			iSn 14 52 39.0			iPP 10 54 08.3	
			iSgl 14 52 55.9			eSKS 10 59 54	
			Um iSgl 14 54 25.4			iX1 11 04 31.4	
			Probably northwest Russia.			iX2 11 04 34.8	
			Origin time = 14 50 50.			iX4 11 04 44.0	
			Explosion.			micr sec	
						Mx E 6.1 19	
"		20	Ki iPn 14 53 30.0			Mx N 4.7 21	
			Um iSgl 14 56 02.3			Mx Z 17 22	
			Probably northwest Russia.			Sk eP 10 49 18	
			Explosion.			iPP 10 53 40.6	
						eX1 11 04 47	
"		21	Um ipP 00 00 57.3			iX2 11 04 49.3	
			Celebes Sea (h = 540 km).			Um eP 10 49 40	
"		21	Up iSgl 00 06 26.4			iPKP 10 53 34.0	
			Um iSgl 00 08 28.9			iPP 10 54 09.2	
			Ud iSgl 00 06 03.7			iSKS 10 59 52	
			De iPgl 00 04 11.1			iS 11 01 28	
			i 00 04 16.0			iX1 11 04 34.9	
			iSgl 00 04 29.9			iX2 11 04 38.1	
			Zealand, Denmark,			iX3 11 04 46.0	
			55.8°N, 11.8°E.			iX4 11 04 49.1	
			Origin time = 00 03 48.			iP'P' 11 13 03.6	
"		21	Up iPKP 03 38 47.9			Ud iP 10 49 15.5	
			Um iSKP 03 41 31.0			i 10 53 25.5	
			Ud iPKP 03 38 50.0			iPP 10 53 34.8	
			De iPKP 03 39 00.6			iX1 11 04 47.1	
			Tonga-Kermadec Islands			iX2 11 04 50.0	
			(h = 510 km).			iX3 11 05 04.0	
"		21	Ud iPKP 08 48 14.1			iX4 11 05 07.3	
			De iPKP 08 48 24.5			De iP 10 49 10.8	
			Fiji Islands (h = 600 km).			iPP 10 53 30.0	
"		21	Up iP 10 49 23.3			iX1 11 04 51.1	
			iPKP 10 53 29.8			iX2 11 04 54.2	
			iPP 10 53 48.9			eX3 11 05 09	
			iSKS 10 59 43.6			iX4 11 05 12.2	
			iS 11 01 07			iP'P' 11 13 11.6	
			iX1 11 04 41.2			Chile-Argentina (h = 170 km).	
			iX2 11 04 44.4			M = 6.3 (Up,Ki).	
			(cont.)			M uncorrected for focal depth.	
						The phases marked X belong to	
						a group of PKKP phases.	

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

1971				1971					
Feb.	21	Ki	iP	11 52 48.9	Feb.	22	(cont.)		
			ipP	11 52 55.6			Up	micr sec	
		Sk	eP	11 53 06			P	Z' 0.5 1.6	
		Um	iP	11 52 40.5			Mx	E 1.8 16	
		Ud	iP	11 53 02.8			Mx	N 1.3 12	
			ipP	11 53 10.0			Mx	Z 2.6 13	
		De	epP	11 53 09		Ki	eP	14 34 04	
		Kirghiz SSR.						micr sec	
		h = 25 km (Ki,Ud).					Mx	E 2.4 15	
							Mx	N 1.1 14	
"	21	Up	iP	14 53 46.4			Mx	Z 1.6 14	
			ipP	14 53 54.6		Sk	eP	14 33 43	
		Ki	iP	14 53 25.8		Um	iP	14 33 25.0	
			ipP	14 53 34.3		Ud	iP	14 33 08.1	
		Um	iP	14 53 32.5		De	iP	14 32 38.5	
			ipP	14 53 41.5		Turkey (h = 45 km).			
		Ud	iP	14 53 55.8		M = 4.9 (Up,Ki).			
			ipP	14 54 05.3					
		Philippine Islands.			"	22	Um	iP	21 45 22.3
		h = 30 km (Up,Ki,Um,Ud).			"	22	Ki	iP	22 21 44.8
"	21	Up	iP	18 42 26.3			Um	iP	22 21 55.8
			ipP	18 42 32.4			Ud	eP	22 22 14
				micr sec		Molucca Passage (h = N).			
			pP	Z' 0.1 0.9	"	23	Ki	iP	09 11 49.4
		Ki	iP	18 41 43.3			Sk	iP	09 12 01.7
		Sk	eP	18 42 18			Um	iP	09 12 24.5
		Um	iP	18 42 02.4			Ud	eP	09 12 46
			ipP	18 42 08.9		Jan Mayen (h = N).			
		Ud	iP	18 42 33.4	"	23	Up	i(Sn)	12 06 20.9
			ipP	18 42 39.7				iSgl	12 06 35.6
		Japan.					Ki	eSgl	12 09 11
		h = 25 km (Up,Um,Ud).					Sk	eSgl	12 08 29
"	22	Ud	iP	07 56 44.8			Um	iSgl	12 07 08.4
		Hindu Kush.					Ud	iSgl	12 07 36.7
"	22	Um	iP	08 40 31.2			De	eSgl	12 08 04
		Ud	iP	08 40 48.9		Esthonia, 59.4°N, 25.4°E.			
		Celebes (h = N).			Origin time = 12 04 30.				
"	22	Ki	eSgl	11 39 09		Explosion.			
		Um	iSgl	11 37 11.5	"	23	Ud	iP	15 59 40.2
		Ud	eSgl	11 37 41			De	iP	15 59 08.4
		De	iSgl	11 38 08.0	"	23	Up	iP	16 14 45.9
		Esthonia.						micr sec	
		Explosion.					P	Z' 0.1 0.9	
"	22	Um	iP	12 29 27.8			Ki	iP	16 14 10.1
		Ud	iP	12 29 15.4			Um	iP	16 14 25.3
		Rhodesia (h = N).					Ud	iP	16 14 53.3
"	22	Up	iP	14 32 57.1 C		Japan (h = 280 km).			
			i	14 33 03.3	"	23	Ki	iSgl	17 36 28.4
		(cont.)			(cont.)				

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

1971								1971		
Feb.	23	(cont.)				Feb.	24	Up	iP	19 32 31.7
		Sk	iSgl	17 36 32.6				Ki	iP	19 32 10.2
		Um	iSgl	17 36 56.0				Um	iP	19 32 17.7
		Nordland, Norway, 66.5°N, 13.9°E. Origin time = 17 34 58. Explosion.						Ud	eP	19 32 39
								Philippine Islands (h = 40 km).		
"	23	Up	iP	19 46 08.6 C		"	24	Um	iP	20 32 20.0
			iS	19 49 59				Ud	eP	20 32 58
			iLgl	19 52 43.9				Japan (h = 45 km).		
				micr sec		"	24	Um	iP	22 32 29.3
		P	Z'	0.2 0.9				Kodiak Island (h = 35 km).		
		Mx	E	34 17		"	25	Ki	iP	00 54 15.2
		Mx	N	23 16		"	25	Ki	iP	04 28 33.5
		Mx	Z	9.9 10				Um	iP	04 28 39.4
		Ki	iP	19 47 19.5				Nicaragua (h = 50 km).		
				micr sec		"	25	Ki	iP	04 39 12.1
		Mx	E	19 14				Um	iP	04 39 07.4
		Mx	N	3.9 14				Andaman Islands (h = 130 km).		
		Mx	Z	4.9 13		"	25	Ki	iP	04 53 16.9
		Sk	iP	19 46 55.8				Turkey (h = 15 km).		
		Um	iP	19 46 44.1 C		"	25	Ki	iP	06 50 49.1
			ipP	19 46 48.4						micr sec
			iS	19 51 04				P	Z'	0.1 0.9
		Ud	iP	19 46 19.7				Um	iP	06 51 15.9
		De	iP	19 45 46.7				Ud	iP	06 51 41.4
		Turkey. h = 15 km (Um). M = 5.9 (Up,Ki).						De	iP	06 52 01.7
"	23	Ud	iP	21 30 08.5				Aleutian Islands (h = 30 km).		
"	24	Ki	iP	02 21 03.0		"	25	Ki	iP	11 32 54.1
		Um	iP	02 20 31.8		"	25	Up	iP	14 49 13.1
		Ud	iP	02 20 06.9						micr sec
		Turkey (h = 10 km).						P	Z'	0.2 1.3
"	24	Up	ePKP	05 22 11				Ki	iP	14 48 54.7
		Ud	iPKP	05 22 13.4 C						micr sec
"	24	Up	iSgl	12 52 48.9				P	Z'	0.2 0.9
		Um	iSgl	12 53 20.6				Sk	eP	14 49 17
		Probably Esthonia. Explosion.						Um	iP	14 49 00.8
"	24	Up	iX	17 37 22.2				Ud	iP	14 49 20.1
		Ki	eP	17 36 36				Mindanao (h = 90 km). m = 6.3 (Up,Ki).		
		Um	iP	17 36 48.1		"	25	Um	iP	15 08 44.3
			iX	17 37 04.4		"	25	Up	iP2	19 39 18.7
		Ud	iP	17 37 14.3				(cont.)		
		Ryukyu Islands (h = 20 km).								



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

1971				1971			
Feb.	25	(cont.)		Feb.	26		
		Up	micr sec			Ud	iP 10 38 19.4
		P2	Z' 0.3 1.2	"	26	Ki	iPn 10 55 58.7
		Mx	E 0.9 16				iSn 10 56 57.5
		Mx	N 1.2 14				iS* 10 57 16.5
		Mx	Z 2.4 14			Sk	iSgl 10 59 45.4
		Ki	iP1 19 38 33.9			Um	iSn 10 57 36.7
			iP2 19 38 39.9				iSgl 10 58 08.0
			iPcP 19 39 09.0				Northwest Russia,
			micr sec				67.6°N, 34.0°E.
		P2	Z' 0.1 1.0				Origin time = 10 54 40.
		Mx	E 1.8 17				Explosion.
		Mx	N 1.9 15	"	27	Ki	eSKP 00 26 55
		Mx	Z 3.1 16			Um	iSKP 00 27 06.1
		Sk	iP1 19 39 08.0			Ud	iPKP 00 24 30.5
			iP2 19 39 14.1				iSKP 00 27 19.2
		Um	iP1 19 38 50.2 C				Tonga-Kermadec Islands
			iP2 19 38 56.4				(h = 590 km).
		Ud	iP1 19 39 19.0	"	27	Ki	i(PcP) 00 43 00.1
		De	iP2 19 39 41.6				micr sec
			Japan (h = 40 km).			Mx	E 0.8 16
			m = 6.2, M = 5.5 (Up,Ki).			Mx	N 0.7 20
			Double P, about 6 sec apart.			Mx	Z 0.6 15
"	25	Up	iP 22 26 32.2 C			Sk	i(pP) 00 43 04.0
			ipP 22 26 40.7			Um	iP 00 43 05.0
			micr sec				ipP 00 43 13.5
		P	Z' 0.1 0.8			Ud	iP 00 43 17.2
		pP	Z' 0.2 1.2				ipP 00 43 24.1
		Ki	iP 22 26 33.8 C				California.
			ipP 22 26 42.7				h = 30 km (Um,Ud).
			micr sec	"	27	Um	iP 02 37 13.8
		P	Z' 0.2 0.8			Ud	iP 02 37 45.1
		pP	Z' 0.1 1.0				Kurile Islands (h = N).
		Mx	E 1.3 18	"	27	Up	iPKP 05 02 54.7
		Mx	N 0.9 20			Um	iPKP 05 02 47.0
		Mx	Z 2.9 19			Ud	iPKP 05 02 54.5
		Sk	iP 22 26 47.8 C			De	iPKP 05 03 05.8
			ipP 22 26 57.7				Fiji Islands (h = 520 km).
		Um	iP 22 26 30.0 C	"	27	Ud	iP 05 21 53.8
			ipP 22 26 39.1				Kurile Islands (h = 60 km).
			iS 22 36 34	"	27	Up	iP 09 07 53.0 C
		Ud	iP 22 26 43.3 C				micr sec
			ipP 22 26 53.0			Ki	iP 09 07 12.8 C
		De	iP 22 26 40.9 C				micr sec
			ipP 22 26 49.6			P	Z' 0.1 0.7
			Sumatra.				(cont.)
			h = 35 km (Up,Ki,Sk,Um,Ud,De).				
			m = 6.0 (Up,Ki).				
"	26	Ki	iPKP 05 14 23.6				
		Sk	iPKP 05 14 34.6				
		Um	iPKP 05 14 29.8				
			Solomon Islands (h = 90 km).				

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

1971						1971				
Feb.	27	(cont.)				Feb.	28	Ki	iP	07 31 43.6
		Sk	iP	09 07 46.3				Um	i(PcP)	07 32 44.4
		Um	iP	09 07 30.7 C				Aleutian Islands (h = 55 km).		
		Ud	iP	09 08 00.4		"	28	Ki	e(P)	07 55 20
		De	iP	09 08 16.1				Um	i(P)	07 56 36.0
		Japan (h = 45 km).				"	28	Um	iP	08 37 32.3
		m = 6.1 (Up,Ki).						Aleutian Islands (h = 25 km).		
"	27	Ki	i(Sgl)	10 22 02.1		"	28	Sk	e(Sgl)	13 43 40
		Sk	i(Sgl)	10 22 11.0				Um	i(Sgl)	13 42 39.4
"	27	Up	iPKP	13 45 03.6		"	28	Ki	eP	18 29 23
		Ki	ePKP	13 44 55				Sk	iP	18 29 46.3
		Um	iPKP	13 44 57.9				Mindanao (h = 90 km).		
		Ud	ePKP	13 45 06		"	28	Um	iP	22 16 26.1
		De	iPKP	13 45 15.1				Volcano Islands (h = 220 km).		
		Fiji Islands (h = 390 km).								
"	27	Up	i(pP)	16 44 31.9						
				micr sec						
		Mx	E	1.6 17						
		Mx	N	2.2 18						
		Mx	Z	1.7 18						
		Ki	iP	16 43 17.9						
				micr sec						
		Mx	E	3.0 17						
		Mx	N	2.5 17						
		Mx	Z	1.9 17						
		Sk	eP	16 43 54						
		Um	iP	16 43 36.7						
			ipP	16 43 47.2						
			iS	16 52 27						
		Ud	iP	16 44 07.1						
		Japan.								
		h = 40 km (Um).								
		M = 5.6 (Up,Ki).								
"	27	Um	iP	16 48 14.3						
"	27	Up	iP	19 13 32.7						
		Ki	iP	19 12 39.6						
		Sk	eP	19 13 27						
		Um	iP	19 13 05.6						
		Ud	iP	19 13 34.2						
		Aleutian Islands (h = 35 km).								
		Markus Båth Ota Kulhánek Klaus Meyer								
		October 12, 1973								
"	28	Ki	ePn	05 17 35						
			iSn	05 18 33.7						
			iS*	05 18 53.9						
		Sk	iSgl	05 21 20.3						
		Um	eSn	05 19 10						
			iSgl	05 19 42.2						
			iSg2	05 19 51.5						
		Northwest Russia.								
		Explosion.								

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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

MARCH 1 - 31, 1971

1971					1971				
Mar.	1	Up	iP	01 06 23.0	Mar.	2	Ki	eP	03 23 21
		Sk	eP	01 06 36			Um	eP	03 23 04
		China (h = N).							
"	1	Up	iPKP	12 29 28.9	"	2	Up	iP	09 10 39.1
		i		12 29 32.9			Ki	iP	09 10 40.3
		Ki	iPKP	12 29 25.1			Um	iP	09 10 36.6
		i		12 29 35.4			Sumatra (h = 90 km).		
		Sk	iPKP	12 29 33.5	"	2	Um	iP	15 48 13.2
		Um	iPKP	12 29 24.2			i		15 48 29.4
		i		12 29 34.2	"	2	Um	iP	18 57 01.8
		West of Macquarie Islands (h = N).					Italy (h = 20 km).		
"	1	Ki	iP	12 52 51.5	"	3	Up	eP	01 00 52
		Sk	iP	12 53 06.5			Ki	iP	01 00 36.6
"	1	Ki	iPKP	13 21 06.0			ipP		01 00 54.4
		Sk	iPKP	13 21 14.1			Um	iP	01 00 46.6
		Um	iPKP	13 21 07.3			ipP		01 01 02.2
		West of Macquarie Islands (h = N).					Mexico. h = 70 km (Ki,Um).		
"	1	Ki	iP	13 25 26.4	"	3	Up	iP	02 24 32.0 C
"	1	Ki	iP	13 40 16.3			Ki	eP	02 25 02
		Um	iP	13 40 09.8			Sk	eP	02 25 04
"	1	Ki	iPKP	13 41 27.0			Um	iP	02 24 43.1
		Sk	ePKP	13 41 35			De	iP	02 24 33.2
		Um	iPKP	13 41 24.4			Arabian Peninsula (h = 35 km).		
		West of Macquarie Islands. Origin time = 13 21 45.			"	3	Ki	iPKP	09 45 14.3
"	1	Up	eP	23 49 46			Um	iPKP	09 45 20.6
		Um	iP	23 49 21.3			New Hebrides Islands (h = 210 km).		

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

1971						1971				
Mar.	3	Ki	iPn	12 38 07.0		Mar.	3	(cont.)		
			iSn	12 38 52.2				Um	iP	22 04 17.6
			iSgl	12 39 07.4					ipP	22 04 53.4
		Um	iSgl	12 40 47.1				De	iP	22 05 10.8
			Northwest Russia-Norway border region.						Kurile Islands.	
			Origin time = 12 37 07.						h = 130 km (Up,Ki,Um).	
			Explosion.						m = 6.1, M = 5.3 (Up,Ki).	
"	3	Up		micr sec		"	3	Um	iP	23 14 55.8
		Mx	E	2.1 16				Kurile Islands (h = N).		
		Mx	N	1.5 17		"	4	Up	iP	00 39 47.7 C
		Mx	Z	3.5 20					i	00 40 56.1
		Ki	eP	14 58 35					iS	00 48 59.9
				micr sec						micr sec
		Mx	E	2.7 15					P	Z' 0.7 1.1
		Mx	N	1.7 15				Ki	iP	00 39 14.9 C
		Mx	Z	3.1 18					iS	00 47 58
		Sk	iP	14 58 58.3						micr sec
		Um	iP	14 58 53.8					P	Z' 0.5 0.8
			iS	15 09 09					Mx	E 0.7 17
			Gulf of California						Mx	N 0.6 17
			(h = 35 km).						Mx	Z 1.4 16
			M = 5.8 (Up,Ki).					Sk	iP	00 39 44.8 C
"	3	Up	iP	16 08 57.4					iPP	00 42 43.7
		Ki	iP	16 08 28.8				Um	iP	00 39 29.0 C
		Sk	eP	16 08 57					iPcP	00 39 39.6
		Um	iP	16 08 39.8					iPP	00 42 19.8
			Ryukyu Islands (h = N).						iS	00 48 25.0
"	3	Up	iP	19 06 06.9					iSS	00 53 18
		Ki	iP	19 07 18.2				De	iP	00 40 07.3 C
		Sk	iP	19 06 45.4					South of Japan (h = 430 km).	
		Um	iP	19 06 42.5					m = 6.2 (Up,Ki).	
			i	19 07 02.5		"	4	Ki	iPKP	03 29 19.8
		De	iP	19 05 38.4				Sk	ePKP	03 29 29
			Greece (h = 60 km).					Um	iPKP	03 29 16.8
"	3	Up	iP	22 04 44.3					West of Macquarie Islands (h = N).	
			ipP	22 05 19.5		"	4	Up	iP	07 59 50.5
				micr sec						micr sec
		pP	Z'	0.1 0.9					P	Z' 0.1 1.0
		Mx	E	1.5 25					Mx	E 0.9 18
		Mx	N	1.1 20					Mx	N 1.0 19
		Mx	Z	1.6 20					Mx	Z 0.8 20
		Ki	iP	22 03 55.5				Ki	iP	07 59 07.9
			ipP	22 04 29.6						micr sec
				micr sec					Mx	E 1.5 17
		pP	Z'	0.3 1.5					Mx	N 1.2 18
		Mx	E	1.6 23				Um	iP	07 59 26.9
		Mx	N	1.7 24					ipP	07 59 36.4
		Mx	Z	1.6 20					Japan.	
		Sk	iP	22 04 32.6					h = 35 km (Um).	
			(cont.)						M = 5.3 (Up,Ki).	

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

1971				1971			
Mar.	4	Up	iP	10 42 02.1	Mar.	5	(cont.)
				micr sec			Sk iP 21 05 54.2
			P	Z' 0.2 1.4			Um iP 21 05 41.3
		Ki	iP	10 42 02.9			ipP 21 06 33.3
				micr sec			Ud iP 21 06 03.0
			P	Z' 0.1 1.0			Mariana Islands.
		Sk	eP	10 42 27			h = 190 km (Up,Ki,Um).
		Um	iP	10 41 59.7 D			
		De	iP	10 42 11.3	"	6	Ud iP 00 28 44.8
		Sumatra (h = N).					Atlantic Ocean (h = N).
		m = 6.1 (Up,Ki).					
"	4	Um	iP	11 57 01.3	"	6	Um iP 01 33 21.3
		Japan (h = 30 km).					Japan (h = 70 km).
"	4	Um	i(Sgl)	12 22 19.4	"	6	Um iPKP 04 59 10.6
							Ud ePKP 04 59 15
"	4	Ki	iPgl	14 32 53.8			De iPKP 04 59 21.3
			iSgl	14 33 15.2			Fiji Islands (h = 540 km).
		Lofoten, Norway.			"	6	Up iP 08 12 18.4
"	4	Ki	iSgl	14 33 49.3			Ki iP 08 12 00.1
		Lofoten, Norway.					Um iP 08 12 01.0
"	5	Ki	iP	10 32 05.7			Ud eP 08 12 21
		Mexico (h = 150 km).					Formosa (h = 40 km).
"	5	Ki	iPn	11 25 54.8	"	6	Um iP 08 27 54.6
			iSn	11 26 52.9	"	6	Sk iP 10 38 55.9
			iSgl	11 27 12.7			Um iP 10 38 53.6
		Sk	iSgl	11 29 40.9			Ud iP 10 38 20.0
		Um	iSn	11 27 32.4			i 10 38 23.4
			iSgl	11 28 02.0			Greece.
		Northwest Russia,			"	6	Ki iPn 10 45 48.3
		67.4°N, 33.7°E.					iSn 10 46 36.9
		Origin time = 11 24 37.					iS* 10 46 50.2
		Explosion.					iSgl 10 46 54.0
"	5	Ud	eP	14 45 40			Um eSn 10 47 45
							iSgl 10 48 20.5
"	5	Ki	iSgl	17 37 16.4			Northwest Russia.
		Sk	iSgl	17 37 20.9			Origin time = 10 44 44.
		Um	iSgl	17 37 43.3			Explosion.
		Ud	iSgl	17 39 11.1	"	6	Up iP 21 10 08.9
		Nordland, Norway,					Ki iP 21 09 39.3 C
		66.5°N, 14.1°E.					Sk iP 21 10 05.8
		Origin time = 17 35 47.					Um iP 21 09 52.2 C
		Explosion.					Ud iP 21 10 15.6 C
"	5	Up	iP	21 05 57.2			De iP 21 10 27.0 C
			i	21 06 03.3			Volcano Islands (h = 30 km).
			ipP	21 06 50.1	"	6	Ki iP 23 08 53.2
		Ki	iP	21 05 29.4			i 23 09 22.6
			ipP	21 06 20.6			Ud iP 23 09 13.8
		(cont.)					Kazakh SSR.

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

1971				1971			
Mar.	7	Ud	iP	03 06 12.4	Mar.	9	(cont.)
"	7	Ki	eP	04 45 24			h = 15 km (Um,De).
		Ud	iP	04 45 46.1			M = 5.0 (Up,Ki).
				Mindanao (h = 130 km).	"	9	Ki iSKP 08 32 51.0
"	7	Um	iP	07 40 23.9			Um iSKP 08 32 59.6
				Molucca Passage (h = 60 km).			Ud iPKP 08 30 21.4
"	7	Ud	iP	12 25 51.4 D			De iSKP 08 33 20.5
		De	iP	12 25 34.5 D			Tonga-Kermadec Islands
"	7	Ki	eP	22 08 18			(h = 510 km).
		Ud	eP	22 08 44	"	9	De iPgl 11 06 29.1
				Talau Islands (h = 100 km).			iSgl 11 06 31.7
"	8	Ud	iP	07 28 41.2	"	9	Ki iSgl 11 26 35.2
"	8	Um	iP	08 06 25.0			Sk iSgl 11 26 38.2
				Japan (h = 40 km).			Um iSgl 11 26 48.3
"	8	Ud	eP	11 14 45			Sweden-Norway border region,
				Talau Islands (h = 80 km).			66.1°N, 15.3°E.
"	8	Up	eP	16 41 04	"	9	Origin time = 11 25 10.
		Sk	iP	16 40 52.9			Explosion.
		Um	iP	16 41 04.3			Ki eSgl 12 51 32
		Ud	eP	16 40 51			Sk eSgl 12 50 46
		De	iP	16 40 56.3			Um iSgl 12 49 39.2
				Panama (h = 15 km).			De eSgl 12 50 17
"	8	De	iPKP	21 46 45.0			Esthonia.
				Fiji Islands (h = 610 km).			Explosion.
"	8	Up	iP	22 49 57.8	"	9	Um iP 13 30 56.3
		Um	iP	22 50 32.3			Panama (h = 25 km).
		Ud	eP	22 50 07	"	9	Um iP 15 24 59.7
		De	iP	22 49 39.2			Ud iP 15 25 30.4
				Turkey (h = 20 km).			Kurile Islands (h = N).
"	9	Up	iP	05 03 24.5 C	"	9	Um iP 15 41 07.3
				micr sec			Ud iP 15 41 35.6
		P	Z'	0.2 0.9			South of Japan (h = 60 km).
		Mx	E	1.9 10	"	9	Um iP 21 30 58.2
		Mx	Z	2.0 15			Japan (h = 60 km).
		Ki		micr sec	"	10	Um iP 00 52 43.1
							Java (h = 90 km).
		Mx	E	4.7 13	"	10	Up eP 03 33 27
		Mx	N	1.4 15			Um iP 03 34 07.0
		Mx	Z	1.8 15			Ud iP 03 33 38.4
		Sk	iP	05 04 04.7			Ionian Islands.
		Um	iP	05 04 04.3	"	10	Ud e(Sgl) 12 19 42
			ipP	05 04 08.6			De i(Pgl) 12 17 39.8
		De	iP	05 02 52.0	"	10	De iPgl 12 35 07.1
			ipP	05 02 56.2			iSgl 12 35 33.2
				Greece.			
				(cont.)			

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

1971				1971					
Mar.	10	Up	iSgl	12 54 45.6	Mar.	12	Up	iP	00 07 30.4
		Ud	eSgl	12 54 48			Ki	iP	00 07 28.2
		De	iPgl	12 52 44.6			Sk	eP	00 07 52
			iSgl	12 53 02.2			Um	iP	00 07 23.0
		Baltic Sea, south of Sweden,					Ud	iP	00 07 47.3
		55.5°N, 15.1°E.					De	iP	00 07 47.5
		Origin time = 12 52 23.					Kirghiz-Sinkiang (h = N).		
		Explosion?							
"	10	De	i(Sgl)	13 32 09.9	"	12	Ud	eP	05 35 27
		Japan (h = 80 km).				India-China (h = 35 km).			
"	10	Um	iP	15 19 35.2	"	12	Um	iP	11 19 04.2
"	10	Up	eP	15 48 56	"	12	Ki	iPn	11 42 32.2
"	10	Up	i(pP)	15 49 29.4				iSn	11 43 29.5
		Um	iP	15 49 02.2				iSgl	11 43 50.8
		Ud	iP	15 49 16.2			Sk	iSgl	11 46 19.9
			ipP	15 49 24.8			Um	iSn	11 44 10.3
		Vancouver Island.						iS*	11 44 39.9
		h = 30 km (Ud).						iSgl	11 44 46.9
"	10	Ki	eP	17 28 22			Northwest Russia,		
						67.9°N, 33.7°E.			
						Origin time = 11 41 16.			
						Explosion.			
"	11	Up	iP	04 54 06.5	"	12	Ud	i(Sgl)	11 46 14.6
		Um	iP	04 53 53.9			De	i(Sgl)	11 46 31.6
		Ud	eP	04 54 19	"	12	Up	iP	12 48 23.3
		China (h = 60 km).				Ki	iP	12 50 01.4	
"	11	Ki	iP	05 53 46.3			Um	iP	12 49 06.7
		Um	iP	05 53 44.9				i	12 52 41.7
		Java (h = 90 km).						iLgl	12 54 03.3
"	11	Ud	iPKP	08 41 12.3			De	iP	12 47 57.7
		Tonga Islands (h = N).				Rumania (h = 150 km).			
"	11	Um	iSgl	12 41 08.5	"	12	Ki	i(Sgl)	13 03 53.1
		Esthonia.				Northern Finland.			
		Explosion.							
"	11	Um	iP	15 35 28.4	"	12	Um	iP	14 03 41.3
		Gulf of Alaska (h = 20 km).							
"	11	Ki	iPn	17 33 24.1	"	12	Ki	iSgl	18 12 47.6
			iSn	17 34 10.3			Sk	iSgl	18 12 52.8
		Um	iSgl	17 36 03.4			Um	iSn	18 13 02.2
		Northwest Russia-Norway						iSgl	18 13 16.3
		border region.				Nordland, Norway,			
		Origin time = 17 32 23.				66.5°N, 14.1°E.			
		Explosion.				Origin time = 18 11 19.			
"	11	Um	iP	20 21 04.8	"	12	Up	iP	22 44 55.5
		Japan (h = 150 km).					ipP	22 45 06.9	
						(cont.)			

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

1971				1971			
Mar.	12 (cont.)			Mar.	13 (cont.)		
	Up	iS	22 54 52		Sk	ePKP	07 16 47
			micr sec		Um	ePKP	07 16 49
		pP	Z' 0.1 0.7		Ud	ePKP	07 16 39
		Mx	E 1.7 18		South Sandwich Islands		
		Mx	N 2.4 17		(h = N).		
		Mx	Z 2.9 21				
	Ki	eP	22 44 39	"	13	Ki	iSgl 10 51 39.4
			micr sec			Sk	iSgl 10 52 07.0
		Mx	E 3.3 14			Um	iSgl 10 50 17.8
		Mx	N 2.3 20		Probably southern Finland.		
		Mx	Z 1.6 14				
	Sk	eP	22 45 02	"	13	Up	micr sec
	Um	iP	22 44 42.8			Mx	E 1.5 20
		iS	22 54 30			Mx	N 4.0 22
	Ud	iP	22 45 05.0			Mx	Z 4.9 21
		ipP	22 45 15.8		Ki	iPKP	16 07 04.7
	De	eP	22 45 14				micr sec
	Philippine Islands.					Mx	E 3.0 21
	h = 40 km (Up,Ud).					Mx	N 2.6 20
	M = 5.8 (Up,Ki).					Mx	Z 3.4 19
"	13	Um	eP 02 49 16		Um	iPKP	16 07 12.0
			i 02 49 30.5		Fiji Islands (h = 20 km).		
		Ud	iP 02 49 43.9		M = 6.2 (Up,Ki).		
	Ryukyu Islands (h = 35 km).			"	13	Up	iP 19 26 58.2
"	13	Up	iP 03 10 48.8			iPKP	19 30 50.0
			i 03 10 57.1			iPKKP	19 41 34.5
			micr sec				micr sec
		P	Z' 0.1 1.1		Mx	E 1.9 20	
		Mx	N 1.4 20		Mx	N 1.8 20	
		Mx	Z 2.0 21		Mx	Z 1.4 20	
	Ki	iP	03 10 06.2		Ki	iP 19 26 32.4 C	
			micr sec			iPKP	19 30 39.3
		P	Z' 0.1 1.1			iPKKP	19 41 53.1
		Mx	E 1.5 17				micr sec
		Mx	N 0.5 15		Mx	E 0.9 19	
		Mx	Z 1.9 17		Mx	N 0.9 20	
	Sk	iP	03 10 49.4		Mx	Z 1.5 19	
	Um	iP	03 10 24.9 C		Sk	iPKP 19 30 51.0	
		ipP	03 10 39.5			iPKKP	19 41 36.2
	Ud	iP	03 10 54.7		Um	iP 19 26 42.5	
		ipP	03 11 08.9			iPKP	19 30 43.7
	Japan.					iPP	19 31 16.5
	h = 50 km (Um,Ud).					iPKKP	19 41 45.4
	m = 6.0, M = 5.4 (Up,Ki).				Ud	iP 19 27 03.5	
"	13	Up	i(pP) 03 44 27.7			iPKP	19 30 52.3
		Um	iP 03 43 58.2			iPKKP	19 41 30.6
			i(pP) 03 44 08.8		De	iPKP 19 30 56.8	
	Ryukyu Islands (h = N).					iPP	19 32 04.8
"	13	Ud	iP 04 56 40.7	"	14	Up	iP 00 02 23.2
	Tien-Shan.					iS	00 11 23
"	13	Up	iPKP 07 16 40.8				micr sec
		Ki	iPKP 07 16 55.7			P	Z' 0.4 1.3
	(cont.)					Mx	E 3.4 18
					(cont.)		



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

1971					1971				
Mar.	14	(cont.)			Mar.	14	Um	eP	20 54 09
		Up		micr sec			Ud	eP	20 53 26
		Mx	N	6.0 21			Gibraltar (h = 30 km).		
		Mx	Z	9.6 22					
		Ki	iP	00 01 37.9 D	"	14	Um	iP	23 33 41.2
				micr sec			South Africa (h = 40 km).		
		P	Z'	0.4 1.6					
		Mx	E	7.2 18	"	15	Ki	iP	04 27 20.2
		Mx	N	11 23			Sk	eP	04 27 57
		Mx	Z	17 24			Um	iP	04 27 32.8
		Sk	iP	00 01 56.0 D			Ud	eP	04 28 12
			iP'P'	00 31 08.4			South of Japan (h = 35 km).		
		Um	iP	00 02 03.2 D					
			iS	00 10 43	"	15	Ud	iP	05 29 39.4
			iP'P'	00 30 59.2			Vancouver Island (h = 35 km).		
		Ud	iP	00 02 18.5 D					
			ipP	00 02 26.8	"	15	Up	iP	05 46 48.4 C
		Vancouver Island.						i	05 46 57.9
		h = 30 km (Ud).							micr sec
		m = 6.4, M = 6.0 (Up,Ki).						P	Z' 0.3 1.1
"	14	Um	iPKP	06 28 30.3			Mx	E	1.0 17
			i	06 28 44.2			Mx	N	1.9 21
			iSKP	06 32 01.8			Mx	Z	2.0 21
		Loyalty Islands (h = 10 km).					Ki	iP	05 46 05.2 C
								iPcP	05 46 42.0
									micr sec
"	14	Ki	iP	06 50 34.7			P	Z' 0.2 1.0	
		Sakhalin (h = 260 km).					Mx	E	2.6 23
							Mx	N	1.9 23
"	14	Ki	iSn	10 38 59.4			Mx	Z	2.2 20
			iSgl	10 39 20.7			Sk	iP	05 46 40.1 C
		Um	eSgl	10 40 12			Um	iP	05 46 24.5 C
		Northwest Russia.					Ud	iP	05 46 54.8 C
		Explosion.					De	iP	05 47 11.8 C
							Japan (h = 50 km).		
"	14	Up	iP	12 25 37.1			m = 6.3, M = 5.5 (Up,Ki).		
		Ki	iP	12 24 43.1					
				micr sec	"	15	Ud	iPKP	11 07 33.2
		P	Z'	0.1 0.9			Tonga Islands (h = N).		
		Sk	iP	12 25 19.6					
		Um	iP	12 25 08.6	"	15	Ki	iP	14 23 33.8
		Ud	iP	12 25 40.3			Um	iP	14 23 48.3
		De	iP	12 26 02.3			Ud	iP	14 24 15.4
		Kamchatka (h = 35 km).					South of Japan (h = N).		
"	14	Ki	iPn	13 15 21.5	"	15	Up	iP	15 28 19.7
			eSn	13 16 10			Ki	iP	15 29 31.5
		Sk	iSgl	13 19 20.8			Sk	iP	15 29 00.1
		Um	iSn	13 17 20.1			Um	iP	15 28 55.2
			iSgl	13 17 56.1			Ud	iP	15 28 28.6
		Northwest Russia-Norway					De	iP	15 27 53.5
		border region.					Greece (h = 30 km).		
		Explosion.			"	15	Um	iPKP	19 04 37.8
							New Zealand (h = N).		

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

1971				1971						
Mar.	15	Sk	iPKP	19 17 07.7	Mar.	16	Um	iP	17 07 41.3	
		Um	iPKP	19 17 05.0			Formosa (h = 70 km).			
		New Hebrides Islands				"	16	Up	iP	20 48 24.5
		(h = 50 km).						ipP	20 48 39.2	
"	15	Up	iPKP	21 10 45.0				iPP	20 52 09.9	
			iSKP	21 13 57.0				iSKS	20 58 53	
		Ki	iPKP	21 10 30.8				iS	20 59 23	
		Sk	iPKP	21 10 41.8					micr sec	
			iSKP	21 13 53.9				P	Z' 0.1 1.0	
		Um	iPKP	21 10 36.9				pP	Z' 0.2 0.9	
		Ud	iPKP	21 10 46.5				Mx	E 3.8 20	
			iSKP	21 14 01.9				Mx	N 5.7 21	
		De	iPKP	21 10 52.8				Mx	Z 7.7 19	
			iSKP	21 14 10.2			Ki	iP	20 48 05.4	
		New Hebrides Islands						iSKS	20 58 27	
		(h = 120 km).							micr sec	
"	15	Ud	iP	21 26 33.3				P	Z' 0.6 1.5	
								Mx	E 6.5 18	
"	15	Um	eP	23 05 12				Mx	N 5.7 21	
		Afghanistan (h = 40 km).						Mx	Z 8.2 20	
"	16	Ki	iP2	05 36 28.2			Sk	iP	20 48 28.3	
		Um	eP1	05 34 55				iPP	20 52 21.1	
			iP2	05 35 57.4			Um	iP	20 48 12.4	
		Ud	eP1	05 35 03				iPP	20 51 49.0	
		Iran (h = 60 km).						iSKS	20 58 37	
		The phase denoted by P2					Ud	iP	20 48 32.5 C	
		could possibly be PP to P1.						ipP	20 48 46.8	
"	16	Ud	iP	12 05 38.1				iPP	20 52 31.4	
		De	iP	12 05 20.8			De	iP	20 48 36.8	
		Iran (h = 40 km).						i	20 48 40.5	
"	16	Up	ePKP	12 51 34				iPP	20 52 35.3	
			iSS	13 10 24				Philippine Islands.		
				micr sec				h = 55 km (Up,Ud).		
		Mx	E	4.9 21				m = 6.6, M = 6.2 (Up,Ki).		
		Mx	N	6.4 21	"	16	De	iP	22 36 29.6	
		Mx	Z	7.9 23			Sinkiang.			
		Ki	iPKP	12 51 15.6	"	17	Um	iP	09 29 13.3	
				micr sec			Hindu Kush.			
		Mx	E	2.6 18	"	17	Ki	iSgl	12 26 15.8	
		Mx	N	3.6 17			Sk	iSgl	12 26 23.5	
		Mx	Z	6.4 19			Um	iSgl	12 26 29.2	
		Sk	ePKP	12 51 25			Sweden-Norway border region,			
			i	12 51 28.9			66.1°N, 15.5°E.			
		Um	iPKP	12 51 22.1			Origin time = 12 24 53.			
			i	13 00 49			Explosion.			
			iSS	13 09 37	"	17	Ki	iPn	12 46 20.8	
		Ud	iPKP	12 51 33.4				iSn	12 47 08.9	
		De	ePKP	12 51 39				iSgl	12 47 25.1	
			i	12 51 44.2			Northwest Russia.			
		Solomon Islands (h = 40 km).					Origin time = 12 45 17.			
		M = 6.3 (Up,Ki).					Explosion.			

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

1971				1971							
Mar.	17	Ki	iP	16 18	34.7	Mar.	18	Up	iP	16 13	05.9
		Um	eP	16 18	59				ipP	16 13	33.9
		Ud	eP	16 19	30			Ki	iP	16 14	13.1
				Japan (h = 60 km).				Sk	iP	16 13	45.7
"	17	De	iP	17 05	25.3				i(PP)	16 14	31.3
"	17	Sk	e(Sgl)	18 12	52			Um	i(PP)	16 14	23.5
		Um	i(Sgl)	18 12	02.3			Ud	iP	16 13	14.8
"	17	Ki	iP	23 46	28.4			De	iP	16 12	43.6
		Ud	iP	23 46	45.0			Dodecanese Islands. h = 150 km (Up).			
				Tadzhik SSR.		"	18	Up	iP	19 20	12.5 D
"	18	Um	iSKP	02 55	55.3				i	19 21	25.0
		Ud	iPKP	02 53	16.1				iPP	19 21	51.7
		De	iPKP	02 53	26.8						
				Tonga-Kermadec Islands (h = 540 km).					P	Z'	0.1 1.0
"	18	Up	iP	03 24	00.9			Ki	iP	19 20	16.7 D
									P	Z'	0.1 0.8
		Mx	N	0.8	16			Sk	iP	19 20	36.7 D
		Mx	Z	1.7	16				iPP	19 22	20.6
		Ki	eP	03 23	10			Um	iP	19 20	08.7 D
								Ud	iP	19 20	29.7 D
								De	iP	19 20	28.0 D
								Tadzhik-Sinkiang (h = 150 km). m = 5.6 (Up,Ki).			
		Mx	E	0.6	15	"	18	Ud	iP	21 24	10.4
		Mx	N	0.5	16	"	18	Ki	iP	21 38	42.5
		Mx	Z	0.9	16			Um	iP	21 38	41.4
		Um	iP	03 23	32.6			Ud	eP	21 38	50
		Ud	iP	03 24	05.8			Java (h = 50 km).			
				Kurile Islands (h = N). M = 5.1 (Up,Ki).		"	18	Um	iP	21 46	27.4
"	18	Ud	iPKP	05 39	23.0			Ud	eP	21 46	49
		De	iPKP	05 39	34.3			Mariana Islands (h = 110 km).			
				Tonga Islands (h = N).		"	19	Ki	iPKP	02 41	33.0
"	18	Ki	iP	09 57	52.5			Sk	ePKP	02 41	45
		Sk	eP	09 58	14			Um	iPKP	02 41	41.7
		Um	eP	09 57	59			De	iPKP	02 41	56.0
		Ud	eP	09 58	18			Loyalty Islands (h = 35 km).			
				Mindanao (h = 45 km).		"	19	Up	iPKP	03 21	27.9 C
"	18	Um	iP	13 25	28.1			Ud	iPKP	03 21	29.9 C
		Ud	iP	13 24	54.1			De	iPKP	03 21	40.1 C
				Greece.				Tonga-Kermadec Islands (h = 80 km).			
"	18	De	iPgl	13 37	13.5			Up	eP	04 25	52
			iSgl	13 37	16.7			Ki	iP	04 25	15.1
"	18	Up	i(Sgl)	15 35	20.2			Um	iP	04 25	24.9
		Ud	i	15 35	16.6				ipP	04 25	32.7
			i(Sgl)	15 35	40.1			(cont.)			

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

1971				1971			
Mar.	19	(cont.)		Mar.	19	Um iP	18 45 29.9
		Ud eP	04 25 58			Arabian Sea.	
		ipP	04 26 03.8				
		Bonin Islands.		"	19	Um iP	19 02 04.8
		h = 30 km (Um,Ud).					
"	19	Up iP	06 25 04.3	"	19	Ki eP	21 27 42
		ipP	06 25 27.9			Sk eP	21 27 00
		Ki iP	06 24 52.9			Ud e(pP)	21 27 18
		ipP	06 25 14.7			North Atlantic Ocean	
		iPP	06 28 02.5			(h = N).	
			micr sec	"	20	Up iP	02 50 24.4
		pP Z'	0.2 1.6			ipP	02 50 43.4
		Sk iP	06 24 47.6 C			Ki iP	02 50 34.3
		ipP	06 25 09.7			ipP	02 50 53.7
		Um iP	06 25 00.9			Sk iP	02 50 11.4
		ipP	06 25 23.7			Um iP	02 50 32.8
		isP	06 25 36.2			ipP	02 50 54.5
		Ud iP	06 24 56.5			Ud iP	02 50 12.8
		De iP	06 25 05.1			ipP	02 50 33.9
		ipP	06 25 26.5			De iP	02 50 09.5
		Mexico.				Windward Islands.	
		h = 80 km (Up,Ki,Sk,Um,De).				h = 80 km (Up,Ki,Um,Ud).	
"	19	Ki ePgl	08 32 10	"	20	Ki iSgl	04 38 26.7
		iSgl	08 32 52.5			Sk iSgl	04 38 28.9
		Sk iSgl	08 32 57.5			Um iSgl	04 38 41.9
		Um eSgl	08 33 19			Sweden-Norway border region,	
		Nordland, Norway,				66.2°N, 15.0°E.	
		66.5°N, 14.1°E.				Origin time = 04 37 00.	
		Origin time = 08 31 15.				Explosion.	
		Explosion.					
"	19	Ki e(Sgl)	11 03 49	"	20	Up eP	07 55 44
		Um i(Sgl)	11 04 42.5			ipP	07 55 51.6
						iS	08 04 25
							micr sec
"	19	De ePgl	13 33 36			Mx E	2.2 17
		iRg	13 33 44.7			Mx N	2.9 18
		Explosion.				Mx Z	6.0 22
"	19	Um iP	13 36 43.4			Ki ipP	07 56 45.6
		Ud iP	13 36 45.9				micr sec
		Arabian Sea (h = N).				Mx E	3.5 16
						Mx N	2.3 18
"	19	Ki iP	16 58 44.8			Mx Z	2.4 16
		Um iP	16 58 50.8			Sk eP	07 56 07
		Ud iP	16 59 14.0			ipP	07 56 12.5
		iPP	17 03 22.9			Um iP	07 56 11.3
		Molucca Passage (h = N).				ipP	07 56 23.4
						iS	08 05 17
"	19	Ki iSgl	17 34 41.7			Ud iP	07 55 41.2
		Sk iSgl	17 34 44.6			ipP	07 55 51.1
		Um iSgl	17 35 08.7			De ipP	07 55 34.0
		Nordland, Norway,				North of Ascension Island.	
		66.5°N, 14.1°E.				h = 40 km (Um,Ud).	
		Origin time = 17 33 12.				M = 5.8 (Up,Ki).	
		Explosion.					

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

1971				1971					
Mar.	20	Sk	iP	09 44 56.9	Mar.	22	Up	iP	01 18 04.8
		Um	iP	09 44 41.2			Um	iP	01 17 40.9
		Ud	iP	09 45 12.3			Ud	iP	01 18 12.1
				Japan (h = 80 km).					Japan (h = 25 km).
"	20	Up	iP	09 58 36.1	"	22	Up	iP	04 39 53.3 C
		Ki	eP	09 58 22				iPn	04 40 55.3
		Um	iP	09 58 26.4				iPP	04 41 12.0
		Ud	iP	09 58 45.6					micr sec
				Bali Sea (h = 5 km).			P	Z'	0.3 1.1
							Mx	Z	0.4 9
"	20	Up	iP	12 33 50.2			Ki	iP	04 39 37.6 C
		Ud	iP	12 33 38.2					micr sec
							P	Z'	0.4 0.7
"	20	Up	iP	16 47 50.8			Sk	iP	04 40 08.8 C
		Ud	iP	16 47 59.4			Um	iP	04 39 38.2 C
				Formosa (h = 50 km).				iPP	04 40 52.7
"	21	Up	i(S*)	08 39 42.5			Ud	iP	04 40 09.6 C
		Ki	ePn	08 35 47			De	iP	04 40 16.2 C
			iSn	08 36 44.3				iPP	04 41 44.1
			iSgl	08 37 06.1					Kazakh SSR.
		Sk	iSgl	08 39 33.8					m = 6.3 (Up,Ki).
		Um	iSn	08 37 24.1					Underground explosion.
			iSgl	08 37 55.2	"	22	Um	iP	06 51 49.2
		Ud	e(S*)	08 40 15			Ud	iP	06 51 23.1
			iSgl	08 40 34.5	"	22	Um	iP	08 51 11.1
		De	iSgl	08 42 06.9			Ud	eP	08 51 16
				Northwest Russia, 67.5°N, 33.1°E. Origin time = 08 34 30. Explosion.	"	22	Up	iP	10 29 47.5 C
"	21	Up	iPKP	15 34 57.4					micr sec
			epPKP	15 37 27			P	Z'	0.1 0.9
		Ki	iPKP	15 34 49.5			Mx	N	1.0 18
		Um	iPKP	15 34 56.2			Mx	Z	1.4 20
		Ud	ePKP	15 34 57			Ki	iP	10 30 30.7
		De	iPKP	15 35 06.5			Sk	iP	10 29 57.8
				Fiji Islands (h = 690 km).			Um	iP	10 30 12.0
								iS	10 39 21
"	21	Up	iP	21 09 30.8			Ud	iP	10 29 40.0
		Ki	iP	21 08 43.2					North of Ascension Island (h = N).
		Sk	iP	21 09 17.9	"	22	Up	iP	10 51 29.9 C
		Um	iP	21 09 05.2					micr sec
		Ud	iP	21 09 36.1			P	Z'	0.1 0.9
"	21	Up	iP	22 29 44.8			Ki	iP	10 50 50.4
		Ki	iP	22 29 07.9					micr sec
		Sk	eP	22 29 42			P	Z'	0.1 1.0
		Um	iP	22 29 23.5			Mx	E	0.6 15
		Ud	iP	22 29 52.5			Mx	N	0.7 18
		De	eP	22 30 18			Mx	Z	0.9 16
				Japan (h = 60 km).					(cont.)

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

1971						1971					
Mar.	22	(cont.)				Mar.	23	(cont.)			
		Sk	iP	10 51 24.0				Ki	iP	07 03 46.5	
		Um	iP	10 51 08.2 C				i		07 03 52.7	
		Ud	iP	10 51 37.3 C				i(Lg1)		07 08 37	
		De	iP	10 51 52.2 C				iLg2		07 08 52	
		Japan (h = 45 km).								micr sec	
		m = 5.9 (Up,Ki).						P	Z'	1.4 0.9	
"	22	Sk	iP	15 54 55.9				Mx	E	2.9 10	
		Aegean Sea.						Mx	N	1.4 6	
								Mx	Z	2.1 9	
"	23	Up	iP	00 39 10.3				Sk	iP	07 04 32.2	
		Ki	eP	00 40 20				Um	iP	07 03 47.0	
		Sk	iP	00 39 48.4				Ud	iP	07 04 37.6	
		Ud	iP	00 39 15.9 C				iS		07 08 21.4	
		De	eP	00 38 44				De	iP	07 04 53.8	
		Crete (h = 70 km).						iS		07 08 54.0	
								Ural Mountains.			
								m = 5.9 (Up,Ki).			
"	23	Up	iPKP1	02 34 44.6				Underground explosion.			
			iPKP2	02 34 45.9			"	23	Up	iP	09 29 55.2
			i	02 34 50.7					iS		09 32 33
				micr sec					iSS		09 32 59
		Mx	E	1.0 20							micr sec
		Mx	N	3.3 23					P	Z'	1.0 0.8
		Mx	Z	3.0 22					Mx	E	92 18
		Ki	i(PKP)	02 34 26.4					Mx	N	64 19
			iPKP2	02 34 36.0					Mx	Z	87 19
			iSKP	02 37 59.5					Ki	iP	09 28 50.5
				micr sec					iS		09 30 51
		Mx	E	2.2 21							micr sec
		Mx	N	1.1 20					P	Z'	7.1 0.6
		Mx	Z	4.3 21					Mx	E	120 16
		Sk	i(PKP)	02 34 38.4					Mx	N	110 16
			iPKP2	02 34 45.2					Mx	Z	52 14
		Um	i(PKP)	02 34 32.7				Sk	iP	09 28 55.1	
			iPKP2	02 34 43.1					i		09 28 56.2
			iPP	02 37 45					iS		09 30 47.4
		Ud	iPKP1	02 34 45.1				Um	iP	09 29 23.0	
			iPKP2	02 34 46.8					i		09 29 24.0
			i	02 35 05.8					iS		09 31 36
		De	iPKP1	02 34 56.4				Ud	iP	09 29 38.6	
			iPKP2	02 34 58.0					i		09 29 39.9
			i	02 35 19.1				De	eP	09 30 23	
		Tonga-Kermadec Islands							i		09 30 24.5
		(h = 80 km).							Jan Mayen (h = N).		
		M = 6.1 (Up,Ki).							M = 6.1 (Up,Ki).		
		PKP1 and PKP2 denote double							Double P, about 1.2 sec		
		PKP, in average 1.5 sec							apart.		
		apart.									
"	23	Up	iP	07 04 15.2		"	23	Up	iP	09 59 56.9	
			iS	07 07 34					iLg1	10 13 55	
			iLg2	07 09 53.0						micr sec	
				micr sec					P	Z'	2.3 1.3
		P	Z'	0.4 0.8				(cont.)			
		(cont.)									

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

1971				1971			
Mar.	23	(cont.)		Mar.	23	(cont.)	
		Up	micr sec			Ki	micr sec
		Mx	E 12 8			Mx	E 54 12
		Mx	N 12 8			Mx	N 37 14
		Mx	Z 20 8			Mx	Z 57 12
		Ki	iP 09 59 50.8			Sk	iP 20 55 21.7
			iLgl 10 13 26			Um	iP 20 54 53.2
			micr sec				iPP 20 56 27.1
		Mx	E 59 12				iS 21 01 05
		Mx	N 28 12			Ud	iP 20 55 18.3
		Mx	Z 61 12			De	iP 20 55 20.1
		Sk	iP 10 00 16.2			Kirghiz-Sinkiang (h = N),	
		Um	iP 09 59 48.4 D			m = 6.8, M = 6.7 (Up,Ki).	
		Ud	iP 10 00 11.8				
		De	iP 10 00 16.7 D	"	23	Ki	iP 22 27 15.5
		Kirghiz-Sinkiang (h = N).				Um	eP 22 27 13
		M = 6.6 (Up,Ki).				Sumatra.	
"	23	Ki	iP 16 29 38.3	"	24	Sk	ePKP 02 44 48
		Um	iP 16 29 37.3			Um	iPKP 02 44 41.6
		Molucca Passage (h = 70 km).				Ud	iPKP 02 44 50.5
						De	iPKP 02 44 55.6
"	23	Up	ePn 20 06 59			New Britain (h = 70 km).	
			i 20 08 35.6	"	24	Sk	iP 04 17 56.6
		Ki	eSn 20 09 31			Ud	iP 04 17 23.1
			iSgl 20 10 50.5			Greece.	
		Sk	iPn 20 06 39.0	"	24	Up	iP 05 16 05.9
			iSn 20 07 44.6				ipP 05 16 11.1
		Um	iPn 20 07 23.4				micr sec
			iSn 20 09 02.8				pP Z' 0.1 0.8
			i 20 09 18.0				Mx E 0.8 11
			iSgl 20 09 47.6				Mx N 0.4 7
		Ud	iPn 20 06 32.9 D			Ki	eP 05 17 25
			iP* 20 06 40.5				micr sec
			iSn 20 07 33.3				Mx E 1.5 15
			iSgl 20 07 54.2				Mx N 0.5 14
		De	iPn 20 06 50.8			Sk	iP 05 16 44.8
			iSn 20 08 05.1				ipP 05 16 49.9
		Off coast of Hordaland,				Um	iP 05 16 46.6
		Norway, 60.0°N, 3.9°E.				Ud	iP 05 16 12.3
		Origin time = 20 05 11.					ipP 05 16 17.2
"	23	Up	iP 20 55 02.3			De	i(pP) 05 15 36.1
			iPP 20 56 48.1			Greece.	
			iSS 21 04 23			h = 20 km (Up,Sk,Ud).	
			micr sec			M = 4.7 (Up,Ki).	
		P	Z' 1.7 0.9	"	24	Up	iP 12 25 45.5
		Mx	E 16 9			Ud	eP 12 25 59
		Mx	N 45 17	"	24	Up	iP 13 47 57.8
		Mx	Z 31 9				ipP 13 48 02.3
		Ki	iP 20 54 55.8			Ki	eP 13 48 15
			micr sec			(cont.)	
		P	Z' 2.3 1.5				
		(cont.)					

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

1971

Mar. 24 (cont.)  
 Sk eP 13 48 26  
 Um iP 13 48 00.3  
 Ud iP 13 48 13.7  
     ipP 13 48 18.6  
 De iP 13 48 09.1  
 West Pakistan.  
 h = 15 km (Up,Ud).

" 24 Up iP 14 03 53.5  
     ipP 14 03 55.8  
     iS 14 11 39  
           micr sec  
     P Z' 0.1 0.8  
     pP Z' 0.4 1.0  
     Mx E 17 16  
     Mx N 9.7 15  
     Mx Z 27 15  
 Ki iP 14 03 36.4  
     ipP 14 03 38.6  
     iS 14 11 07  
           micr sec  
     pP Z' 0.4 1.2  
     Mx E 14 12  
     Mx N 16 15  
     Mx Z 17 15  
 Sk iP 14 04 05.0  
     ipP 14 04 06.9  
 Um iP 14 03 40.1  
     iS 14 11 11  
 Ud iP 14 04 06.6  
     ipP 14 04 08.8  
 De iP 14 04 12.8  
 China.  
 h = 10 km (Up,Ki,Sk,Ud).  
 m = 6.3, M = 6.4 (Up,Ki).  
 Alternatively, pP may  
 instead be the P of a  
 second, larger shock.

" 24 Sk iSgl 14 23 50.6  
 Ud iSgl 14 22 44.5  
 South Norway, 58.2°N, 7.2°E.  
 Origin time = 12 40 46.  
 Solution checked with  
 Norwegian bulletin.

" 24 Ki iP 15 22 06.0  
 Sk eP 15 22 13  
     i 15 24 02.6

" 24 De iP 15 47 28.8

1971

Mar. 24 Up i(Sgl) 16 11 40.7  
 Um i(Sgl) 16 12 30.1  
 De e(Sgl) 16 13 28  
 " 24 Ki iSgl 16 21 12.2  
 Sk iSgl 16 21 18.1  
 Um iSgl 16 21 40.7  
 Nordland, Norway,  
 66.5°N, 14.1°E.  
 Origin time = 16 19 43.  
 Explosion.  
 " 24 Sk iP 16 30 54.7  
 Um iP 16 31 09.0  
 Mexico (h = 60 km).  
 " 24 Up iP 18 36 11.9  
 Ki iP 18 35 26.3  
 Sk eP 18 36 01  
 Um iP 18 35 47.1  
 Ud iP 18 36 23.5  
 Kurile Islands (h = 60 km).  
 " 24 Um iP 19 58 03.9  
 Ud eP 19 58 35  
 Japan (h = 50 km).  
 " 24 Ki iP 20 37 09.2  
 Um iP 20 37 15.8  
 Ud iP 20 37 33.6  
 Mindanao (h = 60 km).  
 " 24 Up iP 21 02 16.1 C  
     ipP 21 02 20.2  
           micr sec  
     P Z' 0.1 0.9  
     pP Z' 0.2 1.0  
 Ki iP 21 02 10.1 C  
     ipP 21 02 14.1  
           micr sec  
     P Z' 0.1 0.8  
     pP Z' 0.1 0.9  
     Mx E 1.9 11  
     Mx N 1.8 14  
     Mx Z 2.1 11  
 Sk iP 21 02 35.5 C  
     ipP 21 02 39.7  
 Um iP 21 02 06.4 C  
     ipP 21 02 10.5  
 Ud iP 21 02 32.1 C  
     ipP 21 02 36.4  
 De iP 21 02 34.4 C  
     ipP 21 02 38.7  
 (cont.)





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

1971				1971			
Mar.	25	(cont.)		Mar.	26	(cont.)	
		Japan.				Ki iP	17 44 24.3
		h = 45 km (Up,Ki,Um,Ud).				i	17 44 31.3
		m = 6.4 (Up,Ki).				i	17 44 42.6
							micr sec
"	25	Um iP	16 54 28.5			P Z'	0.6 1.0
		Aegean Sea (h = 10 km).				Mx E	1.1 14
						Mx N	1.3 16
"	25	De iP	18 11 53.7			Mx Z	3.5 16
		Hindu Kush.				Sk iP	17 44 49.3
						i	17 44 56.0
"	26	Up				Um iP	17 44 53.3
		Mx E	1.1 19			i	17 44 59.8
		Mx N	1.1 21			iS	17 52 40
		Mx Z	3.0 20			Ud iP	17 45 14.5
		Ki ePKP2	09 28 56			i	17 45 21.0
						De iP	17 45 38.6
						i	17 45 45.8
							Alaska (h = 5 km).
							m = 6.4, M = 5.1 (Up,Ki).
							The second phase arrives in
							average about 7 sec after P.
							It can either be interpreted
							as double P or else as pP
							for a focal depth of 25 km.
"	26	Um iP	10 47 16.6				
"	26	Ki iPn	10 51 25.0	"	26	Up iP	17 52 09.7
		iSn	10 52 25.2			Ki iP	17 51 15.5
		iS*	10 52 43.8			i	17 51 22.5
		Sk iSg1	10 55 15.1			Sk iP	17 51 39.8
		Um iSn	10 53 01.9			Um iP	17 51 43.2
		iSg1	10 53 32.9			Ud iP	17 51 05.0
		iSg2	10 53 42.1			De iP	17 52 29.6
		Northwest Russia,					Alaska.
		67.6°N, 34.3°E.					Origin time = 17 42 09.
		Origin time = 10 50 05.					
		Explosion.		"	26	Ki iP	21 25 35.7
"	26	Ki iSg1	15 00 21.5			Um eP	21 25 10
		Um iSg1	14 59 30.0			Ud iP	21 25 09.6
						De iP	21 24 51.2
"	26	De i(Sg1)	15 01 23.6				Iran-Iraq (h = N).
"	26	Up iPKP	15 57 32.2	"	27	Um iP	03 26 07.9
		Ud iPKP	15 57 33.6	"	27	Up iP	07 00 39.2
		De iPKP	15 57 43.1			i	07 00 49.5
		Kermadec Islands (h = N).				Ki iP	06 59 47.2
						i	06 59 57.2
"	26	Up iP	17 45 18.4			Um iP	07 00 13.3
		i	17 45 25.4			Ud iP	07 00 40.1
						i	07 00 50.2
		P Z'	0.4 1.1	"	27	Um iP	07 24 35.3
		Mx E	0.9 16			Ud iP	07 25 00.2
		Mx N	1.1 16				
		Mx Z	2.8 16				
		(cont.)					

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

1971				1971				
Mar.	27	Up	iPgl	11 31 03.8	Mar.	27	Ki eP	20 46 47
			eSgl	11 31 22			Um eP	20 46 26
			iRg	11 31 30.1			Ud eP	20 47 16
		Ud	iSgl	11 31 09.0	"	27	Um iP	22 09 39.3
			iRg	11 31 14.0	"	27	Up iP	23 48 30.0
		De	iSgl	11 32 30.0			Ki iP	23 48 14.5
		Central Sweden,					Um iP	23 48 04.5
		59.9°N, 15.2°E.					Ud iP	23 48 45.9
		Origin time = 11 30 41.					Tien-Shan.	
"	27	Ki	iPgl	12 26 07.1	"	28	Up iP	01 29 06.6
			iSgl	12 26 19.3			Um iP	01 29 02.6
		Sk	eSgl	12 28 29			Ud iP	01 29 18.6
		Um	iSgl	12 27 32.0			Andaman Islands.	
		Lapland, Sweden,				"	28	Up iP
		67.0°N, 20.4°E.						03 05 08.9
		Origin time = 12 25 52.						micr sec
		Iron ore mine explosion.						P Z' 0.1 0.8
"	27	Ki	iPn	12 56 30.4				Mx N 0.8 18
			iSn	12 57 18.7			Ki iP	03 05 05.4
			iSgl	12 57 35.8				micr sec
		Um	iSgl	12 59 02.0				Mx N 1.8 22
		Northwest Russia-Norway					Sk iP	03 05 24.3
		border region.					Um iP	03 05 01.8
		Origin time = 12 55 27.					Ud iP	03 05 21.9
		Explosion.					De eP	03 05 27
"	27	Up	iP	17 20 34.0			Burma (h = 35 km).	
				micr sec				
			P	Z' 1.2 0.9	"	28	De iP	04 37 03.7
		Ki	iP	17 19 41.3			Tonga Islands (h = 45 km).	
			iPcP	17 20 26.8				
				micr sec	"	28	Up iP	08 27 51.5 C
			P	Z' 0.6 1.1				micr sec
		Sk	iP	17 20 12.3				P Z' 0.1 1.0
			i	17 20 22.0			Um iP	08 27 47.0
			ipP	17 20 46.3			i	08 28 02.2
		Um	iP	17 20 07.1			Ud iP	08 28 03.2
			ipP	17 20 41.0			De iP	08 28 02.2
			iPcP	17 20 43.2			Andaman Islands.	
			iPP	17 22 22.1				
		Ud	iP	17 20 33.7				
			iPcP	17 21 00.5				
			ipP	17 21 09.7				
		De	iP	17 20 56.3				
		Aleutian Islands.						
		h = 130 km (Sk,Um,Ud).						
		m = 6.6 (Up,Ki).						
"	27	Ki	iP	18 15 34.2				
		Sk	iP	18 16 22.1				
		Um	iP	18 16 17.8				
		Ud	iP	18 16 55.0				

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

1971						1971										
Mar.	28	Up	iP1	08 34	51.9	C	Mar.	28	Up	iP	14 32 29.0					
			iP2	08 34	57.9				Um	iP	14 32 24.4					
			iP3	08 35	04.4				Ud	iP	14 32 41.6					
			iS	08 44	20				De	iP	14 32 39.4					
									Andaman Islands (h = N).							
			P2	Z'	0.8	1.7			"	28	Up	iP	14 51 13.7			
			P3	Z'	0.7	1.5						ipP	14 51 21.7			
			Mx	E	10	20										
			Mx	N	9.9	22										
			Mx	Z	20	21										
		Ki	iP1	08 34	51.5							pP	Z' 0.1 1.2			
			iP2	08 34	56.8						Ki	i(pP)	14 51 24.8			
			iP3	08 35	04.3						Sk	i(pP)	14 51 36.5			
			iS	08 44	19						Um	iP	14 51 08.4			
												ipP	14 51 17.7			
												Ud	iP	14 51 24.4		
			P3	Z'	0.4	1.7							ipP	14 51 32.4		
			Mx	E	22	22						De	iP	14 51 23.4		
			Mx	N	26	22							ipP	14 51 32.4		
			Mx	Z	27	22						Andaman Islands.				
		Sk	iP2	08 35	10.2							h = 30 km (Up,Um,Ud,De).				
		Um	iP1	08 34	48.1											
			iP2	08 34	53.1				"	28	Up	iPP	18 15 22.8			
			iS	08 44	13						Ki	iP	18 10 56.2			
		Ud	iP1	08 35	03.4						Um	iPP	18 15 16.9			
			iP2	08 35	09.6						Ud	iP	18 11 25.0			
			iP3	08 35	16.0							ePP	18 15 35			
		De	iP1	08 35	02.4						De	ePKP	18 15 27			
			iP2	08 35	08.5						Timor (h = N).					
			iP3	08 35	15.1											
		Andaman Islands (h = N). m = 6.4, M = 6.4 (Up,Ki). Triple P, the second and third onsets in average 6 and 12.5 seconds delayed, respectively.								"	29	Um	iSKP	04 14 20.8		
												Chile (h = 25 km).				
										"	29	Um	i(Sgl)	08 50 38.7		
										"	29	Um	i(P)	13 09 30.8		
		"	28	Up	iP	08 50 07.7					"	29	De	iPgl	14 27 57.8	
			Um	iP	08 50 11.9								iSgl	14 28 00.6		
			Ud	eP	08 50 27						"	29	Ki	iSgl	18 05 16.4	
		"	28	Up	iP	08 53 07.3							Sk	iSgl	18 05 21.0	
			Ki	iP	08 53 00.1								Um	iSgl	18 05 43.3	
			Um	iP	08 52 56.1								Nordland, Norway, 66.5°N, 14.1°E. Origin time = 18 03 47. Explosion.			
			Ud	iP	08 53 19.1											
			De	iP	08 53 10.4											
		Andaman Islands.										"	29	Up	iP	18 07 19.4
		"	28	Ki	i(Sgl)	09 11 03.6								ipP	18 07 26.4	
			Um	i(Sgl)	09 11 59.8											
		"	28	Up	eP	10 57 53										
			Ki	eP	10 57 43									pP	Z' 0.1 1.0	
			Ud	iP	10 58 05.5								Ki	iP	18 07 18.9	
		Kirghiz-Sinkiang.												ipP	18 07 25.8	
													(cont.)			

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

1971

Mar. 29 (cont.)  
 Sk iP 18 07 35.3  
 Um iP 18 07 15.6  
     ipP 18 07 22.3  
 Ud iP 18 07 31.1  
 De iP 18 07 30.2  
 Andaman Islands.  
 h = 25 km (Up,Ki,Um).

" 29 Up iP 19 31 48.2  
           micr sec  
           P Z' 0.1 1.0  
 Ki iP 19 31 08.4  
           micr sec  
           P Z' 0.1 0.9  
 Sk iP 19 31 42.4  
 Um iP 19 31 25.8 D  
 Ud iP 19 31 56.3  
 De iP 19 32 11.7  
 Sea of Japan (h = 290 km).  
 m = 5.5 (Up,Ki).

" 29 Ud iP 21 34 12.1

" 30 Up iP 00 34 56.3 C  
 Sk iP 00 35 39.3  
 Um iP 00 35 37.3  
 Ud iP 00 35 05.2  
 De iP 00 34 25.2  
 Greece (h = 50 km).

" 30 Um iP 01 11 42.8  
 Venezuela (h = 45 km).

" 30 Up eP 02 31 18  
 Ki iP 02 32 30.6  
 Sk iP 02 32 02.0  
 Ud iP 02 31 31.7 C  
 De eP 02 30 59  
 Near Crete.

" 30 Um iSKP 03 00 22.5  
 De ePKP 02 57 57  
 Fiji Islands (h = 630 km).

" 30 Up iP 03 48 48.6  
     ipP 03 48 57.3  
           micr sec  
     pP Z' 0.1 0.9  
 Ki iP 03 48 50.9 C  
     ipP 03 48 58.6  
           micr sec  
     P Z' 0.1 0.8  
     pP Z' 0.1 0.8  
 (cont.)

1971

Mar. 30 (cont.)  
 Sk iP 03 49 04.9 C  
 Um iP 03 48 46.8 C  
     ipP 03 48 54.6  
 Ud iP 03 49 00.2 C  
     ipP 03 49 08.4  
 De iP 03 48 58.1 C  
     ipP 03 49 06.1  
 Sumatra.  
 h = 30 km (Up,Ki,Um,Ud,De).  
 m = 5.9 (Up,Ki).

" 30 Up iP 04 11 02.0  
 Ki iP 04 10 16.2  
 Um iP 04 10 37.4  
 Ud iP 04 11 07.9  
 De eP 04 11 25  
 Kurile Islands (h = 40 km).

" 30 Ki iSgl 04 27 49.9  
 Sk iSgl 04 27 55.4  
 Um iSgl 04 28 18.7  
 Nordland, Norway,  
 66.5°N, 14.0°E.  
 Origin time = 04 26 21.  
 Explosion.

" 30 Up iP 11 41 41.4  
     iPcP 11 42 03.6  
           micr sec  
     P Z' 0.1 1.0  
     PcP Z' 0.3 1.2  
 Ki iP 11 40 48.4  
     iPcP 11 41 33.2  
           micr sec  
     PcP Z' 0.1 0.8  
 Sk iP 11 41 20.8  
 Um iP 11 41 14.6  
     iPcP 11 41 49.7  
 Ud iP 11 41 41.4  
 De iP 11 42 03.2  
 Aleutian Islands (h = 20 km).

" 30 Up iP 11 41 52.9  
     iPcP 11 42 14.7  
     iP'P' 12 09 54.5  
           micr sec  
     P Z' 0.1 0.9  
     PcP Z' 0.3 1.0  
     E 1.0 18  
     Mx N 1.6 18  
     Mx Z 2.4 18  
 Ki iP 11 40 57.9  
     iPcP 11 41 43.3  
 (cont.)

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

1971				1971			
Mar.	30	(cont.)		Mar.	31		
		Ki	micr sec			Ud	iP 06 01 39.2
		P	Z' 0.1 0.6	"	31	Up	iP 08 26 41.6
		PcP	Z' 0.2 1.0			Ki	iP 08 26 32.6
		Mx	E 1.2 15			Sk	iP 08 26 55.5
		Mx	N 1.6 18			Um	iP 08 26 31.8
		Mx	Z 2.6 18			Ud	iP 08 26 54.9
		Sk	iP 11 41 31.0			De	iP 08 26 55.8
			iPcP 11 42 02.6			Burma (h = 20 km).	
		Um	iP 11 41 25.3	"	31	Up	i(P) 09 14 51.9
			iPcP 11 41 59.6				micr sec
			iP'P' 12 10 15.5				Z' 0.1 0.8
		Ud	iP 11 41 51.8			Ud	iP 09 14 41.3
			iPcP 11 42 16.4				
			iP'P' 12 09 53.8				
		De	iP 11 42 14.0	"	31	Up	iP 09 27 09.0
		Aleutian Islands (h = 20 km).					micr sec
		Origin time = 11 30 50.					Mx N 1.8 24
		m = 6.1, M = 5.3 (Up,Ki).					Mx Z 1.5 22
"	30	Um	iSgl 14 07 27.7			Ki	eP 09 26 54
							micr sec
"	30	Ud	iPgl 14 25 20.4				Mx E 1.0 15
			iSgl 14 25 48.1				Mx N 1.1 20
		De	iPgl 14 25 13.5				Mx Z 1.2 15
			iSgl 14 25 36.0			Sk	iP 09 27 09.7
			iRg 14 25 43.6			Um	iP 09 26 59.1
		Västergötland, Sweden.				Ud	eP 09 27 14
		Origin time = 14 24 45.					i 09 29 23.5
		Explosion.				Mindanao (h = 50 km).	
						M = 5.4 (Up,Ki).	
"	30	Up	iP 19 44 51.8	"	31	Up	i(P) 09 50 36.0
		Ki	eP 19 46 12			Ud	i(P) 09 50 23.4
			micr sec				
		Mx	E 1.0 15	"	31	Up	iP 10 37 00.4
		Sk	iP 19 45 34.1				micr sec
		Um	iP 19 45 32.7				P Z' 0.1 1.2
		Ud	iP 19 44 59.5				Mx N 1.8 25
		De	eP 19 44 26				Mx Z 1.3 19
		Greece-Albania (h = N).				Ki	iP 10 36 43.1
"	30	Ud	iP 20 27 02.0				micr sec
"	30	Up	iPKP 22 58 54.1				Mx N 1.9 23
		Um	iPKP 22 58 48.4			Sk	iP 10 37 05.5
		Ud	iPKP 22 58 54.2			Um	eP 10 36 50
		De	iPKP 22 59 07.5			Ud	iP 10 37 08.5
		Tonga-Kermadec Islands				De	iP 10 37 18.4
		(h = N).				Mindanao (h = N).	
						M = 5.5 (Up,Ki).	
"	31	Up	iP 05 58 57.2	"	31	Sk	iP 10 45 35.7
		Um	iP 05 58 54.6			Um	iP 10 45 09.0
		Ud	iP 05 59 08.7			Ud	iP 10 45 27.5
		De	iP 05 59 06.6			Hindu Kush.	

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

1971					1971				
Mar.	31	Up	eSgl	10 59 08	Mar.	31	Ud	i(Sgl)	14 48 15.5
		Ki	iPn	10 55 01.9			De	i(Sgl)	14 48 03.8
			iSn	10 56 01.9		"	31	Up	iSgl
			iS*	10 56 20.5				Ud	iPgl
		Sk	iSgl	10 58 49.5					iSgl
		Um	iSn	10 56 40.5			De	iSgl	15 20 18.0
			iSgl	10 57 09.0			Östergötland, Sweden,		
			iSg2	10 57 19.2			58.5°N, 16.2°E.		
		Ud	iSgl	10 59 46.0			Origin time = 15 19 02.		
		Northwest Russia,				"	31	Um	i(Sgl)
		67.7°N, 33.7°E.							17 22 11.4
		Origin time = 10 53 42.				"	31	Up	eP
		Explosion.						Ki	eP
"	31	Up	iPKP	11 52 48.8				Sk	eP
		Ki	iPKP	11 52 29.5				Um	eP
		Sk	iPKP	11 52 41.7				Ud	iP
		Um	i(PKP)	11 52 37.7				De	eP
		Ud	i(PKP)	11 52 47.0				China (h = 40 km).	
			iPKP	11 52 50.7		"	31	Up	iP
		De	i(PKP)	11 52 56.2				Ki	eP
			iPKP	11 52 59.7				Sk	eP
		Kermadec Islands (h = 70 km).						Um	eP
"	31	Up	iSgl	12 42 49.5				Ud	iP
			iSg2	12 42 57.9					i
		Sk	eSgl	12 44 41				De	eP
		Um	iSgl	12 43 23.0					i
		Ud	iSgl	12 43 51.2				Iran (h = 30 km).	
		De	iSgl	12 44 18.7		"	31	Up	iP
		Esthonia, 59.5°N, 25.1°E.							ipP
		Origin time = 12 40 49.						Ki	iP
		Explosion.						Sk	iP
"	31	Up	iSgl	12 57 02.2				Um	iP
		Ud	iPgl	12 55 41.6				Ud	iP
			iSgl	12 56 10.9					ipP
		De	ePgl	12 55 46.1				De	iP
			iSgl	12 56 19.1					ipP
		Near west coast of Sweden,						Bonin Islands.	
		58.4°N, 11.2°E.						h = 35 km (Up,Ud,De).	
		Origin time = 12 55 04.							
		Explosion?							
"	31	Up	iSgl	12 58 28.3					
		Sk	eSgl	12 59 16					
		Ud	iPgl	12 57 06.0					
			iSgl	12 57 37.6					
		De	iSgl	12 57 42.7					
		Off west coast of Sweden,							
		58.3°N, 10.8°E.							
		Origin time = 12 56 25.							
		Explosion?							

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October 25, 1973

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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

A P R I L 1 - 30, 1971  
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1971					1971				
Apr.	1	Up	iPKP	00 29 53.8	Apr.	1	Up	i(Sgl)	08 53 10.3
			iSKP	00 33 18.9			Ud	i(Sgl)	08 53 03.9
				micr sec					
			Mx	E 1.1 22	"	1	Up	iP	09 37 44.9
			Mx	N 1.6 22				i	09 37 50.6
			Mx	Z 2.1 22			Ud	iP	09 37 33.3
			Ki	iPKP 00 29 39.4				i	09 37 38.4
			Sk	ePKP 00 29 54					
			Um	iPKP 00 29 46.6	"	1	Up	iRg	12 01 08.4
			Ud	iPKP 00 29 58.5			Ud	iPgl	12 00 56.1
			De	iPKP 00 30 05.9				iSgl	12 01 15.6
			New Hebrides Islands					iRg	12 01 23.3
			(h = 30 km).				Central Sweden.		
"	1	Up	ePKP	00 32 41			Origin time = 12 00 32.		
			iSKP	00 36 02.8			Explosion.		
			Ki	ePKP 00 32 23	"	1	Up	iP	12 37 12.1
			Um	iPKP 00 32 30.6			Ud	iP	12 37 14.5 C
			Ud	ePKP 00 32 38			De	iP	12 37 24.5
				eSKP 00 36 01					
			De	ePKP 00 32 48	"	1	Up	iP	12 46 13.4
			New Hebrides Islands.						micr sec
			Origin time = 00 13 26.				Mx	E	0.8 20
"	1	Up	iP	00 42 45.8			Mx	N	0.9 21
		Um	iP	00 42 27.6			Mx	Z	1.1 20
							Ki	e(P)	12 46 47
"	1	Up	iSKP	05 58 24.2					micr sec
				micr sec			Mx	E	1.9 25
			Mx	N 1.0 19			Mx	N	0.7 20
			Mx	Z 1.4 21			Mx	Z	1.4 20
			Ki	iPKP 05 54 41.9			Mascarene Islands (h = N).		
			Um	iPKP 05 54 48.1			M = 5.5 (Up,Ki).		
			Ud	eSKP 05 58 34	"	1	Um	i(Sgl)	13 40 55.1
			New Hebrides Islands		"	1	De	i(Sgl)	14 46 30.4
			(h = 25 km).		"	1	Up	iPKP	19 57 32.9
"	1	Um	iP	07 49 14.9	"	1		i	19 57 37.0
		Alaska (h = 15 km).					(cont.)		



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

1971				1971			
Apr.	1	(cont.)		Apr.	2	(cont.)	
		Up	iPKP2 19 57 41.7			Ki	micr sec
		Ki	iPKP 19 57 14.3			Mx	E 0.6 15
		Sk	iPKP 19 57 29.6 D			Mx	N 1.1 22
			i 19 57 31.0			Mx	Z 0.6 15
		Um	iPKP 19 57 25.5 D			Sk	iP 04 29 24.6
		Ud	iPKP 19 57 34.5 D			Um	eP 04 29 05
			i 19 57 39.3			Ud	iP 04 29 29.0
			iPKP2 19 57 44.3			Mindanao (h = 30 km).	
		De	iPKP 19 57 40.4 D			M = 5.3 (Up,Ki).	
			i 19 57 47.9				
			iPKP2 19 57 58.2	"	2	Sk	iP 04 38 12.0
		Kermadec Islands				Um	iP 04 38 17.8
		(h = 210 km).				Italy (h = N).	
"	1	Ud	eP 23 04 14	"	2	Um	iPKP 05 23 54.2
		Tien-Shan.				South of Australia (h = N).	
"	2	Up	iP 01 28 21.9	"	2	Up	iP 09 14 47.3
		Ki	iP 01 28 23.6 C			Um	iP 09 14 25.4
			micr sec			Japan (h = 25 km).	
			P Z' 0.1 1.0				
		Sk	iP 01 28 37.6	"	2	Ud	i(P) 09 54 41.0
		Um	iP 01 28 19.6				
		Ud	iP 01 28 33.1 C	"	2	Ki	iSgl 10 47 04.2
		De	iP 01 28 30.7 C			Sk	iSgl 10 47 09.9
		Sumatra (h = N).				Um	iSgl 10 47 17.7
"	2	Up	iP 01 48 23.2			Ud	iSgl 10 48 58.0
		Ki	eP 01 49 23			Sweden-Norway border region,	
		Sk	iP 01 48 35.4			66.1°N, 15.3°E.	
		Um	iP 01 48 42.3			Origin time = 10 45 41.	
		Ud	iP 01 48 24.0			Explosion.	
		Italy (h = 40 km).		"	2	Ki	iSn 11 05 10.0
"	2	Up	iPKP 02 59 27.1 D				iSgl 11 05 35.1
			i 02 59 56.3			Sk	iSgl 11 08 03.4
		Ki	iPKP 02 59 19.1			Um	iSn 11 05 54.5
		Sk	ePKP 02 59 22				i 11 06 12.3
		Um	iPKP 02 59 14.5				iSgl 11 06 29.5
		Ud	iPKP 02 59 29.1 D			Ud	eSgl 11 08 58
		De	iPKP 02 59 39.3 D			Northwest Russia,	
		Tonga-Kermadec Islands				67.9°N, 34.3°E.	
		(h = 190 km).				Origin time = 11 02 52.	
						Explosion.	
"	2	Up	iP 03 06 00.1	"	2	Ud	iP 12 46 43.3
		Ki	eP 03 06 10			De	iP 12 46 12.3
		Um	eP 03 06 00			Rhodes Island.	
		Ud	iP 03 06 11.8	"	2	Ki	iPn 12 59 34.8
		De	iP 03 06 12.6				iP* 12 59 42.8
"	2	Up	iP 04 29 23.9				iSn 13 00 22.8
			micr sec				iSgl 13 00 30.7
		Mx	N 0.8 23			Sk	iSgl 13 03 23.1
		Mx	Z 0.6 18			Um	iSgl 13 02 09.4
		Ki	eP 04 29 02			Northwest Russia-Norway	
		(cont.)				border region,	
						(cont.)	

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

1971				1971			
Apr.		(cont.)		Apr.	3	(cont.)	
	2	69.6°N, 30.9°E. Origin time = 12 58 31. Explosion.				Ki	micr sec
						Mx	N 20 14
						Mx	Z 15 14
"	2	De iP 13 39 43.4				Sk iP	04 58 56.7
						i	04 59 00.2
"	2	Ud iP 14 05 19.3				Um iP	04 58 31.6
						i	04 58 35.0
"	2	Um i(Sgl) 15 24 37.4				iS	05 06 16
						Ud iP	04 58 55.7
"	2	Up iP 15 36 54.0 Ud iP 15 37 02.8 De iP 15 36 30.1 Rhodes Island.				i	04 58 59.9
						De iP	04 59 01.5
						i	04 59 04.1
						Tibet (h = N), m = 6.4, M = 6.3 (Up,Ki).	
"	2	Um iPKP 19 33 58.3 Ud iPKP 19 34 07.9 De iPKP 19 34 13.1 Solomon Islands (h = 40 km).		"	3	Up iP	05 00 28.2
							micr sec
						P	Z' 0.4 1.0
						Ki iP	05 00 14.6
							micr sec
"	2	Up iP 19 52 38.2 Ki eP 19 51 38 Um eP 19 52 05 Alaska (h = N).				P	Z' 0.2 0.9
						Sk iP	05 00 41.5
						Um iP	05 00 16.7
						Ud iP	05 00 42.0
						De iP	05 00 45.8
"	3	Um i(Sgl) 02 35 35.1				Tibet (h = N), m = 6.3 (Up,Ki).	
"	3	Up iP 04 08 19.1 Ki iP 04 09 31.8 Sk eP 04 08 54 Um iP 04 08 56.9 Ud iP 04 08 20.2 De iP 04 07 43.9 Tyrrhenian Sea (h = 300 km).		"	3	Up iP	07 44 31.4
						i	07 44 39.6
						Ki iP	07 44 20.2
						Sk iP	07 44 47.2
						Um iP	07 44 22.1
						Ud iP	07 44 45.4
						De iP	07 44 50.4
						Tibet (h = N).	
"	3	Up iP 04 47 44.1 Ki iP 04 47 39.1 Um iP 04 47 38.7 Ud iP 04 47 52.7 De eP 04 47 53 Java (h = 120 km).		"	3	Up iP	07 54 57.0
						Um iP	07 55 06.5
						Ud iP	07 55 08.4
"	3	Up iP 04 58 43.1 i 04 58 46.6 iS 05 06 37 micr sec P Z' 0.8 1.5 Mx E 10 13 Mx N 32 20 Mx Z 19 14 Ki iP 04 58 30.3 i 04 58 34.0 iS 05 06 19 micr sec P Z' 0.4 1.3 Mx E 18 14 (cont.)		"	3	De iP	08 56 34.6
						"	3
						Up iP	09 17 33.3
						ipP	09 17 44.2
						Ki iP	09 16 46.2
							micr sec
						P	Z' 0.1 1.0
						Um iP	09 17 07.7
						ipP	09 17 20.0
						Ud iP	09 17 38.4
						ipP	09 17 51.3
						De iP	09 17 57.9
						Kurile Islands, h = 50 km (Up,Um,Ud).	



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

1971				1971			
Apr.				Apr.			
	4	(cont.)			5	(cont.)	
		Origin time = 16 35 05.				Up iSKS	05 26 21
		Explosion.					micr sec
"	4	Up iP	18 29 49.9			P	Z' 0.1 1.0
		Um iP	18 29 23.9			Mx	E 1.1 22
		Ud iP	18 29 54.7			Mx	N 0.8 21
		Kurile Islands (h = N).				Mx	Z 1.6 23
					Ki	iP	05 15 34.5 C
							micr sec
"	4	Um ePKP	18 49 01			P	Z' 0.4 1.2
		Ud iPKP	18 49 10.9			Mx	E 1.2 17
		De iPKP	18 49 21.7			Mx	N 0.9 20
		Tonga-Kermadec Islands				Mx	Z 1.7 18
		(h = 560 km).			Sk	iP	05 15 54.7 C
					Um	iP	05 15 38.6 C
"	4	Up iP	18 50 57.9 C			iSKS	05 26 11
		ipP	18 51 08.8			Ud iP	05 15 56.9 C
		iS	19 00 15			De iP	05 16 01.9 C
			micr sec				Molucca Sea (h = N).
		P	Z' 0.9 1.1				m = 6.6, M = 5.5 (Up,Ki).
		Mx	E 2.7 18	"	5	Ud iP	07 03 24.4
		Mx	N 3.5 18				Kurile Islands.
		Mx	Z 9.9 18	"	5	Ki ePgl	08 19 30
	Ki	iP	18 50 17.7 C			iSgl	08 19 59.9
		iS	18 59 03				Near coast of northwest
			micr sec				Norway.
		P	Z' 0.4 1.1	"	5	Up iP	09 15 19.6
		Mx	E 5.7 19			iX	09 15 52.0
		Mx	N 5.3 22			ipP	09 15 58.2
		Mx	Z 9.7 17			iP'P'	09 43 40.3
	Sk	iP	18 50 51.4 C			iY	09 44 17.5
		ipP	18 51 04.0				micr sec
		iPcP	18 51 15.2			P	Z' 0.7 1.1
	Um	iP	18 50 35.6 C			Mx	E 0.8 16
		ipP	18 50 49.1			Mx	N 1.4 20
		iPcP	18 51 00.5			Mx	Z 1.8 22
		iS	18 59 35		Ki	iP	09 14 26.3
	Ud	iP	18 51 05.1 C			ipP	09 15 03.8
		ipP	18 51 17.0				micr sec
	De	iP	18 51 20.9 C			P	Z' 1.3 1.3
		ipP	18 51 32.6			Mx	E 1.1 16
		Japan.				Mx	N 0.7 18
		h = 45 km (Up,Sk,Um,Ud,De).				Mx	Z 2.1 16
		m = 6.7, M = 5.8 (Up,Ki).			Sk	iP	09 14 56.9
"	5	Um iPKP	00 02 07.9			iX	09 15 31.8
		Argentina (h = 170 km).				ipP	09 15 35.4
"	5	Um iP	00 10 18.3			iP'P'	09 43 50.3
		Ud iP	00 10 49.5		Um	iP	09 14 52.8
		Kurile Islands.				iX	09 15 27.7
"	5	Up iP	05 15 48.2 C			ipP	09 15 30.9
		i	05 16 11.4			iS	09 23 12
		iPP	05 19 53.4			iP'P'	09 43 50.5
		(cont.)				(cont.)	

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

1971					1971						
Apr.	5	(cont.)			Apr.	5	(cont.)				
		Um	iY	09 44 28.1			Um	iP	20 06 02.3		
		Ud	iP	09 15 18.7			Ud	iP	20 06 33.5		
			iX	09 15 46.5			Japan (h = 70 km).				
			ipP	09 15 56.4							
			iY	09 44 17.6		"	5	Um	iPKP	20 19 02.3	
		De	iP	09 15 41.7				Ud	iPKP	20 19 27.9	
			ipP	09 16 20.5					eSKP	20 22 18	
		Aleutian Islands.						De	iPKP	20 19 38.8	
		h = 160 km (Up,Ki,Sk,Um,Ud,De).					Fiji Islands (h = 520 km).				
		m = 6.5, M = 5.1 (Up,Ki).									
		M not corrected for focal depth.				"	6	Up	iP	00 28 16.8	
		It is suggested that the phase X marks the P of another Aleutian Islands earthquake and that Y is its appertaining P'P'.							ipP	00 28 26.6	
										micr sec	
								P	Z'	0.2 1.1	
								Mx	E	0.8 16	
								Mx	N	1.3 18	
								Mx	Z	1.1 16	
							Ki	iP	00 27 32.6 C		
										micr sec	
"	5	Up	iP	10 53 46.0				P	Z'	0.2 1.2	
		Um	iP	10 53 56.2				Mx	E	0.8 16	
		Ud	iP	10 53 27.1				Mx	N	0.6 17	
								Mx	Z	1.0 16	
"	5	Up	iPKP	14 45 13.9 C			Sk	iP	00 28 08.4		
		Ki	ePKP	14 45 02			Um	iP	00 27 52.3 C		
		Sk	ePKP	14 45 08				ipP	00 28 02.6		
		Um	iPKP	14 45 01.1			Ud	iP	00 28 23.2 C		
		Ud	iPKP	14 45 15.6 C				ipP	00 28 33.4		
			i(pPKP)	14 47 04.0			De	iP	00 28 43.6		
		De	iPKP	14 45 25.6 C			Japan.				
		Tonga-Kermadec Islands (h = 430 km).					h = 35 km (Up,Um,Ud).				
							m = 6.2, M = 5.2 (Up,Ki).				
"	5	Up	iP	17 00 09.9		"	6	Up	iP	02 50 25.0	
			ipP	17 00 22.1				Um	iP	02 49 58.7	
		Ki	iP	16 59 21.8					i(pP)	02 50 13.2	
			ipP	16 59 34.6			Japan (h = 45 km).				
				micr sec							
			P	Z'	0.1 0.8		"	6	Up	eP	03 10 49
		Um	iP	16 59 43.3				Ki	iP	03 10 44.1	
			ipP	16 59 55.8				Sk	iP	03 11 11.9	
		Ud	iP	17 00 14.5				Ud	iP	03 11 02.3	
			ipP	17 00 27.0			China (h = N).				
		Kurile Islands.									
		h = 45 km (Up,Ki,Um,Ud).				"	6	Up	iP	06 57 11.7	
"	5	Ki	eP	19 42 13				i	06 57 52.0		
		Um	iP	19 42 13.6					micr sec		
		Ud	iP	19 42 45.4				Mx	E	1.0 17	
		Formosa (h = N).						Mx	N	1.7 19	
								Mx	Z	1.1 17	
"	5	Up	iP	20 06 26.1			Ki	iP	06 57 48.1		
		Ki	iP	20 05 44.0					micr sec		
		Sk	eP	20 06 18				P	Z'	0.1 0.8	
		(cont.)						Mx	E	3.5 16	
							(cont.)				

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

1971						1971						
Apr.	6	(cont.)				Apr.	6	(cont.)				
		Ki		micr	sec			Ud	iPKP	11 24 47.7		
		Mx	N	2.9	17				iSKP	11 27 36.4		
		Mx	Z	3.9	18				iSKKP	11 36 04.5		
		Sk	iP	06 57	47.2			De	iPKP	11 24 58.9		
		Um	iP	06 57	26.2				i	11 27 16.8		
			iS	07 03	22				iSKP	11 27 45.8		
		De	i(P)	06 57	18.2				iSKKP	11 35 49.6		
		Iran (h = 10 km).						Tonga-Kermadec Islands				
		M = 5.2 (Up,Ki).						(h = 600 km).				
"	6	Up	iP	09 46	40.9	"	6	Sk	iSgl	11 48 35.2		
			ipP	09 46	51.3			Um	iSgl	11 47 17.2		
				micr	sec			Esthonia.				
			P	Z'	0.1 1.1			Explosion.				
			Mx	E	0.9 16			"	6	Up	iP	12 04 56.4 C
			Mx	N	1.7 19						ipP	12 05 06.3
			Mx	Z	1.7 18							micr sec
		Ki	iP	09 45	56.3						P	Z' 0.1 0.9
			ipP	09 46	06.8			Ki	iP	12 04 12.1 C		
				micr	sec				ipP	12 04 22.4		
			Mx	E	1.3 16			Sk	iP	12 04 47.1		
			Mx	N	0.8 19			Um	iP	12 04 31.7 C		
			Mx	Z	1.5 15				ipP	12 04 41.9		
		Sk	iP	09 46	31.8			De	iP	12 05 19.6		
		Um	iP	09 46	16.0			Japan.				
			ipP	09 46	26.8			h = 40 km (Up,Ki,Um).				
		Ud	iP	09 46	47.1			"	6	Up	iSgl	13 02 16.5
			ipP	09 46	57.8					Ki	eSgl	13 05 06
		De	eP	09 47	07					Sk	iSgl	13 04 14.4
			ipP	09 47	16.8					Um	iSgl	13 03 05.2
		Japan.								Esthonia, 59.2°N, 24.2°E.		
		h = 40 km (Up,Ki,Um,Ud,De).								Origin time = 13 00 31.		
		M = 5.4 (Up,Ki).								Explosion.		
"	6	Ki	iP	10 54	02.1	"	6	Up	iP	14 21 53.7		
		Sk	eP	10 54	28				ipP	14 22 03.7		
		Um	iP	10 54	03.5					micr sec		
		Ud	iP	10 54	24.1					P	Z' 0.1 0.9	
		De	iP	10 54	26.8			Ki	iP	14 21 09.8		
		China.						Sk	iP	14 21 44.9		
"	6	Up	iPKP	11 24	46.5			Um	iP	14 21 29.7		
			iSKP	11 27	35.7			Ud	iP	14 22 00.5		
			i	11 27	57.6				ipP	14 22 10.5		
			iSKKP	11 36	07.0			De	eP	14 22 16		
		Ki	iPKP	11 24	24.4			Japan.				
			i	11 24	38.4			h = 40 km (Up,Ud).				
			iSKP	11 27	13.2			"	6	Up	iP	16 09 01.6
			eSKKP	11 36	41					Ki	iP	16 08 32.9
		Sk	ePKP	11 24	38						micr sec	
			iSKP	11 27	29.0					P	Z' 0.1 0.6	
		Um	iPKP	11 24	30.3			Sk	iP	16 08 58.2		
			iSKP	11 27	24.3			(cont.)				
			iSKKP	11 36	20.1			(cont.)				
		(cont.)						(cont.)				

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

1971				1971			
Apr.	6	(cont.)		Apr.	7	(cont.)	
		Um	iP 16 08 43.9			Ki	micr sec
		De	iP 16 09 19.0			Mx	E 27 18
		Mariana Islands (h = 200 km).				Mx	N 16 20
"	6	Up	iPKP 16 19 50.4 C			Mx	Z 33 18
		Ki	ePKP 16 19 31			Sk	iP 05 13 16.8
		Sk	iPKP 16 19 42.6			ipP	05 13 28.3
		Um	iPKP 16 19 38.1			Um	iP 05 13 01.3
			i 16 19 48.8			ipP	05 13 11.4
			iSKP 16 22 31.3			iSKS	05 23 36
		Ud	iPKP 16 19 52.5			iPS	05 25 39
		De	iPKP 16 20 02.1			Ud	iP 05 13 20.8
		Tonga-Kermadec Islands (h = 540 km).				ipP	05 13 31.8
						De	iP 05 13 27.5
						ipP	05 13 37.7
						Halmahera.	
"	6	Ki	iSgl 17 59 22.4			h = 40 km (Up, Ki, Sk, Um, Ud, De).	
		Sk	iSgl 17 59 27.1			m = 7.1, M = 6.7 (Up, Ki).	
		Um	iSgl 17 59 41.8				
		Nordland, Norway, 66.3°N, 14.8°E.					
		Origin time = 15 57 59.					
		Explosion.					
"	6	Um	i(Sgl) 18 12 10.7	"	7	Ki	iP 06 30 56.6
"	6	Ki	iP 19 12 49.5			Sk	e(P) 06 31 23
		De	eP 19 12 54			Um	iP 06 31 02.2
						i	06 31 10.2
						Ud	iP 06 31 21.5
						i	06 31 29.7
						Halmahera (h = 90 km).	
"	7	Um	iPKP 01 01 30.8	"	7	Ki	iP 07 03 32.3
		Santa Cruz Islands (h = 50 km).				Ud	iP 07 03 49.8
						Halmahera.	
"	7	Um	iP 01 13 53.2	"	7	Up	iP 07 42 58.6
		Ud	eP 01 14 23			Ki	iP 07 42 53.8
		Kurile Islands.				Sk	iP 07 43 11.2
"	7	Um	e(P) 02 31 17			Um	iP 07 42 51.8
						Ud	iP 07 43 04.5
						Sumatra (h = 90 km).	
"	7	Up	iP 05 13 13.3	"	7	Ud	iP 08 01 14.9
		ipP	05 13 23.6			Kurile Islands (h = N).	
		i	05 16 29.9				
		iPP	05 17 09.3				
		iSKS	05 23 48				
			micr sec				
		P	Z' 0.3 1.1			Ki	iPn 09 27 40.2
		pP	Z' 0.3 0.9			iPgl	09 27 48.4
		Mx	E 10 18			iSn	09 28 26.9
		Mx	N 13 17			iS*	09 28 39.7
		Mx	Z 26 20			Sk	eSgl 09 31 25
		Ki	iP 05 12 55.6			Um	iSgl 09 30 14.3
		ipP	05 13 07.0			Northwest Russia-Norway border region,	
		iPP	05 16 48			69.5°N, 30.4°E.	
		iSKS	05 23 29			Origin time = 09 26 38.	
			micr sec			Explosion.	
		P	Z' 2.5 1.9	"	7	Ki	iPn 10 51 12.6
		(cont.)				(cont.)	

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

1971				1971			
Apr.				Apr.			
7	(cont.)			8	Up	iP	07 58 55.2 C
	Ki	iSn	10 52 11.7			ipP	07 59 16.8
		iS*	10 52 30.5			iPP	08 02 30.9
	Sk	iSgl	10 54 58.8			iSKS	08 09 17
	Um	eSgl	10 53 28			iS	08 09 45
	Northwest Russia, 67.7°N, 34.1°E. Origin time = 10 49 55. Explosion.						micr sec
"	7	Um	iP 10 52 28.6			P	Z' 0.4 1.0
"	7	Ud	iP 11 27 55.2 Halmahera (h = 70 km).			Mx	E 3.6 23
"	7	Ki	iPn 12 21 42.4 iSn 12 22 30.5 iS* 12 22 43.5 Northwest Russia, Origin time = 12 20 39. Explosion.			Mx	N 4.6 23
"	7	Um	i(P) 12 25 53.2			Mx	Z 6.9 22
"	7	Ki	iSgl 12 40 43.2		Ki	iP	07 58 54.8 C
		Sk	iSgl 12 40 49.3			i	07 59 03.9
		Um	iSgl 12 41 10.5			ipP	07 59 14.2
	Nordland, Norway, 66.5°N, 14.2°E. Origin time = 12 39 16. Explosion.					iPP	08 02 31.1
"	7	Um	i(Sgl) 13 09 18.2			iSKS	08 09 17
"	7	Up	iP 13 59 54.7			iS	08 09 48.2
		Ki	iP 13 59 24.9				micr sec
		Sk	iP 13 59 51.7			P	Z' 1.8 1.0
		Um	iP 13 59 36.5			Mx	E 10 22
		Ud	iP 14 00 01.5			Mx	N 8.8 22
"	7	Ki	iPKP 15 29 13.7			Mx	Z 14 22
		Um	iPKP 15 29 11.3		Sk	iP	07 59 08.4 C
		Ud	iPKP 15 29 02.2			iPP	08 02 53.4
	Argentina (h = 120 km).					i	08 11 20.9
"	7	Up	i(P) 16 56 05.3		Um	iP	07 58 52.2 C
		De	i(P) 16 56 40.3			ipP	07 59 12.6
"	7	Um	iP 21 11 48.3			iSKS	08 09 13
	Mariana Islands (h = 130 km).					iS	08 09 40
"	7	Ud	iP 21 30 21.1			i	08 10 43.0
"	8	Up	eP 01 18 35		Ud	iP	07 59 04.4 C
		Um	eP 01 18 33			iPP	08 02 45.2
					De	i	08 11 37.2
					Sumatra. h = 80 km (Up, Ki, Um). m = 7.0, M = 6.1 (Up, Ki).		
"	8	Ud	iPKP 09 55 49.0	"	8	Ud	iPKP 09 55 49.0
"	8	De	iPKP 09 55 59.5	"	8	Up	iSgl 13 23 54.3
"	8	Up	iSgl 13 23 54.3			Um	iSgl 13 24 09.3
		Um	iSgl 13 24 09.3			Ud	iSgl 13 24 59.1
		Ud	iSgl 13 24 59.1			De	eSgl 13 25 18
		De	eSgl 13 25 18			Esthonia, 59.3°N, 28.2°E. Origin time = 13 21 04. Explosion.	
"	8	Ud	i(Sgl) 13 56 11.3	"	8	Ud	i(Sgl) 13 56 11.3
"	8	De	i(Sgl) 13 55 50.2	"	8	Up	iP 18 23 57.7
"	8	Up	iP 18 23 57.7			Ki	iP 18 24 49.7
		Ki	iP 18 24 49.7			Sk	eP 18 24 19
		Um	eP 18 24 19			(cont.)	



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

1971				1971			
Apr.	8	(cont.)		Apr.	9	(cont.)	
		Um eP	18 24 34			Up iPP	06 21 35.2
		Ud iP	18 23 48.6				micr sec
		De iP	18 23 16.8			P	Z' 0.2 1.2
		Crete.				Mx	E 0.9 12
"	8	Up ipP	18 41 34.0			Mx	N 1.2 14
		Ki iP	18 41 11.5			Mx	Z 0.7 14
		ipP	18 41 39.0			Ki iP	06 18 30.2
		Sk eP	18 41 31			i	06 18 35.1
		Um iP	18 41 03.4			iPP	06 20 44.4
		Ud iP	18 41 24.1				micr sec
		ipP	18 41 51.2			P	Z' 0.2 1.4
		De iP	18 41 22.1			Mx	E 2.1 17
		ipP	18 41 49.7			Mx	N 1.7 17
		Tadzhik-Sinkiang.				Mx	Z 1.1 14
		h = 130 km (Ki,Ud,De).				Sk iP	06 19 05.5
						i	06 19 10.9
"	8	Up iP	19 40 12.6 C			Um iP	06 18 48.8
		Ki iP	19 40 12.6 C			i	06 18 53.4
		Sk iP	19 40 26.1			iPP	06 20 57.1
		Um iP	19 40 09.9			Ud iP	06 19 21.4
		Ud iP	19 40 22.2 C			i	06 19 26.0
		De eP	19 40 21			i	06 19 34.6
		Sumatra (h = N).				De iP	06 19 37.9
						i	06 19 42.3
"	8	Up iP	20 18 02.6			iPP	06 22 03.5
		Ki iP	20 17 44.6			Sea of Japan (h = N).	
		Um iP	20 17 50.9			m = 6.1, M = 5.3 (Up,Ki).	
		Ud iP	20 18 09.9			Second P at Up,Ki,Sk,Um,Ud,	
		Halmahera (h = 50 km).				De about 5 sec after the	
						first onset. Interpreted as	
"	9	Ki iP	01 01 14.8			pP it gives a focal depth of	
		Aleutian Islands (h = 60 km).				20 km.	
"	9	Ud eP	03 08 14	"	9	Ud iP	06 22 52.4
		Molucca Passage (h = 40 km).				Indian Ocean (h = N).	
"	9	Up iP	03 20 58.0	"	9	Ud iP	06 27 16.6
		Ud iP	03 21 04.1			Kurile Islands.	
		Kurile Islands.		"	9	Up iP	08 43 30.2
"	9	Up iP	04 07 10.4			i	08 43 38.3
		Ki iP	04 06 24.6			Ki iP	08 42 34.8
		Um iP	04 06 45.2			Um iP	08 43 07.3
		Ud iP	04 07 16.4 C			Ud iP	08 43 33.3
		De iP	04 07 33.8			De eP	08 43 56
		Kurile Islands (h = 50 km).				Kamchatka (h = 45 km).	
"	9	Ud iP	06 10 28.4	"	9	Ki eP	10 52 31
		De iP	06 09 54.1			Um iP	10 53 05.1
"	9	Up iP	06 19 13.4	"	9	Sk iP	11 08 46.8
		i	06 19 18.5			Um eP	11 08 58
		i	06 19 37.8			De iP	11 10 09.6
		(cont.)					

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

1971				1971						
Apr.	9	Up	iP	11 12 06.8	Apr.	10	(cont.)			
		Ki	iP	11 11 14.7			Um	iP	00 47 14.0	
		Sk	iP	11 11 56.6			De	iP	00 48 02.1	
		Um	iP	11 11 38.9			Aleutian Islands (h = 50 km).			
		Ud	iP	11 12 14.1						
"	9	Up	eSgl	11 54 08	"	10	Up	iPKP	01 40 35.0	
		Um	iSgl	11 54 42.2				iSKP	01 43 28.8	
		Ud	eSgl	11 55 10			Ki	iPKP	01 40 17.2	
		De	eSgl	11 55 38				iSKP	01 43 04.8	
		Esthonia, 59.5°N, 24.9°E.					Sk	iPKP	01 40 28.1	
		Origin time = 11 52 11.						i	01 40 38.8	
		Explosion.						iSKP	01 43 22.0	
							Um	iPKP	01 40 23.7	
								iSKP	01 43 17.3	
"	9	Up	iP	14 00 54.5			De	iPKP	01 40 48.6 D	
		Ki	iP	14 00 39.4				iSKP	01 43 39.6	
		Um	iP	14 00 44.1			Fiji Islands (h = 540 km).			
		Ud	iP	14 01 02.2						
		De	iP	14 01 08.1						
		Mindanao (h = 490 km).			"	10	Up	iP	03 02 09.4	
"	9	Ki	iSgl	14 38 25.8			Ki	eP	03 03 47	
		Um	eSgl	14 38 53			Sk	iP	03 02 54.3	
		Northwest Russia.					Um	iP	03 02 51.8	
		Explosion.						i(pP)	03 02 58.5	
							De	iP	03 01 37.7	
							Yugoslavia (h = 20 km).			
"	9	Up	iP	15 18 57.4	"	10	Ki	ePn	06 09 27	
		Ki	iP	15 18 11.1			Sk	ePn	06 10 07	
		Sk	eP	15 18 48				e(Sn)	06 11 52	
		Um	iP	15 18 32.1 C			Um	iPn	06 10 10.5	
		Ud	iP	15 19 03.4 C			De	iP	06 11 42.2	
		De	eP	15 19 22				i	06 11 47.7	
		Kurile Islands (h = 130 km).					Norwegian Sea (h = N).			
"	9	Up	iP	15 20 50.1	"	10	Um	i(P)	06 17 15.3	
		Ki	iP	15 20 19.7	"	10	Ki	e(Sgl)	09 11 00	
		Um	iP	15 20 20.8	"	10	Ki	iPn	12 34 58.0	
		De	eP	15 21 13				iSn	12 35 46.9	
"	9	Up	iP	22 14 45.8				iS*	12 35 59.2	
			iPP	22 15 17.8			Sk	eSgl	12 38 49	
		Ki	iP	22 15 54.5			Um	iPn	12 35 35.5	
		Sk	iP	22 15 24.3				i(S*)	12 37 08.5	
		Um	iP	22 15 19.0				iSgl	12 37 30.1	
		De	iP	22 14 19.8			Northwest Russia,			
			i(pP)	22 14 28.7			69.3°N, 31.2°E.			
		Crete (h = 40 km).					Origin time = 12 33 54.			
							Explosion.			
"	10	Up	iP	00 47 40.8	"	10	Ki	iP	13 04 33.3	
			i(pP)	00 47 52.4			Um	iP	13 05 15.6	
		Ki	iP	00 46 47.3						
				micr sec						
		P	Z'	0.1 0.8	"	10	Ud	iPKP	13 21 32.9	
		Sk	iP	00 47 17.1			De	iPKP	13 21 44.4	
		(cont.)					Fiji Islands (h = 580 km).			

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

1971				1971										
Apr.	10	Up	iP	13 26	51.4	Apr.	11	(cont.)						
		Sk	eP	13 27	32			Ud	iP	08 53	12.9			
		Um	iP	13 27	23.2			Kurile Islands (h = N).						
		Ud	iP	13 27	01.0		"	11	Up	iP	09 22	34.3		
		De	iP	13 26	27.7				Um	eP	09 22	25		
		Turkey (h = 30 km).								Ud	iP	09 22	37.0	
"	10	Up	iP	14 43	55.8				De	i(pP)	09 23	16.1		
		Um	iP	14 43	52.1			Celebes (h = 120 km).						
		Ud	iP	14 44	09.5		"	11	Up	iP	18 43	16.0	C	
		Bay of Bengal (h = 25 km).								Um	iP	18 42	50.8	C
"	10	Ud	iP	15 41	25.9				Ud	iP	18 43	22.0	C	
		Banda Sea (h = 240 km).								De	iP	18 43	40.1	
"	10	Um	iP	20 36	19.8			Kurile Islands (h = N).						
		Mariana Islands (h = 35 km).					"	12	Um	iPKP	05 49	00.0		
"	10	Um	ePKP	23 47	59			New Hebrides Islands (h = 120 km).						
		Ud	iPKP	23 48	19.0		"	12	Um	i(P)	08 38	10.5		
		Santa Cruz Islands (h = N).								i	08 39	13.3		
"	11	Up	iSgl	04 11	28.2		"	12	Up	iP	10 10	24.7		
		Ki	iPn	04 07	12.9				Um	eP	10 10	04		
			iSn	04 08	10.5				Ud	iP	10 10	23.9		
		Sk	eSgl	04 10	57				i	10 10	36.7			
		Um	iSgl	04 09	27.5		"	12	Up	iPKP	11 55	52.3		
		Ud	i	04 11	41.3				Sk	ePKP	11 55	44		
			iSgl	04 11	59.5				Um	iPKP	11 55	37.0		
		De	eSgl	04 13	34				Ud	iPKP	11 55	50.7		
		Northwest Russia, 67.9°N, 33.8°E. Origin time = 04 05 56. Explosion.								De	ePKP	11 56	13	
"	11	Ki	e(Sgl)	06 27	40			Kermadec Islands (h = 15 km).						
		Um	i(Sgl)	06 28	50.9		"	12	Up	iP	12 21	34.3	C	
		Northwest Russia. Explosion.								Um	iP	12 21	11.6	
"	11	Up	iP	08 01	37.8				De	iP	12 21	55.4		
		Um	iP	08 01	12.3		"	12	Up	iPKP	12 41	01.0		
		Ud	iP	08 01	43.6				Um	iPKP	12 40	49.6		
		Kurile Islands.								Ud	iPKP	12 41	02.9	
"	11	Up	iP	08 05	27.2				De	iPKP	12 41	11.7		
				micr	sec		"	12	Ud	iP	15 10	32.1		
			P	Z'	0.1	1.2	"	12	Up	iP	19 11	02.6		
		Um	iP	08 05	35.1				iPP	19 12	39.2			
		Ud	iP	08 05	36.6				iS	19 17	09			
		De	iP	08 05	23.3					micr	sec			
		Indian Ocean (h = N).							P	Z'	2.3	1.7		
"	11	Up	eP	08 53	05				Mx	E	9.4	24		
		Um	iP	08 52	38.0				Mx	N	8.5	16		
		(cont.)							Mx	Z	7.3	18		
								Ki	iP	19 11	36.6	C		
								(cont.)						

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

1971					1971				
Apr.	12	(cont.)			Apr.	13	Up	i(P)	10 10 45.2
		Ki		micr sec			i		10 11 07.8
		P	Z'	2.2 1.8		"	13	Up	iP
		Mx	E	7.3 15					12 57 31.4
		Mx	N	11 16					micr sec
		Mx	Z	7.7 15				P	Z'
		Sk	iP	19 11 36.9 C				Mx	E
		Um	iP	19 11 15.5				Mx	N
			ipP	19 11 28.8			Ki	eP	12 58 37
			iPP	19 12 57.9					micr sec
		Ud	iP	19 11 18.6 C				Mx	E
			iPP	19 13 06.9			Sk	iP	12 58 14.8
		De	iP	19 11 03.9 C			Um	iP	12 58 03.8
		Iran.						i(S)	13 02 43
		h = 45 km (Um).					Ud	iP	12 57 43.8
		m = 6.8, M = 6.0 (Up, Ki).						i	12 57 54.3
"	12	Up	iPKP	19 53 57.7			De	iP	12 57 09.9
		Um	iPKP	19 53 48.1				i	12 57 17.9
		Ud	iPKP	19 53 59.2				e	13 04 17
		De	iPKP	19 54 10.6				Turkey (h = 15 km).	
		Tonga-Kermadec Islands			"	13	Ud	iP	15 51 06.0
		(h = 550 km).					De	eP	15 51 05
								Tadzhik SSR.	
"	12	Um	iPKP	21 00 56.8			"	13	Up
		New Hebrides Islands						Ki	ePKP
		(h = 270 km).						Sk	iPKP
"	12	Up	iPKP	21 18 39.9				Um	iPKP
			iSKP	21 21 23.0					i
		Ki	ePKP	21 18 31					iSKP
		Sk	ePKP	21 18 40				Ud	iPKP
		Um	iPKP	21 18 39.2				De	iPKP
			iSKP	21 21 16.6					Fiji Islands (h = 560 km).
		Ud	iPKP	21 18 42.2			"	13	Ki
		De	iPKP	21 18 51.3					iPgl
		Fiji Islands (h = 610 km).							iSgl
"	13	Up	iPKP	05 37 27.2					iRg
		Ki	ePKP	05 37 18				Sk	iSgl
		Um	iPKP	05 37 18.5				Um	iSgl
		Ud	iPKP	05 37 26.7					Lapland, Sweden,
		De	iPKP	05 37 35.0					67.6°N, 21.2°E.
		Tonga Islands (h = N).							Origin time = 18 12 29.
									Explosion.
"	13	Ud	iPKP	06 16 44.2			"	13	Up
		De	ePKP	06 16 52					iP
		Tonga Islands (h = 70 km).					"	13	Up
"	13	Um	iSgl	08 56 11.0					eP
		De	e(Sgl)	08 57 07					iP
		Esthonia.							eP
		Explosion.							iP
									Iran (h = 45 km).

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

1971				1971					
Apr.	Date	Station	Phase	Time	Apr.	Date	Phase		
	13	Um	iP	22 10 43.2		14	(cont.)		
		Ud	iP	22 11 00.9			Ki		
"	13	Up	iP	22 51 16.7			Mx E	2.4 15	
		Ki	eP	22 51 19			Mx N	1.3 17	
		Sk	eP	22 51 35			Mx Z	3.5 16	
		Um	iP	22 51 14.9			Sk eP	11 50 45	
		Ud	iP	22 51 27.1 C			Um eP	11 50 55	
			ipP	22 51 37.3			iSKS	12 01 10	
		Sumatra.					Ud iP	11 51 00.6	
		h = 35 km (Ud).					De iP	11 51 16.5	
"	13	Um	i(Sgl)	22 56 40.3	"	14	Up	iSgl	13 50 36.7
		Ud	i(Sgl)	22 56 52.7			Sk	eSgl	13 50 18
"	13	Ud	iPKP	23 51 46.8			Um	iSgl	13 49 07.3
		South Pacific Ocean.					Ångermanland, Sweden, 63.4°N, 18.9°E.		
"	13	Ud	iP	23 59 54.2			Origin time = 13 48 42.		
"	14	Um	iP	00 18 13.4	"	14	Up		micr sec
		Ud	iP	00 18 43.2			Mx	E	0.7 19
		Kurile Islands.					Mx	N	0.7 20
"	14	Ki	iP	00 33 34.2			Mx	Z	0.7 18
		Um	iP	00 33 01.4			Ki		micr sec
"	14	Up	iP	00 58 17.5			Mx	E	0.7 16
		Sk	eP	00 58 37			Mx	N	0.5 17
"	14	Um	iP	01 00 57.1			Mx	Z	0.9 16
		Mariana Islands (h = 130 km).					Ud	iP	19 47 24.7
"	14	Sk	eP	03 21 23			De	iP	19 47 39.2
		Um	eP	03 21 40			Baja California (h = N).		
			ipP	03 22 08.6			M = 5.2 (Up,Ki).		
		Ud	eP	03 21 46	"	14	Up	iP	21 33 33.3
		Guatemala.					Ud	iP	21 33 20.1
		h = 110 km (Um).			"	15	Up	iPKP	00 57 09.9
"	14	Um	iP	06 34 58.6				ipPKP	00 58 09.8
"	14	Sk	i(Sgl)	10 53 45.1			Ki	iPKP	00 56 38.0
		Um	i(Sgl)	10 52 12.3				i	00 56 40.7
		Northwest Russia.						ipPKP	00 57 40.1
		Explosion.					Sk	iPKP	00 56 52.2
"	14	Up	iP	11 51 06.8				i	00 56 54.7
			iSKS	12 01 29			Um	iPKP	00 56 46.5
				micr sec				i	00 56 49.6
		P	Z'	0.1 0.9			Ud	ePKP	00 56 58
		Mx	E	1.7 18			New Zealand.		
		Mx	N	1.6 18			h = 240 km (Up,Ki).		
		Mx	Z	3.3 20	"	15	De	iP	01 58 46.0
		(cont.)					Aegean Sea.		
"	15	Um	iP	03 48 00.9	"	15	Um	iP	03 48 00.9
		Ud	iP	03 48 21.9			Ud	iP	03 48 21.9
		Mindanao (h = 35 km).							

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

1971					1971						
Apr.	15	Um	i(Sgl)	09 01 54.9	Apr.	17	(cont.)				
"	15	De	e(P)	11 02 32			Sk	iSgl	08 08 12.3		
"	15	Um	i(Sgl)	13 43 21.3			Um	iSgl	08 07 12.4		
		Ud	i(Sgl)	13 44 43.0			Ud	iSgl	08 09 34.8		
"	15	Ud	iP	14 47 41.7			Lapland, Sweden, 67.9°N, 22.6°E. Origin time = 08 05 03.				
		Japan.			"	17	Ud	iP	08 32 54.9		
"	15	Up	iP	19 06 32.8			De	iP	08 32 22.4		
		Sk	eP	19 07 05			Dodecanese Islands.				
		Um	iX	19 08 23.2	"	17	Ki	iPgl	09 30 52.0		
		Ud	iP	19 06 43.8				iSn	09 31 30.2		
			iX	19 08 17.7				iSgl	09 31 42.8		
		Gulf of Aden (h = N).					Sk	i	09 34 03.8		
		The phase X could be P of another shock in the same area.						iSgl	09 34 31.8		
"	15	Sk	eP	19 21 28			Um	iSgl	09 33 18.7		
		Ud	eP	19 20 54			Northwest Russia-Norway border region, 69.7°N, 30.3°E. Origin time = 09 29 42. Explosion.				
		Greece.			"	17	Sk	iSgl	10 35 29.7		
"	16	De	e(P)	08 50 22			Um	iSgl	10 34 11.3		
			i	08 50 48.8			Esthonia. Explosion.				
"	16	Ki	e(P)	11 00 34	"	17	Um	iP	12 41 46.3		
"	16	Up	iP	12 50 42.8	"	17	Ki	iPn	12 53 18.4		
		Ud	iP	12 51 25.8				iSn	12 54 07.5		
		De	eP	12 51 13				iSgl	12 54 24.0		
"	16	Ud	iP	15 57 02.6			Sk	i(P)	12 54 41.7		
"	16	Ki	iSgl	17 27 59.0			Um	iSgl	12 55 51.7		
		Sk	iSgl	17 28 02.7			Northwest Russia. Origin time = 12 52 14. Explosion.				
		Um	iSgl	17 28 13.3			"	17	Up	iP	16 42 33.3
		Sweden-Norway border region, 66.1°N, 15.1°E.						iS	16 46 32.3		
		Explosion.						P	Z' 0.1 0.8		
"	16	Ud	iP	18 08 56.7 C			Ki	iP	16 43 30.6		
		Mindanao (h = 210 km).						eS	16 48 52		
"	16	De	iP	21 33 29.2			Sk	iP	16 43 17.3		
		Jordan-Syria (h = 15 km).						i(S)	16 48 26.2		
"	17	Sk	ePKP	01 59 57			Um	iP	16 42 58.1		
		Um	iPKP	01 59 51.0				iS	16 47 31		
		De	ePKP	02 00 05			Ud	iP	16 42 50.8		
		Solomon Islands (h = 70 km).						iS	16 47 12.3		
"	17	Ki	iPgl	08 05 17.9			De	iP	16 42 24.8		
			iSgl	08 05 30.3			Turkey (h = N).				
		(cont.)			"	17	Up	iP	17 43 15.3		
							Ud	iP	17 43 02.8		

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

1971				1971			
Apr.				Apr.			
	17	Um iP Rumania.	17 44 55.5		19	(cont.)	
						Up	micr sec
"	17	Ki ePKP Um ePKP New Hebrides Islands (h = 10 km).	20 21 03 20 21 00			P Mx Mx Ki eP	Z' 0.1 0.7 E 1.7 9 N 1.6 13 02 49 57
							micr sec
"	17	Up iP P Ki iP P Sk eP Um iP Ud iP Kamchatka (h = N). m = 5.9 (Up,Ki).	21 08 55.0 C micr sec Z' 0.1 1.0 21 08 02.3 C micr sec Z' 0.1 0.9 21 08 40 21 08 27.4 21 08 58.7			Mx Mx Mx Sk iP Um iP Ud iP De iP Greece-Albania (h = 15 km). M = 4.9 (Up,Ki).	E 6.1 15 N 2.3 14 Z 4.7 17 02 49 17.8 02 49 14.7 02 48 44.0 02 48 05.2
"	18	Um iP Uganda (h = N).	00 45 05.4	"	19	Up iP Um iP Ud iP Pamir.	20 44 22.6 20 44 19.8 20 44 39.3
"	18	Up i(PKP) i Solomon Islands (h = 130 km).	03 16 59.0 03 17 39.0	"	20	Ud iP	02 33 14.5
"	18	Um iP Uganda (h = N).	06 00 22.8	"	20	Ki iP Sk iP Um iP Ud iP De iP Tadzhik-Sinkiang (h = 130 km).	03 56 01.2 03 56 20.7 03 55 52.9 D 03 56 13.6 D 03 56 12.0 D
"	18	Ud iP Hindu Kush.	06 55 57.0	"	20	Up iP Ki iP Ud iP De iP Kamchatka (h = 80 km).	13 51 23.2 13 50 27.7 13 51 27.3 13 51 45.0
"	18	Up iP Ki iP Um iP Ud iP De iP Tadzhik SSR (h = N).	07 31 52.5 07 31 51.1 07 31 42.3 07 32 00.4 07 31 57.8	"	20	Um iSKS Ud iPP iPKKP De iPP iPKKP Chile (h = 90 km).	14 37 34 14 31 26.1 14 42 43.4 14 31 23.2 14 42 48.5
"	18	Up iP Ki iP Ud iP Luzon.	22 18 13.8 22 17 54.8 22 18 23.3	"	20	Up iP P Ki iP P Sk eP Ud iP De iP Talaud Islands (h = 80 km). m = 6.1 (Up,Ki).	16 26 36.9 micr sec Z' 0.1 0.9 16 26 19.4 C micr sec Z' 0.1 1.1 16 26 38 16 26 44.6 16 26 50.9
"	18	Ki iP Sk iP Ud iP Tien-Shan.	23 21 36.7 23 22 02.7 23 22 03.6				
"	19	Up iP (cont.)	02 48 36.5 C				

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

1971				1971					
Apr.	20	Up	iPgl	23 35 05.4	Apr.	21	Ki iP	12 00 59.9	
			iSgl	23 36 05.6			Ud iP	12 01 22.8	
		Ki	iPgl	23 34 37.5			Halmahera (h = 50 km).		
			iSgl	23 35 24.2		"	21	Ki iP	13 40 55.7
		Sk	iSgl	23 35 34.2			De iP	13 40 14.8	
		Um	iPgl	23 33 47.1			North Atlantic Ocean (h = N).		
			iSgl	23 33 55.0		"	21	Up iP	14 47 37.0
		Ud	iSgl	23 36 23.6				ipP	14 47 43.0
		De	iSgl	23 38 00.6			Ki iP	14 47 31.5	
		Västerbotten, Sweden, 64.3°N, 20.1°E. Origin time = 23 33 38.						ipP	14 47 36.8
"	21	Up	iPKP	01 37 49.6			Sk eP	14 47 57	
		South Sandwich Islands (h = N).					Ud iP	14 47 53.3	
								ipP	14 47 59.0
"	21	Up	iP	04 20 09.1			De iP	14 47 53.9	
		Peru (h = 50 km).					Kirghiz-Sinkiang. h = 25 km (Up,Ki,Ud).		
"	21	De	iPKP	06 40 31.0	"	21	Um iP	14 58 01.8	
		Kermadec Islands (h = 170 km).			"	21	Um iSgl	15 14 24.0	
"	21	Up	iP	06 53 05.8			Ud eSgl	15 15 55	
			iS	07 01 57			Near Lake Ladoga. Explosion.		
				micr sec	"	21	De i(Sgl)	16 04 54.5	
		P	Z'	0.1 0.8	"	21	De e	16 18 18	
		Mx	E	2.0 18			i(Sgl)	16 18 47.5	
		Mx	N	3.5 18	"	21	Ki iSgl	16 22 41.4	
		Mx	Z	4.4 18			Sk iSgl	16 22 45.7	
		Ki	iP	06 52 12.3			Um iSgl	16 23 08.4	
				micr sec	"	21	Ud eSgl	16 24 36	
		P	Z'	0.1 1.0			Nordland, Norway, 66.0°N, 15.5°E. Origin time = 16 21 12. Explosion.		
		Mx	E	3.5 16	"	21	De iP	18 50 49.5	
		Mx	N	2.7 17			Congo (h = N).		
		Mx	Z	4.5 16	"	21	Ki i(PKP)	19 21 25.2	
		Sk	iP	06 52 42.3			De iPKP	19 21 52.0	
		Ud	iP	06 53 04.1			Fiji Islands (h = 450 km).		
			i	06 53 16.8	"	21	Sk iP	20 12 10.9	
		De	iP	06 53 27.0			Ud iP	20 11 39.5	
		Alaska (h = 20 km). m = 6.0, M = 5.7 (Up,Ki).					De iP	20 11 06.9	
"	21	Ud	iPKP	08 54 36.1	"	21	Crete (h = 60 km).		
		De	iPKP	08 54 46.9	"	21	Ud iP	23 59 07.7	
		Tonga-Kermadec Islands (h = N).					Greece.		
"	21	Up	eP	09 25 33					
		Sk	iP	09 25 47.4 D					
		Ud	iP	09 25 45.0					
		India (h = N).							
"	21	Ud	i(Sgl)	10 54 42.8					
		De	i(Sgl)	10 55 02.9					





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

1971				1971			
Apr.				Apr.			
23	Ki	iSg1	12 08 04.1	25	(cont.)		
	Sk	iSn	12 08 02.0		Up		micr sec
		iSg1	12 08 11.2		Mx	E	0.8 9
		iSg2	12 08 15.7		Mx	N	0.6 7
	Um	iSn	12 08 00.5		Mx	Z	1.5 8
		iSg1	12 08 21.7		Ki	iP	03 39 37.1 C
	Sweden-Norway border region, 66.2°N, 15.1°E.					iPn	03 40 37.8
	Origin time = 12 06 41.						micr sec
	Explosion.					P	Z' 1.1 0.6
"	23	Um	i(Sg1) 12 11 25.6			Mx	E 0.8 9
"	23	Um	iPKP 12 51 16.6			Mx	N 0.6 6
	Solomon Islands (h = 70 km).					Mx	Z 0.7 8
"	23	Up	iP 13 29 50.5		Sk	iP	03 40 08.4 C
		Ki	iP 13 29 54.7			iPn	03 41 22.0
		Sk	eP 13 29 38			iPP	03 41 30.9
		Um	iP 13 29 55.5		Um	iP	03 39 37.9 C
		Ud	iP 13 29 41.0			iPP	03 40 50.0
		De	iP 13 29 42.3		Ud	iP	03 40 09.3 C
	Colombia (h = 170 km).					iPn	03 41 22.2
"	23	De	i(Sg1) 13 50 15.5		De	iP	03 40 16.4 C
"	23	Ki	i(Sg1) 18 10 36.5			iPn	03 41 31.9
"	23	Ud	ePKP 21 25 33			iPP	03 41 43.8
	Fiji Islands (h = 600 km).				Kazakh SSR. m = 6.7, M = 4.9 (Up,Ki). Underground explosion.		
"	23	Um	iP 23 57 47.6	"	25	Up	iP 04 43 45.5
	Japan (h = 170 km).					Ki	iP 04 45 00.2
"	24	Up	iP 00 08 17.7			Sk	iP 04 44 21.0
"	24	Up	iPKP 02 54 43.4			Um	iP 04 44 24.7
		Ki	iPKP 02 54 31.4			Ud	iP 04 43 47.8 C
		Sk	iPKP 02 54 42.3			De	iP 04 43 11.2 C
		Um	iPKP 02 54 37.7			Tyrrhenian Sea (h = 300 km).	
		Ud	iPKP 02 54 47.6	"	25	Up	iP 05 05 52.3
		De	ePKP 02 54 54			Ki	eP 05 05 05
	Santa Cruz Islands (h = 120 km).					Sk	eP 05 05 39
"	24	Up	iP 09 21 24.2			Um	iP 05 05 27.2
		i	09 21 40.7			Ud	iP 05 05 58.0
		Ud	iP 09 21 00.5			Kurile Islands (h = N).	
		i	09 21 16.3	"	25	Up	iSg1 08 28 43.5
"	25	Up	iP 03 39 52.8 C			Ki	ePn 08 24 30
		iPn	03 40 57.9				iSn 08 25 28.2
		iPP	03 41 11.4				iS* 08 25 48.1
			micr sec				iSg1 08 25 51.8
		P	Z' 0.4 0.9			Sk	eSn 08 27 19
	(cont.)						iSg1 08 28 17.4
						Um	iSn 08 26 08.8
							iSg1 08 26 44.3
						Ud	iSg1 08 29 14.0
						Northwest Russia, 67.8°N, 33.9°E. Origin time = 08 23 13. Explosion.	

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

1971				1971					
Apr.	25	Ud	eP	13 24 19	Apr.	26	Um	i(Sgl)	17 13 38.1
"	25	Ki	iP	13 37 21.8	"	26	Up	iP	22 35 46.0 C
		Ud	iP	13 37 39.7					micr sec
		Iceland (h = N).					Mx	E	0.6 15
							Mx	N	0.8 18
"	25	Ki	iPn	17 04 19.9			Mx	Z	0.7 13
			iSn	17 05 06.8		Ki	eP		22 35 15
			iSgl	17 05 21.8					micr sec
		Northwest Russia.					Mx	E	0.5 15
		Origin time = 17 03 18.					Mx	N	0.3 14
		Explosion.					Mx	Z	0.5 14
"	25	Up	iP	17 52 06.6		Sk	iP		22 35 47.0
				micr sec		Um	iP		22 35 29.3 C
		Mx	E	1.5 20		Ud	iP		22 35 55.1 C
		Mx	N	1.6 18		Ryukyu Islands (h = 20 km).			
		Mx	Z	3.1 19		M = 5.2 (Up,Ki).			
		Ki	iP	17 51 20.0	"	27	Up	iP	10 16 17.0
			i	17 51 23.1			ipP		10 16 24.2
			i	17 51 31.3		Ki	iP		10 15 56.1
				micr sec			ipP		10 16 03.2
		P	Z'	0.2 1.0		Sk	eP		10 16 29
		Mx	E	3.7 15		Um	iP		10 16 03.6
		Mx	N	2.0 15			ipP		10 16 11.2
		Mx	Z	4.0 15		Ud	iP		10 16 27.3
		Sk	iP	17 51 08.5		Luzon.			
		Um	iP	17 51 44.1		h = 25 km (Up,Ki,Um).			
			i	17 51 46.3	"	27	Um	i(Sgl)	11 46 27.2
			i	17 51 49.7	"	27	Up	eP	14 55 27
			iS	17 54 58					micr sec
		Ud	iP	17 51 45.9			Mx	E	0.8 14
		De	iP	17 52 19.7			Mx	N	0.6 13
		Iceland (h = N).					Mx	Z	1.9 14
		M = 4.6 (Up,Ki).				Ki	iP		14 55 30.8
"	26	Up	e(PKP)	04 39 00					micr sec
		Ki	ePKP	04 38 30			Mx	E	1.6 13
		Um	iPKP	04 38 44.7			Mx	N	0.6 8
		Ud	iPKP	04 38 48.3			Mx	Z	1.5 13
		De	iPKP	04 38 58.4		Sk	iP		14 55 51.5
		Tonga-Kermadec Islands				Um	iP		14 55 22.7
		(h = N).				Ud	iP		14 55 44.3
"	26	Up	iP	10 20 37.4		De	iP		14 55 42.0
			iPcP	10 21 11.4		Kirghiz SSR (h = 35 km).			
				micr sec		M = 5.0 (Up,Ki).			
		P	Z'	0.1 0.6					
		Ki	iP	10 19 46.2	"	27	Up	iPKP	16 26 31.0
		Sk	iP	10 20 23.1			Um	iPKP	16 26 20.9
			iPcP	10 21 03.1			Ud	iPKP	16 26 33.2
		Um	iP	10 20 10.4		Kermadec Islands (h = 480 km).			
			iPcP	10 20 55.4	"	27	Um	iP	17 25 28.7
		Ud	iP	10 20 41.9			De	iP	17 24 41.2
			iPcP	10 21 14.8		Turkey (h = 40 km).			
		De	iP	10 21 02.9					
		Kurile Islands (h = 240 km).							

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

1971					1971				
Apr.	27	Ki	iSgl	17 25 44.4	Apr.	28	(cont.)		
		Sk	iSgl	17 25 49.6			Sk	iSgl	11 08 10.6
		Um	iSgl	17 26 12.4			Um	eSn	11 06 02
				Nordland, Norway, 66.5°N, 14.0°E. Origin time = 17 24 14. Explosion.				iSgl	11 06 40.7
"	27	Up	iPKP	20 15 02.8			Ud	iSgl	11 09 12.8
		Ki	iPKP	20 14 42.1			De	eSgl	11 10 38
		Sk	iPKP	20 14 56.5					Northwest Russia, 67.9°N, 33.9°E. Origin time = 11 03 08. Explosion.
		Um	iPKP	20 14 51.5	"	28	De	iPKP	12 49 41.2
			ipPKP	20 14 56.1					Fiji Islands (h = 580 km).
		Ud	iPKP	20 15 03.9	"	28	Um	iP	13 08 02.1
			ipPKP	20 15 09.0	"	28	Ki	iPn	13 21 11.6
		De	iPKP	20 15 12.9				iSn	13 21 59.3
				Kermadec Islands. h = 20 km (Um,Ud).				iS*	13 22 12.6
"	27	Um	iP	20 27 05.9			Sk	iSgl	13 25 00.3
"	27	Ki	i	22 38 50.8			Um	iSgl	13 23 41.9
			i(pP)	22 39 08.1					Northwest Russia-Norway border region, 69.4°N, 30.9°E. Origin time = 13 20 09. Explosion.
		Ud	i(pP)	22 40 03.4					
				Aleutian Islands (h = 140 km).	"	28	Up	ePKP2	14 51 09
"	28	Ki	iP	02 22 41.1			Ki	iPKP	14 50 35.5
		Um	iP	02 22 53.6			Sk	ePKP	14 50 47
		Ud	iP	02 23 16.8			Um	iPKP	14 50 42.1
				Volcano Islands (h = 200 km).			Ud	ePKP2	14 51 20
"	28	Um	iP	04 29 41.6					New Zealand (h = 35 km).
				Japan (h = 40 km).	"	28	Ud	i(Sgl)	15 18 33.3
"	28	Up	iPKP	06 12 12.0			De	i(Sgl)	15 16 43.6
			ipPKP	06 12 25.2	"	28	Up	iP	15 20 46.0
		Sk	ePKP	06 12 11			Ki	iP	15 20 53.6
		Um	iPKP	06 11 56.9			Sk	iP	15 21 10.6
			ipPKP	06 12 09.3			Um	iP	15 20 44.2
		Ud	iPKP	06 12 10.2			Ud	iP	15 21 02.3
			ipPKP	06 12 22.9			De	eP	15 21 00
		De	iPKP	06 12 28.1					West Pakistan (h = 40 km).
				Kermadec Islands. h = 45 km (Up,Um,Ud).	"	28	Up	iP	15 40 57.3
"	28	Ki	iPn	07 50 05.1			Sk	iP	15 41 39.2
			iPgl	07 50 14.3			Um	iP	15 41 37.4
			i(Sn)	07 50 57.7			Ud	iP	15 41 03.6
			iSgl	07 51 11.6					Greece.
				Northwest Russia. Explosion.	"	28	Up	iP	15 42 55.0
"	28	Up	eSgl	11 08 38				iS	15 51 53
		Ki	iPn	11 04 24.9					micr sec
			iSn	11 05 22.8				P	Z' 0.1 1.1
				(cont.)					(cont.)

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

1971				1971			
Apr.	28	(cont.)		Apr.	29		
		Up	micr sec			Up	iSgl 13 02 43.9
		Mx	E 8.7 17			Sk	iSgl 13 02 44.8
		Mx	N 40 21			Ud	iPgl 13 00 49.6
		Mx	Z 15 18				iSgl 13 01 45.9
		Ki	iP 15 42 44.0			De	iSn 13 01 36.6
		iS	15 51 32				iSgl 13 01 54.3
			micr sec			Southwest Norway, 58.3°N, 6.3°E. Origin time = 12 59 36. Solution checked with Kongsberg readings.	
		P	Z' 0.2 0.9			"	29 De e(Sgl) 14 18 17
		Mx	E 23 18			"	29 Ki iPn 14 20 17.9
		Mx	N 15 15				iSn 14 21 06.6
		Mx	Z 22 18				iS* 14 21 20.5
		Sk	iP 15 43 07.5				iSgl 14 21 24.1
		Um	iP 15 42 45.3				iRg 14 21 38.4
		iS	15 51 34			Sk	iSn 14 23 12.6
		Ud	iP 15 43 07.4				iSgl 14 24 06.7
		i	15 43 55.1			Um	iPn 14 20 55.9
		De	iP 15 43 12.4				iSn 14 22 11.5
		i	15 43 42.9				iSgl 14 22 50.6
		Burma-China (h = 15 km). m = 6.2, M = 6.2 (Up,Ki).				Ud	eSgl 14 25 17
"	28	Up	iP 18 07 40.9			De	eSgl 14 27 00
		Greece.				Northwest Russia-Norway border region, 69.4°N, 31.1°E. Origin time = 14 19 14. Explosion.	
"	28	Um	iP 18 11 58.8			"	29 Ki e(P) 14 55 34
"	29	Up	iP 00 58 56.1			"	29 Up eP 15 14 47
		P	Z' 0.1 0.8				Ki iP 15 14 29.9
		Ki	iP 00 58 36.6				Um iP 15 14 37.2
		Sk	iP 00 59 01.8				Ud iP 15 14 59.6
		Um	iP 00 58 43.2			Formosa.	
		Ud	iP 00 59 05.9 D			"	29 Ud i(Sgl) 15 30 50.1
		De	iP 00 59 13.0				De i(Sgl) 15 30 57.1
		Luzon (h = N).				Probably Bohuslän, southwest Sweden (by combination with Kongsberg reading). Origin time = 15 29 50.	
"	29	Up	iP 05 54 35.8			"	29 Up iP 15 37 15.0
		Ki	eP 05 54 15				micr sec
		Um	eP 05 54 22				P Z' 0.1 1.0
		Ud	iP 05 54 39.0			Ki	iP 15 36 20.8
		Luzon. Origin time = 05 42 23.					ipP 15 36 28.8
"	29	Up	iP 08 25 44.0				micr sec
		Mx	N 0.6 17				P Z' 0.1 1.0
		Sk	iP 08 25 52.9			(cont.)	
		Ud	iP 08 25 36.6				
		Atlantic Ocean (h = N).					
"	29	Sk	eP 09 04 32				
"	29	Ud	iP 11 42 49.1				
		Kirghiz SSR.					

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

1971					1971				
Apr.	29	(cont.)			Apr.	30	(cont.)		
		Sk	iP	15 36 55.8			Sk	iP	03 27 33.2
		Um	iP	15 36 46.7			Um	iP	03 27 37.7
			ipP	15 36 55.6				ipP	03 27 43.8
		Ud	iP	15 37 16.7			Ud	iP	03 27 09.5
		De	eP	15 37 39				ipP	03 27 16.2
		Aleutian Islands.					Ascension Island.		
		h = 30 km (Ki,Um).					h = 25 km (Up,Um,Ud).		
		m = 5.9 (Up,Ki).							
"	29	Up	i(P)	15 38 39.3	"	30	Ki	iP	06 16 18.8
		Um	e(P)	15 38 29			Turkey (h = 30 km).		
"	29	De	e(Sgl)	16 16 17	"	30	Up	iP	09 12 39.9
"	29	Up	Mx	17 46				ipP	09 12 48.1
				micr sec			Ki	iP	09 13 26.2
		Mx	E	0.9 18				ipP	09 13 33.6
		Mx	N	0.9 20			Sk	iP	09 13 23.9
		Mx	Z	0.7 17			Um	iP	09 13 01.6
		Ki	Mx	17 44			Ud	iP	09 13 03.9
				micr sec				i	09 13 07.4
		Mx	E	0.7 17			De	iP	09 12 47.9
		Mx	N	0.5 18			Iran.		
		Mx	Z	0.9 18			h = 30 km (Up,Ki).		
		South Pacific (h = N).			"	30	Ud	e(Sgl)	09 35 50
		M = 5.8 (Up,Ki).					De	i(Sgl)	09 36 11.5
"	29	Up	iP	20 08 54.9	"	30	Ki	iPn	10 50 18.8
			iPP	20 12 20.1				iSn	10 51 16.2
			iSKS	20 19 17				iSgl	10 51 37.2
			iS	20 19 28			Sk	i(S*)	10 53 45.7
				micr sec				iSgl	10 53 59.7
		P	Z'	1.8 1.9			Um	iSn	10 51 56.6
		Mx	E	2.7 18				i	10 52 11.1
		Mx	N	3.5 18				iSgl	10 52 31.5
		Mx	Z	5.1 22			Northwest Russia,		
		Ki	iP	20 08 37.5			67.7°N, 33.8°E.		
			iS	20 18 54			Origin time = 10 49 02.		
				micr sec			Explosion.		
		P	Z'	1.8 2.1	"	30	Up	iP	11 04 02.7
		Mx	E	7.1 22	"	30	Up	i(P)	12 01 20.1
		Mx	N	4.6 19				i	12 01 23.6
		Mx	Z	5.4 19	"	30	Sk	eP	12 48 57
		Sk	iP	20 09 02.6			Um	iP	12 48 44.2
		Um	iP	20 08 43.8			Ud	iP	12 48 26.2
			iS	20 19 05	"	30	Um	eP	13 32 08
		Ud	iP	20 09 03.8	"	30	Ki	iPg1	14 02 41.0
		De	iP	20 09 09.2				iSgl	14 02 51.6
		Luzon (h = 5 km).						iRg	14 02 54.7
		m = 6.9, M = 6.0 (Up,Ki).					Sk	eSgl	14 05 01
"	30	Up	eP	03 27 14	"	30			(cont.)
			ipP	03 27 20.6					
		Ki	iP	03 28 02.0					
		(cont.)							

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

1971				1971				
Apr.	30	(cont.)		Apr.	30	(cont.)		
		Um	iSgl	14 04 07.5		Ki	iP1	18 02 02.5
							iP2	18 02 10.6
		Lapland, Sweden, 67.1°N, 20.5°E.				Sk	iP1	18 01 52.2
		Origin time = 14 02 27.					iP2	18 02 00.3
		Iron ore mine explosion.				Um	iP1	18 02 10.3
							iP2	18 02 17.7
"	30	Up	iP	14 16 37.5		Ud	iP1	18 02 00.0
				micr sec			iP2	18 02 08.1
		P	Z'	0.1 0.8		De	iP2	18 02 14.6
		Ki	iP	14 15 44.3		Caribbean Sea (h = 5 km).		
		Sk	eP	14 16 16		Double P, in average 8.1		
		Um	iP	14 16 11.0		sec apart.		
		Ud	iP	14 16 38.9				
			ipP	14 17 03.4				
		De	iP	14 17 00.6				
		Aleutian Islands.						
		h = 100 km (Ud).						
"	30	Um	iP	14 59 48.6				
		Sea of Japan (h = N).						
"	30	Um	iP	15 53 19.8				
		Mongolia.						
"	30	Up	iP	15 58 48.3 C				
		i		15 58 49.8				
				micr sec				
		P	Z'	0.3 1.1				
		Ki	iP	15 57 54.3				
		i		15 57 55.8				
				micr sec				
		P	Z'	0.2 1.0				
		Mx	E	0.7 17				
		Mx	N	0.9 20				
		Mx	Z	1.7 22				
		Sk	iP	15 58 29.0				
		i		15 58 30.6				
		Um	iP	15 58 20.6				
		i		15 58 22.0				
		Ud	iP	15 58 50.2				
		i		15 58 51.4				
		De	iP	15 59 12.1				
		i		15 59 13.7				
		Aleutian Islands (h = 35 km).						
		m = 6.3 (Up, Ki).						
		Double P, in average 1.5						
		sec. apart.						
"	30	Um	iP	16 49 30.7				
		Turkey.						
"	30	Up	iP1	18 02 09.9				
			iP2	18 02 18.5				
				micr sec				
		P2	Z'	0.1 1.0				
		(cont.)						

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

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

MAY 1 - 31, 1971

1971	May	1	Ud	iP	04 16 09.0	1971	May	1	Up	iPKP	14 34 34.6	
					North Atlantic Ocean (h = N).					iPP	14 37 38.7	
										eSKP	14 38 05	
"		1	Ud	iP	08 39 03.6						micr sec	
			De	iP	08 39 28.1				Mx	E	1.3 26	
"		1	Ki	iSgl	11 32 35.5				Mx	N	1.4 25	
			Sk	iSgl	11 32 42.4				Mx	Z	2.4 22	
			Um	iSgl	11 33 20.1				Ki	iX	14 34 31.0	
					Off coast of Norway,					iSKP	14 37 41.9	
					67.2°N, 12.0°E.						micr sec	
					Origin time = 11 30 50.				Mx	E	1.3 23	
"		1	Up	iP	13 50 04.0				Mx	N	0.6 18	
					micr sec				Mx	Z	1.7 22	
			Mx	E	1.5 10				Sk	iX	14 34 33.4	
			Mx	N	1.5 12					iSKP	14 37 57.6	
			Mx	Z	1.7 12				Um	iX	14 34 35.7	
			Ki	iP	13 51 11.5					iPP	14 37 08.1	
			ipP		13 51 17.8					iSKP	14 37 52.8	
					micr sec				Ud	iPKP	14 34 37.7	
			Mx	E	3.1 11					iX	14 34 41.1	
			Mx	N	1.4 12				De	iPKP	14 34 45.6	
			Mx	Z	1.7 12					iX	14 34 48.3	
			Sk	iP	13 50 45.8					iSKP	14 38 15.7	
			ipP		13 50 51.7						Loyalty Islands (h = 150 km).	
			Um	iP	13 50 36.2						M = 5.8 (Up,Ki).	
			ipP		13 50 41.1						The phase X denotes a second	
			iS		13 54 49						PKP, in average 3 sec after	
			Ud	iP	13 50 15.3						the first PKP.	
			ipP		13 50 21.2			"	1	Ki	iP	14 44 36.5
			De	iP	13 49 40.4					Sk	iP	14 44 27.8
			ipP		13 49 46.0					Um	iP	14 44 44.6
					Turkey.					ipP		14 45 07.3
					h = 20 km (Ki,Sk,Um,Ud,De).					Ud	iP	14 44 34.8
					M = 5.0 (Up,Ki).					De	iP	14 44 40.9
										ipP		14 45 03.5
												El Salvador.
												h = 90 km (Um,De).



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

1971					1971				
May	1	Um	iP	16 02 56.2	May	2	(cont.)		
"	1	Ki	iP	19 05 41.1			De	iP	06 19 46.3
		Um	iP	19 05 30.1				ipP	06 19 54.9
		Ud	iP	19 05 48.0				iP'P'	06 47 35.1
			ipP	19 06 36.6			Aleutian Islands.		
		De	eP	19 05 45			h = 30 km (Up,Ki,Sk,Ud,De).		
		Hindu Kush.					m = 6.2, M = 6.9 (Up,Ki).		
		h = 230 km (Ud).			"	2	Um	iP	06 55 58.5
"	1	Ki	iP	20 48 26.4			Ud	iP	06 56 26.8
"	1	Up	iP	22 24 24.8	"	2	Um	iP	07 15 36.2
		Sk	iP	22 24 59.7	"	2	Um	iP	07 57 38.1
		Um	iP	22 25 03.7			Kurile Islands.		
		Ud	iP	22 24 25.7	"	2	Up	iP	09 19 55.3
		De	iP	22 23 48.9			Ki	iP	09 19 03.5
		Italy (h = 290 km).					Um	iP	09 19 29.6
"	2	Up	iP	01 49 48.0			Ud	iP	09 19 55.5
		Ki	iP	01 49 20.8			De	iP	09 20 19.0
		Um	iP	01 49 30.6			Aleutian Islands (h = 45 km).		
		Mariana Islands (h = 20 km).			"	2	Up	iP	12 20 26.5
"	2	Up	iP	06 19 24.0			Ud	iP	12 20 30.9
			ipP	06 19 32.9	"	2	Up	iP	12 35 51.4
			iPcP	06 19 53.1			Ud	iP	12 35 59.3
			iS	06 28 27	"	2	Um	iP	23 27 14.1
				micr sec			Ud	eP	23 27 03
		P	Z'	0.1 0.6			Caribbean Sea (h = N).		
		Mx	E	40 23	"	2	Um	iP	00 42 34.7
		Mx	N	77 21					micr sec
		Mx	Z	100 21			P	Z'	0.1 1.0
		Ki	iP	06 18 31.9			Mx	E	2.1 14
			ipP	06 18 38.0			Mx	N	2.5 16
			iPcP	06 19 23.1			Mx	Z	2.8 14
			iS	06 26 47			Ki	iP	00 42 33.7
			iP'P'	06 48 04.6					micr sec
				micr sec			P	Z'	0.2 1.1
		P	Z'	0.1 0.6			Mx	E	1.8 13
		Mx	E	55 20			Mx	N	1.9 16
		Mx	N	67 20			Mx	Z	2.2 13
		Mx	Z	100 20			Sk	iP	00 42 53.9
		Sk	iP	06 19 03.7			Um	iP	00 42 28.9
			ipP	06 19 12.4			Ud	iP	00 42 49.9
			iP'P'	06 47 47.5			De	iP	00 42 49.7
		Um	iP	06 18 58.0			Tibet (h = 15 km).		
			iPcP	06 19 39.7			m = 5.9, M = 5.5 (Up,Ki).		
			iS	06 27 37	"	3	Ki	i(Pg1)	05 51 41.8
			iP'P'	06 47 47.5				i(Sg1)	05 51 48.2
		Ud	iP	06 19 25.3					
			ipP	06 19 33.5					
			iPcP	06 19 48.6					
			iP'P'	06 47 37.4					
		(cont.)							

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

1971				1971					
May	3	Ki	iP	06 31 44.2	May	4	Up	iP	02 17 46.1
		Um	iP	06 31 50.5				i	02 17 47.8
		Ud	iP	06 32 08.6				ipP	02 18 02.1
				Mindanao (h = 70 km).				iX	02 20 35.5
"	3	Ki	iP	08 22 03.8				iPP	02 21 39.9
		Sk	iP	08 21 58.1				iSKS	02 28 19
		Um	iP	08 22 12.4					micr sec
				Mexico (h = 150 km).			P	Z'	0.4 1.0
"	3	Up	iP	11 20 29.7			Mx	E	7.3 21
"	3	Um	iPKP	11 47 37.1			Mx	N	8.2 20
		De	iPKP	11 47 47.2			Mx	Z	12 22
				Fiji Islands (h = 640 km).		Ki	iP		02 17 44.5 C
"	3	Up	Mx	12 06			i		02 17 48.6
				micr sec			ipP		02 17 59.4
		Mx	E	1.4 19			iSKS		02 28 17
		Mx	N	1.4 19					micr sec
		Mx	Z	2.7 20			P	Z'	0.6 1.0
		Ki	Mx	12 00			Mx	E	14 24
				micr sec			Mx	N	9.8 21
		Mx	E	1.8 19			Mx	Z	19 24
		Mx	N	1.4 20		Sk	iP		02 17 58.8
		Mx	Z	2.4 21			i		02 18 03.0
				Solomon Islands (h = 45 km).			ipP		02 18 16.2
				M = 5.9 (Up,Ki).			iPP		02 21 56.1
"	3	Up	iPgl	13 30 45.8			Um	iP	02 17 42.6 C
			iSgl	13 31 04.1			i		02 17 47.1
		Sk	eSn	13 32 54			ipP		02 18 00.3
			iSgl	13 33 18.7			iX		02 20 20.2
		Um	iPgl	13 31 54.4			iSKS		02 28 12
			iSgl	13 32 58.9			iS		02 28 54
		Ud	iPgl	13 31 11.3		Ud	iP		02 17 55.5
			iSgl	13 31 48.4			i		02 17 58.1
		De	ePgl	13 31 20			ipP		02 18 10.4
			iSgl	13 32 09.7			iX		02 21 06.0
				Baltic Sea, 58.6°N, 18.4°E.			iPP		02 21 55.4
				Origin time = 13 30 23.		De	iP		02 17 54.3
				Explosion.			iX		02 21 09.0
"	3	Up	iSgl	13 36 18.7			iPP		02 21 52.1
		Ud	iSgl	13 37 01.6			Sunda Strait.		
		De	eSgl	13 37 25			h = 60 km (Up,Ki,Sk,Um,Ud).		
				Baltic Sea, 58.6°N, 18.4°E.			m = 6.8, M = 6.4 (Up,Ki).		
				Origin time = 13 35 38.			The phase X is probably an		
				Explosion.			early PP.		
"	3	Up	iSgl	13 36 18.7	"	4	Ki	iP	02 44 31.3
		Ud	iSgl	13 37 01.6			Um	iP	02 44 35.3
		De	eSgl	13 37 25	"	4	Sk	iP	02 45 22.9
				Baltic Sea, 58.6°N, 18.4°E.			Ud	iP	02 44 47.6
				Origin time = 13 35 38.			Albania.		
				Explosion.	"	4	Ud	i(P)	04 35 05.2
"	3	Ud	iP	15 53 00.8	"	4	Ud	i(P)	10 36 57.5
			i	15 53 12.7					
"	3	Ud	iP	21 30 50.8					

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

1971					1971				
May	4	Up	e(Sgl)	12 54 11	May	5	Up	iPKP	03 10 42.4 C
		Ud	i(Sgl)	12 55 02.1			Um	ePKP	03 10 31
		De	e(Sgl)	12 54 43			Ud	iPKP	03 10 44.3 C
"	4	Up	iP	13 00 40.0			i		03 10 51.6
		Um	iP	13 00 37.7			De	iPKP	03 10 54.1 C
		Ud	iP	13 00 55.6			Tonga-Kermadec Islands (h = 50 km).		
			ipP	13 01 42.8					
		De	iP	13 00 52.8	"	5	Ud	iP	06 12 01.0
		Hindu Kush.					Luzon (h = 40 km).		
		h = 230 km (Ud).							
"	4	Um	iSgl	13 29 28.7	"	5	Up	iP	09 46 09.0
		Ud	iSgl	13 29 57.6			Ki		micr sec
		De	eSgl	13 30 23.3				Mx	E 0.5 12
		Esthonia, 59.5°N, 24.8°E.						Mx	N 0.3 12
		Origin time = 13 26 58.						Mx	Z 0.5 12
		Explosion.					Sk	iP	09 46 48.4
"	4	De	i(P)	15 09 37.5			Um	eP	09 46 51
"	4	Ud	i(Sgl)	15 12 05.3			i		09 47 03.8
		De	i(Sgl)	15 10 31.3	"	5	Ud	iP	09 46 05.1
"	5	Up	iPKP2	00 11 34.2			Italy (h = 10 km).		
		Ki	iPKP	00 11 00.7	"	5	Ud	i(P)	12 39 58.3
		Sk	iPKP	00 11 13.5	"	5	Sk	eP	19 35 32
		Um	iPKP	00 11 07.8	"	5	Ud	i(P)	23 40 38.3
		Ud	ePKP2	00 11 39			De	i(P)	23 41 01.8
		New Zealand (h = 50 km).		"	6	Ud	iP	01 22 20.4	
"	5	Up	iP	01 19 47.0			De	iP	01 22 18.9
		Ki	eP	01 21 17			Leeward Islands (h = 60 km).		
		Sk	iP	01 20 30.4	"	6	Ud	iP	01 48 38.1
		Um	iP	01 20 30.4	"	6	Up	eP	03 10 56
		Ud	iP	01 19 53.2			i		03 10 57.9
		De	iP	01 19 14.1			Ki	eP	03 10 03
			ipP	01 19 17.1			Um	iP	03 10 30.3
		Albania.					iPcP		03 11 04.3
		h = 10 km (De).				Ud	iP		03 10 56.4
"	5	Up	iP	01 55 19.2			De	iP	03 11 19.1
			ipP	01 55 32.8			Aleutian Islands (h = 50 km).		
				micr sec	"	6	Up	iP	03 49 33.9 C
		P	Z'	0.1 0.9					micr sec
		Ki	iP	01 54 58.0			P	Z'	0.1 0.9
			ipP	01 55 12.4			Mx	E	1.3 14
		Sk	eP	01 55 23			Mx	N	2.1 8
		Um	iP	01 55 04.9			Mx	Z	2.6 8
			ipP	01 55 18.9			Ki	iP	03 50 57.7
		Ud	iP	01 55 28.3					micr sec
			ipP	01 55 42.2			P	Z'	0.1 1.3
		De	eP	01 55 36			Mx	E	2.2 14
		Luzon.					(cont.)		
		h = 50 km (Up,Ki,Um,Ud).							

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

1971				1971			
May	6	(cont.)		May	6	(cont.)	
		Ki	micr sec			Nordland, Norway,	
		Mx	N 1.2 11			66.2°N, 14.5°E.	
		Mx	Z 1.4 10			Origin time = 16 19 07.	
		Sk	iP 03 50 11.6 C			Explosion.	
		Um	iP 03 50 15.4				
			iS 03 54 21		"	6	Up iP 17 37 17.5
		Ud	iP 03 49 32.9 C				Ki iP 17 36 23.4
		De	iP 03 48 52.7				Sk eP 17 37 00
		Italy (h = N).					Ud iP 17 37 21.3
		m = 5.2, M = 4.9 (Up, Ki).					De iP 17 37 43.5
"	6	Up	iP 04 29 28.8				Kamchatka (h = N).
			ipP 04 29 32.6		"	6	Ud eP 20 34 31
			iS 04 33 33				
			micr sec		"	6	Ud iP 23 25 06.5
		P	Z' 0.2 1.2				De iP 23 25 03.2
		Mx	E 0.4 9				Hindu Kush.
		Mx	N 0.9 13				
		Mx	Z 0.9 13		"	7	Up iP 00 28 00.0 C
		Ki	iP 04 30 39.2				eSKP 00 30 51
			micr sec				Ki iSKP 00 30 28.7
		P	Z' 0.1 1.4				Sk ePKP 00 27 54
		Mx	E 1.8 7				Um ePKP 00 27 51
		Mx	N 0.3 10				i 00 27 58.4
		Mx	Z 0.6 7				iSKP 00 30 49.4
		Sk	iP 04 30 17.8				Ud iP 00 28 02.0
		Um	iP 04 30 01.2				iSKP 00 30 52.2
			i 04 30 16.2				De iP 00 28 12.7
			iS 04 34 26				i(pPKP) 00 30 24.2
		Ud	iP 04 29 42.0				iSKP 00 31 00.7
			ipP 04 29 46.1				Tonga-Kermadec Islands
		De	iP 04 29 07.9				(h = 570 km).
			ipP 04 29 12.8		"	7	Up eP 00 34 47
		Turkey.					i(sP) 00 35 00.9
		h = 20 km (Up, Ud, De).					iPP 00 38 52.0
		m = 5.5, M = 4.9 (Up, Ki).					micr sec
"	6	Ud	iP 12 28 38.3				PP Z' 0.4 1.8
		Caucasus.					Mx E 4.7 22
"	6	Up	iSgl 12 45 19.7				Mx N 9.2 24
		Sk	iSgl 12 45 23.0				Mx Z 8.3 24
		Ud	i(S*) 12 44 15.5		Ki	iP 00 34 41.2	
			iSgl 12 44 23.5			micr sec	
		Off coast of south Norway,				P	Z' 0.5 2.1
		57.7°N, 5.6°E.				Mx	E 15 26
		Origin time = 12 41 51.				Mx	N 8.5 24
						Mx	Z 15 24
"	6	Ki	i 16 20 14.9		Sk	e(PP) 00 38 51	
			iSgl 16 20 37.9		Um	iP 00 34 41.4	
		Sk	iSgl 16 20 33.9			ipP 00 34 52.3	
		Um	iSgl 16 20 54.6			iPP 00 38 42.4	
		Ud	eSgl 16 22 22		Ud	iP 00 34 55.8	
		(cont.)				ipP 00 35 04.6	
						iPP 00 39 13.8	
						(cont.)	

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

1971

May 7 (cont.)  
 De iP 00 34 59.7  
     ipP 00 35 09.6  
     iPP 00 39 12.9  
 Celebes.  
 h = 40 km (Um,Ud,De).  
 m = 6.7, M = 6.4 (Up,Ki).

" 7 Up iP 00 42 59.5  
 Ki iP 00 43 00.0 C  
 Sk iP 00 43 13.0  
 Um iP 00 42 57.3  
 Ud iP 00 43 09.8  
 De iP 00 43 08.3  
 Sumatra (h = N).

" 7 Up iP 00 57 25.5  
     iPP 01 01 28.8  
 Um eP 00 57 23  
     iPP 01 01 20.4  
 Ud eP 00 57 34  
     iPP 01 01 48.1  
 De iPP 01 01 47.5  
 Celebes (h = 25 km).

" 7 Um iPKP 01 58 29.9  
 Ud iPKP 01 58 25.0  
 South Pacific Ocean (h = N).

" 7 Um iP 04 30 37.2

" 7 Ki iP 06 19 35.1  
 Um iP 06 20 19.3  
     i 06 20 27.6

" 7 Um ePKP 08 24 20  
 South Shetland Islands  
 (h = N).

" 7 Ud i(P) 08 24 37.5

" 7 Ud iP 08 57 32.1  
 Rhodes Island.

" 7 Ud i(P) 09 03 06.7

" 7 De i(P) 11 10 49.0

" 7 Up eP 11 51 25  
 Um iP 11 50 58.8  
 Japan (h = 20 km).

" 7 Um iP 11 57 59.7

" 7 Ki iPn 12 40 06.1  
 (cont.)

1971

May 7 (cont.)  
 Ki iSn 12 40 46.1  
     iSgl 12 40 58.4  
 Sk eSgl 12 43 52  
 Um iSgl 12 42 38.7  
 Ud eSgl 12 45 00  
 Finland-Norway border region,  
 69.7°N, 28.1°E.  
 Origin time = 12 39 14.

" 7 Ud i(Sgl) 15 33 29.9  
 De i(Sgl) 15 31 47.1

" 7 Up iPKP 19 23 58.8  
 Ki iPKP 19 23 44.3  
 Sk iPKP 19 23 56.4  
 Um iPKP 19 23 51.3 C  
 Ud iPKP 19 24 01.1  
     iSKP 19 27 14.6  
 De iPKP 19 24 07.3  
     iSKP 19 27 23.2  
 New Hebrides Islands  
 (h = 140 km).

" 7 Ki iSgl 20 21 20.6  
 Sk iSgl 20 21 26.3  
 Um iSgl 20 21 33.3  
 Ud iSgl 20 23 13.4  
 Sweden-Norway border region,  
 66.1°N, 15.3°E.  
 Origin time = 20 19 56.  
 Explosion.

" 7 Ud i(P) 21 31 48.9

" 7 Up iP 22 05 23.2  
 Ud iP 22 05 25.2

" 7 Um iP 22 44 32.0  
 Mexico (h = 80 km).

" 7 Up iP 23 26 22.5  
 Sk eP 23 26 57  
 Um eP 23 26 34  
 Ud iP 23 26 37.4  
 De iP 23 26 22.6  
 Iran (h = 45 km).

" 8 Up iPKP 01 08 26.5  
     ePP 01 10 16  
     i 01 11 21.9  
     i(PKS) 01 11 46.1  
           micr sec  
     Mx E 0.9 18  
     Mx Z 1.1 17  
 (cont.)

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

1971				1971			
May	8	(cont.)		May	8	(cont.)	
		Ki	iPKP	01 08	36.0		
			iSKP	01 11	40.4		
		Sk	iPKP	01 08	25.9		
			i(PKS)	01 11	46.0		
		Um	i(PKP)	01 08	28.1		
			iPKP	01 08	33.2		
			iPP	01 10	34.3		
			iSKP	01 11	35.4		
			iSKS	01 15	23		
			iPKKP	01 18	27		
		Ud	iPKP	01 08	23.4		
			iPP	01 10	04.9		
			i(PKS)	01 11	42.8		
			iPKKP	01 18	13.1		
		De	iPKP	01 08	21.3		
			ipPKP	01 09	04.8		
			i(PKS)	01 11	41.4		
			iPKKP	01 18	21.0		
		Chile-Argentina. h = 140 km (De).					
"	8	Um	iP	02 37	00.3		
			i	02 37	10.3		
		Ud	iP	02 37	20.0		
			i	02 37	28.5		
		Afghanistan-USSR.					
"	8	Up	iP	03 08	16.3		
			iPP	03 10	06.2		
					micr sec		
			P	Z'	0.1 1.4		
			Mx	E	0.8 14		
			Mx	N	0.8 16		
			Mx	Z	1.0 15		
		Ki	iP	03 08	37.2		
					micr sec		
			P	Z'	0.1 1.1		
			Mx	E	1.0 13		
			Mx	N	0.5 11		
			Mx	Z	0.7 12		
		Sk	iP	03 08	45.6		
		Um	iP	03 08	20.9		
		Ud	iP	03 08	33.0		
			iPP	03 10	21.8		
		De	iP	03 08	23.5		
		West Pakistan (h = N). m = 5.7, M = 5.1 (Up,Ki).					
"	8	Ud	iP	10 57	22.0		
"	8	Up	iP	11 06	53.5		
					micr sec		
			P	Z'	0.1 0.6		
		(cont.)					
		Ki	iP	11 06	18.7		
					micr sec		
			P	Z'	0.1 0.6		
		Sk	iP	11 06	50.1		
		Um	iP	11 06	34.0		
			i(pP)	11 07	10.2		
		Ud	iP	11 07	00.7		
			i	11 07	04.3		
		De	iP	11 07	14.4		
		South of Japan (h = 140 km). m = 5.8 (Up,Ki).					
"	8	Um	iP	11 32	55.3		
"	8	Up	eP	12 07	11		
		Ki	eP	12 07	09		
		Um	iP	12 07	11.6		
		Ud	iP	12 07	32.6		
			i	12 07	37.3		
		De	iP	12 07	37.9		
			i	12 07	41.4		
		Celebes (h = 290 km).					
"	8	Ki	iPn	13 10	00.1		
			iSn	13 10	49.3		
			iS*	13 11	03.9		
		Sk	eSgl	13 13	49		
		Um	iSgl	13 12	33.1		
		Northwest Russia-Norway border region, 69.5°N, 31.2°E. Origin time = 13 08 55. Explosion.					
"	8	Up	iP	13 25	22.2		
		Ki	iP	13 25	19.8		
		Sk	eP	13 25	32		
		Ud	iP	13 25	31.5		
		Java (h = 40 km).					
"	8	Um	iSgl	13 45	57.3		
		Ud	eSgl	13 47	23		
		Near Lake Ladoga. Explosion?					
"	8	Ud	iP	18 22	37.6		
		Mindanao (h = 110 km).					
"	8	Um	iP	19 40	50.8		
"	8	Up	eP	20 20	34		
		Ud	iP	20 20	37.2		
		De	iP	20 20	47.9		

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

1971					1971					
May	8	Ki	eP	22 46 55	May	9	Up	eSn	07 20 08	
			iTSg	22 52 33.8				iSgl	07 21 01.9	
		Sk	eP	22 47 34			Ki	ePn	07 16 47	
			iS	22 49 18				iSn	07 17 44.0	
		Um	iP	22 47 43.6				iSgl	07 18 04.4	
			iTSg	22 54 33.1			Sk	iSgl	07 20 30.0	
		Ud	eP	22 48 23			Um	iSn	07 18 25.2	
		Norwegian Sea, 73.0°N, 6.9°E.						iSgl	07 18 58.2	
		Origin time = 22 45 13.					Ud	eSn	07 20 22	
		Solution confirmed with						iSgl	07 21 35.0	
		Tromsøe readings.					De	eSgl	07 22 56	
		The T-phases are denoted					Northwest Russia,			
		according to M. Båth and					67.8°N, 33.7°E.			
		M. Shahidi in "T-phases					Origin time = 07 15 30.			
		from Atlantic earthquakes"					Explosion.			
		Pure Appl. Geophys.,								
		92: 74-114, 1971.				"	9	Up	i(PKP)	08 44 17.1
								iPKP	08 44 26.4	
								iPP	08 47 26.7	
"	8	Ki	eP	23 01 54					micr sec	
			iTSg	23 07 29.3			PP	Z'	0.1 1.0	
		Sk	eP	23 02 34			Mx	E	2.7 20	
			eS	23 04 18			Mx	N	2.3 21	
		Um	iP	23 02 42.9			Mx	Z	3.8 19	
			iTSg	23 09 26.0			Ki	i(PKP)	08 44 16.3	
		Ud	eP	23 03 22				i	08 44 20.7	
		Norwegian Sea, 73.0°N, 6.9°E.						iPKP	08 44 27.2	
		Origin time = 23 00 13.						iPP	08 47 28.2	
									micr sec	
"	8	Ki	iP	23 36 12.7			PP	Z'	0.1 1.2	
			iS	23 37 29.4			Mx	E	1.6 18	
			iTPg	23 41 11.2			Mx	N	1.4 20	
			iTSg	23 41 49.7			Mx	Z	2.4 19	
		Sk	iP	23 36 51.1			Sk	e(PKP)	08 44 15	
			eS	23 38 37				iPKP	08 44 22.4	
		Um	iP	23 36 59.2			Um	i(PKP)	08 44 18.7	
			iTSg	23 43 42.6				iPKP	08 44 26.5	
		Ud	iP	23 37 38.4				iPP	08 47 29.7	
		Norwegian Sea, 73.0°N, 6.9°E.					Ud	i(PKP)	08 44 14.8	
		Origin time = 23 34 30.						iPKP	08 44 21.8	
		Solution confirmed with						iPP	08 47 06.9	
		Tromsøe readings.					De	i(PKP)	08 44 21.0	
"	9	Up	iP	03 17 37.2 C				iPKP	08 44 23.0	
				micr sec			South Pacific Ocean (h = N).			
		P	Z'	0.1 0.7			m = 6.1, M = 6.1 (Up,Ki).			
		Ki	iP	03 16 53.1 C						
				micr sec		"	9	Up	ePKP	09 12 44
		P	Z'	0.1 1.0				Ki	ePKP	09 12 49
		Sk	iP	03 17 28.3 C				Ud	ePKP	09 12 49
		Um	iP	03 17 13.1 C			South Pacific Ocean (h = N).			
		Ud	iP	03 17 43.8 C						
		De	eP	03 18 01		"	9	Up	iP	10 43 02.0
		Japan (h = 70 km).						Sk	iP	10 43 43.0
		m = 6.1 (Up,Ki).						Um	eP	10 43 42
"	9	Ud	iP	03 34 58.5 C				Ud	iP	10 43 11.1
							Greece.			

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

1971				1971			
May	9	Ud	i(P)	12 06 47.0	May	9	(cont.)
			i	12 06 56.0			De iP 19 34 29.4 C
"	9	Ud	iP	14 14 49.8			ipP 19 34 46.7
			Celebes (h = 40 km).				i 19 36 08.6
"	9	Ki	iPn	15 14 23.0			West Pakistan.
			iSn	15 15 10.1			h = 60 km (Up,Sk,Um,Ud,De).
			iSgl	15 15 24.9			m = 5.9, M = 5.3 (Up,Ki).
"	9	Ki	ePKP	18 20 13	"	9	Up eP 23 07 20
		Sk	ePKP	18 20 11			Um eP 23 08 05
		Um	i(PKP)	18 20 20.5			Ud eP 23 07 20
			iPKP	18 20 28.8			Italy.
		Ud	iPKP	18 20 19.5	"	10	Up iP 00 12 11.2
		De	iPKP	18 20 22.0			micr sec
			South Pacific Ocean (h = N).				Mx E 0.7 18
"	9	Up	ePKP	18 54 28			Mx N 1.0 19
		Ki	e(PKP)	18 54 25			Mx Z 1.0 18
			iPKP	18 54 35.3			Ki iP 00 11 18.2
		Um	iPKP	18 54 35.5			micr sec
		Ud	iPKP	18 54 29.5			Mx E 0.7 17
		De	iPKP	18 54 31.6			Mx N 0.4 16
			Easter Island region (h = N).				Mx Z 0.9 16
"	9	Up	iP	19 06 58.0			Sk iP 00 11 49.3
		Ki	iP	19 07 25.6			Um iP 00 11 35.2
		Um	iP	19 07 08.5			i 00 11 58.1
		Ud	iP	19 07 09.6			Ud iP 00 12 11.1
							De iP 00 12 33.3
							Aleutian Islands (h = 50 km).
							M = 5.1 (Up,Ki).
"	9	Up	iP	19 34 16.7 C	"	10	Up iP 05 40 35.6
			ipP	19 34 32.6			Sk eP 05 41 14
			iPP	19 35 46.9			Ud iP 05 40 41.6
			micr sec				Ionian Islands.
		P	Z'	0.2 0.7	"	10	Up eP 08 13 38
		Mx	E	1.9 20			Um iP 08 13 47.7
		Mx	N	1.1 8			Ud eP 08 13 45
		Mx	Z	1.7 14			Indian Ocean (h = N).
		Ki	iP	19 34 26.6 C	"	10	Um iPKP 09 39 33.3
			i	19 35 42.0			Tonga Islands (h = N).
			i(PcP)	19 36 29.8	"	10	Up iP 12 07 01.2 D
			micr sec				ipP 12 07 12.5
		P	Z'	0.2 1.3			iS 12 18 01
		Mx	E	1.3 10			micr sec
		Mx	N	2.4 9			P Z' 0.2 1.3
		Mx	Z	0.9 10			Mx E 1.6 17
		Sk	iP	19 34 42.2 C			Mx N 2.5 20
			ipP	19 34 59.1			Mx Z 2.7 17
			iPcP	19 36 20.9			Ki iP 12 06 43.4
		Um	iP	19 34 15.6 C			ipP 12 06 54.8
			ipP	19 34 31.6			micr sec
		Ud	iP	19 34 33.4 C			P Z' 0.4 1.3
			ipP	19 34 49.8			(cont.)
			iPcP	19 36 28.5			
			(cont.)				



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

1971

May 10 (cont.)

Ki			micr	sec
	Mx	E	2.0	18
	Mx	N	1.5	16
	Mx	Z	2.2	18
Sk	iP		12 07	05.0
	i		12 07	57.4
Um	iP		12 06	49.1
	ipP		12 07	01.0
	i		12 07	19.3
Ud	iP		12 07	09.3
	ipP		12 07	20.5

Mindanao.

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

m = 6.4, M = 5.8 (Up,Ki).

"	10	Up	iP		14 32	40.9
		Ud	iP		14 32	34.1
"	10	Up	iP		14 58	50.0 C
			ipP		14 58	54.6
			iLg1		15 10	49
				micr	sec	
		P	Z'	0.2	1.0	
		pP	Z'	0.4	1.2	
		Mx	E	5.5	9	
		Mx	N	5.6	8	
		Mx	Z	9.2	9	
		Ki	iP		14 58	51.4
			ipP		14 58	56.6
			iLg1		15 10	54
				micr	sec	
		P	Z'	0.3	0.6	
		Mx	E	13	11	
		Mx	N	8.0	11	
		Mx	Z	14	13	
		Sk	iP		14 59	13.3
			ipP		14 59	18.5
			iPP		15 00	47.8
		Um	iP		14 58	43.7
			ipP		14 58	49.1
			i(PP)		15 00	03.4
			iS		15 04	18
		Ud	iP		14 59	07.4 C
			ipP		14 59	12.2
			iPP		15 00	35.4

Kirghiz SSR.

h = 20 km (Up,Ki,Sk,Um,Ud).

m = 6.1, M = 6.0 (Up,Ki).

"	10	Up	ePgl		16 06	27
			iSgl		16 07	28.6
		Sk	eSgl		16 09	21
		Ud	ePgl		16 06	26
			iSgl		16 07	31.9
			(cont.)			

1971

May 10 (cont.)

De	iPgl		16 05	27.3
	iSgl		16 05	44.7
Off coast of south Sweden,				
55.4°N, 15.0°E.				
Origin time = 16 05 05.				
Explosion.				

"	10	Up	iSgl		16 07	39.3
		De	iPgl		16 05	39.6
			iSgl		16 05	56.8
			iRg		16 06	02.8
Probably the same focal area						
as in the preceding case.						
Origin time = 16 05 18.						
Explosion.						

"	10	Ud	eP		16 44	06
		De	iP		16 44	08.9
			i		16 44	24.0

"	10	Ud	e(Sgl)		16 48	21
		De	i(Sgl)		16 47	27.0

"	10	Ud	iP		18 05	30.0
---	----	----	----	--	-------	------

"	10	Um	iP		19 48	46.7
---	----	----	----	--	-------	------

"	10	Ki	ePgl		20 02	07
			iSn		20 02	40.2
			iSgl		20 02	51.9
		Sk	iSgl		20 02	18.0
		Um	iSgl		20 02	27.5

Lapland, Sweden,

65.2°N, 15.5°E.

Origin time = 20 01 10.

"	10	Sk	e(Sgl)		20 04	04
		Um	e(Sgl)		20 04	51

"	10	Ki	e		20 06	34
			i(Sgl)		20 07	05.8
		Um	i(Sgl)		20 09	20.0

"	10	Ki	iP		21 14	29.1
		Um	iP		21 14	42.6

"	10	Up	iP		23 09	02.9
		Ki	iP		23 08	10.4
		Um	iP		23 08	37.7
		Ud	iP		23 09	02.2
		De	eP		23 09	26
Aleutian Islands (h = 50 km).						

"	11	Up	iP		00 21	26.8
			(cont.)			

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

1971				1971				
May	11	(cont.)		May	12	(cont.)		
		Up	ipP	00 21 43.0		Up	micr sec	
				micr sec		Mx	Z 42 11	
			pP	Z' 0.1 0.8		Ki	iP 06 31 27.5	
			Mx	Z 0.6 19			ipP 06 31 36.9	
		Ki	iP	00 21 04.2			micr sec	
			ipP	00 21 18.8		P	Z' 0.1 1.0	
				micr sec		pP	Z' 1.7 2.0	
			pP	Z' 0.1 1.0		Mx	E 56 8	
		Sk	iP	00 21 33.6		Mx	N 14 10	
		Um	iP	00 21 12.0		Mx	Z 22 8	
			ipP	00 21 28.2		Sk	iP 06 31 07.4	
		Ud	iP	00 21 36.3		Um	iP 06 30 52.5	
		De	iP	00 21 45.3			i 06 30 58.0	
		Formosa.					ipP 06 31 02.4	
		h = 60 km (Up,Ki,Um).					iS 06 35 32	
		m = 6.0 (Up,Ki).				Ud	iP 06 30 33.4	
							ipP 06 30 41.8	
"	11	Ki	iP	02 45 40.4		De	iP 06 30 02.0	
		Um	iP	02 45 48.5			ipP 06 30 10.1	
		Ud	eP	02 46 13		Turkey.		
		Formosa (h = 60 km).				h = 35 km (Ki,Um,Ud,De).		
						m = 6.5, M = 6.4 (Up,Ki).		
"	11	Up	iPKP	10 08 02.4	"	12	Up	iP 06 49 23.6
		Sk	iPKP	10 07 57.3			Ki	iP 06 50 30.2
		Um	iPKP	10 07 51.5			Um	iP 06 49 52.0
		Ud	iPKP	10 08 03.6			Ud	iP 06 49 32.9
"	11	Ki	iP	15 57 59.3			De	iP 06 49 05.2
		Sk	iP	15 58 33.0			Turkey (h = 15 km).	
		Um	iP	15 58 15.0	"	12	Ud	iP 08 31 56.9
		Ud	iP	15 58 44.3			Turkey (h = N).	
		Sea of Japan (h = 370 km).			"	12	Up	iP 10 15 34.6
"	11	De	e(Pgl)	16 29 25			Ki	eP 10 16 39
			i(Sgl)	16 30 11.6			Um	iP 10 16 04.6
"	11	Um	eSgl	18 45 00			Ud	iP 10 15 45.3
		Near Lake Ladoga.					Turkey (h = N).	
		Explosion?			"	12	Up	iP 10 15 45.8
"	11	Ud	iP	22 40 22.4				iS 10 20 03
			i	22 40 32.1				micr sec
"	12	Ud	iP	04 22 29.0			P	Z' 0.2 1.1
		De	iP	04 22 27.7			Mx	E 3.1 10
		Kirghiz SSR.					Mx	N 4.4 10
"	12	Up	iP	06 30 22.9			Mx	Z 7.9 10
			i	06 30 28.1		Ki	iP 10 16 50.8	
			iS	06 34 40			micr sec	
				micr sec		P	Z' 0.3 1.3	
			P	Z' 2.2 1.6		Mx	E 4.0 10	
			Mx	E 16 7		Mx	N 1.6 13	
			Mx	N 30 10		Mx	Z 3.5 10	
		(cont.)				Sk	iP 10 16 27.8	
						Um	iP 10 16 16.1	
						(cont.)		

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

1971

May 12 (cont.)  
 Um iS 10 20 56  
 Ud iP 10 15 57.1  
 Turkey (h = N).  
 m = 5.9, M = 5.4 (Up,Ki).

" 12 Ki iPn 10 54 01.9  
 iSn 10 55 00.9  
 iS\* 10 55 19.8  
 Sk eSgl 10 58 01  
 Um eSgl 10 56 10  
 Northwest Russia,  
 67.8°N, 34.1°E.  
 Origin time = 10 52 43.  
 Explosion.

" 12 Up e(P) 10 58 11  
 Ud i(P) 10 58 49.7

" 12 Up iP 11 27 29.6  
 Um iP 11 27 12.5  
 i 11 27 23.1  
 Ud iP 11 27 31.5

" 12 Up iP 13 02 33.1  
 i 13 02 35.7  
 ipP 13 02 40.3  
 iS 13 06 46  
 micr sec  
 P Z' 0.1 0.9  
 pP Z' 0.2 1.0  
 Mx E 9.2 14  
 Mx N 15 15  
 Mx Z 23 10  
 Ki iP 13 03 38.0  
 i 13 03 39.9  
 ipP 13 03 44.8  
 micr sec  
 P Z' 0.2 1.0  
 pP Z' 0.4 1.1  
 Mx E 12 10  
 Mx N 11 13  
 Mx Z 13 14  
 Sk iP 13 03 16.9  
 i 13 03 19.1  
 ipP 13 03 23.1  
 Um iP 13 03 02.8  
 ipP 13 03 09.8  
 iS 13 07 36  
 Ud iP 13 02 43.8  
 i 13 02 46.1  
 ipP 13 02 50.8  
 Turkey.  
 h = 30 km (Up,Ki,Sk,Um,Ud).  
 m = 5.9, M = 5.7 (Up,Ki).

1971

May 12 Up iP 13 14 52.8  
 Ki eP 13 15 55  
 Ud iP 13 15 04.6  
 Turkey.  
 Origin time = 13 09 43.

" 12 Up iSgl 14 22 18.7  
 Um eSgl 14 23 24  
 Ud iSgl 14 23 01.5  
 Baltic Sea, 60.8°N, 18.3°E.  
 Origin time = 14 21 45.  
 Explosion.

" 12 Ud iP 14 29 00.7  
 Turkey (h = N).

" 12 Ud iP 14 30 16.5

" 12 Up iPgl 14 38 21.0  
 iSgl 14 38 36.6  
 iRg 14 38 43.1  
 Ud iSgl 14 39 24.1  
 Explosion.

" 12 Up iP 15 17 02.0  
 Ki eP 15 18 08  
 Um iP 15 17 31.8  
 Ud iP 15 17 12.7  
 De iP 15 16 41.6  
 Turkey (h = N).

" 12 Up eP 15 18 59  
 Ud iP 15 19 08.6  
 De iP 15 18 40.3  
 Turkey.  
 Origin time = 15 13 50.

" 12 Up i(P) 15 21 04.9  
 De i(P) 15 21 54.8

" 12 De i(Pgl) 15 35 37.6  
 i(Sgl) 15 35 51.3

" 12 Up iP 16 32 54.8  
 Ud iP 16 33 04.6  
 De iP 16 32 34.5  
 Turkey.  
 Origin time = 16 27 45.

" 12 Up iP 17 17 36.0  
 iS 17 21 51  
 micr sec  
 Mx E 0.9 7  
 Mx N 1.8 8  
 Mx Z 2.1 8  
 (cont.)

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

1971

May 12 (cont.)  
 Ki iP 17 18 40.0  
 micr sec  
 Mx E 2.2 8  
 Sk eP 17 18 20  
 Um iP 17 18 04.6  
 i(S) 17 22 54  
 Ud iP 17 17 46.7  
 De iP 17 17 14.7  
 i 17 17 18.5  
 Turkey (h = 30 km).  
 M = 5.1 (Up,Ki).

" 12 Up iP 17 53 11.6  
 ipP 17 53 18.3  
 Ki iP 17 54 16.8  
 ipP 17 54 22.5  
 Sk eP 17 53 56  
 Um iP 17 53 42.2  
 Ud iP 17 53 22.5  
 ipP 17 53 27.5  
 De iP 17 52 53.3  
 Turkey.  
 h = 20 km (Up,Ki,Ud).

" 12 Ud iP 17 58 50.8  
 Turkey.

" 12 Up iP 19 07 34.8  
 micr sec  
 Mx Z 1.0 11  
 Ki iP 19 08 39.9  
 Sk eP 19 08 15  
 Ud iP 19 07 45.0  
 ipP 19 07 50.9  
 De iP 19 07 15.7  
 ipP 19 07 20.6  
 Turkey.  
 h = 20 km (Ud,De).

" 12 Up iP 19 20 35.7  
 ipP 19 20 49.6  
 Ki iP 19 19 53.7  
 ipP 19 20 07.2  
 Um iP 19 20 12.5  
 Ud iP 19 20 43.4 C  
 i 19 21 00.2  
 De iP 19 20 58.7  
 Japan.  
 h = 50 km (Up,Ki).

" 12 De i(P) 19 22 46.3

" 12 Up iP 20 18 16.9  
 iX 20 18 19.7  
 iS 20 22 31  
 (cont.)

1971

May 12 (cont.)  
 Up micr sec  
 Mx E 0.7 7  
 Mx N 1.1 9  
 Mx Z 1.7 9  
 Ki iP 20 19 21.1  
 iX 20 19 25.7  
 micr sec  
 Mx E 1.2 9  
 Mx N 0.8 10  
 Sk iP 20 19 02.1  
 iX 20 19 04.6  
 Um eP 20 18 49  
 Ud iP 20 18 27.5  
 iX 20 18 30.3  
 De eP 20 17 58  
 iX 20 18 03.0

Turkey (h = 35 km).  
 M = 4.8 (Up,Ki).  
 The phase X arrives in average  
 3.5 sec after P. Interpreted as  
 pP, it gives a focal depth of  
 15 km.

" 12 Up iP 20 21 00.1  
 Ki iP 20 22 04.5  
 Ud iP 20 21 11.1  
 De iP 20 20 43.7  
 Turkey.  
 Origin time = 20 15 51.

" 12 Up i(P) 20 37 58.8

" 12 Up iP 21 51 49.0 C  
 micr sec  
 P Z' 0.2 1.0  
 Ki iP 21 51 00.2  
 Sk iP 21 51 36.3  
 Um iP 21 51 22.7 C  
 Ud iP 21 51 54.2 C  
 iPcP 21 52 22.3  
 De iP 21 52 13.4  
 Kurile Islands (h = N).

" 12 Up iP 23 40 24.0  
 Ud e(P) 23 40 34  
 Japan.

" 13 Ud eP 02 44 29  
 Turkey.

" 13 Up iP 03 56 41.2  
 Ud iP 03 56 51.9  
 Turkey.  
 Origin time = 03 51 32.



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

1971					1971						
May	13	(cont.)			May	14	(cont.)				
		De	iP	22 51 58.8			De	iP2	13 29 03.9		
			ipP	22 52 03.4			Aleutian Islands (h = 20 km).				
		Turkey,					Double P, about 12 sec apart.				
		h = 15 km (Ud,De).				"	14	Ud	iPKP	14 11 27.3	
	"	13	Up	iP	23 38 05.2		"	14	De	iPKP	14 11 38.7
			Sk	eP	23 38 48						
			Um	iP	23 38 31.0		"	14	Up	iP	16 53 27.0
			Ud	eP	23 38 16				Ki	iP	16 53 15.0
			De	iP	23 37 45.6				Sk	iP	16 53 08.7
		Turkey (h = N).							Um	iP	16 53 24.0
	"	14	Ud	iP	00 02 05.6				Ud	iP	16 53 17.7
		Turkey.							De	iP	16 53 25.3
									Mexico (h = 100 km).		
	"	14	Ki	iP	02 05 04.6		"	14	Up	iP	17 23 23.9
			Ud	iP	02 05 57.3				Ud	iP	17 23 39.1
		Aleutian Islands (h = 60 km).							De	iP	17 23 30.3
	"	14	Up	eP	04 23 44				West Pakistan (h = 60 km).		
			Ki	eP	04 24 47		"	14	Ud	iP	21 23 06.2
			Ud	iP	04 23 52.2						
			De	eP	04 23 20		"	14	Up	iP	22 23 32.5
		Turkey (h = N).							i	22 23 43.9	
	"	14	Up	iP	05 00 39.1				Ki	iP	22 24 37.3
			i	05 01 07.0					Sk	eP	22 24 21
			Sk	eP	04 59 55				Um	iP	22 24 01.9
	"	14	Up	iP	10 09 57.1				i	22 24 06.8	
									Ud	iP	22 23 43.2
									De	iP	22 23 14.1
									Turkey (h = N).		
			P	Z'	0.2 0.8		"	14	Up	iP	22 56 22.5
			Ki	iP	10 09 23.8				iS	23 00 35	
			P	Z'	0.1 0.6						
			Sk	iP	10 09 52.8				Mx	E	0.6 15
			Um	iP	10 09 38.2				Mx	N	1.0 18
			Ud	iP	10 10 03.5				Mx	Z	1.2 13
			i	10 10 10.7					Ki	iP	22 57 29.0
			De	iP	10 10 16.3						
		Bonin Islands (h = 5 km).									
		m = 6.1 (Up,Ki).									
	"	14	Up	iP1	13 28 29.0						
									Um	iP	22 56 52.9
									Ud	iP	22 56 31.7
			Ki	iP1	13 27 36.2				De	iP	22 56 01.6
									Turkey (h = N).		
									M = 4.5 (Up,Ki).		
			Sk	iP2	13 28 20.8						
			Um	iP1	13 28 07.0						
			i	13 28 13.4			"	15	Ki	eP	04 59 48
			Ud	eP1	13 28 28				Ud	iP	04 59 25.7
									Caspian Sea (h = N).		
			De	eP1	13 28 54						
		(cont.)									

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

1971				1971								
May	15	Up	iP	05 29	44.1	May	16 (cont.)					
		Ki	iP	05 30	20.6		Ki					
		Ud	eP	05 29	25		ipPKP					
							iSKP					
"	15	Ud	iP	07 41	58.0		Um					
		Turkey.					ipPKP					
"	15	Ud	iP	07 54	45.8		Ud					
		Japan (h = 25 km).					ipPKP					
"	15	Um	iP	09 42	33.0		South Sandwich Islands. h = 75 km (Up,Ki,Um,Ud).					
"	15	Ki	iPn	11 32	39.5	"	16	Up	eP	05 33	01	
			iSn	11 33	27.5			Sk	iP	05 33	42.5	
			iS*	11 33	40.9			Ud	iP	05 33	11.7	
		Um	iSgl	11 35	07.7			De	iP	05 32	43.1	
		Northwest Russia, 69.2°N, 31.0°E. Origin time = 11 31 36. Explosion.						Turkey (h = N).				
"	15	Ud	iP	12 25	19.0	"	16	Ki	iSn	06 16	30.8	
		Turkey (h = N).							iSgl	06 16	51.0	
"	15	Up	iP	14 39	25.9			Um	iSgl	06 17	41.4	
		Ud	iP	14 39	34.2			Northwest Russia. Explosion.				
		Turkey.				"	16	Up	iP	08 44	44.2	
"	15	De	i(P)	14 54	46.6			Ki	iP	08 45	48.9	
										micr	sec	
"	15	Up	iP	21 14	47.8			Mx	E	0.7	7	
			ipP	21 15	01.4			Mx	N	0.5	16	
		Ki	iP	21 14	02.7			Sk	eP	08 45	31	
			ipP	21 14	15.8			Um	iP	08 45	13.5	
		Um	iP	21 14	22.8			Ud	iP	08 44	54.6	
			ipP	21 14	36.7			De	iP	08 44	25.8	
		Ud	iP	21 14	54.0	C		Turkey (h = N).				
			ipP	21 15	08.4		"	16	Up	iP1	09 30	10.6
		De	eP	21 15	13				iP2	09 30	14.1	
		Kurile Islands. h = 50 km (Up,Ki,Um,Ud).							iS2	09 34	33	
"	15	Up	iP	22 22	25.9					micr	sec	
		Sk	iP	22 22	26.0			P2	Z'	0.1	1.0	
		Um	iP	22 22	06.9			Mx	E	1.0	14	
		Ud	iP	22 22	35.7			Mx	N	1.5	11	
"	15	Ud	iP	22 31	09.1			Mx	Z	1.6	11	
		Turkey.						Ki	iP1	09 31	15.6	
"	16	Ud	iP	00 26	34.6				iP2	09 31	19.1	
		Turkey.								micr	sec	
"	16	Up	ipPKP	05 28	59.3			P2	Z'	0.1	1.0	
			ipPKP	05 29	19.3			Mx	E	1.2	13	
		(cont.)						Mx	N	0.9	15	
								Mx	Z	0.8	14	
								Sk	iP1	09 30	56.7	
								Um	iP1	09 30	41.8	
									iP2	09 30	44.3	
								Ud	iP1	09 30	22.6	
									iP2	09 30	26.3	
								De	iP2	09 29	55.0	
								(cont.)				

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

1971				1971			
May	16	(cont.)		May	17	Up	
		De i(PP)	09 30 31.8			ipP	11 17 05.5
		Turkey (h = N).				i	11 17 49.7
		m = 5.5, M = 4.7 (Up,Ki).				iSKS	11 21 38.6
		Double P, about 3 sec apart.					11 27 23
							micr sec
"	16	Um i	11 00 12.4			P	Z' 0.1 1.0
		i(Sgl)	11 00 22.0			Mx	E 1.8 19
						Mx	N 1.9 21
						Mx	Z 3.8 19
"	16	Ud iP	11 25 46.8		Ki	iP	11 17 08.5
		Turkey.				ipP	11 17 51.7
						iSKS	11 27 29
"	16	Up iP	12 10 26.4			iPKKP	11 34 05.1
		Turkey.					micr sec
						P	Z' 0.4 2.0
"	16	Ud iP	14 37 41.2			Mx	E 3.3 22
		Kirghiz SSR.				Mx	N 2.6 20
						Mx	Z 2.7 22
"	16	De e(P)	14 47 13		Sk	iP	11 16 54.1
						iPKKP	11 34 14.8
"	16	Ud iP	17 29 19.5		Um	iP	11 17 10.0
		De iP	17 29 19.0			ipP	11 17 56.7
		Kashmir-Sinkiang (h = 80 km).				iSKS	11 27 26
"	16	Ud iP	19 22 30.4		Ud	iP	11 16 57.0
		Turkey.				i	11 17 02.2
						ipP	11 17 43.2
"	16	Up iP	20 22 44.4		De	iP	11 16 58.4
		Um iP	20 22 59.1			ipP	11 17 43.3
		Ud iP	20 22 59.7 C			i	11 21 23.0
		De iP	20 22 42.5			ePKKP	11 34 15
		Caucasus.					Ecuador.
							h = 180 km (Up,Ki,Um,Ud,De).
							m = 6.4, M = 5.9 (Up,Ki).
"	16	Um eP	22 30 04	"	17	De iPKP	12 08 18.0
		Ud eP	22 30 14			Solomon Islands (h = 150 km).	
		Mindanao (h = 15 km).					
"	16	Ud iP	23 33 28.0	"	17	Up iSgl	12 51 03.7
		Turkey.				Um eSgl	12 53 03
						Ud iSgl	12 51 50.0
"	17	Up iP	01 06 45.7			De eSgl	12 51 30
		Ki iP	01 05 50.6			Baltic Sea near Gotland,	
		Um eP	01 06 21			Sweden, 57.7°N, 19.3°E.	
		Ud iP	01 06 43.2			Origin time = 12 49 50.	
		Aleutian Islands (h = 50 km).				Explosion.	
"	17	Up iP	08 53 31.1 C	"	17	Um iP	13 27 21.8
		Ki iP	08 53 24.6				
		Sk eP	08 53 46	"	17	Up iP	13 33 02.9
		Um iP	08 53 22.9			Ki iP	13 32 30.1
		Ud iP	08 53 44.5 C			Sk iP	13 32 59.7
		i(pP)	08 54 12.7			Um iP	13 32 44.3
		De iP	08 53 45.9			Ud iP	13 33 10.5
		Burma-India (h = 170 km).				South of Japan (h = 420 km).	



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

1971				1971			
May	17	Up	iP	14 21 27.0	May	18	(cont.)
				micr sec			Ud iPP 01 08 29.7
			P	Z' 0.1 0.9			De iPKP 01 05 07.2
			Mx	N 0.8 11			iX 01 05 16.1
			Mx	Z 1.2 11			ipPKP 01 07 23.2
		Ki	iP	14 22 31.6			Kermadec Islands.
				micr sec			h = 600 km (Up,De).
			Mx	E 0.5 10		"	18
			Mx	N 0.5 10			Up iP 02 09 07.1
		Sk	iP	14 22 11.0			Ki micr sec
		Um	iP	14 21 56.4			Mx E 0.4 8
			iS	14 26 42			Um iP 02 09 39.1
		Ud	iP	14 21 37.3			Ud iP 02 09 17.3
		De	iP	14 21 08.3			De eP 02 08 50
				Turkey (h = N).			Turkey (h = N).
				M = 4.6 (Up,Ki).			
"	17	Up	i(PKP)	16 46 49.6	"	18	Up eP 03 18 26
		Ud	i(PKP)	16 46 51.4			Um eP 03 18 55
		De	i(PKP)	16 47 02.7			Turkey.
							Origin time = 03 13 15.
"	17	Ud	iP	18 22 35.5	"	18	Ki ePKP 06 31 08
		De	iP	18 22 04.5			Um iPKP 06 31 06.4
			i	18 22 14.2			Ud iPKP 06 30 57.2
				Crete.			i 06 31 35.3
							Argentina (h = 100 km).
"	17	Ki	iP	21 06 34.9	"	18	Ki iPKP 07 17 23.5
		Um	iP	21 06 42.0			Um iPKP 07 17 31.1
		Ud	iP	21 07 01.1			Ud i(PKP) 07 17 30.2
				Philippine Islands			iPKP 07 17 32.9
				(h = 150 km).			De iPKP 07 17 42.7
"	18	Up	iP	00 17 08.8			Tonga Islands (h = 180 km).
			i	00 17 20.9		"	18
		Um	eP	00 17 14			Up iP 08 24 39.8
			i	00 17 23.4			Um iP 08 24 52.2
		Ud	eP	00 17 20			Ud iP 08 24 52.9
			i	00 17 27.1			i 08 24 57.8
		De	iP	00 17 04.4			De iP 08 24 35.6
			i	00 17 14.3			Caucasus.
				Caucasus.		"	18
		Up	iP	00 57 27.2			De i(P) 10 26 20.4
"	18	Up	iPKP	01 04 56.7	"	18	Up iSgl 10 28 29.3
			i	01 05 01.1			Ud iPn 10 27 19.0
			ipPKP	01 07 06.2			iSgl 10 28 35.4
		Ki	iPKP	01 04 34.4			De iPgl 10 26 30.0
			iSKP	01 07 23.8			iSgl 10 26 46.7
		Um	iPKP	01 04 44.9			Baltic Sea, south of Sweden,
			iX	01 04 55.3			55.5°N, 15.0°E.
			i(SKP)	01 07 32.4			Origin time = 10 26 09.
		Ud	iPKP	01 04 55.3			Explosion.
			i	01 04 58.6	"	18	Ud iP 14 23 46.9
			iX	01 05 04.1			Turkey.
				(cont.)			

1971				1971				
May	18	De	e(Sgl) i(Rg)	17 50 57 17 51 05.8	May	19	(cont.)	
"	18	Ud	iP Turkey.	18 31 43.8			Ki ipP 03 26 17.5 Um iP 03 26 17.6 ipP 03 26 24.1 Ud iP 03 26 41.3 ipP 03 26 47.0	
"	18	Up	iP i iS	22 53 38.1 22 53 42.2 23 00 51			Luzon. h = 25 km (Ki,Um,Ud).	
			P Mx Mx Mx	Z' 1.1 1.0 E 200 20 N 130 19 Z 95 19	"	19	De i(Sgl) i(Rg)	11 19 02.6 11 19 05.6
		Ki	iP i iS	22 52 39.8 22 52 42.9 22 59 05	"	19	Up iP Ki iP ipP	11 20 05.4 11 19 48.5 11 19 58.7
			P Mx Mx Mx	Z' 1.6 1.0 E 95 19 N 53 16 Z 63 17				micr sec 0.1 1.0
		Sk	iP i iPP	22 53 22.1 22 53 24.6 22 55 18.0			Sk iP Um iP Ud iP ipP	11 20 10.1 11 19 54.2 11 20 13.8 11 20 23.9
		Um	iP i iPP	22 53 07.2 22 53 10.6 22 54 57.1			Halmahera. h = 40 km (Ki,Ud).	
		Ud	iS iP i iPP	22 59 58 22 53 43.4 22 53 46.9 22 55 40.2	"	19	De i(Sgl) i(Rg)	12 08 04.7 12 08 11.9
		De	iP i iPP	22 54 08.2 22 54 11.0 22 56 14.1	"	19	Up iP Ud iP De iP	16 01 43.0 16 01 45.5 C 16 01 56.0
		Eastern Siberia (h = N). m = 6.7, M = 7.0 (Up,Ki). Unusually high magnitude for this area. Double P at all stations, in average 3.3 sec apart.			"	19	Up iP Ki iP Sk iP Um iP Ud iP De iP	22 27 50.9 22 27 37.4 22 27 48.2 22 27 43.0 22 27 53.4 22 28 00.6
"	18	Up	iP	23 18 10.2			New Hebrides Islands (h = 200 km).	
		Ki	iP	23 17 11.0 C	"	20	Up eP Um iP Ud iP	01 19 47 01 20 20.4 01 20 01.0
		Ud	iP	23 18 15.0 C			Turkey (h = N).	
		De	iP	23 18 39.2	"	20	Up i(P)	01 25 36.2
		Eastern Siberia. Origin time = 23 09 15.			"	20	Ki iP Um iP ipP Ud iP ipP De iP	01 36 10.7 01 37 02.2 01 37 09.5 01 37 51.1 01 37 58.6 01 38 30.4
"	18	Ud	i(P)	23 58 19.4			South of Svalbard. h = 35 km (Um,Ud). Solution checked with Kajaani and Kevo readings.	
"	19	Ud	iP Turkey.	02 22 23.9				
"	19	Up	iP Ki iP (cont.)	03 26 28.3 03 26 10.0				



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

1971				1971					
May	21	Up	iP	19 35 40.1	May	22	Up	iP	16 49 29.7
		Ki	iP	19 34 45.6				i	16 49 32.8
		Um	iP	19 35 12.2				iS	16 53 58
		Ud	iP	19 35 38.8					micr sec
		Aleutian Islands (h = 40 km).					P	Z'	2.0 1.1
"	21	Ki	iP	19 36 14.0			Mx	E	130 13
			i	19 36 22.0			Mx	N	160 15
		Sk	eP	19 36 07			Mx	Z	220 19
		Um	iP	19 36 06.0			Ki	iP	16 50 19.8
"	21	Up	iPKP	21 13 11.9				i	16 50 21.0
		Sk	iPKP	21 13 05.3				iS	16 55 28
		Um	ePKP	21 13 06					micr sec
		Ud	iPKP	21 13 14.0			P	Z'	0.8 1.0
		De	iPKP	21 13 22.4			Mx	E	210 14
		Kermadec Islands (h = 220 km).					Mx	N	110 14
"	22	Ud	i(Sgl)	01 55 39.6			Mx	Z	250 19
		De	i(Sgl)	01 55 25.8			Sk	iP	16 50 09.2
"	22	Up	iPKP	04 51 01.5				i	16 50 12.3
		Ki	iPKP	04 50 46.3			Um	iP	16 49 50.4
		Sk	iPKP	04 50 56.5				i	16 49 52.9
		Um	iPKP	04 50 51.2				iS	16 54 35
		Ud	iPKP	04 51 03.2			Ud	iP	16 49 44.3
		South of Kermadec Islands (h = 70 km).						i	16 49 47.5
"	22	Ud	iP	10 18 01.5			De	iP	16 49 23.8
			i	10 18 18.9				i	16 49 27.6
		Aleutian Islands (h = 50 km).						i(S)	16 54 10.0
"	22	Ki	iPn	10 24 56.6			Turkey (h = 5 km).		
			iP*	10 25 04.5			m = 6.7, M = 7.0 (Up,Ki).		
			iSn	10 25 43.2			Double P-phases, in average		
			iS*	10 25 55.8			3 sec apart, are recorded at		
		Um	iSgl	10 27 31.1			all stations.		
		Northwest Russia, 69.7°N, 30.3°E.			"	22	Up	iP	17 02 46.7
		Origin time = 10 23 55.					Up	iP	17 05 29.8
		Explosion.					Ki	eP	17 21 46
"	22	Sk	iP	13 10 43.2			Ki	eP	17 38 47
		Kurile Islands.					Ud	i	17 38 28.7
"	22	Ki	iP	14 09 29.3				i	17 38 36.2
		Sk	iP	14 09 35.7			Turkey (h = N).		
		Um	iP	14 09 10.0	"	22	Ki	eP	17 39 48
		Ud	iP	14 09 19.8			Up	iP	17 39 47.4
		Iran (h = 35 km).					Ki	iP	17 40 36.4
"	22	Up	iP	16 16 30.8			Um	iP	17 40 06.6
		Um	iP	16 16 59.6			Ud	eP	17 40 05
								iPn	17 40 27.2
							De	iP	17 39 40.3
							Turkey (h = 15 km).		
"	22	Up	iP	18 41 01.0			Up	iP	18 41 01.0
								iPn	18 41 16.9

(cont.)

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

1971

May 22 (cont.)  
 Ki eP 18 41 45  
 i 18 41 48.2  
 Sk eP 18 41 43  
 iPn 18 42 23.6  
 Um iP 18 41 21.2  
 i(pP) 18 41 31.1  
 Ud iP 18 41 17.1  
 iPn 18 41 38.0  
 De eP 18 40 55  
 Turkey (h = N).

" 22 Up e(P) 18 49 16  
 Ki eP 18 49 53  
 Um iP 18 49 26.2  
 iPP 18 50 19.6  
 Ud iP 18 49 21.1  
 iPn 18 49 37.9  
 Turkey (h = N).

" 22 Up iP 20 13 01.0  
 i 20 13 04.6  
 iS 20 20 44  
 micr sec  
 P Z' 0.3 1.1  
 Mx E 12 19  
 Mx N 51 19  
 Mx Z 17 17  
 Ki iP 20 12 50.6  
 i 20 12 55.0  
 micr sec  
 P Z' 0.3 1.4  
 Mx E 14 13  
 Mx N 21 14  
 Mx Z 14 13  
 Sk iP 20 13 15.9  
 i 20 13 20.5  
 Um iP 20 12 51.0  
 i 20 12 55.1  
 Ud iP 20 13 15.4  
 i 20 13 19.2  
 De iP 20 13 18.0  
 i 20 13 22.6

Tibet (h = N).  
 m = 6.2, M = 6.6 (Up, Ki).  
 The second phase, in average  
 4.2 sec delayed, gives a focal  
 depth of 15 km, if interpreted  
 as pP.

" 23 Ud iP 00 33 03.2  
 Turkey.

" 23 Up iP 01 08 04.3  
 Ki micr sec  
 Mx E 0.4 7  
 Mx N 0.2 9  
 Mx Z 0.3 9  
 Um iP 01 08 35.1  
 Ud iP 01 08 15.7  
 Turkey (h = N).

1971

May 23 Up i(P) 02 09 26.2  
 " 23 Ud iP 03 42 56.8  
 De iP 03 43 07.8  
 Tonga-Kermadec Islands  
 (h = 580 km).

" 23 Up iP 05 24 20.6  
 Ki eP 05 25 34  
 micr sec  
 Mx E 0.7 7  
 Mx N 0.3 14  
 Mx Z 0.3 7  
 Ud iP 05 24 36.1  
 Turkey (h = 10 km).

" 23 Ki iPn 07 09 23.2  
 iSn 07 10 22.7  
 iS\* 07 10 43.5  
 Sk iSgl 07 13 05.9  
 Um iSgl 07 11 35.8  
 Northwest Russia,  
 67.6°N, 34.1°E.  
 Origin time = 07 08 04.  
 Explosion.

" 23 Ki iPn 21 48 03.3  
 iSn 21 49 00.9  
 iS\* 21 49 18.6  
 Um iSgl 21 50 51.3  
 Northwest Russia.  
 Explosion.

" 24 Up iP 02 25 44.7  
 iPn 02 26 02.2  
 Ki iP 02 26 29.4  
 micr sec  
 Mx E 0.6 14  
 Mx N 0.4 13  
 Mx Z 0.4 12  
 Um iP 02 25 59.4  
 Ud eP 02 26 02  
 iPn 02 26 22.3  
 Turkey (h = N).

Of the two Turkish earthquake  
 areas this month, the eastern  
 (around 38.8°N, 40.5°E)  
 frequently gives Pn at our  
 stations, whereas the western  
 (around 37.6°N, 30.0°E) in  
 general does not. The probable  
 reason is that paths from the  
 eastern location to our stations  
 are structurally less  
 disturbed than paths from the  
 western area.

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

1971				1971			
May	24	Ki	iP	07 01 55.6	May	25	(cont.)
			ipP	07 02 05.6			Up
		Mariana Islands.					Mx N
		h = 35 km (Ki).					Z 29 14
"	24	Ki	iP	07 27 23.3		Ki	iP
		Sumatra (h = 100 km).					iPn 05 49 28.6
"	24	Ud	iP	08 55 17.2			iS 05 50 01.0
		Turkey.					05 54 23
"	24	Ud	eP	11 23 15			micr sec
		Turkey (h = N).					P Z' 0.2 1.0
"	24	Ki	iSgl	16 23 45.7			Pn Z' 0.5 1.6
		Sk	iSgl	16 23 50.2			Mx E 38 7
		Um	iSgl	16 24 13.2			Mx N 8.6 11
		Ud	iSgl	16 25 37.7			Mx Z 13 7
		Nordland, Norway,				Sk	iP 05 49 03.1
		66.6°N, 13.7°E.				Um	iP 05 48 53.8
		Origin time = 16 22 16.					iS 05 53 15
		Explosion.				Ud	iP 05 48 33.6 D
"	24	Up	iP	16 52 08.0		De	iP 05 48 01.9 D
		Turkey.				Turkey (h = 25 km).	
"	24	Ki	eP	18 37 47	"	25	Ud i(P) 06 13 13.8
		Um	iP	18 37 53.0	"	25	Ud i(P) 06 22 33.6
		Ud	iP	18 38 12.9	"	25	Um iP 06 24 13.8
		Mindanao (h = 540 km).				Turkey (h = 10 km).	
"	25	Up	iP	04 09 53.1 C	"	25	Ki iP 07 01 06.2
		Ki	iP	04 09 37.8 C			Sk iP 07 01 04.4
				micr sec			Um iP 07 00 43.6
			P	Z' 0.1 0.5			Ud iP 07 00 45.0
		Sk	iP	04 10 09.0 C			De eP 07 00 29
		Um	iP	04 09 38.4			Iran (h = 10 km).
		Ud	iP	04 10 09.9 C	"	25	Um i(Pgl) 11 09 28.0
		Kazakh SSR.					i(Sgl) 11 09 47.1
		Underground explosion.		"	25	Um i(Pgl) 11 09 52.4	
"	25	Up	iP	04 40 19.7			i(Sgl) 11 10 12.5
				micr sec	"	25	Ki eP 11 50 12
			P	Z' 0.1 0.8			Ud iP 11 51 03.9
		Ki	iP	04 40 55.3			Aleutian Islands (h = 25 km).
		Sk	iP	04 40 54.7	"	25	Up i(Sgl) 12 07 58.5
		Um	iP	04 40 32.6			Um iSgl 12 08 45.1
		Ud	iP	04 40 36.0			Esthonia.
		De	iP	04 40 21.1			Explosion.
		Iran (h = 25 km).		"	25	Up iP 13 11 55.3	
"	25	Up	iP	05 48 21.6			(cont.)
			iS	05 52 24			
				micr sec			
			P	Z' 1.1 1.5			
			Mx	E 19 12			
		(cont.)					

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

1971 May 25	(cont.)				1971 May 26	(cont.)			
	Up	i	13 12 00.5			Um	iSKP	00 33 30.4	
			micr sec			Ud	iPKP	00 30 39.2 C	
	P	Z'	0.6 1.5				iSKP	00 33 42.6	
	Mx	E	5.8 17			De	iPKP	00 30 49.5 C	
	Mx	N	4.5 17			Tonga-Kermadec Islands			
	Mx	Z	11 16			(h = 410 km).			
	Ki	iP	13 11 17.7		" 26	Ki	iP	01 56 25.6	
		i	13 11 28.0			Um	iP	01 56 45.2	
			micr sec			Ud	iP	01 57 16.9	
	P	Z'	0.2 1.0			Kurile Islands (h = 60 km).			
	Mx	E	7.9 20		" 26	Up	iP	02 48 43.0 C	
	Mx	N	3.5 18				ipP	02 48 49.0	
	Mx	Z	9.8 19				iPP	02 50 07.9	
	Sk	iP	13 11 49.8				iS	02 54 18	
		i	13 11 59.1					micr sec	
	Um	iP	13 11 31.1				P	Z' 0.1 0.7	
		i	13 11 37.0				pP	Z' 0.3 1.2	
	Ud	iP	13 12 00.0				Mx	E 2.8 15	
		i	13 12 05.0				Mx	N 4.7 14	
	De	iP	13 12 16.4				Mx	Z 4.3 13	
	Japan (h = 50 km).					Ki	iP	02 49 09.3 C	
	m = 6.4, M = 6.1 (Up,Ki).						ipP	02 49 14.2	
" 25	Um	iSgl	13 58 37.1				iS	02 55 06	
	Near Lake Ladoga.							micr sec	
	Explosion?						P	Z' 0.2 1.3	
" 25	Ki	iP	14 27 04.8				pP	Z' 0.6 1.3	
	Mariana Islands (h = N).						Mx	E 6.7 14	
" 25	Up	iSgl	14 59 52.7				Mx	N 7.1 13	
	Ud	i(Pgl)	14 59 41.2				Mx	Z 5.6 13	
		i(Sgl)	15 00 08.9			Sk	iP	02 49 15.4 C	
" 25	Ki	iPgl	15 59 57.4				ipP	02 49 20.4	
		iSgl	16 00 20.1			Um	iP	02 48 50.2 C	
	Sk	eSgl	16 01 55				ipP	02 48 55.3	
	Um	iSgl	16 01 51.4				iS	02 54 32	
	Nordland, Norway,					Ud	iP	02 48 59.8 C	
	68.1°N, 16.2°E.						ipP	02 49 06.2	
	Origin time = 15 59 29.					De	iP	02 48 49.4 C	
" 25	Ki	i(P)	20 48 24.3				ipP	02 48 53.7	
	Um	i(P)	20 48 33.0			Iran.			
" 26	Up	iPKP	00 30 36.8			h = 20 km (Up,Ki,Sk,Um,Ud,De).			
	Ki	e(PKP)	00 30 15			m = 5.9, M = 5.7 (Up,Ki).			
		i(PKP)	00 30 20.5		" 26	Up	iSgl	05 34 20.5	
		iPKP	00 30 25.5			Ki	eSgl	05 35 54	
		iSKP	00 33 19.9			Sk	eSn	05 32 55	
	Sk	e(PKP)	00 30 30				iSgl	05 33 12.6	
		iPKP	00 30 32.6			Um	iSgl	05 34 57.9	
		iSKP	00 33 34.4			Ud	iSgl	05 33 19.8	
	Um	i(PKP)	00 30 25.5			Southwest coast of Norway,			
		iPKP	00 30 31.5			61.0°N, 4.5°E.			
	(cont.)					Origin time = 05 30 55.			
						Solved by combination with			
						Kongsberg and Bergen readings.			

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

1971				1971						
May	26	Up	iP	06 24 45.6	C	May	26	Ki	iSg1	16 24 42.9
			ipP	06 24 55.5				Sk	iSg1	16 24 46.7
								Um	iSg1	16 25 09.5
			P	Z' 0.4	1.5			Nordland, Norway, 66.5°N, 14.0°E. Origin time = 16 23 12. Explosion.		
			pP	Z' 0.3	1.3					
			Mx	E 8.3	17					
			Mx	N 6.0	21					
			Mx	Z 16	21					
		Ki	iP	06 24 13.5		"	26	Up	iP	16 51 20.5
			ipP	06 24 23.4					iPP	16 51 49.4
										micr sec
			P	Z' 0.1	1.4			Mx	E 0.5	11
			pP	Z' 0.2	1.5			Mx	N 0.5	12
			Mx	E 10	17			Mx	Z 0.7	11
			Mx	N 6.6	21			Ki	iP	16 51 53.2
			Mx	Z 14	19				iPn	16 52 11.3
		Sk	iP	06 24 44.9						micr sec
			ipP	06 24 55.0				Mx	E 0.6	12
		Um	iP	06 24 27.0				Mx	N 0.3	10
			iS	06 33 36				Mx	Z 0.5	10
		Ud	iP	06 24 54.0				Sk	eP	16 52 00
		De	eP	06 25 08					iPn	16 52 08.4
		Japan.						Um	iP	16 51 27.0
		h = 40 km (Up,Ki,Sk).						Ud	iP	16 51 32.0
		m = 6.1, M = 6.2 (Up,Ki).						De	eP	16 51 20
		Greece.						Caucasus. M = 4.5 (Up,Ki).		
"	26	Sk	iP	07 15 05.0	C	"	27	Ud	iP	00 04 15.2
		Ud	iP	07 14 32.6	C					
"	26	Up	iPKP	07 38 06.3		"	27	Up	iP	00 37 48.7
			i	07 38 14.0				Ki	eP	00 38 02
		Um	iPKP	07 37 59.9					iPP	00 39 30.9
		Ud	iPKP	07 38 08.3	C			Sk	iP	00 38 23.9
			i	07 38 16.3				Um	iP	00 37 52.2
		De	iPKP	07 38 18.6	C				i	00 37 58.9
			i	07 38 26.5					iPP	00 39 17.5
		Tonga-Kermadec Islands (h = 120 km).						Ud	iP	00 38 06.0
									iPP	00 39 38.1
"	26	Up	iPKP	09 11 08.0				De	iP	00 38 02.1
		Ud	iPKP	09 11 10.1	C				i	00 38 15.1
			i	09 11 18.3				Tadzhik SSR (h = 35 km).		
		De	iPKP	09 11 20.7		"	27	Ud	iP	02 23 14.2
		Tonga-Kermadec Islands (h = 110 km).						Kirghiz SSR.		
"	26	Up	eP	09 20 07		"	27	Um	iP	05 54 42.1
		Ki	eP	09 19 38		"	27	Up	iP	06 27 42.8
		Um	iP	09 19 49.8				Ki	iP	06 28 21.8
		Mariana Islands (h = 15 km).						Sk	eP	06 28 19
"	26	De	i(Rg)	15 14 07.5				Um	eP	06 27 58
"	26	Ud	iP	15 54 34.8				Ud	iP	06 27 57.1
								De	iP	06 27 40.7



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

1971				1971							
May	27	Up	iSn	12 30 21.5	May	27	Up	iP	23 16 32.0		
			iSgl	12 30 34.5			Ki	iP	23 16 16.5		
		Ki	iSgl	12 33 04.1			Sk	iP	23 16 37.7		
		Sk	eSgl	12 32 21			Um	iP	23 16 21.5		
		Um	iSgl	12 31 07.8			Ud	iP	23 16 40.9		
		Ud	iSgl	12 31 38.8			De	iP	23 16 45.4		
		De	iSgl	12 32 03.6			Mindanao (h = 540 km).				
		Esthonia, 59.5°N, 25.0°E.					"	28	Up	iPgl	02 52 46.7
		Origin time = 12 28 36.							iSgl	02 52 52.8	
		Explosion.							Um	eSgl	02 54 40
"	27	Um	iP	13 18 45.0				Ud	iPgl	02 53 18.0	
"	27	Ki	i(Pgl)	13 32 06.8				iSgl	02 53 46.4		
			i(Sgl)	13 32 35.8				iRg	02 53 56.3		
"	27	Ki	i(Pgl)	13 40 16.3			Uppland, Sweden, 60.2°N, 17.7°E.				
			i(Sgl)	13 40 44.5			Origin time = 02 52 40.				
"	27	Ki	eP	16 56 37			Probably iron ore mine explosion at Dannemora.				
		Um	iP	16 56 39.1			"	28	Ki	iSgl	04 31 43.7
		Banda Sea (h = 160 km).							Sk	iSgl	04 31 47.8
"	27	Up	iP	17 01 31.0					Um	iSn	04 31 56.9
			ipP	17 01 42.0					iSgl	04 32 11.4	
		Ki	iP	17 00 46.3			Nordland, Norway, 66.5°N, 14.0°E.				
		Um	iP	17 01 06.4			Origin time = 04 30 14.				
		Ud	iP	17 01 37.5			Explosion.				
		De	iP	17 01 54.7			"	28	Ki	iP	10 31 06.9
		Kurile Islands. h = 45 km (Up).							iX	10 31 21.3	
"	27	Um	iP	19 03 44.1				Ud	iX	10 32 21.0	
"	27	Up	iP	20 34 09.8			Komandorsky Islands (h = N).				
		Sk	eP	20 34 49			"	28	Ki	i(P)	10 52 20
		Ud	e(P)	20 34 15				Um	i(P)	10 53 35.0	
			iP	20 34 19.9				i	10 53 37.5		
		Ionian Islands.					"	28	Up	eP	12 21 42
"	27	Um	i(P)	21 03 59.6				Sk	eP	12 21 15	
		Ud	i(P)	21 04 21.1				Ud	iP	12 21 38.0	
"	27	Up	iPKP	21 09 53.9			Queen Charlotte Islands (h = N).				
			iPKP2	21 10 08.1			"	28	Sk	eSgl	13 02 59
		Ki	iPKP	21 09 51.6				Ud	iSgl	13 01 53.0	
			iPKP2	21 10 03.0				i	13 02 00.5		
		Um	iPKP	21 09 52.0			Southwest Norway.				
			iPKP2	21 10 03.8			"	28	Up	iP	13 03 23.1
		Ud	iPKP2	21 10 17.3				ipP	13 03 58.0		
		De	iPKP2	21 10 14.2				P	Z' 0.1 0.6		
		Macquarie Islands (h = N).						Ki	iP	13 02 54.9	
"	27	Ki	eP	22 38 23			(cont.)				
		Um	eP	22 38 55							
		Aleutian Islands (h = 15 km).									

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

1971				1971			
May	28	(cont.)		May	28	(cont.)	
		Ki	micr sec			Ud	i 18 16 53.7
		P	Z' 0.1 0.8			De	iPKP 18 17 00.4
		Sk	iP 13 03 19.9				i 18 17 02.1
		Um	iP 13 03 06.8			Tonga-Kermadec Islands	
			isP 13 04 01.0			(h = 560 km).	
		Ud	iP 13 03 29.5		"	28	Ki e(P) 21 28 18
		De	iP 13 03 41.3		"	28	Up i(P) 21 42 53.7
		Mariana Islands.			"	28	Ud i(P) 21 42 55.9
		h = 150 km (Up,Um).					
		m = 5.9 (Up,Ki).			"	29	Up iP 00 26 33.4
"	28	Up	iP 14 24 37.5				micr sec
			ipP 14 25 08.9				P Z' 0.1 0.7
		Ki	iP 14 24 26.6			Ki	iP 00 25 48.0 C
			ipP 14 24 57.3			Sk	iP 00 26 23.2
			micr sec			Um	iP 00 26 08.2
		P	Z' 0.1 1.5				i 00 26 09.1
		Sk	iP 14 24 19.0			Ud	iP 00 26 39.8
			ipP 14 24 50.8				i 00 27 43.3
		Um	iP 14 24 34.5			De	iP 00 26 57.4 C
			ipP 14 25 06.2			Kurile Islands (h = 110 km).	
			iS 14 34 47		"	29	Up iP 09 04 14.6 C
		Ud	iP 14 24 28.0				micr sec
			ipP 14 24 58.9				P Z' 0.2 1.1
		De	iP 14 24 34.6			Mx	E 5.8 20
			i 14 24 44.3			Mx	N 4.1 18
			ipP 14 25 04.6			Mx	Z 8.1 20
		Guatemala.				Ki	iP 09 03 42.5 C
		h = 130 km (Up,Ki,Sk,Um,Ud,De).					micr sec
"	28	Ki	e(Sn) 15 44 06				P Z' 0.3 1.5
			e(S*) 15 44 18			Mx	E 8.7 21
		Sk	eSgl 15 47 12			Mx	N 3.9 18
		Um	eSgl 15 45 53			Mx	Z 9.3 20
		Northwest Russia-Norway border region.				Sk	iP 09 04 13.1
		Explosion.				Um	iP 09 03 55.3
						Ud	iP 09 04 23.2 C
"	28	Ki	iSgl 16 39 24.7			De	iP 09 04 36.4
		Um	iSgl 16 38 04.4			Japan (h = 50 km).	
		Lake Ladoga.				m = 6.2, M = 6.1 (Up,Ki).	
		Explosion?		"	29	Up	e(P) 12 11 48
"	28	Ki	iPn 17 06 35.6	"	29	Up	iSgl 13 04 47.8
			iSn 17 07 26.4			Ki	iSn 13 01 32.1
		Sk	eSgl 17 10 32				iSgl 13 01 52.0
		Um	iSgl 17 09 14.2			Sk	eSgl 13 04 17
		Northwest Russia.				Um	i(Sn) 13 02 17.8
		Explosion.					iSgl 13 02 45.8
"	28	Up	iPKP 18 16 47.1			Ud	eSgl 13 05 13
			i 18 16 53.4			Northwest Russia,	
		Um	iPKP 18 16 37.6			67.5°N, 31.1°E.	
		Ud	iPKP 18 16 49.5			Origin time = 12 59 46.	
		(cont.)				Explosion.	

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

1971				1971				
May	29	Um	i(P) i	14 51 21.9 14 51 44.9	May	30	(cont.) Sk eP i Um eP iPcP Ud iP De eP Burma (h = N). M = 5.3 (Up,Ki).	12 06 35 12 06 40.0 12 06 14 12 06 58.6 12 06 36.4 12 06 40
"	30	Ki	iP Kurile Islands.	00 31 50.4	"	30	Up iP Um iP Ud iP Kurile Islands.	15 45 38.7 15 45 12.3 15 45 44.0
"	30	Um	eP Ud eP i Kurile Islands.	00 37 06 00 37 37 00 37 49.8	"	30	Up iP Um iP Ud iP Kurile Islands.	15 54 42.3 16 03 10 micr sec P Z' 0.3 0.8 Mx E 7.8 12 Mx N 47 23 Mx Z 13 14 Ki iP i iS micr sec P Z' 0.4 1.6 Mx E 15 13 Mx N 17 14 Mx Z 16 13 Sk iP Um iP i iS Ud iP De iP i Burma (h = 15 km). m = 6.4, M = 6.5 (Up,Ki).
"	30	Ud	iP Aleutian Islands (h = 240 km).	03 19 24.1	"	30	Up iP Sk iP Ud iP Burma. Origin time = 16 14 28.	16 24 53.6 16 25 08.8 16 25 07.8
"	30	Up	e(P) Ud i(P)	03 37 52 03 38 02.7	"	30	Ud iP Japan (h = 25 km).	17 11 50.3
"	30	Up	iPKP i Sk ePKP Um iPKP Ud iPKP i De iPKP Kermadec Islands (h = 60 km).	04 59 07.8 04 59 13.5 04 59 04 04 58 56.8 04 59 10.2 C 04 59 16.3 04 59 22.5	"	30	Up iP Ki iP i iS Ud iP De iP i Burma. Origin time = 16 14 28.	21 49 23.9 21 49 15.7 micr sec Mx E 0.5 12 Mx N 0.4 15 Mx Z 0.5 12 Sk iP (cont.)
"	30	Up	ePKP Ki iPKP Sk ePKP Um iPKP New Hebrides Islands (h = 260 km).	07 27 26 07 27 10.4 07 27 25 07 27 18.7	"	30	Ud iP Japan (h = 25 km).	17 11 50.3
"	30	Ki	eP Um iP Arctic Ocean (h = N).	09 29 25 09 30 13.7	"	30	Up iP Sk iP Ud iP Burma. Origin time = 16 14 28.	16 24 53.6 16 25 08.8 16 25 07.8
"	30	Up	iP Ud iP	10 55 22.2 10 55 32.2	"	30	Ud iP Japan (h = 25 km).	17 11 50.3
"	30	Up	iP P Mx Mx Mx Ki iP Mx Mx Mx (cont.)	12 06 23.1 micr sec Z' 0.1 0.9 E 0.7 14 N 1.8 20 Z 0.8 12 12 06 14.5 micr sec E 0.8 13 N 0.6 14 Z 0.7 13	"	30	Ud iP Japan (h = 25 km).	17 11 50.3

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

1971				1971			
May	30	(cont.)		May	31	(cont.)	
		Um	iP 21 49 15.2			Um	iP 03 49 24.8
		Ud	iP 21 49 37.0				iS 03 51 22.7
		De	iP 21 49 41.5			Ud	iP 03 49 53.8 C
		Burma (h = N).					iPP 03 50 07.8
"	30	Up	iP 23 18 33.2				iS 03 52 15.6
		Um	iP 23 18 24.7			De	iP 03 50 41.8 C
		Ud	iP 23 18 50.3			Norwegian Sea (h = N).	
		Hindu Kush.				M = 5.5 (Up, Ki).	
		This series of shocks may be of special interest in connection with recent volcanic activity on Jan Mayen.					
"	31	Up	ePKP 02 22 53				
		Tonga Islands (h = N).					
"	31	Um	i(P) 03 28 35.9	"	31	Ki	i(P) 03 52 47.0
"	31	Um	iP 03 35 01.7				i(S) 03 54 05.7
		Ud	iP 03 35 34.1				i 03 54 41.4
		Sea of Japan. Deep.				Probably Norwegian Sea.	
"	31	Up	iP 03 43 12.9	"	31	Ki	eP 04 09 54
		Ki	eP 03 41 51			Um	iP 04 10 35.8
			iS 03 43 15.5			Norwegian Sea.	
			iSS 03 43 31.3			Origin time = 04 08 03.	
			micr sec	"	31	Up	eP 04 17 22
		Mx	E 0.7 17			Ki	iP 04 15 59.7
		Mx	N 0.4 16				iPP 04 16 08.1
		Mx	Z 1.0 17			Sk	eP 04 16 20
		Sk	iP 03 42 15.3				i 04 16 23.3
			iS 03 43 58.9			Um	iP 04 16 41.9
		Um	iP 03 42 33.9			Ud	iP 04 17 13.3
			iS 03 44 29.1				iPP 04 17 23.0
		Ud	iP 03 43 03.7			Norwegian Sea (h = N).	
			iPP 03 43 15.1	"	31	Up	iP 04 27 08.8
		De	iP 03 43 49.0			Ki	eP 04 25 46
		Norwegian Sea (h = N).				Sk	iP 04 26 09.8
"	31	Up	iP 03 50 05.5			Um	iP 04 26 29.0
			iS 03 52 44			Ud	iP 04 26 57.2
			micr sec			De	iP 04 27 44.9
		P	Z' 0.3 0.9			Norwegian Sea (h = N).	
		Mx	E 13 19	"	31	Up	iP 05 24 23.6
		Mx	N 30 17				iS 05 32 48
		Mx	Z 47 18				micr sec
		Ki	iP 03 48 42.7			P	Z' 0.2 0.8
			iPP 03 48 52.9			Mx	N 21 22
			iS 03 50 08.5			Mx	Z 7.3 18
			micr sec			Ki	iP 05 24 15.2
		PP	Z' 2.7 1.6				iPP 05 26 32.9
		Mx	E 66 15				iS 05 32 38
		Mx	N 23 15				micr sec
		Mx	Z 69 16			P	Z' 0.1 0.8
		Sk	iP 03 49 06.5			Mx	E 3.2 16
			iS 03 50 50.8			Mx	N 9.8 17
		(cont.)				Mx	Z 4.7 17
		(cont.)					

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

1971

May 31 (cont.)  
 Sk iP 05 24 38.5  
 Um iP 05 24 15.3  
 iS 05 32 31  
 Ud iP 05 24 37.0  
 De iP 05 24 40.9  
 i 05 24 55.0  
 Burma (h = N).  
 m = 6.2, M = 6.3 (Up,Ki).

" 31 Up iP 05 43 13.1  
 Ki iP 05 43 04.3  
 Sk eP 05 43 28  
 Um iP 05 43 04.3  
 Ud iP 05 43 26.7  
 Burma.  
 Origin time = 05 32 49.

" 31 Ud iP 06 07 28.3  
 Japan.

" 31 Up iP 06 31 21.8  
 Ki iP 06 31 13.1  
 Um iP 06 31 13.1  
 Burma.  
 Origin time = 06 20 58.

" 31 Up eP 08 26 53  
 i 08 27 15.9  
 iS 08 34 40  
 micr sec  
 Mx E 0.8 20  
 Mx N 0.5 15  
 Mx Z 0.7 18  
 Ki eP 08 27 14  
 micr sec  
 Mx E 0.5 16  
 Mx N 0.4 16  
 Mx Z 0.7 16  
 Sk iP 08 26 42.8  
 Um iP 08 27 06.2  
 iS 08 35 09  
 Ud iP 08 26 38.3  
 i 08 26 53.3  
 De iP 08 26 34.6  
 North Atlantic Ocean (h = N).  
 M = 5.0 (Up,Ki).

" 31 Up iP 09 23 29.6 C  
 iS 09 33 40  
 Ki iP 09 23 31.2 C  
 iP 09 23 37.2  
 micr sec  
 P Z' 0.1 1.1  
 Mx E 0.5 16  
 Mx N 0.3 15  
 Mx Z 0.5 14  
 (cont.)

1971

May 31 (cont.)  
 Sk iP 09 23 45.2  
 Um iP 09 23 27.3 C  
 iS 09 33 35  
 Ud iP 09 23 40.5 C  
 iP 09 23 48.0  
 De iP 09 23 38.2  
 iP 09 23 45.8  
 Sumatra.  
 h = 25 km (Ki,Ud,De).

" 31 Up iP 11 13 23.6  
 Um eP 11 13 40  
 Ud iP 11 13 39.4  
 De iP 11 13 23.5  
 Iran (h = 60 km).

" 31 Up iP 13 07 07.0  
 Ki iP 13 06 54.2  
 Um iP 13 06 54.2  
 Ud iP 13 07 16.1  
 Burma.  
 Origin time = 12 56 40.

" 31 Um iSgl 13 28 28.8  
 Northwest Russia.  
 Explosion.

" 31 Um i(P) 13 35 37.0  
 Ud e(P) 13 36 03

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 November 21, 1973

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SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, UMEÅ,

UDDEHOLM and DELARY

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

JUNE 1 - 30, 1971

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1971					1971				
June	1	Up	iP	00 38 21.1 C	June	1	(cont.)		
		Ki	iP	00 38 01.8 C			Ki	iP	19 35 26.1
		Sk	eP	00 38 28				ipP	19 35 36.0
		Um	iP	00 38 07.7 C			Um	iP	19 35 42.6
		Ud	iP	00 38 30.9			Ud	iP	19 35 56.9
		De	iP	00 38 37.7				ipP	19 36 06.9
		Luzon (h = 60 km).					Luzon.		
							h = 35 km (Up,Ki,Ud).		
"	1	Um	iP	05 56 48.0	"	1	Um	iP	20 56 49.1
		De	eP	05 56 18			Ud	iP	20 57 20.2
		Turkey.					Okhotsk Sea.		
"	1	Ud	iP	05 57 01.3			Deep.		
"	1	Um	iP	13 13 36.2	"	1	Up	iP	21 31 35.3
		Turkey.					Ki	eP	21 30 50
"	1	Ud	iP	14 23 44.8			Um	iP	21 31 10.8
		Celebes Sea (h = 430 km).					Ud	iP	21 31 41.3
"	1	Up	iP	14 48 27.1				i(pP)	21 31 52.7
							Kurile Islands (h = N).		
"	1	Up	iSgl	17 09 00.0	"	2	Ud	iP	00 52 20.0
		Ud	iSgl	17 09 26.0			De	iP	00 52 02.6
		De	ePgl	17 07 12	"	2	Up	iP	03 54 15.3
			iSn	17 07 46.4			Ki	eP	03 54 59
			iSgl	17 07 58.6			Um	iP	03 54 34.7
		Baltic Sea, off coast of					Ud	iP	03 54 31.2 C
		Poland, 54.4°N, 18.8°E.					De	iP	03 54 13.2
		Origin time = 17 06 10.					Iran (h = 25 km).		
"	1	Up	i(P)	18 59 47.4	"	2	Up	eP	10 12 25
"	1	Up	iP	19 35 47.4				i	10 12 27.5
			ipP	19 35 57.1			Ki	eP	10 13 03
				micr sec			Sk	iP	10 13 00.3
		Mx	E	0.4 15				i	10 13 03.2
		Mx	Z	0.5 15			Um	iP	10 12 42.7
		(cont.)						i	10 12 44.3
							(cont.)		

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

1971				1971			
June				June			
2	(cont.)			3	Up	iSgl	12 32 18.2
	Ud	eP	10 12 40		Ud	iSgl	12 32 35.0
		i	10 12 42.9		De	iSgl	12 33 25.2
	Iran (h = 35 km).				Södermanland, Sweden,		
	Double P-phases, in average				59.3°N, 16.2°E.		
	2.5 sec apart, are recorded				Origin time = 12 31 48.		
	at Up, Sk, Um, Ud.						
"	2	Up	e(P) 10 18 17	"	3	Up	i(P) 12 47 12.1 C
		Ud	e(P) 10 18 47			De	i(P) 12 47 37.8
"	2	Up	iP 13 47 53.5	"	3	Up	iP 13 38 50.2 C
		Ki	iP 13 47 54.0			Ki	eP 13 38 00
		Um	eP 13 47 58	"	3	Up	iP 13 45 20.4
		Ud	iP 13 48 04.6	"	3	Um	iP 15 17 59.5
	Sumatra (h = 35 km).					Ud	iP 15 18 19.9
"	2	Up	i(P) 13 58 37.6			De	iP 15 18 30.6
"	2	Ud	i(P) 15 13 24.4	"	3	Up	iP 20 22 08.1
"	2	Up	iP 19 16 31.2			Um	iP 20 22 01.0
		Ki	iP 19 15 34.3			Ud	iP 20 22 14.0
			micr sec			De	iP 20 22 26.2
		P	Z' 0.1 0.9		Volcano Islands.		
		Sk	iP 19 16 02.6	"	4	Up	i(P) 02 23 15.3 C
		Um	iP 19 16 03.9 C			Um	i(P) 02 23 34.1
		Ud	iP 19 16 27.8 C	"	4	Up	iP 08 03 15.2
		De	iP 19 16 52.8 C			Ki	eP 08 01 54
	Alaska (h = 30 km).					ipP	08 02 02.7
"	2	Up	iP 20 02 17.1			Sk	iP 08 02 42.3
		Sk	iP 20 02 32.8			i	08 03 00.8
		Ud	iP 20 02 31.5			Um	iP 08 02 42.6
	Tibet.					i	08 03 10.4
"	2	Um	i(Sgl) 20 07 26.3			Ud	iP 08 03 18.0
		Ud	e(Sgl) 20 08 18.4			De	iP 08 03 40.1
"	2	Ud	i(P) 21 31 24.0			ipP	08 03 48.0
"	3	Ud	iP 01 38 57.0		Arctic Ocean.		
	Turkey.				h = 35 km (Ki,De).		
"	3	Up	iP 11 15 34.2	"	4	Um	i(P) 08 31 35.1
		Um	iP 11 15 14.1		Okhotsk Sea.		
		i(pP)	11 15 23.8		Deep.		
	Japan (h = 60 km).			"	4	Up	iP 09 16 13.8
"	3	Ki	iSgl 11 22 52.4			ipP	09 16 22.5
		Sk	iSgl 11 22 57.4			micr sec	
		Um	iSn 11 23 05.6			Mx	E 0.4 11
		iSgl	11 23 18.7			Mx	N 0.4 11
	Nordland, Norway,					Mx	Z 0.9 16
	66.5°N, 14.1°E.					Ki	iP 09 15 04.4 C
	Origin time = 11 21 23.					iS	09 19 13
	Explosion.					micr sec	
						P	Z' 0.3 1.5
						Mx	E 0.4 11
					(cont.)		

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

Year	Month	Station	Phase	Time	Time	Time	Year	Month	Station	Phase	Time	Time	Time			
1971	June	4	(cont.)				1971	June	4	Up	i(P)	21	28 57.9			
			Ki		micr	sec			"	4	Up	iP	23 33 50.7			
			Mx	N	0.5	14						iPcP	23 34 15.6			
			Mx	Z	0.4	10					Ki	iP	23 32 57.7			
			Sk	iP	09 15	42.3							micr sec			
				ipP	09 15	49.3						Mx	N	0.4 19		
			Um	iP	09 15	40.8						Mx	Z	0.5 16		
				i	09 15	45.7					Um	iP	23 33 24.1			
				i	09 15	54.3					De	iP	23 34 12.9			
			Ud	iP	09 16	16.6					Aleutian Islands (h = N).					
				ipP	09 16	24.3				"	5	Up	iP	01 49 45.2		
			De	iP	09 16	47.4							ipP	01 49 56.8		
				ipP	09 16	55.0								micr sec		
			Arctic Ocean.										P	Z'	0.1 1.0	
			h = 35 km (Up,Sk,Ud,De).											pP	Z'	0.1 1.0
			M = 4.5 (Up,Ki).											Mx	E	0.6 22
"	"	4	Up	iSgl	12 08	24.1							Mx	N	0.9 21	
			Ki	eSgl	12 10	46							Mx	Z	0.5 16	
			Sk	iSgl	12 10	16.6					Ki	iP	01 49 48.1			
			Um	iSgl	12 08	57.3							ipP	01 49 58.8		
			De	eSgl	12 09	52								micr sec		
			Esthonia, 59.5°N, 25.3°E.											P	Z'	0.1 1.0
			Origin time = 12 06 21.											pP	Z'	0.2 1.0
			Explosion.											Mx	E	1.0 18
"	"	4	Up	iP	14 20	27.6							Mx	N	0.7 18	
			Ki	iP	14 20	15.0							Mx	Z	1.1 18	
			Sk	iP	14 20	41.4					Sk	iP	01 50 02.9			
			Um	iP	14 20	16.7							ipP	01 50 13.8		
			Tibet (h = N).									Um	iP	01 49 43.2		
"	"	4	De	i(Sgl)	14 24	35.1							ipP	01 49 54.3		
				i(Rg)	14 24	43.5							iS	01 59 09		
"	"	4	Up	iP	15 11	21.4							De	iP	01 49 54.9	
			Turkey (h = 25 km).											ipP	01 50 06.5	
"	"	4	Up	iP	15 25	39.9							Nicobar Islands.			
			Ki	iP	15 25	06.7							h = 40 km (Up,Ki,Sk,Um,De).			
			Sk	eP	15 25	40							m = 5.9, M = 5.2 (Up,Ki).			
			Um	iP	15 25	20.8				"	5	Um	iP	02 20 29.6		
			De	eP	15 26	02				"	5	Up	iP	04 00 32.9		
			Ryukyu Islands (h = 130 km).										Ki	iP	04 00 33.9	
"	"	4	Um	i(P)	18 45	25.6							Um	iP	04 00 30.2	
"	"	4	Up	i(P)	20 17	04.3				"	5	Up	iP	07 21 29.0		
"	"	4	Up	iP1	20 59	28.1							Greece.			
				iP2	20 59	29.3				"	5	Up	iP	08 41 26.9		
			Sk	iP2	20 59	44.8							Sk	eP	08 41 45	
			Um	iP1	20 59	17.1							Um	iP	08 41 18.1	
				iP2	20 59	18.6				"	5	Ki	iP	09 07 20.4		
			De	i(P2)	20 59	46.6				"	5	Up	iP	09 34 03.9		
			Tibet (h = N).											micr sec		
			Double P, about 1.4 sec apart.											P	Z'	0.1 1.4
													(cont.)			



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

1971				1971			
June	5	(cont.)		June	5	(cont.)	
		Up	micr sec			h = 30 km (Up,Ki,Sk,Um,De).	
		Mx	E 1.1 22			m = 5.9, M = 5.3 (Up,Ki).	
		Mx	N 1.0 22				
		Mx	Z 1.4 20	"	5	Up eP	20 00 42
		Ki iP	09 33 47.6			i	20 00 44.0
		i	09 34 30.6			Sk eP	20 01 22
			micr sec			Um eP	20 01 23
		P	Z' 0.1 1.5			De eP'	20 00 14
		Mx	E 1.6 23			Greece (h = 45 km).	
		Mx	N 0.9 21	"	5	Up ePKP	21 07 27
		Mx	Z 2.4 21			Ki iPKP	21 07 16.8
		Sk eP	09 34 09			Um ePKP	21 07 14
		Um iP	09 33 53.0			i	21 07 18.2
		iSKS	09 44 20			De iPKP	21 07 22.1
		De eP	09 34 17			Macquarie Islands.	
		Mindanao (h = 70 km).					
		m = 5.9, M = 5.5 (Up,Ki).		"	6	Up iP	01 42 37.0
"	5	Up Mx	10 58			Ki iP	01 41 59.2
			micr sec			Sk iP	01 42 33.3
		Mx	E 0.8 17			Um iP	01 42 15.2
		Mx	N 0.9 20			De iP	01 42 59.9
		Mx	Z 1.1 16			Sea of Japan (h = 450 km).	
		Ki Mx	10 58	"	6	Up iP	02 23 20.7
			micr sec			Um iP	02 23 16.5
		Mx	E 0.4 11			Mexico (h = N).	
		Mx	N 0.5 14	"	6	Up iP	04 09 49.6 C
		Mx	Z 0.6 13			i	04 10 49.0
		China (h = N).				iPn	04 10 53.6
		M = 5.1 (Up,Ki).					micr sec
"	5	Up iP	14 33 30.7 C			P	Z' 0.1 0.5
		ipP	14 33 39.9			Ki iP	04 09 34.1 C
			micr sec				micr sec
		P	Z' 0.1 1.2			P	Z' 0.3 0.5
		pP	Z' 0.1 1.0			Sk iP	04 10 05.0 C
		Mx	E 0.9 18			Um iP	04 09 34.5 C
		Mx	N 0.9 21			iPn	04 10 16.6
		Mx	Z 1.8 19			De iP	04 10 12.7 C
		Ki iP	14 33 27.5			iPn	04 11 29.6
		ipP	14 33 35.6			Kazakh SSR.	
			micr sec			m = 6.2 (Up,Ki).	
		pP	Z' 0.1 1.2			Underground explosion.	
		Mx	E 1.3 18	"	6	Up iSg1	04 43 41.2
		Mx	N 0.7 18			Ki iPn	04 39 22.9
		Mx	Z 1.7 18			iSn	04 40 20.7
		Sk iP	14 33 14.9			iS*	04 40 40.1
		ipP	14 33 24.4			Sk iSg1	04 43 14.2
		Um iP	14 33 31.5			Um iSn	04 40 58.1
		ipP	14 33 38.5			iSg1	04 41 38.4
		iSKS	14 43 55			Northwest Russia,	
		De iP	14 33 25.8			68.1°N, 33.8°E.	
		ipP	14 33 33.8			Origin time = 04 38 06.	
		Costa Rica.				Explosion.	
		(cont.)					



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

1971				1971			
Month	Day	Station	Type	Time	Time	Time	Time
June	8	Ud	iP	14 36 32.4	June	8	(cont.)
"	8	Up	iP	15 19 09.6			Turkey (h = 30 km).
"	8	Up	iP	15 33 40.4			m = 5.5, M = 5.3 (Up,Ki).
"	8	Up	iP	17 04 38.3	"	9	Um iP 01 38 49.5
			i	17 04 41.1			Pamir.
			iPP	17 05 11.8	"	9	Um eP 03 03 13
			iS	17 08 52			Ud eP 03 02 51
				micr sec			Turkey (h = 10 km).
		Ki	PP Z'	0.1 1.5	"	9	Up iP 07 59 37.3
			eP	17 05 43			Ki eP 07 59 39
			i	17 05 45.6			Um iP 07 59 34.6
				micr sec			Ud iP 07 59 48.4
			Mx E	0.7 7			De iP 07 59 46.1
			Mx N	0.5 15			Nicobar Islands (h = N).
			Mx Z	0.7 12	"	9	Up micr sec
		Um	iP	17 05 10.3			Mx E 0.8 20
		Ud	iP	17 04 47.4			Mx N 0.7 20
			i	17 04 51.1			Mx Z 1.4 20
		De	iP	17 04 07.1			Ki micr sec
			i	17 04 10.0			Mx E 0.9 17
				Turkey (h = 10 km).			Mx N 0.7 18
				Double P, about 3 sec apart;			Mx Z 1.1 18
				alternatively, the second			Ud iP2 13 27 09.9
				phase is pP.			Easter Island region (h = N).
"	8	Ud	iP	17 28 37.4			M = 5.8 (Up,Ki).
				Turkey.	"	9	Up i(P) 15 23 37.3
"	8	Up	iP1	23 48 04.8			Ud i(P) 15 23 48.4
			iP2	23 48 07.7	"	9	Up iP 21 20 15.3 C
			iS	23 52 16			i 21 20 34.4
				micr sec			Ki iP 21 19 20.7
			P2 Z'	0.1 0.9			micr sec
			Mx E	1.7 13			P Z' 0.1 0.9
			Mx N	2.0 9			Sk iP 21 19 49.4
			Mx Z	3.0 9			Um iP 21 19 48.8 C
		Ki	iP1	23 49 10.3			Ud iP 21 20 12.8 C
			iP2	23 49 12.8			De iP 21 20 36.2 C
				micr sec			Alaska (h = 55 km).
			P2 Z'	0.1 1.0	"	9	Up iP 22 19 37.3
			Mx E	3.5 7			Ki iP 22 20 50.8
			Mx N	1.4 9			Um eP 22 20 14
			Mx Z	1.4 11			Ud eP 22 19 33
		Sk	eP1	23 48 48	"	9	Ki eP 23 18 07
			iP2	23 48 51.7			Aleutian Islands (h = 35 km).
		Um	iP1	23 48 33.2	"	10	Up ePP 07 05 21
			iP2	23 48 37.2			iSKS 07 11 42
			iPP	23 49 21.2			iS 07 12 39
			iS	23 53 09			(cont.)
		Ud	iP1	23 48 14.5			
			iP2	23 48 18.2			
		De	eP1	23 47 44			
			iP2	23 47 50.2			
				(cont.)			

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

1971				1971			
June	10	(cont.)		June	10	(cont.)	
		Up	micr sec			Um	iP 09 50 00.2 C
		PP	Z' 0.1 1.2			Ud	iP 09 50 18.7 C
		Mx	E 0.8 21			De	iP 09 50 15.7
		Mx	N 1.0 22			Afghanistan-USSR (h = 380 km).	
		Mx	Z 1.1 21		"	10	Sk i(P) 10 29 27.9
		Ki	eP 07 01 28		"	10	Up iP 10 32 20.3
			micr sec				Ki eP 10 31 42
		Mx	E 0.7 17				Sk iP 10 32 18.4
		Mx	N 0.6 18				Um iP 10 31 55.3
		Mx	Z 0.9 18				i 10 32 00.9
		Sk	iP 07 01 05.3				Ud eP 10 32 27
			i(pP) 07 01 27.5				i 10 32 29.8
		Um	ePP 07 05 34			Japan (h = 30 km).	
			iSKS 07 11 47		"	10	Up iP 11 26 38.2
			iS 07 12 49				Ki iP 11 26 09.7
		Ud	iP 07 01 07.8				Um eP 11 26 21
			i 07 01 41.5				Ud iP 11 26 44.7
		Peru (h = 100 km).					De eP 11 26 55
		M = 5.4 (Up,Ki).				Mariana Islands (h = 610 km).	
"	10	Ki	iPKP 08 16 35.6		"	10	Up iP 17 39 32.7
		Um	ePKP 08 16 42.				i 17 39 49.7
		Ud	iPKP 08 16 46.0				micr sec
		De	iPKP 08 16 57.0				P Z' 0.2 1.1
		Tonga-Kermadec Islands					Ki iP 17 38 39.6 C
		(h = 420 km).					micr sec
"	10	Up	iP 09 36 47.5				P Z' 0.3 1.1
			ipP 09 36 57.2				Sk iP 17 39 09.7
			iPP 09 37 19.2				Um iP 17 39 06.0 C
			micr sec				Ud iP 17 39 31.8 C
		P	Z' 0.1 1.3				De iP 17 39 54.5 C
		Mx	N 0.4 9				Aleutian Islands (h = 40 km).
		Mx	Z 0.4 8				m = 6.4 (Up,Ki).
		Ki	iP 09 38 02.5		"	10	Up iP 18 59 18.4
			micr sec				Ki iP 18 59 14.9
		Mx	E 0.4 14				Sk iP 18 58 45.7
		Mx	N 0.4 13				Um iP 18 59 17.3
		Mx	Z 0.5 13				Ud iP 18 58 59.5
		Sk	iP 09 37 32.0			North Atlantic Ocean (h = N).	
			i 09 37 46.6		"	10	Up iP 19 07 52.8
		Um	iP 09 37 19.5				micr sec
			ipP 09 37 30.6				P Z' 0.6 2.4
			iPP 09 38 02.4				Mx E 0.8 16
		Ud	iP 09 37 00.7				Mx N 0.8 19
		De	iP 09 36 27.3				Mx Z 0.7 11
			ipP 09 36 34.7				Ki iP 19 07 49.8
		Turkey.					micr sec
		h = 40 km (Up,Um,De).					P Z' 0.5 2.3
		M = 4.4 (Up,Ki).					Mx E 1.0 15
"	10	Up	iP 09 50 02.5 C				Mx N 0.4 14
		Ki	iP 09 50 09.8 C				Mx Z 0.9 15
		Sk	iP 09 50 27.2			(cont.)	
		(cont.)					

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

1971				1971			
June	10	(cont.)		June	10		
		Sk	iP 19 07 20.3			Up	iP 21 11 42.0
		Um	iP 19 07 54.1			Um	iP 21 11 54.6
		Ud	iP 19 07 36.7	"	10	Up	iP 21 37 50.3
		De	eP 19 07 47				micr sec
		North Atlantic Ocean (h = N).				P	Z' 0.1 1.5
		m = 5.7, M = 4.5 (Up,Ki).				Mx	E 0.8 21
"	10	Up	iP 19 37 27.7			Mx	Z 1.1 21
		Um	iP 19 37 10.9			Ki	iP 21 37 46.8
		Ud	iP 19 37 36.5				micr sec
		De	iP 19 37 50.2			P	Z' 0.2 1.5
		China.				Mx	E 0.7 15
						Mx	N 0.5 16
"	10	Up	iP 20 10 29.2 D			Mx	Z 1.0 16
		ipP	20 11 27.1			Sk	iP 21 37 18.9
		iPP	20 13 04.1			Um	iP 21 37 50.4
		i	20 15 32.3			Ud	iP 21 37 29.2
		iS	20 19 08			De	iP 21 37 41.4
			micr sec			North Atlantic Ocean	
		P	Z' 2.4 1.6			(h = N).	
		Mx	E 0.5 10			m = 5.3, M = 4.3 (Up,Ki).	
		Mx	N 0.6 14	"	10	Up	eP 21 44 08
		Mx	Z 0.5 12			Sk	eP 21 44 46
		Ki	iP 20 09 48.6 D			Ud	iP 21 44 13.1
		ipP	20 10 45.2			De	eP 21 43 42
		iPP	20 12 04.9			Ionian Islands.	
		iS	20 17 53				
			micr sec	"	10	Up	iX2 23 50 39.3
		P	Z' 3.5 1.7				iX3 23 50 56.4
		Mx	E 0.6 10				micr sec
		Mx	N 0.9 10			X3	Z' 0.1 1.5
		Mx	Z 1.2 17			Mx	E 0.9 19
		Sk	iP 20 10 23.0 D			Mx	N 0.8 19
		iPcP	20 10 49.4			Mx	Z 1.3 19
		ipP	20 11 19.4			Ki	eP 23 49 47
		iPP	20 12 47.1				iX1 23 49 58.7
		i(ScP)	20 14 36.8				iX3 23 50 52.8
		Um	iP 20 10 06.4 D				micr sec
		iPcP	20 10 37.9			X3	Z' 0.2 1.6
		ipP	20 11 04.0			Mx	E 0.7 17
		iPP	20 12 30.4			Mx	N 0.5 16
		iS	20 18 25			Mx	Z 1.2 17
		Ud	iP 20 10 36.7			Sk	iX1 23 49 31.3
		i	20 11 28.6				iX2 23 50 08.5
		ipP	20 11 34.9				iX3 23 50 25.8
		iPP	20 13 09.2			Um	iX1 23 50 03.5
		De	iP 20 10 52.9 D				iX2 23 50 39.5
		iPcP	20 11 09.6				iX3 23 50 56.8
		i	20 11 40.3			Ud	iP 23 49 34.1
		ipP	20 11 50.5				iX1 23 49 48.1
		Sea of Japan.					iX2 23 50 21.6
		h = 230 km (Up,Ki,Sk,Um,Ud,De).					iX3 23 50 36.2
		m = 6.8, M = 5.2 (Up,Ki).				De	iX3 23 50 50.7
		M uncorrected for focal depth.				North Atlantic Ocean (h = N).	
						(cont.)	

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

1971				1971			
June	10	(cont.)		June	11		
		m = 5.3, M = 4.4 (Up,Ki). The phases X1, X2, X3 can be interpreted as P-phases of successive shocks in the same epicentral region, with respective origin times 23 44 51, 23 45 27 and 23 45 44.				Ki iP	10 33 46.8
						Sk iP	10 33 20.0
						Um iP	10 33 51.2
						Ud iP	10 33 29.5
						North Atlantic Ocean (h = N).	
"	11	Up i(P)	00 07 18.8	"	11	Ki iPn	10 51 07.9
						iSn	10 52 06.7
						iS*	10 52 25.9
						Sk iSgl	10 54 54.2
						Um iSgl	10 53 25.0
						Northwest Russia, 68.0°N, 34.0°E. Origin time = 10 49 50. Explosion.	
"	11	Ki eP	00 55 56	"	11	Ki iP	10 58 34.1
		Sk iP	00 55 25.1			Ud iP	10 59 31.1
		Um iP	00 55 57.0			Kurile Islands (h = 60 km).	
		Ud eP	00 55 41				
		North Atlantic Ocean. Origin time = 00 50 45.					
"	11	Ud iP	01 46 20.5	"	11	Up iP	13 07 31.5
		Peru-Ecuador (h = 45 km).				i	13 07 36.8
"	11	Up iP	04 34 40.1 C			ipP	13 07 48.5
		ipP	04 34 49.6			iS	13 16 56
			micr sec				micr sec
		P	Z' 0.1 0.9			P	Z' 1.5 1.2
		Mx	E 0.5 16			Mx	E 26 24
		Mx	N 0.5 15			Mx	N 6.3 23
		Mx	Z 0.9 17			Mx	Z 47 24
		Ki iP	04 33 47.7 C			Ki iP	13 07 33.2 D
		ipP	04 33 58.7			i	13 07 38.5
			micr sec			iPcP	13 07 52.9
		P	Z' 0.1 0.9			iPP	13 10 17.5
		Mx	E 0.4 15			iS	13 17 02
		Mx	N 0.3 18			iScS	13 17 34.8
		Mx	Z 0.6 15				micr sec
		Sk iP	04 34 23.8			P	Z' 1.6 1.3
		Um iP	04 34 11.2 C			Mx	E 33 24
		ipP	04 34 23.0			Mx	N 18 25
		Ud iP	04 34 44.1			Mx	Z 46 24
		ipP	04 34 54.4			Sk iP	13 07 15.1 D
		De iP	04 35 05.0 C			i	13 07 20.4
		ipP	04 35 15.8			ipP	13 07 29.3
		Kamchatka. h = 40 km (Up,Ki,Um,Ud,De). m = 5.9, M = 4.9 (Up,Ki).				iPcP	13 07 37.2
						iP'P'	13 35 08.6
"	11	Up iP	06 46 43.8			Um iP	13 07 35.9 D
		Ki iP	06 46 38.7			i	13 07 40.4
		Sk iP	06 46 12.2			iS	13 17 05
		Ud eP	06 46 25			Ud iP	13 07 19.3
		North Atlantic Ocean (h = N).				i	13 07 24.7
						iPP	13 10 01.6
						iP'P'	13 35 05.9
"	11	Ud iP	08 38 20.0			De iP	13 07 21.5
		Greece.				i	13 07 27.0
						Dominican Republic. (cont.)	

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

1971				1971						
June	11	(cont.)		June	11	(cont.)				
		h = 60 km (Up,Sk).				Nordland, Norway,				
		m = 6.9, M = 6.6 (Up,Ki).				66.5°N, 14.0°E.				
		Double P-phases, in average				Origin time = 17 36 28.				
		5.3 sec apart, are recorded				Explosion.				
		at all stations.								
"	11	Up	iP	14 09 32.3	C	"	11	Ud	i(P)	21 15 43.6
			iPP	14 12 08.2		"	11	Up	i(P)	21 32 48.0
			iS	14 18 33		"	11	Ud	iP	22 29 14.2
				micr	sec	"	11	Um	iP	22 54 02.0
		P	Z'	0.5	0.9	"	11	Ud	iP	22 54 27.4
		Mx	E	17	16					Formosa (h = 45 km).
		Mx	N	23	23					
		Mx	Z	35	23					
		Ki	iP	14 08 39.1	C	"	12	Ud	iP	01 31 36.7
			iS	14 16 52		"	12	Ki	iP	03 04 42.8
				micr	sec			Sk	eP	03 05 18
		P	Z'	0.5	0.9			Um	iP	03 04 59.1
		Mx	E	34	19			Ud	iP	03 05 28.0
		Mx	N	30	19					Japan (h = 35 km).
		Mx	Z	47	19					
		Sk	iP	14 09 11.8	C	"	12	Um	iP	03 08 14.9
			iP'P'	14 38 16.8						Japan (h = 25 km).
		Um	iP	14 09 04.6	C	"	12	Up	iP	07 35 56.4
			iP'P'	14 38 15.4				Ki	eP	07 34 55
		Ud	iP	14 09 33.4	C	"	12	Um	iP	07 35 26.8
			ipP	14 09 40.8				Ud	iP	07 35 58.5
			iP'P'	14 38 00.0		"	12	Ki	eP	07 50 28
		De	iP	14 09 55.2				Sk	eP	07 50 59
				Aleutian Islands.		"	12	Um	iP	07 50 42.6
				h = 30 km (Ud).					ipP	07 50 51.5
				m = 6.7, M = 6.6 (Up,Ki).						Japan.
"	11	Ki	iP	14 15 13.9						h = 35 km (Um).
"	11	Um	iP	14 28 25.6		"	12	Ki	iP	11 42 39.1
"	11	Up	iP	15 32 25.0				Sk	iP	11 42 52.7
				micr	sec			Ud	iP	11 42 49.1
		P	Z'	0.2	1.0					Sumatra.
		Ki	iP	15 31 32.5		"	12	Ki	iPn	12 56 27.5
		Sk	eP	15 32 05					iSn	12 57 15.9
		Um	iP	15 31 58.4					iS*	12 57 29.5
		Ud	iP	15 32 26.0				Um	eSgl	12 59 03
		De	iP	15 32 48.3						Northwest Russia,
				Aleutian Islands (h = 50 km).						69.7°N, 30.8°E.
"	11	Up	iP	16 27 13.9						Origin time = 12 55 24.
		Um	iP	16 27 02.9						Explosion.
		Ud	iP	16 27 15.6		"	12	Ud	eP	13 09 38
		De	iP	16 27 24.9		"	12	Um	iP	14 00 42.2
"	11	Ki	iSgl	17 37 57.7						(cont.)
		Sk	iSgl	17 38 02.3						
		Um	iSgl	17 38 24.2						

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

1971				1971				
June	12	(cont.)		June	13	Ud	iP	04 38 20.3
		Ud eP	14 01 16	"	13	Up	iP	06 12 53.8
		Japan (h = 35 km).				Ud	iP	06 13 00.7
"	12	Ud iP	16 15 06.6			Ionian Islands.		
		Turkey.		"	13	Up	iP	09 51 45.1
"	12	Up iP	19 29 55.7			Ud	iP	09 51 40.5
		Ki iP	19 30 01.2	"	14	Ki	iPn	11 01 18.8
		Sk iP	19 29 40.5				iSn	11 02 14.4
		Um iP	19 30 02.3				iSgl	11 02 34.4
		Ud iP	19 29 44.3			Sk	eSgl	11 05 15
		Virgin Islands (h = 45 km).				Um	iSgl	11 03 42.5
"	12	Um iP	22 00 27.5			Northwest Russia, 68.5°N, 33.4°E.		
		Ud iP	22 00 56.4			Origin time = 11 00 05.		
"	12	Um eP	22 36 19			Explosion.		
		Ud iP	22 36 53.6	"	14	Up	iP	11 36 40.6
		Kurile Islands (h = 120 km).				Ki	iP	11 35 58.2
"	12	Ki ePKP	22 59 06			Sk	iP	11 36 33.2
		eSKP	23 02 01			Um	iP	11 36 17.2
		Um iSKP	23 02 14.5			Ud	iP	11 36 48.3
		Ud iPKP	22 59 12.5			De	iP	11 37 04.7
		De iPKP	22 59 22.8			Japan (h = 120 km).		
		Fiji Islands (h = 330 km).		"	14	Up	iP1	13 57 50.0
"	12	Up iPKP	23 55 21.0				iP2	13 57 53.2
		Ki ePKP	23 55 13					micr sec
		Um iPKP	23 55 15.4				P2	Z' 0.1 1.0
		i	23 55 20.7				Mx	E 3.6 16
		iSKP	23 57 57.3				Mx	N 6.0 17
		Ud iPKP	23 55 22.5				Mx	Z 4.9 20
		De iPKP	23 55 33.4			Ki	iP1	13 57 01.2
		Fiji Islands (h = 610 km).					iP2	13 57 04.8
"	13	Up iP	04 17 19.0 C				iPP	13 58 43.3
		iPcP	04 17 31.1				iS	14 03 17.5
			micr sec					micr sec
		P	Z' 0.2 1.0				P2	Z' 0.3 1.1
		Ki iP	04 16 40.8 C				Mx	E 5.6 15
			micr sec				Mx	N 6.0 15
		P	Z' 0.1 1.0				Mx	Z 5.5 15
		Mx	E 0.6 17			Sk	iP1	13 57 42.9
		Mx	N 0.3 16				iP2	13 57 46.4
		Mx	Z 0.6 17			Um	iP1	13 57 22.1
		Sk iP	04 17 13.2 C				iP2	13 57 25.1
		iPcP	04 17 31.2				iS	14 04 07
		Um iP	04 16 57.4 C			Ud	iP1	13 57 59.2
		ipP	04 17 11.0				iP2	13 58 02.2
		iPcP	04 17 15.1			De	iP2	13 58 21.1
		Ud iP	04 17 26.5 C			Eastern Siberia (h = N).		
		ipP	04 17 39.4			m = 5.9, M = 5.8 (Up,Ki).		
		De iP	04 17 41.3 C			Double P, in average 3.2 sec apart.		
		Japan.		"	14	Ki	iP	14 34 03.4
		h = 50 km (Um,Ud).				(cont.)		
		m = 6.1 (Up,Ki).						



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

1971									1971									
June	14	(cont.)							June	15	(cont.)							
		Sk	eP	14	34	43					Sk	iP	07	47	42.1	C		
		Eastern Siberia (h = N).										i	07	47	47.6			
"	14	Up	iSgl	16	17	33.7					Um	iP	07	47	13.0	C		
		Sk	eSgl	16	19	17						i	07	47	17.9			
		Um	iSgl	16	17	44.3						iPP	07	48	43.4			
		Eastern Esthonia. Explosion.										Ud	iP	07	47	39.0	C	
												i	07	47	43.5			
												iPP	07	49	20.7			
"	14	Ki	iPn	20	35	46.3					De	iP	07	47	41.1	C		
			iP*	20	35	54.8						i	07	47	45.7			
			iSn	20	36	32.8						iPP	07	49	21.0			
			iS*	20	36	45.7						Kirghiz-Sinkiang (h = N). m = 6.0, M = 5.7 (Up,Ki). Double P-phases, in average 4.8 sec apart, are recorded at Up,Sk,Um,Ud,De.						
		Sk	iSgl	20	39	34.7												
		Um	iSgl	20	38	16.1												
		Northwest Russia-Norway border region, 69.5°N, 30.4°E. Origin time = 20 34 45. Explosion.								"	15	Up	iP	07	50	10.9		
"	15	Um	iP	00	15	03.3							P	Z'	0.1	1.0		
"	15	Up	iP	00	52	35.7						Ki	iP	07	50	04.1		
		Ki	iP	00	52	09.9						Sk	iP	07	50	25.6		
		Um	iP	00	52	16.5						Ud	iP	07	50	23.8		
		Ud	iP	00	52	44.8						Kirghiz-Sinkiang. Origin time = 07 42 24.						
		Ryukyu Islands (h = 70 km).								"	15	Ki	iP	11	22	59.3		
"	15	Up	iP	05	39	42.1						Um	iP	11	23	12.8	C	
		Ki	iP	05	39	22.7						Ud	iP	11	23	37.2		
												Bonin Islands (h = 410 km).						
			Mx	E	0.5	12					"	15	Ki	iSgl	11	38	47.8	
			Mx	N	0.2	13						Sk	iSgl	11	38	52.2		
			Mx	Z	0.5	12						Um	iSgl	11	39	13.3		
		Sk	eP	05	39	43						Nordland, Norway, 66.5°N, 14.1°E. Origin time = 11 37 18. Explosion.						
		Um	iP	05	39	28.9												
		Ud	iP	05	39	51.4												
		Luzon (h = 50 km).								"	15	Up	iSgl	13	01	35.7		
"	15	Um	iP	06	30	11.9						Ki	eSgl	13	04	20		
"	15	Up	iP	07	47	22.1	C					Sk	iSgl	13	03	33.3		
			i	07	47	27.1						Um	iSgl	13	02	25.7		
			iPP	07	48	58.5						De	iSgl	13	03	03.3		
												Esthonia, 59.3°N, 23.8°E. Origin time = 12 59 56. Explosion.						
			P	Z'	0.4	0.9					"	15	Up	iP	14	14	36.8	C
			Mx	E	1.7	7												
			Mx	N	5.3	15												
			Mx	Z	3.0	7												
		Ki	iP	07	47	16.5	C											
			P	Z'	0.3	0.9												
			Mx	E	4.7	12												
			Mx	N	5.4	14												
			Mx	Z	4.8	12												
		(cont.)										Ki	iP	14	13	43.4		
			P	Z'	0.1	1.0												
			Mx	N	0.4	14												
			Mx	Z	0.5	15												
			P	Z'	0.1	1.0												
		(cont.)										(cont.)						

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

1971				1971			
June	15	(cont.)		June	15	(cont.)	
		Ki	micr sec			Um	iP1 22 11 48.4 C
		Mx	E 0.7 18			iP3	22 11 54.5
		Mx	N 0.4 16			i	22 13 13.2
		Mx	Z 0.6 17			iPP	22 13 23.9
		Sk	iP 14 14 19.7			iS	22 17 55
		Um	iP 14 14 09.0			Ud	iP1 22 12 14.3 C
		Ud	iP 14 14 40.1			iP2	22 12 17.6
		De	iP 14 15 01.5			iP3	22 12 20.5
		Kamchatka (h = 60 km).				iPP	22 13 58.9
		m = 6.0, M = 5.0 (Up,Ki).				De	iP1 22 12 16.6 C
"	15	Up	iP 15 01 45.4			iP2	22 12 20.2
		Ki	iP 15 01 30.5			iP3	22 12 22.7
		Sk	iP 15 01 25.9			iPP	22 14 00.9
		Ud	iP 15 01 34.5			Kirghiz-Sinkiang (h = N).	
		De	iP 15 01 44.1			m = 6.5 (P3), M = 6.3 (Up,Ki).	
		Mexico (h = 110 km).				Multiple P-phases, in average	
						3.7 and 6.3 sec delayed,	
						respectively.	
"	15	Ud	i(Sgl) 15 20 56.6	"	15	Up	iP2 22 13 56.7
		De	i(Sgl) 15 20 31.1				micr sec
			i(Rg) 15 20 40.7			P2	Z' 1.0 1.3
"	15	Up	iP 18 11 58.4			Ki	iP1 22 13 47.9 D
			micr sec			iP2	22 13 51.5
		P	Z' 0.1 1.0				micr sec
		Ki	iP 18 11 05.3			P1	Z' 0.1 0.5
		Ud	iP 18 11 58.4			P2	Z' 0.4 1.2
		Aleutian Islands (h = 45 km).				Sk	iP1 22 14 12.6
"	15	Ud	i(P) 19 48 04.9			iP2	22 14 16.7
"	15	Up	iP1 22 11 57.9 C			Um	iP1 22 13 44.8
			iP2 22 12 01.6			iP2	22 13 47.9
			iP3 22 12 03.9				iPP 22 15 16.3
			iPP 22 13 36.4			Ud	iP1 22 14 10.1
			micr sec			iP2	22 14 13.7
		P1	Z' 0.2 1.0			iPP	22 15 53.6
		P3	Z' 1.4 1.1			De	iP2 22 14 16.1
		Mx	E 8.1 8			iPP	22 15 56.6
		Mx	N 20 15			Kirghiz-Sinkiang.	
		Mx	Z 16 8			Origin time = 22 06 10.	
		Ki	iP1 22 11 50.4			m = 6.2 (P2) (Up,Ki).	
			iP2 22 11 54.4			Double P-phases, in average	
			iP3 22 11 57.4			3.6 sec apart.	
			iPP 22 13 34.2	"	15	Up	iP 22 22 17.0
			micr sec			i	22 22 22.1
		P2	Z' 0.2 0.5			Ki	iP 22 22 10.6
		P3	Z' 1.1 1.2			Sk	iP 22 22 36.4
		Mx	E 25 12			i	22 22 41.8
		Mx	N 29 14			Um	iP 22 22 07.3
		Mx	Z 25 11			i	22 22 12.4
		Sk	iP1 22 12 17.2 C			Ud	iP 22 22 33.3
			iP2 22 12 20.9			i	22 22 37.4
			iP3 22 12 23.4			De	iP 22 22 35.7
		(cont.)				Kirghiz-Sinkiang.	
						(cont.)	

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

1971						1971					
June	15	(cont.)				June	15	Up	iP	23 14 52.6	
		Origin time = 22 14 32.						Ki	iP	23 14 46.6	
		Double P-phases, in average						Sk	eP	23 15 12	
		5.0 sec apart, are recorded						Um	iP	23 14 43.2	
		at Up, Sk, Um, Ud.						Ud	iP	23 15 08.1	
"	15	Up	iP1	22 23 35.3 C					i	23 15 11.2	
			iP2	22 23 39.2				De	eP	23 15 10	
			iP3	22 23 41.9				Kirghiz-Sinkiang.			
				micr sec				Origin time = 23 07 08.			
			P1	Z' 0.1 1.0		"	15	Up	iP1	23 25 17.8 C	
			P2	Z' 0.3 1.4					iP2	23 25 23.2	
			P3	Z' 0.1 0.9						micr sec	
		Ki	iP1	22 23 29.5					P2	Z' 0.1 1.0	
			iP3	22 23 36.0				Ki	iP1	23 25 11.7 C	
				micr sec					iP2	23 25 16.6	
			P3	Z' 0.1 0.7						micr sec	
		Sk	iP1	22 23 54.6					P2	Z' 0.1 0.7	
			iP3	22 24 01.5				Sk	iP1	23 25 37.4	
		Um	iP1	22 23 25.8					iP2	23 25 42.5	
			iP2	22 23 29.4				Um	iP1	23 25 08.3	
			iP3	22 23 32.2					iP2	23 25 13.7	
		Ud	iP1	22 23 51.5 C				Ud	iP1	23 25 34.3 C	
			iP2	22 23 55.4					iP2	23 25 39.8	
			iP3	22 23 58.0				De	iP1	23 25 36.4 C	
		De	iP1	22 23 54.0 C					iP2	23 25 40.9	
			iP3	22 24 00.4				Kirghiz-Sinkiang (h = N).			
		Kirghiz-Sinkiang (h = N).						m = 5.6 (Up, Ki).			
		m = 5.6 (P3) (Up, Ki).						Double P-phases, in average			
		Multiple P-phases, 3.8 and						5.2 sec apart, are recorded			
		6.6 sec delayed, respectively.						at all stations.			
"	15	Up	eP	22 36 27		"	15	Up	iP1	23 38 59.4	
		Ki	iP	22 36 20.6					iP2	23 39 05.5	
			i	22 36 25.5				Ki	iP1	23 38 54.0	
		Sk	eP	22 36 46				Sk	iP2	23 39 25.0	
		Um	eP	22 36 18				Ud	iP1	23 39 16.6	
		Ud	iP	22 36 43.1					iP2	23 39 22.1	
			i	22 36 48.6				De	iP1	23 39 18.8	
		Kirghiz-Sinkiang.						Kirghiz-Sinkiang.			
		Origin time = 22 28 43.						Origin time = 23 31 16.			
		Double P-phases, in average						Double P-phases, in average			
		5.2 sec apart, are recorded						5.8 sec apart.			
		at Ki, Ud.									
"	15	Up	iP	23 00 57.8		"	16	Up	iP1	01 06 21.3 C	
				micr sec					iP2	01 06 28.8	
			P	Z' 0.1 1.4					iPP	01 07 59.6	
		Ki	iP	23 02 03.3						micr sec	
				micr sec					P1	Z' 0.3 1.0	
			P	Z' 0.1 1.0					P2	Z' 0.5 1.0	
		Sk	eP	23 01 38					Mx	E 3.0 9	
		Ud	iP	23 01 08.2 C					Mx	N 9.2 15	
		De	iP	23 00 38.7					Mx	Z 5.5 8	
		Turkey (h = N).						Ki	iP1	01 06 15.4	
		m = 5.5 (Up, Ki).							iP2	01 06 22.8	
								(cont.)			

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

1971					1971				
June	16	(cont.)			June	16			
		Ki		micr sec			Ki	iSg1	04 43 43.5
							Sk	eSg1	04 44 13
		P1	Z'	0.3 1.0			Um	iSg1	04 42 22.1
		P2	Z'	0.4 0.9				Lake Ladoga.	
		Mx	E	10 12				Explosion.	
		Mx	N	12 14					
		Mx	Z	9.8 11	"	16	Up	iP	05 49 47.1
		Sk	iP1	01 06 41.1			Ki	iP	05 49 40.8
			iP2	01 06 48.6				i	05 49 45.5
		Um	eP1	01 06 12			Sk	iP	05 50 06.9
			iP2	01 06 19.2				i	05 50 11.0
			iPP	01 07 43.5			Um	iP	05 49 37.9
			iS	01 12 19			Ud	iP	05 50 03.4
		Ud	iP1	01 06 38.8 C				i	05 50 06.0
			iP2	01 06 45.3				Kirghiz-Sinkiang.	
			iPP	01 08 21.9				Origin time = 05 42 03.	
		De	iP1	01 06 39.9					
			iP2	01 06 47.2	"	16	Up	i(pP)	06 17 09.3
			iPP	01 08 25.6			Ki	iP	06 18 18.7
			Kirghiz-Sinkiang (h = N).				Sk	iP	06 17 31.2
			m = 6.0 (P1), 6.1 (P2),				Um	iP	06 17 40.0
			M = 6.0 (Up,Ki).				Ud	iP	06 16 54.3
			Double P-phases, in average					ipP	06 17 03.3
			7.4 sec apart, are recorded					Italy.	
			at all stations.					h = 40 km (Ud).	
			P2 interpreted as pP would		"	16	Ud	iPKP	06 53 27.8
			give a focal depth of 30 km.				De	iPKP	06 53 37.4
"	16	Up	iP2	01 27 16.0	"	16	Up	iPKP	06 54 03.4
		Ki	eP1	01 27 07			Ud	iPKP	06 54 05.0
			iP2	01 27 10.7			De	iPKP	06 54 15.7
		Sk	iP2	01 27 35.1				Alternatively, this may belong	
		Um	eP1	01 27 01				to the preceding event,	
		Ud	iP1	01 27 29.0				possibly as pPKP.	
			iP2	01 27 31.9					
			Kirghiz-Sinkiang.		"	16	Up	iP	08 15 40.4
			Origin time = 01 19 28.					i(pP)	08 15 51.8
"	16	Up	iP	01 47 51.0			Um	iP	08 14 58.1
		Ki	iP	01 47 42.6				i(pP)	08 15 09.5
		Ud	iP	01 48 04.8					
		De	iP	01 48 07.2	"	16	Up	iP	11 04 24.1
			Kirghiz-Sinkiang.					micr sec	
			Origin time = 01 40 05.					Mx	Z 0.3 7
"	16	Up	eP	02 14 32			Ki	iP	11 04 18.0 C
		Ud	iP	02 14 49.2				i	11 04 23.3
			Hindu Kush.					micr sec	
								Mx	E 0.5 12
"	16	Ki	eP	03 20 40				Mx	N 0.3 12
		Sk	iP	03 21 03.7				Mx	Z 0.4 10
		Ud	iP	03 21 01.1			Sk	iP	11 04 43.6
		De	iP	03 21 04.7			Um	iP	11 04 14.8
			Kirghiz-Sinkiang.				Ud	iP	11 04 40.4 C
			Origin time = 03 13 01.					i	11 04 45.6
							De	iP	11 04 42.7
								Kirghiz-Sinkiang (h = N).	

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

1971				1971					
Month	Day	Station	Time	Month	Day	Station	Time		
June	16	Um iSg1	11 23 50.6	June	17	Ud i(Pn)	12 15 27.3		
		Ud i(Sg2)	11 24 33.7			De e(Pn)	12 15 46		
Esthonia. Explosion.				"					
"	16	Ki iP	11 51 56.3	"	17	Um i(P)	13 42 01.1		
		Ud iP	11 52 18.1			Up iP1	15 27 57.9		
Probably Kirghiz-Sinkiang. Origin time = 11 44 18.				Ki iP1				15 27 52.0	
"	16	Ki iP	13 15 05.9	Sk iP1	15 28 17.3	iP2	15 27 57.3		
			i				13 15 10.9	iP2	15 28 22.4
		Ud iP	13 15 28.1	Um iP2	15 27 52.9	Ud iP1	15 28 14.5	iP2	15 28 19.7
			i		13 15 33.5				De iP1
Probably Kirghiz-Sinkiang. Origin time = 13 07 28.				Kirghiz-Sinkiang (h = N). Double P-phases, in average 5.3 sec apart, are recorded at Ki,Sk,Ud.					
"	16	Up iP	13 54 36.4	"	17	Ki iSg1	16 18 34.0		
			micr sec			Sk iSg1	16 18 38.5		
		P	Z' 0.1 1.0			Um iSg1	16 19 01.3		
		Mx	E 0.3 8			Nordland, Norway, 66.5°N, 14.0°E.			
		Mx	N 0.3 8			Origin time = 16 17 05.			
		Mx	Z 0.4 7			Explosion.			
		Ki iP	13 54 30.0 C			"	17	Ki iP	17 38 44.9
			i						13 54 35.1
			micr sec					i	17 39 11.5
		P	Z' 0.1 0.8			Kirghiz-Sinkiang.		Origin time = 17 31 07.	
		Mx	E 0.9 11			"	17	Up iP	18 35 54.7
		Mx	N 0.7 13						i
Mx	Z 0.8 11		micr sec						
Sk iP	13 54 55.9	Ki iP	Z' 0.1 1.3						
Um iP	13 54 26.5				18 35 36.3 C				
Ud iP	13 54 52.7 C				micr sec				
De iP	13 54 54.9			Sk iP	Z' 0.2 1.3				
Kirghiz-Sinkiang (h = N). m = 5.5, M = 4.9 (Up,Ki).						i	18 35 51.3		
"	16	Ud i(P)	14 56 30.4			Um iP	18 35 46.5		
						Ud iP	18 35 57.5 C		
"	16	De i(P)	16 22 06.1			De i(P)	18 36 13.6		
"	16	Up i(P)	19 11 41.1	"	17	Ki iPn	19 30 44.9		
									iP*
"	16	Ki iP	20 16 53.5			iSn	19 31 31.3		
			Sk iP	20 17 15.5			iS*	19 31 44.0	
			Um iP	20 16 52.4			Um eSg1	19 33 17	
			Ud iP	20 17 12.4	Northwest Russia-Norway border region.				
			Burma-India (h = 20 km).				Origin time = 19 29 44. Explosion.		
"	16	Um iP	20 35 16.3						
			Ud iP	20 35 35.7 D					
Pamir.									
"	17	Ki iP	11 36 47.0						
			Sk eP	11 37 24					
			Ud iP	11 37 33.2					

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

1971				1971				
June	17	Up	eP	21 15 03	June	18	Ud iP	12 22 35.1
			i(PP)	21 18 32.4			Greece.	
			iPP	21 19 33.1		"	Ki eP	13 48 28
			iSKS	21 25 31			Um iP	13 48 37.3
			iPKKP	21 30 18.0			Honduras (h = 5 km).	
				micr sec				
			(PP)	Z' 0.1 0.9		"	Ki ePKP	15 28 09
			PP	Z' 0.2 1.0			Um iPKP	15 28 16.5
			Mx	E 91 36			De ePKP	15 28 29
			Mx	N 150 37			Loyalty Islands (h = 30 km).	
			Mx	Z 170 36		"	18 Up i(P)	15 35 09.7 C
		Ki	eP	21 15 25		"	19 Ki iP	00 33 33.5
			iPKP	21 19 06.8			Um iP	00 33 01.7
			iPP	21 20 02.4			Ud iP	00 32 39.1 C
			iSKS	21 25 50			Turkey (h = N).	
			iPKKP	21 30 03.8		"	19 Up iP	04 10 50.4 C
				micr sec			iPn	04 11 50.3
			PKP	Z' 0.1 1.3				micr sec
			PP	Z' 0.5 1.5			P	Z' 0.1 0.5
			Mx	E 52 23			Ki iP	04 10 34.9 C
			Mx	N 16 21			iPn	04 11 30.5
			Mx	Z 75 23			iPP	04 11 48.4
		Sk	eP	21 15 02				micr sec
			iPKP	21 18 49.5			P	Z' 0.3 0.6
			iPP	21 19 30.5			Sk iP	04 11 05.5 C
			iPKKP	21 30 12.7			Um iP	04 10 35.0 C
		Um	i	21 15 58.2			Ud iP	04 11 06.3 C
			iPKP	21 19 08.2			iPn	04 12 16.4
			iPP	21 19 59.2			De iP	04 11 13.5 C
			iSKS	21 25 41			Kazakh SSR.	
			iPKKP	21 30 00.2			m = 6.2 (Up,Ki).	
		Ud	eP	21 14 56			Underground explosion.	
			i(PP)	21 18 21.3		"	19 Ud iP	08 18 14.5
			iPKP	21 18 59.2			Tadzhik SSR.	
			iPKKP	21 30 25.3		"	19 Um iPKP	11 14 42.4
		De	iPKP	21 18 54.4			i	11 14 54.7
			iPKKP	21 30 32.0			De ePKP	11 15 01
			Chile (h = 90 km).				i	11 15 11.2
			m = 6.7, M = 7.3 (Up,Ki).				Loyalty Islands (h = 25 km).	
			The phase denoted (PP) at					
			Up,Ud is probably an early					
			arrival of PP.					
"	17	Up	iPKP	22 42 58.5		"	19 Ki iP	16 23 21.4
			i	22 43 03.6			Kirghiz-Sinkiang.	
				micr sec		"	19 Up iP	17 30 47.2 C
			PKP	Z' 0.1 0.8			i	17 30 52.7
		Sk	iPKP	22 42 52.6			iPP	17 32 30.6
		Um	iPKP	22 42 47.0				micr sec
		Ud	iPKP	22 43 00.0			P	Z' 0.1 1.0
			i	22 43 07.2			Mx	E 3.1 7
		De	iPKP	22 43 08.9			Mx	N 3.2 8
			Kermadec Islands (h = 320 km).				Mx	Z 5.9 8
"	18	Up	eP	01 13 14			(cont.)	
		Um	iP	01 12 52.2				

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

1971				1971						
June	19	(cont.)		June	20					
		Ki	iP	17 30		Up	iSgl	07 28 59.2		
			i	17 30		Ki	eSn	07 25 40		
						Sk	iSgl	07 28 35.1		
						Um	iSgl	07 26 57.3		
						Ud	iSgl	07 29 30.3		
		P	Z'	0.1		Northwest Russia.				
		Mx	E	15		Explosion.				
		Mx	N	7.2						
		Mx	Z	14						
		Sk	iP	17 31		Up	iP	17 27 50.4		
		Um	iP	17 30		Turkey.				
		Ud	iP	17 31						
			i	17 31		"	20	Up	eP	19 02 21
		De	iP	17 31				i	19 02 25.7	
			i	17 31				Ki	eP	19 02 45
			iPP	17 32				i	19 02 50.4	
		Kirghiz-Sinkiang (h = N).							micr	sec
		m = 5.6, M = 5.9 (Up,Ki).						P	Z'	0.1 1.2
		Double P-phases, in average						Sk	eP	19 02 44
		5.6 sec apart, are recorded						i	19 02 51.8	
		at Up,Ki,Ud,De.						Um	iP	19 02 35.5
"	19	Um	e(P)	21 02				i	19 04 56.9	
		Ud	e(P)	21 00				Ud	eP	19 02 32
		De	e(P)	20 59				i	19 02 35.6	
				41				De	eP	19 02 24
"	19	Up	iP	21 16				Indian Ocean (h = N).		
		Ki	iP	21 16		"	20	Up	iP	23 08 34.3 C
		Sk	iP	21 16				Ki	iP	23 07 55.4
		Um	iP	21 16				Sk	iP	23 08 29.2
		Ud	iP	21 16				Um	iP	23 08 12.9 C
		De	iP	21 16				Ud	iP	23 08 42.2 C
		Kirghiz-Sinkiang (h = N).						De	iP	23 08 56.5
"	19	Ki	eP	23 31				Japan (h = 70 km).		
		Revilla Ggedo Islands				"	21	Up	iP	07 29 11.0
		(h = N).						Ki	iP	07 30 36.1
"	20	Up	eP	02 08				Sk	iP	07 29 38.0
		Sk	eP	02 09				Um	iP	07 29 56.0
		Um	iP	02 09				Ud	iP	07 29 03.4
		Ud	iP	02 08				De	eP	07 28 17
		De	iP	02 08				France (h = 5 km).		
		Greece.				"	21	Ud	iP	11 16 02.6
"	20	Ki	ePKP	03 10		"	21	Um	i(P)	11 17 05.5
		Um	iPKP	03 10						
		New Hebrides Islands				"	21	Up	eSgl	13 56 11
		(h = 20 km).						Ud	iSgl	13 55 11.3
"	20	Up	iP	06 02				De	eSgl	13 56 03
		Sk	iP	06 02				Probably south Norway.		
		Um	iP	06 02						
		Ud	iP	06 02		"	21	Um	iP	21 09 35.6
		De	iP	06 01						
		Albania.				"	22	Ud	i(P)	02 10 28.4

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

1971				1971																				
Month	Day	Station	Type	Time	Time	Time	Time																	
June	22	Up	iP	06 37 25.3	June	23	Up	iP	13 29 17.2															
		Ki	iP	06 37 36.1 C			Ki	eP	13 29 20															
		Sk	iP	06 37 51.9			Sk	eP	13 29 37															
		Um	iP	06 37 24.7 C			Ud	iP	13 29 31.4															
		De	iP	06 37 38.7			De	eP	13 29 32															
Hindu Kush (h = 170 km).																								
"	22	Up	iPKP	07 08 24.4	"	23	Um	i(P)	13 55 06.5															
		Ud	iPKP	07 08 24.5			"	23	De	i(P)	15 39 22.9													
		De	iPKP	07 08 36.2					"	23	Um	iP	15 41 34.7											
Fiji Islands (h = 580 km).																								
"	22	Up	iP1	10 33 16.9	"	23	Ud	iP			15 41 41.3													
			iP2	10 33 22.3			Nevada.																	
		Ki	iP1	10 33 11.0			Underground explosion.																	
			iP2	10 33 17.1			"	23	Ud	i(P)	15 46 58.7													
		Sk	iP1	10 33 36.7					"	23	Up	i(Sgl)	16 38 18.7											
			iP2	10 33 42.1			Sk	eSgl			16 40 31													
		Um	iP2	10 33 12.7			Ud	i(Sgl)	16 38 41.1															
		Ud	iP1	10 33 33.1 C			De	i(Pgl)	16 36 27.0															
			iP2	10 33 39.2			"	23	Up	iP	18 07 38.4													
		De	iP1	10 33 35.5					Ki	iP	18 07 39.2													
Kirghiz-Sinkiang (h = 45 km).				Sk	iP	18 07 56.7																		
Double P-phases, in average 5.8 sec apart.				Um	iP	18 07 35.2																		
"	22	Up	iSgl	11 54 40.0	"	23	Ud	iP	18 07 49.5															
		Sk	eSgl	11 56 32			De	iP	18 07 48.9															
		Um	iSgl	11 55 17.5			Andaman Islands (h = 90 km).																	
		Ud	iSgl	11 55 45.9			"	23	Ud	iP	21 18 50.3													
		De	iSgl	11 56 09.2					"	24	Up	iPKP	00 11 51.5 C											
Esthonia, 59.5°N, 25.5°E.																								
Explosion.																								
"	22	Um	iP	13 02 13.9	micr sec																			
		Ud	iP	13 02 29.1	PKP	Z' 0.2	1.5																	
		De	iP	13 02 52.6	Ki	iPKP	00 11 50.3 C																	
"	22	Up	eSgl	14 07 12	micr sec																			
					Ud	iSgl	14 07 25.5	PKP	Z' 0.2	1.0	Sk	iPKP	00 11 58.3 C											
														De	iPgl	14 05 14.8	Um	iPKP	00 11 50.1 C					
																				eSgl	14 05 52	Ud	iPKP2	00 12 11.3
Explosion?	Macquarie Islands (h = N).																							
		"	24	Ud	iP	05 32 24.9																		
							"	24	Ud	iP	06 04 07.6													
												"	23	Up	i(P)	12 34 25.8								
																	Ud	iP	12 34 38.1					
"	24																			De	iP	06 03 37.3		
		"	23	Up	iSgl	12 46 24.2																		
							Sk	eSgl	12 46 21															
										Ud	iSgl	12 45 20.2												
													De	eSgl	12 45 23									
Off coast of south Norway.																								
"	24	Up	iP	14 04 12.6 C																				
					iPcP	14 04 22.7																		
							iS	14 13 56																
									micr sec															
									P	Z' 0.1	0.9													
(cont.)																								



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

1971					1971				
June	24	(cont.)			June	25	(cont.)		
		Up		micr sec			Um	iP	01 19 27.1 C
		Mx	E	2.7 18			Ud	iP	01 19 47.0 C
		Mx	N	3.5 18			De	eP	01 19 46
		Mx	Z	12 18			Nepal.		
		Ki	iP	14 03 48.5 C					
				micr sec	"	25	Ud	iP	06 43 35.3
		P	Z'	0.1 0.6					
		Mx	E	3.6 19		25	Up	iP	08 11 41.3
		Mx	N	2.3 18			Ud	eP	08 11 44
		Mx	Z	3.9 19			De	iP	08 12 03.4
		Sk	iP	14 04 15.4					
		Um	iP	14 03 56.8 C		25	Up	eP	08 25 02
			iPcP	14 04 15.1			Ud	iP	08 25 02.2
			iS	14 13 29			De	iP	08 24 50.2
		Ud	iP	14 04 21.7 C					
			iPcP	14 04 32.2		25	Up	iSgl	10 56 42.9
		De	iP	14 04 30.9			Ki	iPn	10 52 30.6
		Ryukyu Islands (h = 10 km).						eSn	10 53 29
		m = 6.0, M = 5.8 (Up,Ki).						iS*	10 53 48.6
							Sk	eSgl	10 56 18
"	24	Up	iP	14 11 48.4			Um	iSgl	10 54 43.5
		Ki	eP	14 11 15			Ud	eSgl	10 57 18
		Um	iP	14 11 34.0			Northwest Russia, 67.8°N, 33.9°E.		
		Ud	iP	14 11 40.7			Origin time = 10 51 13.		
		Nevada.					Explosion.		
		Underground explosion.							
"	24	Ud	i(Sgl)	15 27 59.5	"	25	Up	iP	11 09 53.4
"	24	Up	iP	18 04 46.1			Sk	iP	11 10 17.9
			i	18 04 50.5			Um	iP	11 09 50.1
				micr sec			Ud	iP	11 10 10.1
		P	Z'	0.1 1.0			De	iP	11 10 07.7
		Ki	iP	18 04 39.3			Tadzhik SSR (h = 140 km).		
		Sk	iP	18 05 04.9	"	26	Up	iP	02 26 54.8 C
			i	18 05 09.0				ipP	02 27 14.3
		Um	eP	18 04 38					micr sec
		Ud	iP	18 05 01.7				pP	Z' 0.1 0.6
			i	18 05 06.2			Ki	iP	02 26 48.2
		Kirghiz-Sinkiang.						ipP	02 27 09.2
		Origin time = 17 57 02.							micr sec
"	24	De	i(Sgl)	19 15 58.2			P	Z' 0.1 1.0	
"	24	Um	eP	23 33 23			pP	Z' 0.1 0.8	
		Ud	iP	23 33 49.1			Sk	iP	02 27 10.1
		Banda Sea (h = N).						ipP	02 27 30.2
"	24	Up	i(P)	23 54 05.4			Um	iP	02 26 46.8 C
		Ud	i(P)	23 54 58.0				ipP	02 27 06.6
"	24						Ud	iP	02 27 08.0 C
								ipP	02 27 27.7
								iPcP	02 27 41.5
"	25	Up	iP	01 19 32.4			De	iP	02 27 09.4
		Ki	eP	01 19 28				ipP	02 27 30.8
		Sk	eP	01 19 53			Burma-India.		
		(cont.)					h = 80 km (Up,Ki,Sk,Um,Ud,De).		
							m = 6.1 (Up,Ki).		

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

1971				1971					
June	26			June	26				
		Sk	eP	04 55 11		Ud	i(P)	17 00 27.2	
		Um	iP	04 55 09.1					
			i	04 55 20.8	"	26	Up	iP	17 07 30.5
		Ud	iP	04 54 33.0			Ud	iP	17 07 44.0
		Greece.					De	eP	17 07 15
"	26	Up	eP	04 57 40	"	26	Ki	iP	18 28 30.6
		Ki	iP	04 57 39.1			Sk	eP	18 28 45
		Sk	iP	04 57 59.3			Um	iP	18 28 25.7
			i	04 58 04.4			Ud	iP	18 28 40.3
		Ud	iP	04 57 56.6	"	26	Up	iP	19 11 32.7
			i	04 57 59.5			Ki	iP	19 11 17.0
"	26	Up	iP	09 07 34.1			Sk	iP	19 11 43.1
			ipP	09 07 45.8			Um	iP	19 11 20.7
		Ki	iP	09 06 52.6 C			Ud	iP	19 11 44.8
			ipP	09 07 05.4			De	iP	19 11 50.6
		Sk	iP	09 07 26.3			China.		
		Um	iP	09 07 10.8	"	26	Up	iP	19 40 08.2
			ipP	09 07 23.7				i	19 40 18.7
		Ud	iP	09 07 41.4				iSKS	19 50 34
			ipP	09 07 54.8				iS	19 50 54
		De	e(pP)	09 08 12					micr sec
		Japan.					P	Z'	0.1 0.8
		h = 45 km (Up,Ki,Um,Ud).					Mx	E	7.7 21
"	26	Up	iPKP	09 44 17.0			Mx	N	5.7 21
		Ki	iPKP	09 44 03.3			Mx	Z	12 20
		Sk	iPKP	09 44 14.8		Ki	iP		19 40 11.4
		Um	iPKP	09 44 09.1			i		19 40 24.7
		Ud	iPKP	09 44 19.0			iPP		19 43 48.5
		De	iPKP	09 44 26.1			iSKS		19 50 38
		New Hebrides Islands					iS		19 51 02
		(h = 130 km).							micr sec
"	26	Ud	i(P)	12 56 26.4			P	Z'	0.1 1.1
"	26	Ud	i(P)	13 46 04.3			Mx	E	11 20
"	26	Um	iP	13 46 54.6			Mx	N	6.0 20
		Ud	eP	13 47 25			Mx	Z	12 20
		Japan (h = 60 km).				Sk	iP		19 40 23.1
"	26	Ud	eP	15 34 49			i		19 40 40.3
		Greece.				Um	iP		19 40 06.9
"	26	Up	iP	15 58 52.1			i		19 40 23.2
		Ki	iP	15 58 55.3			iSKS		19 50 33
				micr sec			Ud	iP	19 40 17.9
		P	Z'	0.1 1.0	"	26	i		19 40 32.6
		Sk	iP	15 58 36.5			De	iP	19 40 15.1
		Um	iP	15 58 57.3			Sumatra (h = 25 km).		
			i	15 59 38.2			m = 6.1, M = 6.2 (Up,Ki).		
		Ud	iP	15 58 39.9	"	26	Up	iP	21 32 59.3 C
		De	iP	15 58 42.4	"	26	Up	iP	22 31 03.7
		North Atlantic Ocean (h = N).					iPcP		22 33 00.8
									micr sec
							P	Z'	0.1 0.7

(cont.)

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

1971 June	26	(cont.)				1971 June	27	(cont.)			
		Ki	iP	22 31	12.4			Up		micr	sec
			i(PcP)	22 33	12.4			PKP	Z'	0.2	0.6
								Ki	iPKP	14 41	02.3
									i	14 41	06.3
			P	Z'	0.1 1.0			Sk	iPKP	14 41	08.8
		Sk	iP	22 31	29.5 C				i	14 41	16.9
		Um	iP	22 31	01.7			Um	iPKP	14 41	03.1
			iPP	22 32	35.7				i	14 41	13.3
		Ud	iP	22 31	20.2			Ud	iPKP	14 41	17.9
		De	iP	22 31	17.1			De	iPKP	14 41	28.8
			iPcP	22 33	03.7				i(pPKP)	14 43	39.2
		Afghanistan-USSR (h = 130 km).						Tonga-Kermadec Islands			
		m = 5.6 (Up,Ki).						(h = 610 km).			
"	26	Up	iP	23 19	44.4	"	27	Up	iPKP	15 57	48.6
		Ki	iP	23 19	46.4			Ud	iPKP	15 57	50.5
		Sk	iP	23 20	07.1			De	iPKP	15 58	01.1
		Um	iP	23 19	39.4			"	27	Up	iP
		Ud	iP	23 20	00.1				Ki	iP	17 04
		De	iP	23 19	59.7				Sk	iP	17 04
		Tadzhik-Sinkiang.							Um	iP	17 04
									Ud	iP	17 04
"	27	Um	e(Sn)	04 13	54				i	17 04	45.7
			iSgl	04 14	23.2			De	eP	17 04	18
		Northwest Russia.						Afghanistan-USSR (h = 140 km).			
		Explosion.						"	27	Up	iP
"	27	Up	iP	08 27	56.5					17 26	39.5
		Um	iP	08 27	45.9 C					micr	sec
		Ud	iP	08 27	58.4				P	Z'	0.1 1.0
"	27	Up	iP	08 42	36.2				Mx	N	0.8 22
		Ki	iP	08 42	39.3				Mx	Z	0.6 17
		Sk	iP	08 42	20.6			Ki	iP	17 25	46.7
		Um	iP	08 42	40.9					micr	sec
		Ud	iP	08 42	23.5				P	Z'	0.2 1.0
		De	iP	08 42	26.6				Mx	E	0.8 20
		Mona Passage (h = 50 km).							Mx	N	0.5 18
"	27	Up	iP	12 11	25.4				Mx	Z	0.7 18
		Ki	iP	12 10	57.1			Sk	iP	17 26	16.7
		Sk	iP	12 11	23.6			Um	iP	17 26	13.0
		Um	eP	12 11	11			Ud	iP	17 26	38.8
		Ud	iP	12 11	33.1			De	iP	17 27	02.0
		Mariana Islands (h = 230 km).						Aleutian Islands (h = 20 km).			
"	27	Up	iP	13 57	53.4	"	27	Up	Mx	18 57	
		Ki	iP	13 58	04.0					micr	sec
		Sk	iP	13 58	19.3				Mx	E	0.6 16
		Um	iP	13 57	52.5				Mx	N	0.9 20
		Ud	iP	13 58	10.0				Mx	Z	1.0 18
		De	iP	13 58	06.1			Ki	Mx	18 55	
		Hindu Kush (h = 140 km).								micr	sec
"	27	Up	iPKP	14 41	15.7 D				Mx	E	1.0 20
		(cont.)							Mx	N	0.6 18
									Mx	Z	1.2 19
								(cont.)			

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

1971				1971			
June	27	(cont.)		June	28	(cont.)	
		New Guinea (h = N).				Um i	14 05 42.3
		M = 5.5 (Up,Ki).				Ud iSgl	14 06 15.2
"	27	Um iP	20 20 52.5			De iSgl	14 06 35.4
"	28	Up iP1	05 11 35.2			Esthonia.	
		iP2	05 11 39.1	"	28	Explosion.	
			micr sec			De iSgl	16 40 00.8
		P2 Z'	0.1 0.7			i	16 40 04.1
		Mx E	0.7 14			Lake Ladoga.	
		Mx N	0.5 15			Explosion.	
		Mx Z	0.9 13	"	28	Up iP	19 58 57.8 C
		Ki iP1	05 11 10.9				micr sec
		iP2	05 11 14.4			P Z'	0.1 1.0
			micr sec			Ki e(P)	19 59 51
		P2 Z'	0.1 0.8				micr sec
		Mx E	0.5 10			Mx E	0.4 9
		Mx N	0.4 13			Mx N	0.3 10
		Mx Z	0.5 12			Mx Z	0.5 11
		Sk iP1	05 11 42.3			Um iP	19 59 06.5
		iP2	05 11 45.7			Ud iP	19 59 08.8
		Um iP1	05 11 18.0			i(pP)	19 59 16.1
		iP2	05 11 21.5			De iP	19 58 51.5
		Ud iP1	05 11 46.9			Caucasus (h = 35 km).	
		iP2	05 11 50.7	"	28	Up i(P)	21 27 29.0
		i	05 12 15.4	"	28	Ki eP	21 41 34
		De iP1	05 11 57.2			Ud iP	21 41 19.0
		iP2	05 12 00.2			Iran (h = N).	
		China (h = N).		"	28	Up iP	21 59 25.6
		m = 6.0, M = 5.1 (Up,Ki).				Ki iP	21 58 32.8
		Double P, about 3 sec apart.				Ud iP	21 59 27.2
		The second onset, interpreted		"	28	Up iP	23 42 52.2
		as pP, gives a focal depth				iS	23 47 07
		of 10 km.					micr sec
"	28	Up iP	05 21 37.3			Mx E	0.8 9
		Ki eP	05 21 14			Mx N	1.7 8
		Um iP	05 21 18.1			Mx Z	2.1 8
		i	05 21 21.8			Ki iP	23 43 58.8
		Ud eP	05 21 48				micr sec
		i	05 21 50.9			Mx E	2.3 7
		China.				Mx N	1.0 13
		Origin time = 05 11 51.				Mx Z	1.4 14
"	28	Ki eP	06 38 55			Sk iP	23 43 35.6
		Sk eP	06 39 29			Um iP	23 43 22.1
		Aleutian Islands (h = 25 km).				i	23 43 38.1
"	28	Ki iP	08 35 16.4			iS	23 48 01
		Aleutian Islands (h = 40 km).				Ud iP	23 43 03.6
"	28	Ud i(P)	13 21 14.5			i	23 43 13.7
"	28	Ki eSgl	14 07 35			De iP	23 42 35.1
		Um iSgl	14 05 37.5			Turkey (h = 5 km).	
		(cont.)				M = 5.1 (Up,Ki).	

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

1971				1971			
June	28			June	29	(cont.)	
		Ud	iP	23	59	38.1	
		Turkey.					
"	29	Up	iP	04	22	49.5	
		Um	iP	04	22	48.0	
		Ud	iP	04	23	06.1	
		De	iP	04	23	03.6	
		Hindu Kush.					
"	29	Up	iP	04	31	42.4	
			iS	04	35	55	
				micr sec			
		Mx	E	0.9	12		
		Mx	N	1.5	8		
		Mx	Z	2.0	8		
		Ki	iP	04	32	48.4	
				micr sec			
		Mx	E	1.0	11		
		Mx	N	0.9	7		
		Mx	Z	0.7	10		
		Sk	eP	04	32	25	
			i	04	32	27.7	
			i	04	33	02.9	
		Um	iP	04	32	13.3	
			iS	04	36	51	
		Ud	iP	04	31	53.7	
		De	iP	04	31	23.5	
			i(pP)	04	31	28.6	
		Turkey (h = 30 km).					
		M = 4.9 (Up,Ki).					
"	29	Ki	iSgl	08	13	15.8	
		Sk	eSgl	08	13	18	
		Um	iSn	08	13	28.1	
			iSgl	08	13	40.7	
		Nordland, Norway,					
		66.5°N, 14.1°E.					
		Origin time = 08 11 44.					
		Explosion.					
"	29	Up	iP1	09	13	39.9	
			iP2	09	13	43.1	
			iS	09	18	14	
				micr sec			
		P2	Z'	0.2	1.1		
		Mx	E	1.0	13		
		Mx	N	1.8	13		
		Mx	Z	1.7	13		
		Ki	iP1	09	14	36.0	
			iP2	09	14	40.0	
				micr sec			
		P2	Z'	0.1	1.0		
		Mx	E	1.3	12		
		Mx	N	1.5	16		
		Mx	Z	2.8	16		
		(cont.)					
		Sk	eP1	09	14	19	
			iP2	09	14	23.4	
		Um	iP1	09	14	04.5	
			iP2	09	14	07.0	
			iS	09	18	52	
		Ud	eP1	09	13	55	
			iP2	09	13	57.1	
		De	iP2	09	13	32.7	
		Turkey (h = 35 km).					
		m = 5.8, M = 5.0 (Up,Ki).					
		Double P-arrivals, about					
		3 sec apart.					
"	29	Ud	iPKP	09	45	49.8	
		De	iPKP	09	46	01.3	
		Tonga Islands (h = 70 km).					
"	29	Up	iP	11	19	11.1	
		Ki	eP	11	20	07	
			i	11	20	10.5	
		Um	iP	11	19	37.6	
		Ud	iP	11	19	28.0	
		De	iP	11	19	02.7	
		Turkey (h = 30 km).					
"	29	De	i(P)	12	22	37.0	
"	29	Ki	i(Sn)	12	23	30.4	
		Northwest Russia.					
		Explosion.					
"	29	Ud	iP	12	43	28.8	
"	29	Sk	eSgl	13	06	51	
		Um	iSgl	13	05	24.2	
		Ud	iSgl	13	06	11.1	
		Eastern Esthonia.					
		Explosion.					
"	29	Up	iP	14	14	03.4 C	
		Ki	iP	14	13	09.5 C	
				micr sec			
		P	Z'	0.1	1.0		
		Sk	iP	14	13	38.3 C	
		Um	iP	14	13	36.7 C	
		Ud	iP	14	14	01.7 C	
		De	iP	14	14	24.9 C	
		Alaska (h = 25 km).					
"	29	Up	iP	15	22	30.7 D	
		Ki	iP	15	21	43.4 D	
		Sk	eP	15	22	19	
		Um	iP	15	22	05.0 D	
		Ud	iP	15	22	35.4 D	
		De	eP	15	22	54	
		Kurile Islands (h = 50 km).					

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

1971						1971						
June	29	Ki	iPP	15 29 38.1		June	29	Ud	iP	22 11 14.5		
		Sk	eP	15 25 46								
			ePP	15 29 33		"	30	Up	iP	04 03 55.5 C		
		Um	iPP	15 29 15.6					iPn	04 04 52.5		
		Ud	iP	15 25 34.3						micr sec		
			iPP	15 29 15.8					P	Z' 0.3 1.0		
		Indian Ocean (h = N).						Ki	iP	04 03 39.5 C		
"	29	Ki	iSgl	17 58 42.0					P	Z' 0.2 1.1		
		Sk	iSgl	17 58 47.5				Sk	iP	04 04 10.4 C		
		Um	iSn	17 58 55.0				Um	iP	04 03 40.2 C		
			iSgl	17 59 09.0				Ud	iP	04 04 12.0 C		
		Nordland, Norway, 66.5°N, 14.1°E. Origin time = 17 57 13. Explosion.						De	iP	04 04 19.3 C		
		Kazakh SSR. m = 6.1 (Up,Ki). Underground explosion.										
"	29	Up	iP	18 41 49.0		"	30	Ki	i(Sgl)	04 18 43.0		
		Ki	eP	18 41 16								
		Um	iP	18 41 34.4		"	30	Up	i(P)	10 54 01.6		
		Ud	iP	18 41 40.9								
		Nevada. Underground explosion.					"	30	Ki	eP	11 29 41	
								Um	iP	11 29 59.9		
"	29	Up	iP	19 17 21.2 C					i	11 30 01.9		
		Ki	iP	19 17 22.9 C				Ud	iP	11 30 30.9		
		Sk	iP	19 17 37.6 C					i	11 30 32.9		
		Um	iP	19 17 18.6 C				Kurile Islands (h = N).				
		Ud	iP	19 17 32.4 C		"	30	Up	iSgl	11 44 49.2		
		De	iP	19 17 30.5 C				Sk	iSgl	11 46 41.4		
		Nicobar Islands (h = 110 km).						Um	iSgl	11 45 22.6		
								Ud	iSgl	11 45 55.5		
"	29	Up		micr sec				Esthonia. Explosion.				
			Mx	N 0.8 21								
			Mx	Z 0.7 18		"	30	Up	i(P)	11 53 48.5		
		Ki	ePKP	20 23 56								
		Sk	iPKP	20 24 07.9		"	30	Up	iP	13 43 47.3		
		Um	iPKP	20 24 03.0				Ki	iP	13 43 35.9		
			i	20 24 24.5					i	13 43 41.4		
		Ud	iPKP	20 24 14.0						micr sec		
		Santa Cruz Islands (h = 45 km).							Mx	E 0.3 12		
									Mx	N 0.4 13		
"	29	Um	eP	20 36 17				Sk	iP	13 44 06.5		
		Ud	iP	20 36 36.9				Um	iP	13 43 37.8		
		South of Japan (h = 30 km).						Ud	iP	13 44 03.5		
"	29	Ki	iPgl	21 06 57.7					i	13 44 06.4		
			iSgl	21 07 23.4				De	eP	13 44 09		
		Um	iSgl	21 09 17.9				Kirghiz-Sinkiang.				
		Northern Norway, near 69.3°N, 17.5°E. Origin time = 21 06 25. Tromsø reading included in the solution.				"	30	Up	i(P)	14 46 59.3		
						"	30	Ki	ePn	14 53 02		
									iSn	14 53 59.8		
								(cont.)				

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

1971

June	30	(cont.)		
		Ki	iS*	14 54 16.7
		Sk	iSgl	14 57 02.8
		Um	eSgl	14 55 38
		Northwest Russia, 69.2°N, 34.0°E. Origin time = 14 51 44. Explosion.		
"	30	Ud	i(P)	15 25 09.4
"	30	Sk	eP	16 01 19
		Ud	iP	16 01 20.5
		Leeward Islands (h = 70 km).		
"	30	Up	i(P)	17 56 23.6 C
"	30	Ki	iSgl	18 04 06.9
		Sk	iSgl	18 04 11.1
		Um	iSn	18 04 20.8
			iSgl	18 04 34.1
		Nordland, Norway, 66.5°N, 14.0°E. Origin time = 18 02 37. Explosion.		
"	30	Ki	iP	19 27 23.5
		Sk	eP	19 27 29
		Ud	iP	19 27 24.6
		Sumatra (h = N).		
"	30	Ud	e(P)	19 49 33

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