



SEISMOLOGICAL INSTITUTE  
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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

JANUARY 1 - 31, 1972  
 .....

1972				1972			
Jan.				Jan.			
1	Ud	ePKP	10 33 37	1	(cont.)		
	De	iPKP	10 33 39.1		De	ePKP	22 25 13
	Solomon Islands (h = 510 km).					iX	22 25 21.9
					Fiji Islands (h = 55 km). M = 6.9 (Up,Ki).		
"	1	Um	iP 13 05 42.4	"	2	Um	iP 02 25 53.4
	Iceland (h = N).				2	Ud	iP 04 08 24.3
"	1	Um	iP 20 32 01.7	"	2	Ud	iP 04 08 24.3
		Ud	iP 20 32 25.5	"	2	Up	iPKP 04 27 37.5
	Molucca Passage (h = 45 km).						micr sec
"	1	Up	iPKP 21 42 02.7			PKP	Z' 0.1 0.6
		iPKP2	21 42 25.9		Um	ePKP	04 27 26
			micr sec			iSKP	04 30 22.7
		PKP	Z' 0.1 0.7		Ud	iPKP	04 27 39.7
	Ki	iSKP	21 44 37.1		De	iPKP	04 27 49.7
	Um	iSKP	21 44 48.0		Tonga-Kermadec Islands (h = 500 km).		
	Ud	iPKP	21 42 04.8 C	"	2	Ud	iP 05 23 21.0
		ipPKP	21 44 09.5	"	2	Um	eP 06 25 08
	De	iPKP	21 42 14.8 C			Ud	eP 06 25 19
	Tonga-Kermadec Islands (h = 480 km).			"	2	Ud	iP 06 32 23.4
"	1	Up	ePKP 22 25 01	"	2	Ud	iP 06 49 17.8
		iSS	22 45 36	"	2	Ud	iP 08 45 52.5
			micr sec	"	2	Ud	iP 09 22 44.3
	Mx	E	13 23			Sk	eP 09 23 24
	Mx	N	26 24			Um	eP 09 23 26
	Mx	Z	30 25			Ud	iP 09 22 49.8
	Ki	eX	22 25 00		Ionian Sea (h = 45 km).		
			micr sec	"	2	Up	iP 10 35 38.8 C
	Mx	E	23 23			i	10 35 59.2
	Mx	N	26 22		(cont.)		
	Mx	Z	20 22				
	Um	iX	22 25 02.4				
		iSS	22 44 46				
	Ud	iPKP	22 25 06.6				
		iX	22 25 16.7				
	(cont.)						

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

1972				1972			
Jan.	2	(cont.)		Jan.	2		
		Up	micr sec			Ud	iP 20 16 54.3
		P	Z' 0.1 1.0	"	2	Ud	iP 20 48 26.5
		Mx	E 0.9 10	"	2	Ud	iP 21 27 55.7
		Mx	Z 1.7 12	"	2	Up	eP 22 09 54
		Ki	iP 10 35 27.0 C				micr sec
		P	Z' 0.1 1.0			Mx	E 1.1 19
		Sk	iP 10 35 55.3			Mx	N 1.1 21
		Um	iP 10 35 26.8			Mx	Z 3.2 23
		Ud	iP 10 35 54.4 C			Ki	iS 22 20 02
		i	10 36 00.9				micr sec
		i	10 36 14.9			Mx	E 1.4 20
		De	iP 10 35 58.9			Mx	N 1.7 20
		i	10 36 20.3			Mx	Z 1.4 17
		Sinkiang (h = N).				Sk	iP 22 09 33.7
		m = 5.5 (Up,Ki).				Um	iP 22 09 53.7
		Double P-phases at Up,Ud				i	22 10 01.9
		and De, in average 21 sec				Mexico (h = 55 km).	
		apart.				M = 5.5 (Up,Ki).	
"	2	Up	iP 17 00 36.3	"	2	Up	iP 22 21 50.7 C
"	2	Ud	iP 17 43 48.7			i	22 22 13.9
"	2	Ud	iP 18 13 49.5				micr sec
"	2	Ud	iP 18 15 26.6			P	Z' 0.1 0.9
"	2	Um	iP 18 26 05.6 C			Ki	iP 22 21 18.7
		Alaska (h = 100 km).					micr sec
"	2	Ud	iP 18 32 18.1			P	Z' 0.1 1.0
"	2	Ud	iP 18 37 09.4			Sk	iP 22 21 47.9
		De	iP 18 37 20.2			Um	iP 22 21 32.5 C
"	2	Up	iPKP 18 56 42.9			i	22 22 03.6
		Sk	iPKP 18 56 37.5			Ud	iP 22 21 57.9 C
		i	18 56 45.4			De	iP 22 22 10.0
		Um	i(PKP) 18 56 26.2			i	22 22 17.1
		iPKP	18 56 31.3			Bonin Islands (h = 55 km).	
		i	18 56 39.1			m = 5.9 (Up,Ki).	
		Ud	i(PKP) 18 56 39.9	"	3	Ud	iP 02 51 12.2
		iPKP	18 56 45.6	"	3	Up	iP 06 47 13.7
		i	18 56 49.9				micr sec
		De	iPKP 18 56 55.7			P	Z' 0.1 1.0
		Kermadec Islands				Ki	iP 06 46 21.4
		(h = 35 km).				ipP	06 46 32.1
"	2	Up	iP 19 47 35.6				micr sec
		Sk	eP 19 47 33			P	Z' 0.1 0.9
		Um	iP 19 47 16.5			Sk	eP 06 46 58
		Ud	eP 19 47 43			Um	iP 06 46 45.9 C
		Japan (h = 60 km).				ipP	06 46 57.1
						Ud	iP 06 47 19.3
						De	iP 06 47 38.3
						Kamchatka.	
						h = 40 km (Ki,Um).	
						m = 6.0 (Up,Ki).	

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

1972

Jan. 3 Ud iP 07 36 53.1  
Venezuela (h = 70 km).

" 3 Um iP 07 51 19.8  
Mexico (h = 25 km).

" 3 Ud iP 09 55 08.4

" 3 Um iP 10 07 59.6  
Ud iP 10 08 17.3  
De iP 10 08 14.3  
Hindu Kush.  
Intermediate depth.

" 3 Ki iP 14 57 03.6

" 3 Up iP 17 17 19.1  
ipP 17 17 35.0  
micr sec

P Z' 0.1 1.1  
Mx E 1.4 18  
Mx N 1.7 19  
Mx Z 2.3 17

Ki iP 17 16 28.9  
iPcP 17 17 13.1  
micr sec

Mx E 2.0 15  
Mx N 2.5 15  
Mx Z 3.4 17

Sk iP 17 17 02.4

Um iP 17 16 54.7

ipP 17 17 09.0

iPcP 17 17 28.1

Ud iP 17 17 20.2

iPcP 17 17 43.7

De eP 17 17 44

ipP 17 17 59.9

Aleutian Islands.  
h = 60 km (Up, Um, De).  
M = 5.5 (Up, Ki).

" 3 Up iP 17 42 27.5  
ipP 17 42 38.7  
Ud iP 17 42 27.6  
i 17 43 03.0

Aleutian Islands.  
h = 40 km (Up).

" 3 Up iP 19 37 13.3  
Ki iP 19 36 21.1  
micr sec  
P Z' 0.1 0.9  
Um iP 19 36 45.7  
Ud iP 19 37 17.2

Aleutian Islands.  
Origin time = 19 26 16.

1972

Jan. 3 Up iP 20 16 59.2  
Ud iP 20 17 00.2

Aleutian Islands (h = 50 km).

" 4 Up iP 00 31 29.6  
micr sec

P Z' 0.1 0.9

Ki iP 00 30 52.0

Sk iP 00 31 24.4

Um iP 00 31 08.1

ipP 00 31 20.0

Ud iP 00 31 37.0

De iP 00 31 51.6

Japan.  
h = 45 km (Um).

" 4 Um eP 00 57 07  
Japan (h = 30 km).

" 4 Ud eP 02 39 34  
Bonin Islands (h = N).

" 4 Up iP 03 28 49.1 C  
ipP 03 29 04.8  
iS 03 38 37  
micr sec

P Z' 0.7 1.1

pP Z' 1.3 1.1

Mx E 210 22

Mx N 370 21

Mx Z 110 16

Ki iP 03 28 25.7 C

ipP 03 28 40.6

iS 03 37 52

micr sec

P Z' 1.1 1.4

pP Z' 1.5 1.4

Mx E 110 15

Mx N 170 15

Mx Z 72 14

Sk iP 03 28 52.9 C

ipP 03 29 08.5

Um iP 03 28 34.1 C

ipP 03 28 49.5

iS 03 38 01

Ud iP 03 28 58.5 C

ipP 03 28 14.5

De iP 03 29 06.2 C

ipP 03 29 22.7

Formosa.  
h = 60 km (Up, Ki, Sk, Um, Ud,  
De).  
m = 6.7, M = 7.6 (Up, Ki).

" 4 Up iP 05 20 44.6  
ipP 05 20 53.3  
(cont.)

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

1972				1972			
Jan.	4	(cont.)		Jan.	4	(cont.)	
		Ki eP	05 20 22			Um iP	18 23 12.8
		Um i(pP)	05 20 38.0			ipP	18 23 28.8
		Ud i(pP)	05 21 02.8			Ud iP	18 23 31.0
		Formosa.				ipP	18 23 46.7
		h = 30 km (Up).				De iP	18 23 36.3
"	4	Up iP	12 27 12.1			Molucca Sea.	
		ipP	12 27 21.4			h = 60 km (Ki,Um,Ud).	
		Ki eP	12 26 51	"	4	Um ePKP	19 52 06
		Um i(pP)	12 27 06.5			Easter Island region	
		i	12 27 20.4			(h = N).	
		Ud e(pP)	12 27 29	"	4	Up iPKP	20 26 00.8
		Formosa.				i(SKP)	20 29 13.3
		h = 35 km (Up).				Um iPKP	20 25 49.9
"	4	Up e	12 53 42			iSKP	20 28 46.8
		i(Sgl)	12 53 48.6			Ud iPKP	20 26 03.1 C
		Ki i	12 51 41.6			De iPKP	20 26 14.0 C
		i(Sgl)	12 52 04.8			i	20 26 15.9
		Um e	12 52 30			Tonga-Kermadec Islands	
		e(Sgl)	12 53 04			(h = 560 km).	
		Norwegian Sea.		"	4	Up iPKP	21 44 30.5
"	4	Ud iP	13 21 14.0			Sk ePKP	21 44 20
		Lake Baikal.				Um iPKP	21 44 13.4
"	4	Sk iP	13 22 16.2			Ud iPKP	21 44 31.7
						De ePKP	21 44 36
"	4	Ud i(Pgl)	14 10 18.8	"	4	Up iSgl	22 57 22.6
		i(Sgl)	14 10 38.5			iRg	22 57 31.3
"	4	Ud iPP	15 54 54.2			Ud iSgl	22 57 01.9
		Hindu Kush.				iRg	22 57 05.0
		Intermediate depth.				Central Sweden.	
						Explosion.	
"	4	Up iP	17 17 38.9	"	5	Up iP	01 09 52.2
		Sk iP	17 16 34.6			Ki iP	01 09 00.2
		i	17 16 46.5			Um iP	01 09 24.5
		Um iP	17 17 19.0			Ud iP	01 09 52.8
		i	17 17 22.7			Aleutian Islands (h = 50 km).	
		Ud iP	17 17 04.9	"	5	Ki iP	01 12 29.4
		Iceland.				Sk eP	01 12 25
"	4	Up iP	18 13 25.5			Um iP	01 12 03.2
		Ki iP	18 13 12.3			Ud iP	01 12 04.5
		Sk eP	18 13 32			De iP	01 11 47.2
		Um iP	18 13 16.1			Iran (h = 45 km).	
		Ud iP	18 13 34.3	"	5	Up iS	05 02 43.6
		De iP	18 13 39.8			iLgl	05 04 17.7
		Molucca Sea (h = 70 km).				Sk eP	05 01 28
"	4	Up iP	18 23 22.4			iLgl	05 06 17.9
		Ki iP	18 23 07.9			Um eP	05 01 35
		ipP	18 23 24.2			iLgl	05 06 22.1
		Sk iP	18 23 28.5			Ud eP	05 00 46
		(cont.)				(cont.)	

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

1972

Jan. 5 (cont.)  
Ud iLgl 05 04 26.7  
De iP 04 59 48.9  
Austria (h = 10 km).

" 5 Sk eP 05 58 35  
Um iP 05 58 12.1  
Ud iP 05 58 32.2

" 5 Um eP 06 08 42  
Ud iP 06 08 12.7  
iPcP 06 08 51.2  
Atlantic Ocean (h = N).

" 5 Ud iP 08 20 43.5  
Afghanistan.

" 6 Ud iP 00 31 18.3  
Hindu Kush,  
Intermediate depth.

" 6 Up eP 00 44 53  
iPKP 00 48 37.5  
ipPKP 00 49 20.8  
Ki iP 00 44 23.7  
iPKP 00 48 27.1  
ipPKP 00 49 16.2  
PKP Z' 0.1 1.3  
Sk iP 00 48 38.1  
ipPKP 00 49 16.8  
Um iP 00 44 34.9  
iPKP 00 48 32.9  
ipPKP 00 49 16.5  
Ud eP 00 44 59  
iPKP 00 48 41.6  
iPP 00 49 44.8  
De iP 00 48 46.7  
ipPKP 00 49 27.9

New Britain.  
h = 160 km (Up, Ki, Sk, Um,  
De).

" 6 Sk ePKP 01 42 44  
Um iP 01 42 38.9  
i 01 42 50.3  
Ud iP 01 42 51.2  
i 01 43 00.2

" 6 Um iP 03 13 38.6  
Ud iP 03 14 09.1 C  
Japan (h = 55 km).

" 6 Ki micr sec  
Mx E 0.9 14  
Mx N 0.8 15  
Mx Z 0.8 15  
(cont.)

1972

Jan. 6 (cont.)  
Ud iP 04 26 36.1  
North Atlantic Ocean  
(h = N).

" 6 Sk eP 05 47 16  
North Atlantic Ocean  
(h = N).

" 6 Sk eP 05 48 03.2  
Ud iP 05 48 13.5  
i 05 48 22.4  
i 05 48 34.5  
North Atlantic Ocean  
(h = N).

" 6 Ud iP 06 38 13.7  
Kirghiz SSR (h = N).

" 6 Sk iP 06 45 35.2 C  
Um iP 06 45 14.6  
Ud iP 06 45 39.9 C  
Ryukyu Islands (h = 15 km).

" 6 Up iP 07 03 28.2  
Sk iP 07 03 17.7  
Um iP 07 03 12.3  
Ud iP 07 03 25.6  
De ePKP 07 03 33  
Kermadec Islands (h = 40 km).

" 6 Up i 07 04 53.5  
Um iP 07 04 21.3  
i 07 04 36.1  
Ud iP 07 04 33.4  
i 07 04 48.6

" 6 Ud iP 07 11 47.5

" 6 Up iP 09 48 37.7 C  
Ki iP 09 49 17.8 C  
Sk iP 09 49 14.1 C  
Um iP 09 48 52.7 C  
Ud iP 09 48 53.6 C  
De iP 09 48 36.9  
Iran (h = 40 km).

" 6 Up iSgl 12 22 14.4  
Ki eSgl 12 24 07  
Sk eSgl 12 23 57  
Um iSgl 12 22 26.9  
Ud iSgl 12 23 11.6  
De eSgl 12 23 43  
Western USSR.  
Explosion.

" 6 Um iP 12 32 50.3  
Fiji Islands (h = N).

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

1972				1972			
Jan.	6	Ud iP	13 17 09.7	Jan.	7	(cont.)	
		Hindu Kush,				Um e(Sgl)	10 48 03
		Intermediate depth.				Northwest Russia.	
						Origin time = 10 44 24.	
"	6	Ud iP	15 57 37.9			Explosion.	
		De eP	15 57 52				
"	6	Ki iSgl	16 23 39.4	"	7	Ud i(Sn)	12 58 51.6
		Sk iSgl	16 23 44.0			i(Sgl)	12 59 11.3
		Um iSgl	16 24 06.5	"	7	Um i(P)	13 23 34.7
		Ud eSgl	16 25 33	"	7	Ud iP	16 20 44.3
		Nordland, Norway,				i	16 20 51.2
		66.5°N, 14.0°E.		"	7	Ud iP	20 33 26.6
		Origin time = 16 22 09.				Aleutian Islands (h = 35 km).	
		Explosion?		"	7	Um iP	20 42 45.9
"	6	Ud ePKP	17 15 43			Ud iP	20 42 49.8
		Chile (h = 30 km).				Caucasus.	
"	7	Ki iP	02 47 12.6	"	7	Ki iP	21 39 24.2
"	7	Um iP	03 40 15.5			i	21 39 38.7
		Japan (h = 60 km).		"	7	Ud iPKP	23 51 59.3
"	7	Up iP	06 40 02.3			De iPKP	23 52 10.5
		i(PP)	06 43 49.0			Fiji Islands (h = 600 km).	
			micr sec	"	8	Up ePKP	03 27 18
		Mx E	2.8 21			Um ePKP	03 27 12
		Mx N	6.7 22			Ud i(PKP)	03 27 09.2
		Mx Z	4.3 21			iPKP	03 27 15.8
		Ki iP	06 39 41.5			De iPKP	03 27 21.7
		i(PP)	06 43 26.4			Tonga Islands (h = N).	
			micr sec	"	8	Ud iP	03 46 22.8
		Mx E	3.4 20	"	8	Up iP	05 39 50.2 C
		Mx N	5.2 22			iS	05 49 44
		Mx Z	4.1 22				micr sec
		Sk iPKP	06 44 10.9			P	Z' 1.6 1.3
		Um iP	06 39 49.7			Mx E	120 15
		iPKP	06 44 03.3			Mx N	42 15
		Ud iP	06 40 09.7			Mx Z	170 15
		i(PP)	06 43 49.5			Ki iP	05 39 29.0 C
		De iP	06 40 18.0			iS	05 49 03
		iPKP	06 44 19.6				micr sec
		New Guinea (h = N).				P	Z' 1.6 1.3
		M = 6.2 (Up,Ki).				Mx E	43 11
		(PP) are probably early				Mx N	43 13
		arrivals of PP.				Mx Z	36 11
"	7	Ud iSgl	08 53 55.9			Sk iP	05 39 54.9
		De i(Sn)	08 53 35.0			Um iP	05 39 34.8
		Esthonia.				iS	05 49 18
		Explosion.				Ud iP	05 39 58.9
"	7	Ki ePn	10 45 42			De iP	05 40 07.0 C
		iSn	10 46 40.7			(cont.)	
		Sk eSgl	10 49 28				
		(cont.)					

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

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Jan. 8 (cont.)  
Formosa-Luzon (h = N),  
m = 7.0, M = 7.2 (Up,Ki).

"	8	Up	iP	05 47 30.2
			ipP	05 47 41.9
				micr sec
			P	Z' 0.1 1.2
		Ki	iP	05 47 08.7
				micr sec
			P	Z' 0.1 1.2
		Sk	iP	05 47 34.9
		Um	iP	05 47 15.8
			ipP	05 47 27.8
		Ud	iP	05 47 39.5
			ipP	05 47 51.3
		De	iP	05 47 47.2

Formosa-Luzon.  
h = 45 km (Up,Um,Ud).  
m = 5.8 (Up,Ki).

" 8 Ud iP 05 58 45.3

"	8	Up	eP	06 05 31
			ipP	06 05 41.1
		Um	iP	06 05 17.2
			ipP	06 05 27.6
		Ud	iP	06 05 41.2
			ipP	06 05 50.6

Formosa-Luzon.  
h = 35 km (Up,Um,Ud).

"	8	Up	iP	06 21 46.6
			ipP	06 21 57.9
				micr sec
			P	Z' 0.1 1.4
		Ki	eP	06 21 24
		Um	iP	06 21 32.7
			ipP	06 21 42.4
		Ud	iP	06 21 55.8

Formosa-Luzon.  
h = 40 km (Up,Um).

"	8	Up	iP	06 36 43.3
			ipP	06 36 55.4
		Ki	iP	06 36 22.0
		Um	iP	06 36 29.3
			ipP	06 36 39.9
		Um	iP	06 36 52.9
			ipP	06 37 03.8

Formosa-Luzon.  
h = 40 km (Up,Um,Ud).

"	8	Up	iP	08 26 18.1
			ipP	08 26 26.2

(cont.)

1972

Jan. 8 (cont.)

		Up		micr sec
			pP	Z' 0.2 1.2
			Mx	E 2.6 14
			Mx	N 2.0 14
			Mx	Z 4.6 14
		Ki	iP	08 25 55.7
			ipP	08 26 04.6
				micr sec
			pP	Z' 0.1 1.3
			Mx	E 2.2 17
			Mx	N 2.6 20
			Mx	Z 1.4 11
		Sk	iP	08 26 25.7
			ipP	08 26 33.1
		Um	iP	08 26 02.8
			ipP	08 26 11.8
		Ud	iP	08 26 27.5
			ipP	08 26 35.5
		De	eP	08 26 35
			ipP	08 26 42.8

Formosa-Luzon.  
h = 30 km (Up,Ki,Sk,Um,Ud,De).  
m = 5.9, M = 5.8 (Up,Ki).

"	8	Up	iP	08 56 12.0
		Ki	iP	08 55 18.9
		Sk	iP	08 55 46.8
		Um	iP	08 55 46.1
		Ud	iP	08 56 09.5
		De	eP	08 56 34

Alaska.

"	8	Ki	iPn	10 40 37.8
			iSn	10 41 25.5
			iS*	10 41 43.3
		Um	iSgl	10 43 09.9

Northwest Russia-Norway  
border region,  
69.5°N, 30.7°E.  
Origin time = 10 39 35.  
Explosion.

"	8	Ud	iP	11 13 47.0
		De	iP	11 13 56.7

"	8	Up	iPKP	11 53 34.1
			ipPKP	11 53 51.7
				micr sec

		Mx	E	1.2 21
		Mx	N	1.9 21
		Mx	Z	2.7 20

Ki	iPKP	11 53 49.2
	ipPKP	11 54 07.2

(cont.)

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

1972				1972			
Jan.	8	(cont.)		Jan.	8		
		Ki				Up	ePKP 21 53 02
			micr sec			Ki	iPKP 21 52 41.0
		PKP	Z' 0.1 0.7				micr sec
		pPKP	Z' 0.2 1.0				PKP Z' 0.1 0.8
		Mx	E 1.4 18			Sk	iPKP 21 52 55.2
		Mx	N 2.8 21			Um	iPKP 21 52 49.2
		Mx	Z 1.4 20				New Zealand (h = 35 km).
		Sk	ePKP 11 53 39		"	8	Ki iPKP 21 55 59.9
			iPP 11 55 18.1				Um iPKP 21 56 10.1
		Um	iPKP 11 53 41.3				New Zealand.
			ipPKP 11 53 59.8				
			iPP 11 55 29.6		"	8	Sk iP 22 48 29.5
		Ud	iPKP 11 53 31.7		"	9	Um eP 11 55 21
			ipPKP 11 53 49.8				Ud iP 11 55 41.3
			iPP 11 54 56.8				Philippine Islands.
			ipPP 11 55 19.7		"	9	Up iSgl 12 27 00.4
		De	ipPKP 11 53 42.7				Ki i(Sgl) 12 27 49.2
			South Sandwich Islands.				Sk eSgl 12 28 11
			h = 60 km (Up,Ki,Um,Ud).				Um iSgl 12 26 25.5
			M = 6.0 (Up,Ki).				Ud eSgl 12 28 02
"	8	Up	iSgl 12 03 00.6				De eSgl 12 28 44
		Ki	e(S*) 12 05 11				Lake Ladoga,
			eSgl 12 05 24				61.2°N, 31.0°E.
		Um	iS* 12 03 31.2				Origin time = 12 23 30.
			iSgl 12 03 35.3				Explosion.
		Ud	iSgl 12 04 03.3		"	9	Sk iP 13 10 26.2
			Esthonia.		"	9	Sk iP 14 11 02.5
			Explosion.				Ud eP 14 11 34
"	8	Ki	e(Sgl) 12 50 30				Kamchatka (h = N).
		Um	i(Sgl) 12 51 40.1		"	9	Up iP 17 01 18.2
"	8	Um	iSgl 13 07 39.1				Afghanistan-USSR.
			Western USSR.		"	10	Ki iP 02 10 04.7
			Explosion.				Sk iP 02 10 20.0
"	8	Up	iP 14 44 12.4				Um iP 02 10 01.8
			micr sec				Ud iP 02 10 15.2
			P Z' 0.1 1.2				Sumatra (h = 80 km).
		Ki	iP 14 43 51.1		"	10	Ki eP 02 22 51
		Sk	eP 14 44 19				Sk eP 02 23 26
		Um	iP 14 43 58.1		"	10	Up iP 05 35 50.4
		Ud	iP 14 44 21.9				ipP 05 35 58.5
		De	eP 14 44 31				Ki iP 05 35 29.0
			Formosa-Luzon (h = N).				ipP 05 35 37.7
"	8	Ki	eP 17 24 06				Sk iP 05 35 55.4
		Um	eP 17 24 19				Um iP 05 35 36.1
			Mariana Islands (h = 25 km).				ipP 05 35 44.9
"	8	Ki	iP 17 38 45.4 C				Ud iP 05 36 00.1
		Sk	eP 17 38 23				ipP 05 36 08.1
		Um	iP 17 38 19.5				(cont.)
			Congo (h = N).				



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

1972				1972			
Jan.	10	(cont.) Formosa-Luzon. h = 30 km (Up,Ki,Um,Ud).		Jan.	11	Um iP	01 04 47.2 Japan (h = 370 km).
"	10	Ki iP	09 18 11.2	"	11	Um iP	01 12 27.8
		Ud iP	09 18 22.0	"	11	Um iP	02 10 37.5
"	10	Up iP	10 10 05.7			Ud iP	02 11 04.0
		Ki iP	10 09 38.2	"	11	Um iP	03 15 01.7
			micr sec			Ud iP	03 14 35.9
		P	Z' 0.1 0.9			North Atlantic Ocean (h = N).	
		Sk iP	10 10 03.4	"	11	Ud eP	05 38 34
		Um iP	10 09 50.3 C	"	11	Up i(Sn)	12 09 19.4
		Ud iP	10 10 12.4			iSgl	12 09 32.9
		De iP	10 10 23.6			Sk eSgl	12 11 23
		Mariana Islands (h = 350 km).				Um iSgl	12 10 06.6
"	10	Um iSgl	11 38 54.6			Ud iSgl	12 10 34.7
		Ud iSgl	11 39 24.4			De eSgl	12 11 02
		Esthonia. Explosion.				Esthonia, 59.5°N, 25.1°E. Origin time = 12 07 32. Explosion.	
"	10	Ud iP	12 52 28.0	"	11	Up eSgl	13 02 55
"	10	Ud iP	15 17 48.1			Ki e(Sgl)	13 05 50
		De eP	15 17 18			Sk eSgl	13 04 54
		Dodecanese Islands (h = 40 km).				Um iSgl	13 03 44.6
"	10	Up iP	19 32 21.1 C			De eSgl	13 04 22
			micr sec			Esthonia, 59.3°N, 23.8°E. Origin time = 13 01 15. Explosion.	
		P	Z' 0.1 0.7	"	11	Sk iSgl	13 31 17.2
		Ki iP	19 31 47.8 C			Ud iSgl	13 30 43.4
			micr sec			i	13 30 53.9
		P	Z' 0.1 0.8			De eSgl	13 31 34
		Sk iP	19 32 18.3 C			iSg2	13 31 44.1
		Um iP	19 32 02.0 C			Southwest Norway. By combination with Kongsberg readings.	
		ipP	19 33 47.3	"	11	Up iSgl	14 17 23.5
		Ud iP	19 32 28.5 C			Ki i(Sgl)	14 19 57.5
		iPP	19 35 33.3			Sk iSgl	14 19 14.4
		De iP	19 32 40.8 C			Um iSgl	14 17 59.4
		South of Japan. h = 490 km (Um). m = 5.4 (Up,Ki).				Ud eSgl	14 18 29
"	10	Ud iP	19 41 04.1			De eSgl	14 18 51
"	10	Ki e(Sgl)	19 52 16			Esthonia, 59.4°N, 25.1°E. Origin time = 14 15 23. Explosion.	
		Sk i(Sgl)	19 51 47.6	"	11	Up iP	15 57 38.3
		Um e(Sgl)	19 52 33			Um iP	15 57 19.0
		Probably Nordland, Norway.				Ud iP	15 57 48.7
"	10	Um eP	20 38 16				
		Ud eP	20 38 27				
		Java (h = 25 km).					

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

1972						1972					
Jan.	11	Ki	iPn	19 44 03.9		Jan.	12	(cont.)			
			iP*	19 44 11.8				Ki	iP	13 57 49.6	
			iSn	19 44 50.2						micr sec	
			iS*	19 45 02.8					Mx	N 1.7 18	
		Sk	eSgl	19 47 56				Sk	iP	13 57 19.9 D	
		Um	iSgl	19 46 38.9				Um	iP	13 57 14.3 D	
		Northwest Russia-Norway						Ud	iP	13 56 48.2 D	
		border region,						De	iP	13 56 14.3 D	
		69.7°N, 30.1°E.							i	13 56 18.1	
		Origin time = 19 43 03.						Crete (h = 50 km).			
		Explosion.						M = 4.8 (Up,Ki).			
"	12	Up	eSgl	05 12 45		"	12	Um	iP	14 14 09.7	
		Sk	iSgl	05 12 31.8				Tanimbar Islands (h = 5 km).			
		Ud	iSgl	05 11 45.2				"	12	Up	
		Southeast Norway.							iP1	18 45 06.0 C	
		Solution checked with							iP3	18 45 40.7	
		NORSAR readings.							iPP	18 46 48.4	
"	12	Up	iP	08 22 26.7						micr sec	
		Ki	iP	08 23 25.2					P1	Z' 0.1 0.7	
				micr sec					P3	Z' 0.6 1.5	
			P	Z' 0.1 0.8				Ki	iP1	18 45 08.7 C	
		Sk	iP	08 23 04.8					iP2	18 45 33.9	
		Um	iP	08 22 53.1					iP3	18 45 44.4	
		Ud	iP	08 22 36.9						micr sec	
		Egypt (h = 55 km).							P1	Z' 0.1 0.5	
"	12	Up	iP	10 11 34.8 D					P2	Z' 0.6 0.8	
			ipP	10 13 39.9					Mx	N 1.7 8	
				micr sec				Sk	iP1	18 45 29.2 C	
			P	Z' 0.2 1.1					iP2	18 45 55.2	
		Ki	iP	10 11 42.2 D					iP3	18 46 04.9	
			ipP	10 13 46.8				Um	iP1	18 45 01.4 C	
			iPKKP	10 28 18.6					iP2	18 45 27.4	
				micr sec					iP3	18 45 36.7	
			P	Z' 0.2 1.1					iS	18 51 08	
		Sk	iP	10 11 26.1 D				Ud	iP1	18 45 22.9 C	
			ipP	10 13 28.3					iP2	18 45 47.9	
			iPKKP	10 28 29.2					iP3	18 45 58.5	
		Um	iP	10 11 41.0 D				De	iP1	18 45 21.2 C	
			ipP	10 13 46.4					iP2	18 45 46.4	
			iS	10 22 14					iP3	18 45 56.9	
			iPKKP	10 28 18.8					iPP	18 47 05.8	
		Ud	iP	10 11 25.9 D				Tadzhik-Sinkiang (h = 80 km).			
			i	10 11 35.4				m = 6.4 (Up,Ki).			
			ipP	10 13 30.9				P1, P2 and P3 denote multiple			
		De	iP	10 11 25.0 D				P-phases: P2 - P1 = 25.4 sec,			
		Brazil.						P3 - P1 = 35.4 sec.			
		h = 580 km (Up,Ki,Sk,Um,Ud).					"	12	Up	eP	20 30 34
		m = 6.3 (Up,Ki).							Ki	iP	20 29 36.9
"	12	Up	iP	13 56 40.8						i(pP)	20 29 50.3
				micr sec					Um	i(pP)	20 30 16.0
			Mx	N 2.0 16					Ud	iP	20 30 39.7
			Mx	Z 1.9 18				Kamchatka (h = N).			
		(cont.)					"	13	Um	iPKP	04 28 00.0
								(cont.)			

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1972				1972			
Jan.	13	(cont.) Um ipPKP	04 28 20.3	Jan.	14	Ki eP	00 13 36
		Chile-Argentina.				Um iP	00 13 41.7
		h = 80 km (Um).				Ud iP	00 14 02.6
						Mindoro (h = 130 km).	
"	13	Ki iP	09 36 45.8	"	14	Ud iP	02 10 53.4
		Ud iP	09 36 49.6			Afghanistan-USSR	
		Afghanistan-USSR.				(h = 110 km).	
"	13	Sk eSgl	11 45 38	"	14	Ki iP	03 28 28.5
		Ud iSgl	11 45 21.3			Um iP	03 29 00.0
		Southwest Norway.				Bering Strait (h = N).	
		By combination with					
		Kongsberg readings.					
"	13	Um iSgl	13 32 15.5	"	14	Ki iP	04 17 25.1
		Ud i(Sgl)	13 33 00.0			Um iP	04 17 30.0
		Western USSR.				Ud iP	04 17 47.8
		Explosion.				Celebes Sea (h = 570 km).	
"	13	Up iP	14 05 06.9 C	"	14	Sk i(Sgl)	04 57 50.1
		iPcP	14 05 33.5	"	14	Sk i(Sgl)	07 18 36.5
		Ki iP	14 04 19.0 C	"	14	Um iSgl	14 56 26.4
		Sk iP	14 04 54.5			Western USSR.	
		Um iP	14 04 40.3			Explosion.	
		Ud iP	14 05 12.3 C	"	14	Ud iP	19 45 19.9
		Kurile Islands (h = 60 km).				Ionian Sea.	
"	13	Up iP	17 33 26.9	"	14	Ki eP	20 03 34
			micr sec			iS	20 04 42.5
		P Z'	0.1 1.0			iT	20 08 54.9
		Mx E	1.0 13			Sk iP	20 04 13.3
		Mx N	1.7 16			Um iP	20 04 18.9
		Mx Z	3.3 19			iS	20 06 09.4
		Ki iP	17 32 34.9			Norwegian Sea.	
		iPP	17 34 16.6			Origin time = 20 01 53.	
			micr sec	"	14	Up iP	22 16 38.2 C
		P Z'	0.1 1.0			Ki iP	22 17 21.9 C
		Mx E	3.0 18				micr sec
		Mx N	3.1 16			P Z'	0.2 0.9
		Mx Z	1.8 16			Sk iP	22 17 15.9 C
		Sk iP	17 33 16.8			Um iP	22 16 55.3 C
		Um iP	17 33 02.2			Ud iP	22 16 53.6 C
		i	17 33 40.3			De iP	22 16 35.0 C
		Ud iP	17 33 38.2			Iran-Iraq (h = N).	
		i	17 34 18.7	"	14	Ki iP	22 33 45.7
		De iP	17 34 01.7			Ud iP	22 34 36.3
		Siberia (h = N).				Vancouver Island (h = N).	
		m = 5.7, M = 5.4 (Up,Ki).		"	14	Um iP	22 47 31.1
"	13	Ki iP	17 50 26.4	"	15	Up e(PKP)	03 58 16
		Formosa.				iSKP	04 01 49.1
"	13	Sk i(Sgl)	21 22 27.4			(cont.)	
"	13	Um iP	22 11 31.5				
		Mexico (h = N).					

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1972				1972				
Jan.	15	(cont.)		Jan.	15	Ki	ePn	15 56 18
		Up	iPKS				iSn	15 57 05.0
		Ki	iPKP				iS*	15 57 17.3
			iSKP					Probably northwest Russia- Norway border region. Origin time = 15 55 17. Explosion.
		Sk	ePKP					
			iSKP					
		Um	iPKP					
			iSKP					
		Ud	i(PKP)	"	15	Up	iP	18 16 40.5
			i(PKP)				ipP	18 16 44.5
			iPKP			Ki	iP	18 15 51.3
			iSKP				ipP	18 15 54.8
			iPKS			Sk	iP	18 16 33.4
		De	i(PKP)				ipP	18 16 37.1
			iPKP			Um	iP	18 16 12.9
						Ud	iP	18 16 49.8 C
		Tonga Islands (h = 130 km).					ipP	18 16 53.3
						De	iP	18 17 14.1
"	15	Ki	iPn					Eastern Russia. h = 15 km (Up, Ki, Sk, Ud).
			iSn					
			iSgl					
		Um	iSgl					
		Northwest Russia-Norway border region, 69.5°N, 31.0°E. Origin time = 10 02 00. Explosion.		"	15	Ki	i(Sn)	18 37 14.0
							i(Sgl)	18 37 36.3
"	15	Up	iP					
		Ki	eP					
		Ud	iP					
		De	eP					
		Turkey.		"	15	Up	iP	19 33 55.8
						Ki	iP	19 33 44.6
						Sk	iP	19 33 37.4
						Um	iP	19 33 53.4
								Mexico-Guatemala (h = N).
"	15	Up	iSn					
			iSgl					
		Ki	e(Sg2)					
		Sk	eSgl					
		Um	iSgl					
		Ud	eSn					
			eSgl					
		De	iSgl					
		Esthonia, 59.5°N, 24.8°E. Origin time = 12 17 40. Explosion.		"	15	Up	iP	20 29 40.8
							iPP	20 31 19.8
							iS	20 35 56
								micr sec
							P	Z' 0.5 1.4
							Mx	E 33 16
							Mx	N 39 15
							Mx	Z 48 15
						Ki	iP	20 29 35.2
							i	20 29 40.4
							iPP	20 31 16.6
								micr sec
							P	Z' 0.6 1.5
							Mx	E 120 15
							Mx	N 32 13
							Mx	Z 100 15
"	15	Ki	iSgl					
		Sk	iSgl			Sk	iP	20 29 59.7
		Um	iSgl				i	20 30 05.0
		Ud	e(Sgl)				iPP	20 31 50.0
		Nordland, Norway, 66.5°N, 14.0°E. Origin time = 12 33 05. Explosion.				Um	iP	20 29 32.3
							i	20 29 37.5
							iPP	20 31 02.4
							iS	20 35 42
"	15	Ud	eP			Ud	iP	20 29 55.2
							i	20 30 01.4
							iPP	20 31 39.8

(cont.)

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

1972				1972			
Jan.	15	(cont.)		Jan.	16	(cont.)	
		De eP	20 29 58			Ki iS	07 57 45.3
		i	20 30 03.3			Um eP	07 56 57
		iPP	20 31 44.8			iS	07 59 17.8
		Sinkiang (h = N). m = 6.1, M = 6.8 (Up,Ki). Double P, in average 5.5 sec apart, or alternatively, P and pP with a focal depth of 20 km.				Svalbard. Probably from the same area as the preceding event. Origin time = 07 53 46.	
"	15	Ud iPKP	21 05 31.9	"	17	Ki iP	04 28 54.1
		De ePKP	21 05 45			iPcP	04 29 39.2
		Fiji Islands (h = 250 km).				Ud iP	04 29 47.7
						Kurile Islands (h = 130 km).	
"	15	Ki iP	23 53 44.6	"	17	Ki eP	06 00 54
			micr sec			Dodecanese Islands.	
		Mx E	0.8 13	"	17	Up iP	21 55 18.1 C
		Mx Z	0.9 16			ipP	21 55 30.5
		Sk eP	23 54 08				micr sec
		Um iP	23 53 38.3			P	Z' 0.1 1.3
		Ud eP	23 54 06			Ki iP	21 55 18.8 C
		Sinkiang (h = N).				ipP	21 55 28.4
							micr sec
"	16	Up iSgl	03 24 42.1			P	Z' 0.1 1.3
		Ki iPn	03 20 28.6			Mx N	1.7 18
		iSn	03 21 25.6			Sk iP	21 55 41.5
		iSgl	03 21 45.8			Um iP	21 55 21.6
		Sk eSgl	03 24 14			Ud iP	21 55 24.4
		Um i(Sn)	03 22 05.8			Sumatra. h = 40 km (Up,Ki). m = 6.0 (Up,Ki).	
		iSgl	03 22 40.3				
		Ud iSgl	03 25 11.3	"	18	Up iP	00 28 14.2 C
		Northwest Russia, 67.8°N, 33.6°E. Origin time = 03 19 13. Explosion.				ipP	00 28 22.2
							micr sec
"	16	Ud iP	05 16 32.8			P	Z' 0.1 0.9
		(Formosa).				Ki iP	00 27 19.9 C
						ipP	00 27 27.6
							micr sec
"	16	Ud iP	05 48 53.1			P	Z' 0.1 1.0
		Greece.				Sk iP	00 27 47.3 C
						ipP	00 27 55.0
"	16	Ki iP	06 33 27.2			Um iP	00 27 48.5 C
		i	06 33 40.5			ipP	00 27 56.0
		iS	06 35 14.4			Ud iP	00 28 11.2 C
		Sk eP	06 34 30			ipP	00 28 18.7
		Um iP	06 34 20.7			De iP	00 28 34.8 C
		i	06 34 35.3			ipP	00 28 42.9
		iS	06 36 45.9			Kodiak Island. h = 30 km (Up,Ki,Sk,Um,Ud, De). m = 5.9 (Up,Ki).	
		Ud iP	06 35 12.9				
		De eP	06 36 00	"	18	Ki iP	02 27 02.5
		Svalbard. Origin time = 06 31 12.				Mariana Islands (h = 150 km).	
"	16	Ki eP	07 56 02				
		(cont.)					



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

1972				1972			
Jan.	19	(cont.)		Jan.	20	Um iP	18 24 56.6
		Sk iSgl	20 16 09.4			Japan (h = 60 km).	
		Um iSn	20 16 15.1				
		iSgl	20 16 29.0	"	20	Ki iP	21 36 36.8
		Nordland, Norway,					
		66.5°N, 14.2°E.		"	21	Ki iP	01 15 10.7
		Origin time = 20 14 35.				Sk e(P)	01 15 36
		Explosion?				Um iP	01 15 10.0
						Ud iP	01 15 22.4
"	19	Ki iPKP2	20 42 25.3			Sumatra.	
		Um iPKP2	20 42 13.3	"	21	Ud iP	04 19 02.0
		Macquarie Islands (h = N).					
"	20	Ki iP	00 58 40.7	"	21	Ki ePKP	04 59 28
		Ud iP	00 57 43.4			Um iPKP	04 59 41.8 C
		De eP	00 57 18			i	04 59 45.5
		Dodecanese Islands (h = N).				Ud iPKP	04 59 54.4 C
"	20	Ki iP	02 21 27.8 C			South of Kermadec Islands.	
		Sk iP	02 21 01.2 C	"	21	Up iSgl	10 53 48.5
		Ud iP	02 20 30.4 C			Ki iPn	10 49 34.7
		De iP	02 20 00.5 C			iSn	10 50 33.1
		Dodecanese Islands (h = N).				iS*	10 50 53.5
"	20	Um iPKP	06 58 28.1			Sk iSgl	10 53 22.1
		Ud iPKP2	06 58 55.3			Um iSn	10 51 12.6
		Kermadec Islands (h = N).				iSgl	10 51 47.4
"	20	Sk iP	09 33 44.6			Ud iSgl	10 54 21.7
		Alaska (h = 140 km).				De eSgl	10 55 46
"	20	Up iP	11 43 52.1 C			Northwest Russia,	
		iPP	11 45 27.2			67.7°N, 33.9°E.	
		micr sec				Origin time = 10 48 17.	
		P Z' 3.4 1.2				Explosion.	
		Ki iP	11 44 00.9 C	"	21	Up iP	11 12 36.7
		iPP	11 45 40.9			i	11 12 38.8
		micr sec				Sk iP	11 12 39.8
		P Z' 3.7 1.3				Um iP	11 12 20.0
		Sk iP	11 44 17.6 C			Ud iP	11 12 45.9
		iPP	11 45 57.8			i	11 12 48.3
		Um iP	11 43 51.1 C			De eP	11 12 56
		iPP	11 45 22.8			Ryukyu Islands (h = 60 km).	
		Ud iP	11 44 08.6 C	"	21	Um iP	12 37 11.7
		iPP	11 45 46.9				
		iS	11 50 16.7	"	21	Up iP	12 38 05.1
		De iP	11 44 04.6 C			Ud iP	12 38 19.6
		iPP	11 45 43.8	"	21	Up eP	15 42 21
		iS	11 50 07.8			Ki iP	15 42 00.0
		Hindu Kush (h = 210 km).				Um iP	15 42 07.2
		m = 6.8 (Up, Ki).				Ud iP	15 42 25.7
"	20	Um iP	12 18 12.0			Mindanao (h = 180 km),	
		Greece.		"	21	Um iP	15 54 21.1
"	20	Um i(Sgl)	12 30 05.3			Off coast of Oregon	
						(h = N).	

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

1972				1972				
Jan.	21	Up	iP	19 31	22.9	Jan.	22	(cont.)
			ipP	19 33	26.7			Western USSR.
				micr sec				Explosion.
			P	Z'	0.1 1.0			
		Ki	iP	19 31	29.5	"	22	Up iP 12 09 39.1
			ipP	19 33	33.4			Ki iP 12 09 03.9 C
		Sk	iP	19 31	13.7			Sk eP 12 09 32
			ipP	19 33	19.6			Um iP 12 09 19.0 C
		Um	iP	19 31	29.0 D			Ud iP 12 09 47.0 C
			ipP	19 33	31.8			South of Japan (h = 160 km).
		Ud	iP	19 31	13.9 D			
			ipP	19 33	18.6	"	22	Up iP 13 21 25.0
		De	iP	19 31	12.3 D			ipP 13 21 43.3
			ipP	19 33	13.5			isP 13 21 56.0
		Brazil.						iS 13 31 44
		h = 570 km (Up, Ki, Sk, Um, Ud, De).						micr sec
								P Z' 0.1 1.2
"	21	Um	iP	22 44	46.0			sP Z' 0.2 1.3
		Ud	eP	22 45 04	C			Mx E 4.9 23
								Mx N 2.9 23
"	22	Up	iPKP	01 01	17.6			Mx Z 11 23
		Um	ePKP	01 01	11			Ki iP 13 21 14.1
			iSKP	01 04	01.8			ipP 13 21 33.7
		Ud	iPKP	01 01	20.5			isP 13 21 45.4
		De	iPKP	01 01	29.9			iPP 13 24 31.4
								micr sec
"	22	Um	iP	01 51	28.3			P Z' 0.4 1.6
								sP Z' 0.4 1.3
"	22	Up	iSgl	05 24	52.8			Mx E 6.1 20
		Sk	eSgl	05 25	17			Mx N 6.1 21
		Ud	eSn	05 23	23			Mx Z 9.3 22
			iSgl	05 23	59.3			Sk iP 13 21 07.7
		De	iSgl	05 23	24.5			ipP 13 21 26.6
		North Sea.						Um iP 13 21 23.1
"	22	Ud	iP	06 24	47.7			ipP 13 21 40.0
								isP 13 21 53.8
"	22	Ki	eP	07 25	36			iPP 13 24 46.0
		Sk	iP	07 26	16.9			iS 13 31 45
		Um	iP	07 26	00.0			Ud iP 13 21 16.0 C
		Ud	iP	07 26	31.7 C			ipP 13 21 33.9
		Sakhalin (h = 55 km).						isP 13 21 44.6
								iPP 13 24 32.8
"	22	Ki	iPn	09 15	56.8			De iP 13 21 23.4
			iSn	09 16	45.8			ipP 13 21 40.6
			iSgl	09 17	02.0			isP 13 21 51.7
		Northwest Russia-Norway border region.						Guatemala.
		Explosion.						h = 70 km (Up, Ki, Sk, Um, Ud, De).
								m = 6.0, M = 6.0 (Up, Ki).
"	22	Up	iP	11 01	30.5			
		Ud	iP	11 01	16.0 C			
"	22	Um	iSgl	12 03	12.4			
		Ud	iSgl	12 03	57.1			
		(cont.)						
"	22	Up	ePKP	22 10	12			
				micr sec				
			Mx	E	3.4 22			
			Mx	N	5.0 23			
			Mx	Z	7.9 23			
		(cont.)						



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

1972

Jan. 22 (cont.)  
 Ki micr sec  
 Mx E 3.4 20  
 Mx N 3.9 19  
 Mx Z 4.7 19  
 Um iPKP 22 09 56.0  
 Ud ePKP 22 10 13  
 De ePKP 22 10 23  
 New Hebrides Islands  
 (h = N).  
 M = 6.3 (Up,Ki).

" 22 Um iPKP 22 12 00.0  
 Ud iPKP 22 12 10.7  
 South of Kermadec Islands.

" 22 Ud iPKP 22 56 49.5  
 De ePKP 22 56 56  
 Tonga Islands (h = 140 km).

" 23 Up iP2 02 16 56.4 C  
 micr sec  
 P2 Z' 0.1 1.0  
 Mx N 1.3 18  
 Mx Z 1.5 19  
 Ki iP1 02 16 41.0  
 iP2 02 16 43.5  
 micr sec  
 P2 Z' 0.1 1.1  
 Mx E 1.2 19  
 Mx N 1.3 17  
 Sk eP1 02 17 06  
 iP2 02 17 08.0  
 Um iP1 02 16 43.0  
 iP2 02 16 45.7 C  
 Ud iP1 02 17 06.0  
 iP2 02 17 08.8 C  
 De iP2 02 17 13.6 C  
 China (h = N).  
 m = 6.0, M = 5.2 (Up,Ki).  
 P1 and P2 denote double  
 P-phases, in average 2.7  
 sec apart.

" 23 Ud iP 05 39 30.0

" 23 Ud iP 08 41 26.5  
 Kamchatka.

" 23 Up iP 11 46 45.8  
 Ki iP 11 45 53.1 D  
 Sk eP 11 46 25  
 Um iP 11 46 19.2  
 Ud iP 11 46 46.6 D  
 De iP 11 47 08.6  
 Aleutian Islands  
 (h = 100 km).

1972

Jan. 23 Um iPKP 13 12 22.1  
 Ud iPKP 13 12 30.2  
 De iPKP 13 12 40.8  
 Fiji Islands (h = 600 km).

" 23 Ki iP 15 18 34.4 C  
 Japan (h = 40 km).

" 23 Um iP 17 27 07.0 C

" 23 Ki ePKP 17 37 31  
 Um iPKP 17 37 35.0 C  
 Ud iSKP 17 41 12.8  
 De eSKP 17 41 19  
 New Hebrides Islands  
 (h = N).

" 23 Ki iPKP 18 22 52.1  
 Um iPKP 18 22 56.2  
 Ud iSKP 18 26 34.2  
 New Hebrides Islands  
 (h = 35 km).

" 23 Up iPKP 21 36 58.5  
 iX 21 37 25.7  
 iY 21 37 48.4  
 iZ 21 38 16.3  
 i 21 49 48.3  
 iPKKS 21 49 56.2  
 micr sec  
 Mx E 35 22  
 Mx N 60 22  
 Mx Z 96 22  
 Ki iPKP 21 36 41.3  
 iX 21 37 08.7  
 i 21 37 50.4  
 iZ 21 37 55.6  
 i 21 46 47.1  
 iPKKP 21 47 06.4  
 iPKKS 21 50 07.3  
 micr sec  
 Mx E 50 24  
 Mx N 40 23  
 Mx Z 32 21  
 Sk iPKP 21 36 53.2  
 iX 21 37 20.0  
 iY 21 37 40.8  
 Um iPKP 21 36 46.9  
 i 21 37 07.6  
 iPKKP 21 46 50.5  
 iPKKS 21 49 58.4  
 Ud iPKP 21 37 01.0  
 iY 21 37 50.4  
 iPKKS 21 49 51.3  
 De i(PKP) 21 36 57.5  
 iPKP 21 37 07.5  
 (cont.)

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

1972				1972			
Jan.	23	(cont.)		Jan.	24	Sk eP	09 50 11
		De i	21 37 23.6			Ki iP	09 52 25.2
		iSKP	21 40 36.8	"	24	Um iP	09 52 18.2
		New Hebrides Islands				Ud iP	09 51 47.7
		(h = N).				North Atlantic Ocean	
		M = 7.3 (Up,Ki).				(h = N).	
		X(Up,Ki,Sk), Y(Up,Sk,Ud),		"	24	Ki iP	12 31 44.6
		Z(Up,Ki) mark three				Mindoro (h = 50 km).	
		unidentified phases.		"	24	Ud iSn	15 16 53.5
"	23	Up iPKP	21 53 45.9			iSgl	15 17 10.7
		PKP Z'	0.1 1.4			Southwest Norway.	
		Ki ePKP	21 53 30			By combination with	
		PKP Z'	0.1 1.0			Bergen readings.	
		Sk iPKP	21 53 41.2	"	24	Ki iP	17 35 04.3
		Um iPKP	21 53 35.7			Sk iP	17 35 33.1
		iSKP	21 56 32.7			Um iP	17 35 35.5
		Ud iPKP	21 53 48.5			Ud i(P)	17 35 50.2
		De iPKP	21 53 55.1			Alaska (h = 30 km).	
		New Hebrides Islands		"	24	Up iPKP	19 57 31.9 C
		(h = N).				ipPKP	19 57 58.4
"	24	Um iPKP	03 54 57.8			PKP Z'	0.3 1.0
		New Hebrides Islands				Sk ePKP	19 57 22
		(h = 60 km).				Um iPKP	19 57 21.0
"	24	Up	micr sec			Ud iPKP	19 57 33.9 C
		Mx E	2.3 20			ipPKP	19 58 01.4
		Mx N	5.1 19			De iPKP	19 57 43.5 C
		Mx Z	6.4 19			Tonga-Kermadec Islands.	
		Ki	micr sec			h = 100 km (Up,Ud).	
		Mx E	2.0 16	"	24	Up iP	23 04 20.2 C
		Mx N	3.1 19			P Z'	0.1 0.8
		Um iPKP	04 14 39.8			Ki iP	23 03 35.8 C
		New Hebrides Islands				P Z'	0.1 0.8
		(h = 30 km).				Sk eP	23 04 12
		M = 6.3 (Up,Ki).				Um iP	23 03 55.9
"	24	Up iP	04 42 39.2 D			Ud iP	23 04 27.0 C
		Ki iP	04 42 24.2 D			De iP	23 04 45.1
		Sk iP	04 42 44.7 D			Japan (h = 140 km).	
		Um iP	04 42 28.9 D			m = 5.8 (Up,Ki).	
		Ud iP	04 42 47.0 D	"	25	Ki iP	01 14 44.0
		De iP	04 42 53.1			Chagos Islands (h = N).	
		Celebes Sea (h = 420 km).		"	25	Up iP	02 18 17.6
"	24	Up iP	06 02 05.1			i	02 18 19.6
		Ki iP	06 01 49.4			iS	02 28 03
		Um iP	06 01 56.9			micr sec	
		Ud iP	06 02 16.9			P Z'	2.9 1.3
		Luzon (h = 80 km).				(cont.)	
"	24	Um iPKP	06 24 27.0				
		New Hebrides Islands.					

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

1972				1972			
Jan.	25	(cont.)		Jan.	25	(cont.)	
		Up	micr sec			Ki	iP 05 49 28.2
		Mx	E 1360 22				iPP 05 51 06.3
		Mx	N 2420 21			Sk	iP 05 49 44.7
		Ki	iP 02 17 54.3				iPP 05 51 28.6
			i 02 17 56.4			Um	iP 05 49 17.3
			iS 02 27 22				iPP 05 50 55.0
			micr sec			Ud	iP 05 49 34.9
		P	Z' 1.5 1.0				iPP 05 51 20.4
		Sk	iP 02 18 22.4			De	iP 05 49 30.6
			i 02 18 29.5			Hindu Kush (h = 70 km).	
		Um	iP 02 18 02.3		"	25	Ki eP 08 14 51
			i 02 18 04.8			Sumatra (h = 60 km).	
			iS 02 27 33		"	25	Ud iP 10 13 12.2
		Ud	iP 02 18 27.0			Kamchatka (h = N).	
			i 02 18 29.3		"	25	Um iP 11 31 09.2
		De	iP 02 18 35.9				Ud iP 11 31 41.1
			i 02 18 43.9			Japan (h = 110 km).	
		Formosa (h = N).			"	25	Up iP 15 16 44.2
		m = 7.2 (Up,Ki), M = 8.5					micr sec
		(Up).					P Z' 0.1 0.8
		Mx (Up) were measured on				Ki	iP 15 16 15.1
		Wiechert records in this					micr sec
		and the following case.					P Z' 0.2 1.0
"	25	Up	iP 03 53 14.1			Sk	iP 15 16 41.0
			i 03 53 16.7			Um	iP 15 16 27.8
			iS 04 03 04			Ud	iP 15 16 51.2
			micr sec			De	iP 15 17 02.3
		P	Z' 0.7 0.9			Volcano Islands (h = 220 km).	
		Mx	E 300 23			m = 5.8 (Up,Ki).	
		Mx	N 470 23		"	25	Ud iP 20 28 46.6
		Ki	iP 03 52 51.8			Italy (h = N).	
			i 03 52 54.0		"	25	Ki iP 21 14 31.9
			iS 04 02 20				Ud eP 21 15 04
			micr sec			Formosa (h = 35 km).	
		P	Z' 1.4 1.2		"	25	Ki eP 22 55 09
		Mx	E 260 19				Um iP 22 55 08.3
		Mx	N 360 19				Ud iP 22 55 45.9
		Mx	Z 210 14		"	25	Up iP 23 21 53.2
		Sk	iP 03 53 20.1				Ki iP 23 21 24.8
		Um	iP 03 53 00.0				Um iP 23 21 35.7
			i 03 53 01.9				Ud iP 23 22 01.7
		Ud	iP 03 53 24.6			Ryukyu Islands (h = 20 km).	
			i 03 53 26.7		"	26	Um iP 03 31 38.2
		De	iP 03 53 34.2		"	26	Up iP 03 54 35.5 C
		Formosa (h = N).					ipP 03 55 17.9
		m = 6.8, M = 7.7 (Up,Ki).				(cont.)	
		Double P, in average 2.5				(cont.)	
		sec apart; cf preceding				(cont.)	
		event.				(cont.)	
"	25	Up	iP 05 49 18.0		"	26	Um iP 03 31 38.2
			iPP 05 50 52.8		"	26	Up iP 03 54 35.5 C
			micr sec				ipP 03 55 17.9
		P	Z' 0.1 1.1			(cont.)	
		(cont.)				(cont.)	

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

1972				1972			
Jan.	26	(cont.)		Jan.	26	Up	iPKP 23 18 29.2 C
		Ki	iP 03 54 34.0 C				iSKP 23 21 14.1
			ipP 03 55 18.3				micr sec
							PKP Z' 0.5 0.9
							SKP Z' 1.2 0.9
		Sk	iP 03 54 49.4 C			Ki	i(PKP) 23 18 10.0
		Um	iP 03 54 32.2				iPKP 23 18 22.4
			ipP 03 55 13.1				iSKP 23 20 49.1
		Ud	iP 03 54 45.0				iPKS 23 21 47
			ipP 03 55 27.7				micr sec
		De	iP 03 54 43.5				PKP Z' 0.3 0.7
		Sumatra.				Sk	iPKP 23 18 22.1
		h = 170 km (Up,Ki,Um,Ud).					i 23 18 33.3
"	26	Um	iP 03 58 15.7				iSKP 23 21 06.6
		Ud	iP 03 58 17.6			Um	i(PKP) 23 18 16.6 C
"	26	Up	iP 04 42 32.2				iPKP 23 18 24.2
			i 04 42 39.2				i 23 18 30.5
		Ki	iP 04 41 42.9				iSKP 23 21 01.8
			i 04 41 49.8				i 23 21 05.9
		Sk	iP 04 42 19.3				iSKKP 23 30 16.8
		Um	iP 04 42 05.5 D			Ud	iPKP 23 18 30.5
			i 04 42 12.4				i 23 18 32.0
		Ud	iP 04 42 37.9				iSKP 23 21 15.4
			i 04 42 44.6			De	iPKP 23 18 40.4
		De	iP 04 42 57.0				iSKP 23 21 21.1
		Okhotsk Sea.					iSKKP 23 29 39.1
		Deep.				Fiji Islands (h = 670 km).	
"	26	Up	iP 13 23 15.4	"	26	Up	iSKP 23 29 49.5
		Um	iP 13 23 04.0			Ud	iPKP 23 27 08.6
"	26	Um	iP 14 39 09.1				iSKP 23 29 51.1
		Ud	iP 14 39 35.0			De	iPKP 23 27 18.3 C
"	26	Ki	iSgl 15 53 32.0				iSKP 23 30 00.2
		Sk	iSgl 15 53 35.4			Fiji Islands (h = 690 km).	
		Um	iSn 15 53 45.6	"	26	Up	iPKP 23 50 39.8
			iSgl 15 53 59.0				iSKP 23 53 23.1
		Nordland, Norway,					micr sec
		66.5°N, 14.0°E.					SKP Z' 0.1 0.9
		Origin time = 15 52 02.				Ki	iPKP 23 50 32.4
		Explosion.					iSKP 23 52 58.6
"	26	Up	iP 19 03 24.8			Sk	iPKP 23 50 33.0
		Um	iP 19 03 00.5				iSKP 23 53 15.7
		Ud	iP 19 03 31.7			Um	i(PKP) 23 50 27.3
			ipP 19 03 47.5				iPKP 23 50 39.0
		Japan.					iSKP 23 53 10.4
		h = 60 km (Ud).				Ud	i 23 54 26.6
"	26	Ud	iP 21 31 36.5 D				i(PKP) 23 50 40.0
"	26	Ki	i(Sgl) 21 40 43.9				iPKP 23 50 42.0
							iSKP 23 53 24.3
						De	iPKP 23 50 50.9
							iSKP 23 53 33.7
						Fiji Islands (h = 690 km).	
"	27	Ud	ePKP 04 31 59	"	27	Ud	ePKP 04 31 59
			(cont.)				(cont.)

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

1972

Jan. 27 (cont.)  
 Ud iSKP 04 34 42.9  
 De iPKP 04 32 09.5 C

" 27 Ki eP 06 43 09  
 i 06 43 19.3

" 27 Up iSgl 14 09 43.3  
 Sk eSgl 14 11 26  
 Um iSgl 14 09 59.0  
 Ud eSgl 14 10 43  
 Western USSR,  
 Explosion.

" 27 Um iP 14 52 01.7  
 Japan (h = 60 km).

" 27 Um iP 18 08 54.7 D  
 Ud eP 18 09 08

" 27 Um iP 18 58 33.2  
 Ecuador (h = 100 km).

" 27 Ki iP 21 39 35.0

" 27 Ki eP 21 46 48

" 28 Up i(PKP) 01 35 19.0  
 iPKP 01 35 27.1  
 iSKP 01 38 46.0  
 micr sec  
 PKP Z' 0.1 0.8  
 Mx N 5.1 30  
 Mx Z 4.3 30  
 Ki iPKP 01 35 12.2 C  
 iSKP 01 38 26.8  
 micr sec  
 PKP Z' 0.3 1.0  
 Mx E 1.5 19  
 Mx N 4.7 21  
 Sk e(PKP) 01 35 18  
 iPKP 01 35 24.3  
 iSKP 01 38 41.5  
 Um i(PKP) 01 35 12.1  
 iPKP 01 35 18.4  
 iSKP 01 38 32.2  
 Ud i(PKP) 01 35 19.0  
 iPKP 01 35 27.7  
 iSKP 01 38 48.4  
 De i(PKP) 01 35 23.9  
 i 01 35 25.9  
 iSKP 01 38 56.6  
 New Hebrides Islands  
 (h = 120 km).  
 M = 6.3 (Up,Ki).  
 M uncorrected for focal  
 depth.

1972

Jan. 28 Um iP 02 45 03.6  
 iPP 02 47 53.3  
 Ud eP 02 45 25  
 Formosa.

" 28 Up ePP 10 37 11  
 Ki eP 10 35 45  
 Sk iP 10 35 51.7  
 ePP 10 37 38  
 Um iP 10 35 27.6  
 iPP 10 37 14.8  
 Ud iP 10 35 39.4  
 iPP 10 37 25.3  
 Pakistan (h = N).

" 28 Ki iPn 12 59 19.7  
 iPgl 12 59 27.9  
 iSn 13 00 06.0  
 iS\* 13 00 20.8  
 Um eSn 13 01 16  
 iSgl 13 01 56.5  
 Ud eSgl 13 04 19  
 Northwest Russia-Norway  
 border region,  
 69.8°N, 30.0°E.  
 Origin time = 12 58 19.  
 Explosion.

" 28 Up iP 13 01 38.0  
 Ud eP 13 01 32

" 28 Um eSgl 14 35 42  
 Western USSR.  
 Explosion.

" 28 Up iP 16 30 23.3 D  
 micr sec  
 P Z' 0.1 1.3  
 Mx E 1.2 13  
 Mx Z 1.7 13  
 Ki iP 16 30 02.3  
 micr sec  
 P Z' 0.1 1.4  
 Mx E 0.6 15  
 Mx N 1.3 15  
 Um iP 16 30 09.3 D  
 Ud iP 16 30 33.1 D  
 Formosa-Luzon (h = N).  
 m = 5.8, M = 5.4 (Up,Ki).

" 28 Um iP 18 29 35.6  
 Ud iP 18 29 29.9

" 28 Ki iSgl 19 21 16.6  
 Sk iSgl 19 21 21.6  
 Um iSn 19 21 29.6  
 (cont.)

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

1972				1972					
Jan.	28	(cont.)		Jan.	29	Up	iSgl	12 43 21.3	
		Um	iSgl	19 21 44.1		Ki	e(Sg2)	12 45 41	
		Ud	e(Sg2)	19 23 10		Sk	e(Sgl)	12 45 11	
		Nordland, Norway,				Um	iSn	12 43 17.1	
		66.5°N, 14.0°E.					iSgl	12 43 40.7	
		Origin time = 19 19 46.				Ud	iSgl	12 44 23.5	
		Explosion.				Estonia, 59.6°N, 26.5°E.			
		Origin time = 12 41 00.				Explosion.			
"	28	Up	iP	20 36 55.6	"	29	Um	eSgl	12 58 59
		Ki	eP	20 36 49			Ud	eSgl	12 59 42
		Sk	eP	20 37 14			Western USSR.		
		Um	iP	20 36 50.5			Explosion.		
		Ud	iP	20 37 11.5					
			i	20 37 16.6					
		Tien-Shan.							
"	28	Ud	iP	22 56 53.8	"	29	Ki	iP	17 44 37.1
"	29	Um	ePKP	00 51 17	"	29	Ki	iP	21 21 02.6
		Ud	ePKP	00 51 19			Um	iP	21 21 13.6
		New Zealand.				Mariana Islands (h = 80 km).			
"	29	Um	iP	00 58 56.2	"	29	Up	iPKP	23 02 39.1
		Ud	eP	00 59 28			Um	iPKP	23 02 25.7
"	29	Up	ePKP	02 06 09			Ud	iPKP	23 02 41.4
		Um	iPKP	02 06 02.0			De	iPKP	23 02 52.2
		Ud	iPKP	02 06 10.5 C	"	30	Ki	iP	02 51 40.7
		De	iPKP	02 06 21.4			Um	iP	02 51 37.2
		Sumatra.							
"	29	Um	i(Sgl)	06 01 04.1	"	30	Um	iP	03 00 30.4
"	29	Um	iP	06 30 11.6			South of Japan (h = 25 km).		
"	29	Um	iPKP2	06 37 48.7	"	30	Um	iP	12 16 09.3
		South Pacific Ocean							
		(h = N).							
"	29	Ki	iP	06 57 39.3	"	30	Ki	iP	17 44 36.2
		Sk	iP	06 57 58.1			Um	eP	17 44 55
		Um	iP	06 57 31.4				i	17 45 04.3
		Ud	iP	06 57 49.7			Ud	eP	17 45 17
		Kashmir-India (h = 60 km).				Mariana Islands (h = N).			
"	29	Ki	iP	07 34 03.0	"	30	Ki	iP	20 31 24.1
			i	07 34 18.6				micr sec	
		Um	i(P)	07 35 11.7			P	Z'	0.1 1.0
"	29	Um	iP	09 41 31.7			Sk	iP	20 32 13.1
"	29	Ki	eP	09 59 29			Um	iP	20 32 10.0
		Ud	iP	09 59 14.1			Ud	eP	20 32 52
"	29	Um	iP	09 41 31.7				i(Pn)	20 33 13.7
		Arctic Ocean (h = N).							
"	29	Ki	eP	09 59 29	"	30	Um	iP	22 23 38.9
		Ud	iP	09 59 14.1			Celebes (h = 130 km).		
"	29	Um	iP	11 23 32.2	"	31	Um	iPKP	01 00 21.4
		Ud	iP	11 24 01.9			Fiji Islands (h = 480 km).		
		Japan (h = 20 km).							

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

1972

Jan.	31	Up	eP	06 01 48
		Ki	iP	06 00 54.5
		Sk	iP	06 01 25.4
		Um	iP	06 01 21.2
			iPcP	06 01 56.8
		Ud	iP	06 01 47.1
		De	eP	06 02 10
		Aleutian Islands (h = 50 km).		
"	31	Um	iP	10 23 21.9
		Japan (h = 70 km).		
"	31	Um	iSgl	12 26 03.9
		Esthonia. Explosion.		
"	31	Ki	e(Sgl)	12 54 56
		Um	iSgl	12 53 12.9
		Ud	iSgl	12 53 56.8
		Western USSR. Explosion.		
"	31	Sk	eSgl	14 16 42
		Um	iSgl	14 15 08.6
		Ud	eSgl	14 15 53
		Esthonia. Explosion.		
"	31	Um	iSKP	19 27 31.6
		Ud	iPKP	19 24 52.7
		De	ePKP	19 25 04
		Tonga-Kermadec Islands (h = 550 km).		

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April 1, 1974

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SWEDEN

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

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

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

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

F E B R U A R Y 1 - 29, 1972

1972					1972				
Feb.	1	Up	iP	00 35 21.5 D	Feb.	1	(cont.)		
				micr sec			De	iSg1	13 02 45.5
			P	Z' 0.3 0.9			Baltic Sea, south of Sweden.		
		Ki	iP	00 34 28.3 D			Origin time = 13 02 13.		
				micr sec			Explosion.		
			P	Z' 0.1 0.7					
		Sk	iP	00 35 01.1 D	"	1	Up	iSg1	13 05 31.8
		Um	iP	00 34 58.9 D			De	iPg1	13 03 34.4
		Ud	iP	00 35 22.6 D				iSg1	13 03 49.5
		De	iP	00 35 44.7 D			Baltic Sea, south of Sweden.		
		Aleutian Islands					Origin time = 13 03 16.		
		(h = 55 km).					Explosion.		
		m = 6.3 (Up,Ki).							
"	1	Up	eP	02 25 40	"	1	Up	iSg1	13 11 23.6
		Ki	iP	02 25 20.1			De	iPg1	13 09 26.5
		Sk	eP	02 25 45				iSg1	13 09 42.9
		Um	iP	02 25 27.4			Baltic Sea, south of Sweden.		
		Ud	iP	02 25 50.2			Origin time = 13 09 06.		
		Luzon (h = 20 km).					Explosion.		
"	1	Ki	ePKP	02 56 13	"	1	Up	iSg1	13 27 55.0
				micr sec			Ud	iSg1	13 28 04.4
			Mx	E 1.1 18			De	iPg1	13 25 57.2
			Mx	N 1.7 20				iSg1	13 26 16.3
		Um	ePKP	02 56 11			Baltic Sea, south of Sweden.		
		Ud	ePKP	02 56 19			Origin time = 13 25 33.		
		Solomon Islands					Explosion.		
		(h = 40 km).							
"	1	Um	iP	03 44 20.1	"	1	Um	eSg1	13 32 28
		South of Japan (h = N).					Esthonia.		
							Explosion.		
"	1	Up	i(P)	10 58 24.8	"	1	Um	iP	15 27 43.5
							Volcano Islands		
							(h = 120 km).		
"	1	Up	iSg1	13 04 27.3	"	1	Ki	iP	19 41 09.7
		De	iPg1	13 02 30.8			(cont.)		
		(cont.)							



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

1972				1972				
Feb.	1	(cont.)		Feb.	2	Um	iP	21 03 50.7
		Um	iP					
		Ud	iP	"	2	Up	iP	21 24 30.7
								21 24 42.8
		South of Japan (h = N).				Ki	iP	21 25 46.9
"	1	Sk	i(P)			Sk	iP	21 25 13.0
						Um	iP	21 25 09.9
"	1	Um	iP					21 25 20.7
		Ud	iP			Ud	iP	21 24 37.8
		Japan (h = 130 km).						21 24 49.1
"	1	Um	iP			De	eP	21 24 00
						Greece.		
"	2	Um	iP			h = 45 km (Up,Um,Ud).		
		Japan (h = 60 km).		"	2	Up	iPKP	23 03 44.1
"	2	Um	iP					23 03 52.2
		Ud	iP			Sk	iPKP	23 03 37.4
		South of Japan (h = N).				Um	iPKP	23 03 32.4
"	2	Sk	e(P)					23 03 40.1
						Ud	iPKP	23 03 45.7
"	2	Ki	iP					23 03 53.6
		Um	iP			De	iPKP	23 04 02.8
						Kermadec Islands.		
						h = 30 km (Up,Um,Ud).		
				"	3	Um	iP	00 18 01.2
						Ud	iP	00 18 14.7
				"	3	Ki	iP	00 21 58.5
"	2	Um	iP			Um	iP	00 22 08.7 C
						Ryukyu Islands (h = N).		
				"	3	Up	iP	02 35 01.7
								02 35 16.6
								micr sec
						P	Z'	0.1 1.2
						Mx	E	2.5 15
						Mx	N	1.8 15
						Mx	Z	5.3 16
						Ki	iP	02 35 37.7
								02 36 06.7
								micr sec
						P	Z'	0.1 1.0
						Mx	E	3.2 17
						Mx	N	3.4 17
						Mx	Z	2.4 17
						Sk	iP	02 35 37.1
"	2	Um	iP			Um	iP	02 35 12.7 C
		Ud	iP			Ud	iP	02 35 17.9
		South of Japan (h = N).						02 35 55.0
"	2	Ki	iP			Caucasus (h = 40 km).		
		Um	iP			m = 5.6, M = 5.2 (Up,Ki).		
		Ud	eP					
		Andaman Islands						
		(h = 45 km).						

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

1972				1972			
Feb.	3	Um iP	05 42 06.8	Feb.	4	Ki iP	00 10 52.4
		Hindu Kush.				Um iP	00 11 08.7
		Intermediate depth.				Ud iP	00 11 36.3
						South of Japan (h = N).	
"	3	Sk iP	05 42 43.3	"	4	Um iP	00 28 03.2
		Um iP	05 43 15.4			North Pacific Ocean.	
		Ud iP	05 42 52.3				
		North Atlantic Ocean					
		(h = N).					
"	3	Up iP	07 20 46.1	"	4	Um iP	01 20 24.4
			micr sec			Nicaragua (h = 50 km).	
		P	Z' 0.2 1.5	"	4	Um iPKP	01 41 59.3
		Ki eP	07 20 40			New Zealand.	
			micr sec				
		P	Z' 0.1 1.5	"	4	Up iP	02 46 11.2
		Sk iP	07 20 12.1				micr sec
		Um iP	07 20 44.5			P	Z' 0.1 1.2
		Ud iP	07 20 23.2			Mx E	2.4 14
		North Atlantic Ocean				Ki iP	02 47 37.8
		(h = N).					micr sec
		m = 5.5 (Up,Ki).				Mx E	2.5 13
						Mx N	0.8 13
"	3	Ki iP	07 33 30.7			Sk iP	02 46 50.9
		Um iP	07 33 31.9			Um iP	02 46 55.8
		Ud iP	07 33 57.0			Ud iP	02 46 10.6
		China (h = N).				Italy (h = 25 km).	
						M = 4.8 (Up,Ki).	
"	3	Um iPKP	08 54 31.2	"	4	Um iPKP	06 06 36.6
		iPP	08 55 08.7			Chile (h = 25 km).	
		Ud iPKP	08 54 39.6				
		New Britain (h = 170 km).		"	4	Ki ePKP	07 20 56
"	3	Up i(P)	09 22 40.6			Um iPKP	07 21 01.1
"	3	Up iSg1	12 35 37.7			Ud ePKP	07 21 05
		Ki iSg1	12 38 06.4			De iPKP	07 21 12.0
		Sk iSg1	12 37 29.6			Fiji Islands (h = 610 km).	
		Um iSg1	12 36 14.2	"	4	Ud iP	08 02 05.9
		Ud iSg1	12 36 40.2			Kurile Islands (h = 60 km).	
		De eSg1	12 37 08	"	4	Up iP	09 22 22.8
		Esthonia, 59.5°N, 25.0°E.				Ki iP	09 23 49.1
		Origin time = 12 33 42.				Sk iP	09 23 03.9
		Explosion.				Um iP	09 23 07.3
						Ud iP	09 22 23.1
"	3	Ki iPg1	13 29 57.1			Italy (h = 25 km).	
		iSg1	13 30 19.4	"	4	Ki iPn	10 17 57.9
		Sk iSg1	13 32 05.0			iP*	10 18 06.2
		Um iSg1	13 31 53.1			iSn	10 18 44.6
		North Norway,				iS*	10 18 57.3
		68.0°N, 16.7°E.				Um iSg1	10 20 32.1
		Origin time = 13 29 29.				Northwest Russia-Norway	
"	3	Ud iP	14 02 09.6			border region,	
						69.4°N, 29.8°E.	
						Origin time = 10 16 56.	
						Explosion.	

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

1972				1972						
Feb.	4	Up	iP	10 43 29.8	Feb.	4	(cont.)			
		Ki	iP	10 42 53.7			Um	iP	16 42 43.4	
				micr sec			Ud	iP	16 42 39.1	
		Mx	E	1.1 16			Gulf of Aden (h = N).			
		Mx	N	1.0 15		"	4	Up	eP	17 23 44
		Mx	Z	1.0 14				Ki	iP	17 25 09.5
		Um	iP	10 43 06.2				Sk	iP	17 24 24.0
			iS	10 53 17				Um	iP	17 24 29.9
		Ud	iP	10 43 30.4				Ud	iP	17 23 45.4
		Volcano Islands (h = N).						Italy (h = 25 km).		
"	4	Um	i(Sg1)	11 32 13.3		"	4	Ki	ePg1	17 35 23
"	4	Up	iSg1	11 55 05.0					iSg1	17 36 00.1
		Um	iSg1	11 55 36.8				Sk	iSg1	17 36 04.3
		Ud	eSg1	11 56 10				Um	iSg1	17 36 27.7
		De	eSg1	11 56 33				Nordland, Norway, 66.5°N, 14.1°E. Origin time = 17 34 32. Explosion.		
		Esthonia. Explosion.								
"	4	Um	i(Sg1)	13 15 11.2		"	4	Um	iP	18 22 05.5
"	4	Up	iP	14 17 36.7					i	18 22 11.8
			ipP	14 17 42.9				Italy (h = N).		
				micr sec		"	4	Ud	iP	19 02 27.9
		P	Z'	0.1 1.0				Dodecanese Islands.		
		Ki	iP	14 17 35.2		"	4	Um	iP	19 07 32.1
				micr sec				Italy (h = N).		
		P	Z'	0.1 1.1		"	4	Ki	iPg1	20 23 02.2
		Sk	iP	14 17 56.4					iSg1	20 23 40.4
		Um	iP	14 17 31.2				Sk	iSg1	20 23 47.3
		Ud	iP	14 17 51.8				Um	iSn	20 23 54.8
		De	iP	14 17 51.3					iSg1	20 24 08.6
		Tibet. h = 20 km (Up). m = 5.7 (Up,Ki).						Nordland, Norway, 66.5°N, 14.1°E. Origin time = 20 22 12. Explosion.		
"	4	Up	iP	15 31 48.0 D		"	5	Up	iP	00 15 24.2
				micr sec				Turkey.		
		P	Z'	0.1 0.8		"	5	Up	i(P)	00 26 40.0
		Ki	iP	15 31 49.7 D					i	00 26 45.8
				micr sec						micr sec
		P	Z'	0.1 0.9				(P)	Z'	0.1 0.9
		Sk	iP	15 32 04.5 D		"	5	Up		micr sec
		Um	iP	15 31 45.3 D				Mx	E	1.2 20
		Ud	iP	15 31 59.9 D				Mx	N	1.4 20
		De	iP	15 31 57.6 D				Mx	Z	2.9 18
		Nicobar Islands (h = 55 km). m = 6.0 (Up,Ki).						Ki		micr sec
"	4	Um	iP	16 03 56.7				Mx	E	1.4 18
		Ud	iP	16 04 23.6				Mx	N	1.4 18
		South of Japan (h = N).						Mx	Z	1.1 18
"	4	Ki	iP	16 43 06.8				(cont.)		
		(cont.)								

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

1972

Feb. 5 (cont.)  
Um iP2 00 36 35.8  
South Pacific Ocean  
(h = N).  
M = 6.0 (Up,Ki).

" 5 Ki eP 01 31 48  
Sk eP 01 31 03  
Um iP 01 31 08.1  
Ud iP 01 30 22.7  
Italy (h = N).

" 5 Um eP 03 54 29  
Italy (h = N).

" 5 Ki iP 04 29 36.9  
i 04 29 43.7  
Sk iP 04 28 56.7  
Um iP 04 29 30.6  
Ud iP 04 29 01.5  
i 04 29 07.9  
De eP 04 29 07  
North Atlantic Ocean  
(h = N).

" 5 Um eP 05 10 28  
Italy (h = N).

" 5 Up eP 07 12 00  
Ki iP 07 13 30.9  
micr sec  
Mx E 0.3 11  
Um iP 07 12 48.5  
Ud iP 07 12 03.8  
Italy (h = N).

" 5 Ud iP 09 47 45.5

" 5 Um iSg1 12 33 28.0  
Western USSR.  
Explosion.

" 5 Um iP 12 38 23.7  
Italy (h = N).

" 5 Ki iP 14 09 03.9  
Um iP 14 09 03.6  
Sunda Strait (h = 60 km).

" 5 Up iP 15 18 40.8  
micr sec  
Mx E 1.2 13  
Ki micr sec  
Mx E 1.2 14  
Mx N 0.6 9  
Mx Z 0.4 9  
(cont.)

1972

Feb. 5 (cont.)  
Sk eP 15 19 21  
Um iP 15 19 25.4  
Ud eP 15 18 39  
Italy (h = 35 km).  
M = 4.5 (Up,Ki).

" 5 Um iSg1 15 29 32.2  
Lake Ladoga.  
Explosion.

" 5 Up iPg1 18 32 04.4  
iRg 18 32 25.0  
Sk eSg1 18 33 50  
Um iSg1 18 34 06.6  
Ud iPg1 18 31 58.0  
iSg1 18 32 09.2  
iRg 18 32 14.3  
Västmanland, Sweden,  
60.0°N, 15.2°E.  
Origin time = 18 31 45.  
Explosion.

" 5 Up iP 18 58 55.8  
Ki iP 18 58 59.8  
Sk iP 18 59 20.3  
Um iP 18 58 51.6  
Ud iP 18 59 12.6  
Tadzhik-Sinkiang  
(h = 110 km).

" 5 Ki iP 21 59 51.5  
Ud iP 21 59 24.0  
De eP 21 59 06  
Iran (h = 50 km).

" 6 Up iP 00 33 32.5  
micr sec  
P Z' 0.1 1.0  
Ki iP 00 32 39.8  
Um iP 00 33 05.7  
Ud iP 00 33 32.5  
Aleutian Islands  
(h = 45 km).

" 6 Up iP 00 41 42.9  
micr sec  
P Z' 0.2 1.0  
Ki iP 00 40 48.9  
Um eP 00 41 17  
Ud eP 00 41 41  
Aleutian Islands  
(h = 45 km).

" 6 Up iP 01 38 10.9  
Ki eP 01 39 37  
(cont.)

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

1972				1972			
Feb. 6 (cont.)				Feb. 6 (cont.)			
	Ki		micr sec		Ud	iP	21 19 47.7
	Mx	E	0.6 13			ipP	21 19 58.2
	Sk	iP	01 38 50.0		South of Japan.		
	Um	iP	01 38 55.7		h = 35 km (Um,Ud).		
	Ud	eP	01 38 07				
	Adriatic Sea (h = N).			"	6	Um	eP 21 49 06
"	6	Up	iP 02 23 52.8		Italy (h = N).		
		Um	iP 02 23 25.6	"	6	Up	iP 22 16 49.2
		Ud	iP 02 23 53.5			Ki	iP 22 16 23.5
	Aleutian Islands						micr sec
	(h = 45 km).						P Z' 0.1 1.0
"	6	Um	eP 03 04 32			Sk	iP 22 16 47.4 D
		Ud	iP 03 04 17.7			Um	iP 22 16 33.4 D
						Ud	iP 22 16 54.4
"	6	Ki	iPn 06 40 32.1		Mariana Islands (h = 50 km).		
			iSn 06 41 30.7	"	6	Ki	iS 23 39 10.3
			iSg1 06 41 52.7			Sk	eS 23 40 28
	Sk	iSg1	06 44 18.6		Norwegian Sea.		
	Um	iSn	06 42 08.0	"	7	Sk	iPKP 00 39 48.5
		iSg1	06 42 42.1			Um	iPKP 00 39 42.1
	Northwest Russia,					Ud	iPKP 00 39 55.2
	67.5°N, 33.3°E.					De	ePKP 00 40 09
	Origin time = 06 39 14.				Kermadec Islands		
	Explosion.				(h = 80 km).		
"	6	Um	iP 06 46 26.1	"	7	Sk	i(P) 03 50 59.4
		Ud	iP 06 46 53.3	"	7	Up	iPKP 04 36 56.7
	South of Japan (h = N).					Um	iPKP 04 36 51.2
"	6	Um	i(Sg1) 07 25 25.6			Ud	iPKP 04 36 58.9
"	6	Ud	iP 07 38 22.2			De	iPKP 04 37 09.2
	Sinkiang (h = N).				Tonga-Kermadec Islands		
"	6	Ki	iPKP 12 13 54.7		(h = 550 km).		
			micr sec	"	7	Up	iP 05 19 10.4
		PKP	Z' 0.1 0.8				micr sec
	Um	iPKP	12 14 00.4			Mx	E 1.2 20
	Ud	iPKP	12 14 11.0			Mx	N 1.4 19
	New Hebrides Islands					Mx	Z 1.6 20
	(h = 140 km).				Ki	eP	05 18 28
"	6	Up	iP 17 52 44.9				micr sec
		Ki	iP 17 51 50.8			Mx	E 3.0 18
		Sk	eP 17 52 25			Mx	N 2.8 18
		Um	iP 17 52 16.9			Mx	Z 1.9 15
		Ud	iP 17 52 45.5		Um	iP	05 18 46.5
	Aleutian Islands (h = N).					iS	05 27 41
"	6	Up	eP 21 19 40		Ud	iP	05 19 17.4
		Ki	epP 21 19 15		De	eP	05 19 34
		Um	iP 21 19 21.5		Japan (h = 40 km).		
			ipP 21 19 30.7		M = 5.6 (Up,Ki).		
	(cont.)						

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

1972				1972			
Feb.	7	Um ePKP	05 53 34	Feb.	7	Um iP	20 16 26.3
		South Sandwich Islands				Costa Rica (h = N).	
		(h = N).					
"	7	Up iP	08 00 19.5	"	8	Up iP	03 49 59.4 C
		Ki iP	07 59 25.7			i	03 50 06.0
		Sk eP	08 00 03				micr sec
		Um iP	07 59 50.9			P	Z' 0.4 0.9
		Ud iP	08 00 24.5			Mx E	2.9 14
		De eP	08 00 44			Mx N	2.1 15
		Kamchatka (h = 60 km).				Mx Z	4.4 14
						Ki iP	03 49 38.4 C
"	7	De i(P)	13 38 01.6			i	03 49 44.9
							micr sec
"	7	Um e(Sg1)	13 57 00			P	Z' 0.3 0.6
						Mx E	2.4 12
"	7	Up iSg1	14 20 17.1			Mx N	2.8 15
		Ki e(Sg2)	14 22 48			Mx Z	2.5 14
		Sk eSg1	14 22 02			Sk iP	03 50 03.3 C
		Um iSg1	14 20 50.6			Um iP	03 49 45.4 C
		Ud eSg1	14 21 21			Ud iP	03 50 08.8 C
		De eSg1	14 21 41			i	03 50 15.5
		Esthonia.				De eP	03 50 16
		Explosion.				Luzon (h = 50 km).	
						m = 6.6, M = 5.9 (Up,Ki).	
"	7	Um iP	14 32 19.3	"	8	Ud iP	06 08 09.5
		Ud iP	14 32 51.2			De iP	06 07 51.9
		Kurile Islands (h = 130 km).					
"	7	Um iP	16 19 29.8	"	8	Sk eP	07 02 27
		South of Japan (h = N).					
"	7	Up iP	19 27 38.4	"	8	Ud i(Pg1)	12 17 36.4
		ipP	19 27 44.8			i(Sg1)	12 17 55.3
		iS	19 38 22				
			micr sec				
		pP	Z' 0.1 1.2				
		Mx E	1.2 20	"	8	Sk eP	12 23 45
		Mx N	1.0 19			Ud eP	12 23 07
		Mx Z	1.9 20			Italy (h = N).	
		Ki eP	19 27 35	"	8	Up i(P)	12 55 03.5
		ipP	19 27 41.9			i	12 55 09.1
			micr sec	"	8	De iP	13 11 20.9
		Mx E	2.2 18	"	8	Up iP	15 54 49.9
		Mx N	1.1 16			i	15 55 02.3
		Mx Z	1.4 17			Um iP	15 54 35.3
		Sk iP	19 27 23.6			i	15 54 49.9
		ipP	19 27 30.4			Ud eP	15 54 58
		Um iP	19 27 40.3			i	15 55 07.2
		ipP	19 27 46.6			Formosa (h = N).	
		Ud iP	19 27 30.1	"	8	Up iP	19 07 58.3
		ipP	19 27 35.6			ipP	19 08 11.2
		De iP	19 27 34.8			Ki iP	19 07 16.7 C
		ipP	19 27 41.1			ipP	19 07 29.3
		Costa Rica.					micr sec
		h = 20 km (Up,Ki,Sk,Um,Ud,De).				P	Z' 0.1 0.7
		M = 5.6 (Up,Ki).				Sk iP	19 07 51.4
						(cont.)	

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

1972				1972			
Feb.				Feb.			
8	(cont.)			9	Ud	i(Sg1)	12 09 38.5
	Um	iP	19 07 35.0 C		De	i(Sg1)	12 09 44.2
		ipP	19 07 47.9		Probably same origin as for the preceding event.		
	Ud	iP	19 08 05.6 C				
		ipP	19 08 18.4	"	9	De	i(Sg1) 12 57 38.8
	De	iP	19 08 21.3				
	Japan.			"	9	Up	iPg1 13 03 39.1
	h = 45 km (Up,Ki,Um,Ud).						iSg1 13 04 33.2
"	8	Up	iP 20 02 06.4		Ud	iSg1	13 04 39.8
		Ki	iP 20 02 45.8		De	iPg1	13 02 32.3
		Sk	iP 20 02 42.5			iSg1	13 02 50.0
		Um	iP 20 02 20.1		Baltic Sea, south of Sweden, 55.4° N, 15.0° E.		
		Ud	iP 20 02 22.0		Origin time = 13 02 11.		
		De	iP 20 02 04.5		Explosion.		
	Iran (h = 50 km).						
"	8	Ki	iP 20 09 25.1	"	9	Ud	i(Sg1) 13 09 01.7
		Um	iP 20 09 37.7	"	9	Um	iPKP 14 08 47.9
	Volcano Islands (h = N).				New Hebrides Islands (h = 80 km).		
"	8	Ud	iP 23 07 41.0				
"	9	Ki	iP 01 45 42.6	"	9	Up	iP 14 29 04.1
		Sk	eP 01 46 13			Ud	iP 14 29 18.2
		Um	iP 01 45 52.0			De	iP 14 29 01.9
		Ud	iP 01 46 16.9		Iran (h = 45 km).		
	Formosa (h = 50 km).			"	9	Ud	iPKP 14 52 44.2
"	9	Ki	iP 03 28 52.0			De	iPKP 14 52 55.0
		i	03 28 57.1		Tonga-Kermadec Islands (h = 550 km).		
		Sk	iP 03 28 27.1				
"	9	Ud	i(Sg1) 09 39 39.4	"	9	Ud	iSg1 15 33 56.5
"	9	Ki	iPn 10 10 04.5			De	ePg1 15 33 15
		iSn	10 10 54.3				iSg1 15 33 38.5
		Um	iSg1 10 12 36.0		Southern Sweden.		
	Northwest Russia.			"	9	Sk	eP 16 00 36
	Origin time = 10 08 58.					Um	iP 16 00 47.9
	Explosion.				South of Panama (h = N).		
"	9	Ki	eP 11 28 43	"	9	Up	iP 18 05 26.8
		Sk	ePn 11 29 15	"	9	Up	iPKP 21 03 48.3
		Um	iP 11 28 15.3				micr sec
		Ud	iP 11 28 19.2		Mx	E	3.4 22
		De	eP 11 28 09		Mx	N	1.9 21
	Caucasus (h = 35 km).				Mx	Z	7.8 22
"	9	Ud	iPg1 12 06 16.8	Ki	i(PKP)		21 03 49.5
		iSg1	12 06 43.5		iPKP		21 03 58.4
		De	iPg1 12 06 21.5				micr sec
		iSg1	12 06 48.8		Mx	E	1.4 20
	Southern Sweden.				Mx	N	1.4 18
	Origin time = 12 05 43.				Mx	Z	1.7 19

(cont.)

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

1972				1972					
Feb.	9	(cont.)		Feb.	10	Up	iP	09 11 22.3	
		Sk	iPKP			Um	eP	09 11 37	
		Um	i(PKP)			Ud	iP	09 11 36.8	
			iPKP			De	iP	09 11 20.3	
		Ud	i(PKP)			Iran (h = N).			
			iPKP		"	10	Um	eP	09 16 04
		De	iPKP				Ud	eP	09 16 23
		Chile (h = N).				Mindanao (h = 100 km).			
		M = 6.0 (Up,Ki).							
"	10	Up	iPKP	00 56 11.5	"	10	Up	iSg1	09 34 40.1
		Ud	iPKP	00 56 13.4			Ud	eSg1	09 34 46
		De	iPKP	00 56 22.7			De	iPg1	09 32 52.6
		Kermadec Islands					iSg1	09 33 09.8	
		(h = 40 km).				Baltic Sea, south of Sweden, 55.8°N, 20.6°E.			
"	10	Ud	eP	01 22 05			Origin time = 09 32 31.		
								Explosion.	
"	10	Up	ePKP	03 23 24	"	10	Up	iSg1	09 58 04.9
		Um	ePKP	03 23 16			De	iPg1	09 56 16.9
			iSKP	03 26 03.8			iSg1	09 56 34.0	
		Ud	iPKP	03 23 24.8			Baltic Sea, south of Sweden, 55.8°N, 20.6°E.		
		De	iPKP	03 23 35.6			Origin time = 09 55 56.		
		Fiji Islands (h = 580 km).						Explosion.	
"	10	Up	iP	05 09 55.0 C	"	10	Up	iSg1	12 16 51.6
			iPP	05 11 12.9			Ki	eSg1	12 18 50
				micr sec			Sk	eSg1	12 18 34
			P	Z' 0.3 0.8			Um	iSg1	12 17 07.3
		Ki	iP	05 09 38.3 C			Ud	eSg1	12 17 51
				micr sec			Western USSR.		
			P	Z' 0.2 0.8			Explosion.		
		Sk	iP	05 10 09.6 C	"	10	Ud	iP	13 32 23.3
		Um	iP	05 09 39.4 C	"	10	Ud	i(P)	14 05 17.6
		Ud	iP	05 10 11.3 C	"	10	Sk	eSg1	14 14 56
		De	iP	05 10 18.6 C			Um	iSg1	14 13 10.8
		Kazakh SSR.					Ud	eSg1	14 14 29
		m = 6.2 (Up,Ki).				Near Lake Ladoga.			
		Underground explosion.				Explosion.			
"	10	Up	iPKP	06 11 35.1	"	10	Sk	eSg1	14 14 56
		Ud	iPKP	06 11 36.5			Um	iSg1	14 13 10.8
		Kermadec Islands (h = N).					Ud	eSg1	14 14 29
"	10	Up	iP	06 56 29.5	"	10	Ki	eP2	16 48 36
			i	06 56 32.6			Sk	eP2	16 48 31
		Ki	iP	06 57 09.1			Ud	iP1	16 47 42.3
		Sk	iP	06 57 05.3				iP2	16 48 10.5
			i	06 57 08.4			De	iP2	16 47 53.3
		Um	iP	06 56 44.9			Iran (h = 50 km).		
			i	06 56 47.9			Two events are suggested.		
		Ud	iP	06 56 44.5	"	11	Ki	e(P)	03 14 03
			i	06 56 47.6	"	11	Um	iP	04 40 17.8
		De	iP	06 56 27.7					
			i	06 56 30.6					
		Iran (h = 20 km).							
		Double P, in average 3.0 sec apart.							



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

1972				1972					
Feb. 11	Um	iP	05 43 00.3	Feb. 12	Up	iP	07 55 14.1		
"	11	Up	iP	06 03 36.2	Ki	iP	07 54 27.8		
		Ki	iP	06 03 32.6		ipP	07 54 40.0		
		Sk	eP	06 03 56	Um	iP	07 54 49.3		
		Um	iP	06 03 28.2		ipP	07 55 01.2		
		Ud	iP	06 03 51.1	Ud	iP	07 55 20.2		
		De	iP	06 03 51.1		ipP	07 55 31.8		
		Sinkiang (h = 25 km).		Kurile Islands. h = 45 km (Ki,Um,Ud).					
"	11	Ki	iSg1	12 08 21.9	"	12	Ki	eSg1	08 58 53
		Um	iSg1	12 06 39.4			Sk	ePg1	08 57 06
		Western USSR. Explosion.						eSg1	08 57 39
"	11	Up	iP	12 30 17.0			Um	iSg1	08 58 43.8
		Ud	iP	12 30 31.8			Ud	eSg1	08 59 01
				Norwegian Sea.					
"	11	Um	iSg1	13 32 53.3	"	12	Ki	iPn	09 55 58.8
		Western USSR. Explosion.						iSn	09 56 48.0
				Um				iSg1	09 58 31.7
				Northwest Russia-Norway border region, 69.5°N, 31.2°E. Origin time = 09 54 54. Explosion.					
"	11	Up	iP	17 25 00.3			Ki	iSn	09 57 45.9
		Sk	eP	17 25 05				i(S*)	09 58 00.4
		Um	iP	17 25 23.8			Um	iSg1	09 59 29.8
		Ud	iP	17 24 53.4			Probably northwest Russia. Explosion.		
		Atlantic Ocean (h = N).		"	12				
"	11	Ki	i(P)	18 35 13.3			Ki	ePn	10 58 35
		Um	e(P)	18 35 47				iSn	10 59 20.3
"	11	Ki	e(P)	18 37 42				iS*	10 59 33.8
		Sk	i(P)	18 37 22.6			Sk	eSg1	11 02 01
"	11	Ki	iSg1	19 42 55.6			Um	iSn	11 00 01.2
		Sk	iSg1	19 43 01.3				iSg1	11 00 32.6
		Um	iSg1	19 43 22.1			Northwest Russia-Finland border region, 67.7°N, 30.2°E. Origin time = 10 57 35. Explosion.		
		Nordland, Norway, 66.5°N, 13.8°E. Origin time = 19 41 21. Explosion.		"	12				
"	11	Up	ePKP	21 26 25			Sk	iPKP	11 26 18.8
		Sk	ePKP	21 26 17			Um	iPKP	11 26 07.7
		Um	iPKP	21 26 09.3			South of Australia (h = N).		
		Ud	iPKP	21 26 23.8	"	12			
"	11	Up	iP	21 46 32.9			Up	iP	12 02 43.3
		Ki	iP	21 45 42.1				ipP	12 02 56.2
		Um	eP	21 46 06			Ki	eP	12 02 05
		Ud	iP	21 46 38.8			Um	iP	12 02 21.7
		Kamchatka (h = 45 km).						ipP	12 02 34.4
"	12	Ki	iP	01 18 11.0			Ud	iP	12 02 50.7
		Um	iP	01 18 18.4				ipP	12 03 03.6
		Formosa.		Japan. h = 50 km (Up,Um,Ud).					

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

1972				1972			
Feb. 12	Ki	ePKP	12 13 59	Feb. 13	(cont.)		
	Sk	ePKP	12 14 10		Ki	iP	10 14 11.3
	Um	iPKP	12 14 04.7		Sk	iP	10 13 53.1
	Ud	ePKP	12 14 15		Um	iP	10 13 46.9
	New Hebrides Islands (h = 55 km).					iPcP	10 14 14.3
" 12	Ki	iSn	13 13 29.9		Ud	iP	10 13 29.2
		iSg1	13 13 53.0		De	iP	10 13 08.8
	Um	eSn	13 14 18	" 13	Tanzania (h = N).		
		iSg1	13 14 52.2		Up	iP	11 32 58.5
	Northwest Russia. Explosion.				Sk	eP	11 33 37
" 12	Ki	e(Sn)	13 31 41		Um	e(pP)	11 33 46
	Um	iSg1	13 33 09.2		Ud	iP	11 32 54.9
	Northwest Russia. Explosion.					ipP	11 33 12.0
" 12	Up	iP	18 02 01.5		De	eP	11 32 21
	Ki	iP	18 01 08.9	" 13	Greece. h = 80 km (Ud).		
	Sk	eP	18 01 32		Up	iP	13 12 16.8
	Um	iP	18 01 39.7		Ki	eP	13 13 24
	Ud	iP	18 01 57.2		Sk	iP	13 12 55.8
	Canada (h = N).				Um	iP	13 12 54.7
" 12	Up	i(PKP)	19 11 10.3		Ud	iP	13 12 23.1
		iPKP	19 11 18.6		De	iP	13 11 49.8
	Ki	iPKP	19 11 02.0	" 13	Greece (h = 25 km).		
	Sk	ePKP	19 11 12		Um	iPKP	13 21 06.4
	Um	i(PKP)	19 11 05.7		Ud	ePKP	13 21 11
		iPKP	19 11 10.2		De	iPKP	13 21 26.4
	Ud	i(PKP)	19 11 09.9	" 13	Tonga-Kermadec Islands (h = 70 km).		
		iPKP	19 11 18.5		Up	iP	13 32 15.7
	De	i(PKP)	19 11 18.9		Um	iP	13 31 55.3
		iPKP	19 11 27.0		Ud	iP	13 32 22.2
	Tonga Islands (h = 5 km).				South of Japan (h = N).		
" 12	Up	eP	19 23 37	" 13	Um	iPKP	15 23 48.9
	Um	eP	19 23 37			i	15 24 33.8
" 13	Ki	iP	04 37 52.7		South Sandwich Islands (h = N).		
	Ud	iP	04 38 40.4	" 13	Up	iP	18 06 35.6
" 13	Sk	i(P)	04 40 07.1			ipP	18 06 45.7
" 13	Up	iP	06 10 34.6		Ki	iP	18 05 43.0
" 13	Up	i(P)	08 14 14.7			ipP	18 05 52.6
" 13	Ud	ePKP	09 06 06		Sk	eP	18 06 11
	De	ePKP	09 06 12		Um	iP	18 06 10.3
	New Hebrides Islands.					ipP	18 06 19.5
" 13	Up	iP	10 13 25.0		Ud	iP	18 06 34.5
		iPcP	10 13 58.8		De	iP	18 06 57.0
	(cont.)					ipP	18 07 06.5
" 13	Um	iP	20 20 27.4	" 13	South of Alaska. h = 35 km (Up,Ki,Um,De).		
	(cont.)				Mexico (h = 25 km).		

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

1972				1972			
Feb. 13	Up	iPKP	21 24 44.7	Feb. 14	Ud	iP	07 42 42.0
	Ki	iPKP	21 24 59.4		"	14	Up eSg1 12 36 59
			micr sec				Um iSg1 12 37 27.5
		PKP Z'	0.1 1.1				De eSg1 12 38 21
	Sk	iPKP	21 24 50.1				Esthonia.
	Um	iPKP	21 24 53.0				Explosion.
	Ud	iPKP	21 24 42.5	"	14	Um	i(Sg1) 13 19 21.9
	De	iPKP	21 24 38.4	"	14	Um	iSg1 14 55 37.2
			South Sandwich Islands				Esthonia.
			(h = N).				Explosion.
"	13	Up	iP 21 34 23.4	"	14	Ud	i(P) 14 59 34.8
			iS 21 43 20	"	14	De	iP 15 53 43.6
			micr sec	"	14	Ki	i(P) 17 10 03.8
		P Z'	0.1 1.0	"	14	Ud	iP 21 14 33.3
		Mx E	2.3 20	"	14	Up	iP 23 45 22.4 C
		Mx N	2.5 20				ipP 23 45 48.6
		Mx Z	4.9 20				iPKP 23 48 42.5 C
	Ki	eP	21 35 00				i 23 48 50.1
			micr sec				iPP 23 50 35
		Mx E	1.5 17				iSP 00 00 25.7
		Mx Z	2.1 19				micr sec
	Sk	iP	21 34 28.4				PKP Z' 0.3 1.0
	Um	iP	21 34 45.5				Mx E 39 20
		iS	21 44 10				Mx N 120 27
	Ud	iP	21 34 15.3				Mx Z 160 24
	De	iP	21 34 00.6			Ki	iP 23 44 52 C
			Atlantic Ocean (h = N).				i 23 45 38.5
			M = 5.6 (Up,Ki).				iPKP 23 48 28.4
"	13	Up	iP 22 50 09.1				i 23 48 36.5
		Ki	iP 22 49 13.5				iPP 23 49 36
		Sk	eP 22 49 46				micr sec
		Um	iP 22 49 42.2				PKP Z' 0.5 1.1
		Ud	iP 22 50 06.2				Mx E 38 22
		De	iP 22 50 30.5				Mx Z 50 25
			Alaska (h = 150 km).			Sk	eP 23 45 13
"	14	Up	iP 00 51 37.0				iPKP 23 48 39.1
			i 00 51 43.5				i 23 48 47.5
		Ki	iP 00 51 16.2			Um	iP 23 45 06 C
			i 00 51 23.6				iPKP 23 48 34.7
			micr sec				iPP 23 50 10
		P Z'	0.1 1.2			Ud	iPKP 23 48 44.9
		Sk	eP 00 51 42				i 23 48 52.2
		Um	iP 00 51 21.6			De	eP 23 45 30
		Ud	iP 00 51 45.1				i(PKP) 23 48 36.1
		De	iP 00 51 53.0				iPKP 23 48 42.7
			Luzon (h = 55 km).				i 23 48 51.6
"	14	Um	iPKP 05 14 05.6				i 23 48 59.0
			South of Kermadec Islands.				(cont.)
"	14	Sk	e(P) 07 21 05.6				
"	14	Ki	i(Sg1) 07 29 42.6				

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

1972				1972			
Feb. 14	(cont.)			Feb. 15	Up	eP	12 36 21
	Santa Cruz Islands				Ud	iP	12 36 15.5
	(h = 100 km).				De	eP	12 36 35
	M = 7.1 (Up,Ki).			" 15	Sk	iP	12 39 37.6
	PKP is followed after in				Ud	iP	12 39 05.3
	average 8.0 sec by another				De	iP	12 38 29.8
	onset.				Greece (h = 10 km).		
" 15	Up	iP	03 08 51.8	" 15	Up	iSg1	13 02 34.3
	Ki	iP	03 07 57.3		Um	iSg1	13 03 14.5
	Um	iP	03 08 24.3		Ud	eSg1	13 03 29
	Ud	iP	03 08 53.3		De	eSg1	13 03 51
	Aleutian Islands				Esthonia.		
	(h = 40 km).				Explosion.		
" 15	Ki	iPKP	04 27 58.3	" 15	Ud	i(P)	13 13 05.8
	Sk	iPKP	04 28 10.8	" 15	Um	iP	14 34 18.0
	Um	iPKP	04 28 05.0	" 15	Ki	iSg1	17 36 51.0
	Ud	iPKP	04 28 13.8		Sk	iSg1	17 36 55.5
	De	i(PKP)	04 28 11.8		Um	iSg1	17 37 17.5
		iPKP	04 28 20.5		Ud	i(Sg1)	17 38 45.7
	Tonga Islands (h = 90 km).				Nordland, Norway,		
" 15	Um	iPKP	04 29 35.6		66.5°N, 14.1°E.		
	De	ePKP	04 29 51		Origin time = 17 35 22.		
	Santa Cruz Islands				Explosion.		
	(h = 110 km).			" 15	Um	iP	18 40 16.5
" 15	Up	iP	05 16 16.6	" 15	Up	eP	21 04 48
	Ud	iP	05 16 25.1		Um	iP	21 04 36.9
	Japan.				Ud	iP	21 04 56.1
" 15	Ud	iP	08 41 17.1		Halmahera.		
" 15	Sk	eP	08 47 29	" 15	Up	iP	21 32 20.2
	Ud	iP	08 46 49.4		Ud	iP	21 32 10.7
" 15	Up	iP	09 09 14.2		De	iP	21 32 07.4
	Ki	iP	09 09 17.9		Peru (h = 70 km).		
	Sk	eP	09 09 01	" 15	Up	ePKP	21 49 02
	Ud	iP	09 09 04.5		Um	iPKP	21 48 53.0
	De	iP	09 09 05.1		Santa Cruz Islands		
	Colombia (h = 170 km).				(h = 100 km).		
" 15	Sk	ePg1	10 11 40	" 16	Up	iP	00 47 30.1
		iRg	10 11 47.0		Ki	eP	00 48 41
" 15	Ud	i(Sg1)	10 14 04.3		Sk	iP	00 48 08.3
" 15	Ki	iP	10 19 13.8		Um	iP	00 48 03.0
" 15	Up	eP	11 32 47		Ud	iP	00 47 36.9
	Ki	iP	11 31 54.4			i	00 47 39.8
	Ud	iP	11 32 47.7		De	iP	00 47 01.5
	Aleutian Islands					i	00 47 04.6
	(h = 50 km).				Greece (h = N).		

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

1972				1972			
Feb. 16	Up	iP	03 01 27.0	Feb. 16	Up	iP	23 27 09.6
	Sk	eP	03 02 09			ipP	23 27 17.7
	Ud	iP	03 01 34.0		Ki	iP	23 27 01.7
		i	03 01 37.9		Sk	eP	23 27 30
	De	iP	03 01 02.3		Um	iP	23 26 56.6
	Greece (h = N).				Ud	iP	23 27 26.2
" 16	Up	iPKP	04 08 41.9		De	eP	23 27 29
	Ki	e(PKP)	04 08 23		Sinkiang. h = 30 km (Up).		
		iPKP	04 08 28.1	" 17	Up	i	00 25 00.0
	Sk	iPKP	04 08 38.6		Um	iP	00 24 54.5
	Um	iPKP	04 08 34.4			i	00 26 01.0
	Ud	iPKP	04 08 43.9		Ud	eP	00 24 43
	De	iPKP	04 08 49.8		Jamaica (h = 20 km).		
	Santa Cruz Islands (h = 100 km).			" 17	Um	iP	00 50 32.2
" 16	Up	i(P)	04 55 58.3	" 17	Um	iSg1	01 57 00.4
" 16	Ud	iP	06 36 16.4		Esthonia. Explosion.		
	Yugoslavia.			" 17	Ki	eP	02 12 56
" 16	Um	i(PKP)	07 27 15.6		Um	iP	02 13 23.0
	Ud	e(PKP)	07 27 28		Ud	eP	02 13 53
	South of Kermadec Islands.				Aleutian Islands (h = 45 km).		
" 16	Ki	iP	09 12 29.6	" 17	Up	iSg1	11 30 58.4
			micr sec		Ud	iSg1	11 31 01.2
		P	Z' 0.1 1.0		De	iPg1	11 28 58.5
	Um	iP	09 12 32.5			iSg1	11 29 15.1
	Ud	iP	09 12 50.2		Baltic Sea, south of Sweden, 55.5°N, 15.1°E. Origin time = 11 28 38. Explosion.		
	De	iP	09 12 54.7	" 17	Up	iSg1	11 31 19.0
		i	09 13 14.4		Ud	iSg1	11 31 22.8
	Celebes (h = 120 km).				De	iPg1	11 29 19.0
" 16	Up	iSg1	11 20 47.6			iSg1	11 29 36.0
	Um	iSg1	11 21 20.5		Baltic Sea, south of Sweden, 55.5°N, 15.1°E. Origin time = 11 28 58. Explosion.		
	Ud	iSg1	11 21 48.3	" 17	Ud	i(Sg1)	13 20 45.2
	De	iSg1	11 22 14.8	" 17	Up	eP	14 06 48
	Esthonia, 59.5°N, 25.0°E. Origin time = 11 18 50. Explosion.				Formosa.		
" 16	Sk	iP	12 53 47.2	" 17	Um	iSg1	14 17 20.9
	Ud	iP	12 53 14.7		Esthonia. Explosion.		
	Aegean Sea.			" 17	De	i(P)	14 19 53.1
" 16	Up	i(P)	14 47 48.4				
" 16	De	eP	14 58 07				
" 16	Up	eP	21 14 58				
	Ki	eP	21 14 10				
	Um	iP	21 14 36.0				
	Ud	iP	21 15 01.6				
	Aleutian Islands (h = 50 km).						

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

1972				1972			
Feb. 17	Um	iSg1	14 53 48.0	Feb. 18	(cont.)		
		Lake Ladoga.			Ud	iP	18 13 44.1
		Explosion.				ipP	18 13 55.0
" 17	De	i(P)	15 26 19.8			Kurile Islands.	
						h = 40 km (Ud).	
" 17	Up	iSg1	15 39 25.9	" 18	Ud	iP	18 56 00.3
	Um	iSg1	15 41 32.5				
	Ud	iSg1	15 39 16.7	" 18	Up	eP	21 14 36
	De	iSg1	15 37 26.3		Ud	iP	21 14 25.8
		Småland-Skåne, Sweden,					
		56.4°N, 13.9°E.		" 18	Ki	eP	22 15 32
		Origin time = 15 37 20.			Um	iP	22 15 45.5
" 17	Up	iP	16 09 01.9 D			ipP	22 15 57.3
			micr sec			Volcano Islands.	
			Z' 0.2 0.8			h = 45 km (Um).	
	Ki	iP	16 08 28.9 D	" 19	Up	iSg1	04 40 24.3
			micr sec		Um	iSg1	04 40 45.4
			Z' 0.1 0.9		Ud	iSg1	04 41 24.3
	Sk	iP	16 08 58.3 D			Esthonia.	
	Um	iP	16 08 43.0 D			Explosion.	
	Ud	iP	16 09 08.7 D	" 19	Sk	ePKP	08 18 16
	De	iP	16 09 21.0 D		Um	iPKP	08 18 08.8 C
		South of Japan (h = 380 km).			Ud	iPKP	08 18 18.2
		m = 5.7 (Up,Ki).				Solomon Islands (h = 60 km).	
" 17	Ud	eP	22 12 34	" 19	Up	eP	08 19 47
		Japan (h = 50 km).			Um	iP	08 19 32.2
" 18	Up	iSg1	11 01 28.4		Ud	iP	08 19 51.2
	Sk	iSg1	11 03 21.3			Mindoro (h = 15 km).	
	Um	iSg1	11 02 01.2	" 19	Ud	eP	08 59 04
	Ud	eSg1	11 02 29				
	De	iSg1	11 02 54.6	" 19	Um	iSg1	12 39 12.3
		Esthonia, 59.5°N, 25.0°E.			Ud	iSg1	12 39 55.3
		Origin time = 10 59 30.				Western USSR.	
		Explosion.				Explosion.	
" 18	Um	i(P)	12 17 44.4	" 19	Up	iP	13 30 25.4
" 18	Um	iSg1	12 21 26.9		Sk	eP	13 30 16
		Near Lake Ladoga.			Um	iP	13 30 00.5
		Explosion.			Ud	iP	13 30 31.6
" 18	Up	ePKP	13 23 06		De	iP	13 30 49.8
	Ud	iPKP	13 23 08.3			Kurile Islands (h = N).	
	De	iPKP	13 23 19.2	" 19	Um	i(Sg1)	13 47 38.6
		Tonga-Kermadec Islands					
		(h = 490 km).		" 19	Up	iP	14 05 43.4
" 18	Up	iP	15 44 30.8		Sk	iP	14 05 33.5
	Ud	iP	15 44 33.8		Um	iP	14 05 17.8
" 18	Up	iP	18 13 37.8		Ud	iP	14 05 49.2
	Um	iP	18 13 12.9		De	iP	14 06 07.5
		(cont.)				Kurile Islands (h = 50 km).	

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

1972				1972			
Feb. 19	Up	iPKP	14 57 39.4	Feb. 20	(cont.)		
		i	14 57 51.6		Up		micr sec
					Mx	E	1.3 17
		PKP	Z' 0.1 0.7		Mx	N	1.1 15
	Um	iPKP	14 57 27.6		Mx	Z	2.3 17
		iSKP	15 00 25.2		Ki	iP	06 20 08.8
	Ud	iPKP	14 57 41.6				micr sec
		i	14 57 54.2		Mx	E	1.8 13
	De	iPKP	14 57 52.1		Mx	N	2.2 16
		Tonga-Kermadec Islands (h = 490 km).			Mx	Z	2.7 15
"	19	Ud	iP 18 08 20.8		Sk	iP	06 20 12.9
"	19	Ud	iP 19 54 12.2		Um	iP	06 20 25.1
		Costa Rica (h = N).			Ud	iP	06 20 28.8
					De	iP	06 20 43.5
"	19	Up	iP 22 51 17.1	"	20	Sk	eP 07 48 21
		Um	eP 22 50 52			Ud	iP 07 48 21.3
		Ud	iP 22 51 22.9			Trinidad (h = 70 km).	
		De	iP 22 51 41.1	"	20	Um	iSg1 08 41 55.4
		Kurile Islands (h = 50 km).				Northwest Russia. Explosion.	
"	20	Ud	iP 01 29 01.2	"	20	Sk	i(Sg1) 12 41 08.2
"	20	Up	iP 03 10 45.4	"	20	Up	iSKP 13 50 41.3
		Ki	iP 03 10 44.5			Ki	iPKP 13 47 15.0
		Sk	iP 03 11 05.7			Sk	iPKP 13 47 27.0
		Um	iP 03 10 39.1			Um	iPKP 13 47 20.8
		Ud	iP 03 11 00.5			Ud	iPKP 13 47 31.2
		De	iP 03 11 00.5				iSKP 13 50 45.7
		Tibet (h = N).				New Hebrides Islands (h = 140 km).	
"	20	Um	iP 04 42 29.7	"	20	Um	iP 15 30 26.2
		Ud	iP 04 42 52.9			Okhotsk Sea.	
		Formosa-Luzon (h = 25 km).		"	20	Up	iP 21 43 39.3
"	20	Up	iPKP 04 57 22.9			Sk	iP 21 44 18.8
			micr sec			Um	iP 21 44 16.3
		PKP	Z' 0.5 1.0			Ud	iP 21 43 46.1 C
	Ki	ePKP	04 57 06			De	eP 21 43 11
	Sk	iPKP	04 57 17.1			Greece (h = 55 km).	
	Um	iPKP	04 57 11.7	"	21	Up	iPKP 02 01 52.8 C
	Ud	iPKP	04 57 24.5			Ud	iPKP 02 01 55.3
	De	iPKP	04 57 35.0			De	iPKP 02 02 05.4
		i	04 57 40.0	"	21	Up	iPKP 04 13 37.5
		Tonga-Kermadec Islands (h = 280 km).				i	04 13 45.7
"	20	Ud	eP 05 17 59			ipPKP	04 14 02.4
		Afghanistan-USSR.				Um	iPKP 04 13 33.3
"	20	Up	iP 06 20 37.0			Ud	iPKP 04 13 38.8
			micr sec			ipPKP	04 14 04.9
		P	Z' 0.1 1.1			(cont.)	
		(cont.)					

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

1972

Feb. 21 (cont.)  
De ePKP 04 13 49  
ipPKP 04 14 15.5  
Tonga-Kermadec Islands.  
h = 90 km (Up,Ud,De).

" 21 Ki iPKP 06 21 39.3  
Um iPKP 06 21 46.1  
New Hebrides Islands  
(h = 25 km).

" 21 Ki ePKP 06 50 35  
Solomon Islands  
(h = 90 km).

" 21 Ud iP 07 12 37.7  
Gulf of California (h = N).

" 21 Ud eP 08 00 02

" 21 Up iP 09 54 19.9  
ipP 09 54 38.4  
Ki eP 09 53 55  
Um iP 09 54 03.6  
Ud iP 09 54 29.5  
ipP 09 54 48.8  
De iP 09 54 37.7  
Formosa.  
h = 70 km (Up,Ud).

" 21 Up iP 10 15 05.6  
Um iP 10 14 41.8  
Ud iP 10 15 12.5  
Japan (h = 60 km).

" 21 Up iP 15 07 05.8  
Ud iP 15 07 14.8  
Japan (h = 40 km).

" 21 Um eP 15 58 09  
Ud eP 15 57 44  
De iP 15 57 00.0

" 21 Up iP1 19 45 21.4  
iP2 19 45 22.4  
iS 19 53 56  
iP'P' 20 14 11.1  
micr sec  
P2 Z' 0.5 0.9  
Mx E 1.3 17  
Mx N 1.6 18  
Mx Z 2.6 19  
Ki iP1 19 44 26.2  
iP2 19 44 27.5  
iP3 19 44 40.6  
iP'P' 20 14 34.9

(cont.)

1972

Feb. 21 (cont.)  
Ki micr sec  
P2 Z' 0.8 0.9  
Mx E 2.2 20  
Mx N 3.9 20  
Mx Z 4.7 21

Sk eP1 19 44 56  
iP2 19 44 57.0  
iP3 19 45 09.6  
Um iP1 19 44 54.4  
iP2 19 44 55.8  
iS 19 53 07  
iP'P' 20 14 22.5  
Ud iP1 19 45 18.8  
iP2 19 45 20.1  
iP3 19 45 33.7  
iP'P' 20 14 11.9

De iP1 19 45 42.4  
iP2 19 45 43.8  
iP3 19 45 57.0  
i(P'P') 20 14 22.5

Alaska (h = 60 km).  
m = 6.7, M = 5.5 (Up,Ki).  
Multiple P: P2 - P1 = 1.2  
sec, P3 - P1 = 14.4 sec.  
P3 could be interpreted as  
pP for a focal depth of  
55 km.

" 21 Um iP 22 10 50.2  
Ud iP 22 11 22.0  
Kamchatka (h = N).

" 22 Sk ePKP 00 01 00  
Um iP1 00 00 56.4  
Ud iP1 00 01 05.1  
De ePKP 00 01 13  
Santa Cruz Islands  
(h = 110 km).

" 22 Up iP 01 22 09.7 C  
isP 01 23 17.7  
iPP 01 23 40.4

micr sec  
P Z' 0.6 1.1  
Ki iP 01 22 18.7 C  
isP 01 23 26.3  
micr sec  
P Z' 0.6 1.1

Sk iP 01 22 35.2 C  
isP 01 23 43.4  
Um iP 01 22 08.2 C  
isP 01 23 15.9  
Ud iP 01 22 27.0 C  
iP 01 23 13.5  
isP 01 23 36.3  
iPP 01 24 07.3

(cont.)



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

1972				1972			
Feb. 22 (cont.)				Feb. 22 (cont.)			
	De	iP	01 22 22.4 C		De	isP	18 55 40.3
		ipP	01 23 10.5		Andaman Islands.		
		isP	01 23 31.5		h = 50 km (Up,Ki,Um,Ud,De).		
		iPP	01 23 59.1				
	Hindu Kush.			"	22	Up	iP 20 10 57.8 C
	h = 220 km (Up,Ki,Sk,Um,Ud,De).						ipP 20 11 10.6
	m = 6.0 (Up,Ki).						micr sec
						P	Z' 0.1 1.0
"	22	Um	iP 12 58 51.6		Ki	iP	20 10 14.7 C
		Banda Sea (h = 320 km).					micr sec
						P	Z' 0.1 0.9
"	22	Up	iSg1 13 02 34.5		Um	iP	20 10 34.0 C
		Um	iSg1 13 03 08.3		Ud	iP	20 11 04.8 C
		Ud	eSg1 13 03 35		De	iP	20 11 21.3
		De	eSg1 13 04 01		Japan.		
		Esthonia, 59.4°N, 25.3°E.			h = 50 km (Up).		
		Origin time = 13 00 30.			m = 6.0 (Up,Ki).		
		Explosion.		"	22	Ud	i(P) 21 37 56.6
"	22	Up	iSg1 13 16 24.9	"	22	Ki	iPKP2 22 11 59.8
		Ud	iSg1 13 16 28.4			Ud	iPKP2 22 12 07.1
		De	iPg1 13 14 24.8			De	iPKP2 22 11 58.4
			iSg1 13 14 40.8		Balleny Islands (h = N).		
		Baltic Sea, south of Sweden,		"	23	Up	iP 03 18 06.6
		55.5°N, 15.0°E.				Um	iP 03 17 41.7
		Origin time = 13 14 05.				Ud	iP 03 18 12.9 C
		Explosion.				De	iP 03 18 30.6 C
"	22	De	i(Sg1) 15 17 33.4		Kurile Islands (h = 40 km).		
"	22	Ki	eSn 15 32 46	"	23	Up	iP 03 32 32.4
			iSg1 15 33 02.3			Ud	iP 03 32 36.8
		Um	iSn 15 33 15.9			De	iP 03 32 55.6
			iSg1 15 33 30.5		Kurile Islands (h = 40 km).		
		Nordland, Norway.		"	23	Up	iP 03 53 43.2
		Explosion.				Um	iP 03 53 18.5
"	22	Ud	iP 16 20 34.2			Ud	iP 03 53 49.3
		De	eP 16 19 56			De	iP 03 54 07.2
		Greece (h = 70 km).			Kurile Islands (h = 40 km).		
"	22	Up	iP 18 55 12.3 D	"	23	De	i(P) 07 41 06.6
		i	18 55 20.7	"	23	Um	iP 07 42 15.0
		ipP	18 55 25.8			Ud	iP 07 41 59.8
			micr sec		Mona Passage (h = 70 km).		
		P	Z' 0.1 1.0	"	23	Ud	eP 09 53 08
	Ki	iP	18 55 13.9 D		Molucca Passage		
		ipP	18 55 27.5		(h = 90 km).		
	Um	iP	18 55 09.2 D	"	23	Up	iP 10 16 23.5
		ipP	18 55 23.1			Ki	iP 10 17 29.6
	Ud	iP	18 55 24.3 D			Ud	iP 10 16 30.3
		ipP	18 55 37.7			De	iP 10 16 00.4
	De	iP	18 55 22.1 D		Crete.		
		ipP	18 55 35.5				
	(cont.)						

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1972

Feb. 23 Up eSg1 10 52 03  
Ki iSn 10 48 35.9  
Um eSn 10 49 21  
iSg1 10 49 57.8  
Ud eSg1 10 52 34  
De eSg1 10 54 04  
Northwest Russia.  
Explosion.

" 23 De eP 13 03 14  
Afghanistan-USSR  
(h = 180 km).

" 23 Ud iP 14 08 40.9  
De iP 14 08 38.0  
Pamir.

" 23 Up e 18 38 34  
Ki ePKP 18 38 05  
Um iPKP 18 38 12.6  
Ud iPKP 18 38 20.4  
De i(PKP) 18 38 17.5  
iPKP 18 38 28.9  
i 18 38 51.5  
Tonga Islands (h = 50 km).

" 24 Up iP 01 53 35.1  
iP'P' 02 22 41.2  
micr sec  
P Z' 0.2 1.0  
Ki iP 01 52 41.1 C  
micr sec  
P Z' 0.2 1.0  
Um iP 01 53 08.5  
Ud iP 01 53 32.5  
De iP 01 53 56.4  
ipP 01 54 13.4  
Alaska.  
h = 60 km (De).  
m = 6.2 (Up,Ki).

" 24 Up iP 10 24 58.0  
Um iP 10 24 32.1  
Ud iP 10 25 03.9

" 24 Up iP 10 30 22.2  
ipP 10 30 33.2  
Ki iP 10 29 32.4  
Um iP 10 29 55.0  
Ud iP 10 30 26.7  
De iP 10 30 46.9  
Kurile Islands.  
h = 40 km (Up).

" 24 Ud eP 11 39 15  
Mindoro (h = 60 km).

1972

Feb. 24 Ud eP 11 44 14  
i 11 44 25.9  
Luzon (h = 35 km).

" 24 Up i(P) 12 45 42.8

" 24 Up eP 16 04 35  
Um iP 16 04 13.5  
Ud iP 16 04 43.0  
Japan (h = 60 km).

" 24 Ud eP 16 09 17

" 24 Up iSn 18 44 34.2  
iSg1 18 45 13.9  
Ki iSn 18 43 45.2  
Um iPn 18 42 46.6  
iSn 18 43 56.5  
i 18 44 14.3  
Ud iPn 18 42 52.1  
iSn 18 44 08.0  
De eSg1 18 46 15

Norwegian Sea,  
66.2°N, 6.4°E.  
Origin time = 18 41 11.

" 25 Up iPKP 01 36 10.1  
i 01 36 26.4  
iPP 01 38 01.1  
micr sec  
PKP Z' 0.1 0.8  
PP Z' 0.3 1.7  
Mx E 2.5 19  
Mx N 3.4 19  
Mx Z 4.9 21  
Ki iPKP 01 36 25.4 C  
micr sec  
PKP Z' 0.1 1.1  
Mx E 3.3 18  
Mx N 4.7 18

Um iPKP 01 36 16.0  
i 01 36 19.7  
Ud iPKP 01 36 08.3  
i 01 36 09.8  
iPP 01 37 50.0  
De iPKP 01 36 03.8  
i 01 36 04.9  
iPP 01 37 32.8

South Sandwich Islands  
(h = N).  
M = 6.2 (Up,Ki).

" 25 Up iPKP 03 11 47.3  
Um iPKP 03 11 52.9  
Ud iPKP 03 11 46.4  
South Sandwich Islands  
(h = N).

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

1972				1972			
Feb. 25	Up	iRg	08 22 42.1	Feb. 26	(cont.)		
	Ud	iSg1	08 22 51.1		Ki	iP	06 08 27.9
		iRg	08 22 56.9		Um	iP	06 08 50.1
" 25	Up	iPKP	09 02 50.7		Ud	iP	06 09 21.3
		iSKP	09 05 51.0		De	iP	06 09 39.7
			micr sec		Kurile Islands (h = N).		
		PKP	Z' 0.1 0.7	" 26	Up	i(Rg)	12 16 52.2
	Ki	iSKP	09 05 34.7		Ud	i(Rg)	12 16 38.7
	Um	iPKP	09 02 38.4	" 26	Up	iPKP	14 13 17.9
		iSKP	09 05 40.3		Ud	iPKP	14 13 20.0
	Ud	iPKP	09 02 52.6		De	iPKP	14 13 29.8
		iSKP	09 05 52.5	" 26	Um	eP	15 12 44
	De	iPKP	09 03 03.7	" 26	Ki	iP	15 31 15.1
	Tonga-Kermadec Islands				Um	iP	15 31 18.9
	(h = 450 km).				Ud	iP	15 31 41.2
" 25	Up	i(Sn)	10 59 15.0		Molucca Passage (h = 70 km).		
		iSg1	10 59 28.0	" 26	Up	iP	15 38 07.7
	Um	iSg1	11 00 01.3		Um	iP	15 38 05.4
	Ud	eSg1	11 00 29		Mexico-Guatemala (h = N).		
	De	eSg1	11 00 55	" 26	Ki	iSg1	16 05 51.3
	Esthonia, 59.5°N, 25.0°E.				Um	iSg1	16 06 19.0
	Origin time = 10 57 30.				Ud	iSg1	16 07 43.4
	Explosion.				Nordland, Norway.		
" 25	Ud	i(Sg1)	13 15 22.3		Explosion.		
" 25	Um	iSg1	13 49 48.6	" 26	Up	iP	19 06 42.9
	Esthonia.				Ki	iP	19 06 30.1
	Explosion.				Um	iP	19 06 32.1
" 25	Ud	iP	20 29 19.1		Ud	iP	19 06 55.2
	De	iP	20 29 17.6		China (h = N).		
	Windward Islands			" 26	Up	iP	23 39 11.3
	(h = 140 km).				i		23 39 14.1
" 26	Um	iP	02 19 54.9		iPP		23 40 58.8
	Ud	eP	02 20 16		micr sec		
	Pamir.				P	Z'	0.3 1.0
" 26	Up	iP	02 23 42.3		Mx	E	2.1 14
			micr sec		Mx	N	2.3 13
		Mx	N 1.4 19		Mx	Z	5.7 14
		Mx	Z 1.5 19		Ki	iP	23 38 41.2
	Ki	eP	02 22 44		i		23 38 43.7
	Um	iP	02 23 12.9		micr sec		
	Ud	iP	02 23 46.5		P	Z'	0.4 1.0
	Kurile Islands (h = N).				Mx	E	3.0 16
" 26	Up	iP	04 51 15.1		Mx	N	3.8 12
	Um	iP	04 50 50.0		Mx	Z	2.0 12
	Ud	iP	04 51 21.5		Um	iP	23 38 49.4
	Kurile Islands.				i		23 38 53.0
" 26	Up	iP	06 09 15.7		Ud	iP	23 39 25.0 D
	(cont.)				i		23 39 27.4
					(cont.)		

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

1972								1972					
Feb. 26	(cont.)							Feb. 27	(cont.)				
	De	iP	23 39 37.7						Ud	iP3	12 20 16.5		
		i	23 39 40.2							iP4	12 20 21.5		
	USSR-Mongolia (h = N).								De	eP3	12 19 54		
	m = 6.0, M = 5.5 (Up,Ki).									iP4	12 19 58.9		
	Double P, in average 2.8 sec apart.								West of Gibraltar (h = N).				
									P1, P2, P3 and P4 denote multiple P-phases.				
"	27	Ki	iSn	03 25 16.3				"	27	Um	iP	13 44 45.3	
			iSg1	03 25 38.5						Ud	iP	13 44 28.6	
		Um	iSn	03 25 54.8									
			iSg1	03 26 28.3						"	27	Ki	iP
		Ud	eSg1	03 29 05								Um	iP
		Northwest Russia.										Ud	iP
		Explosion.										Alaska (h = 50 km).	
"	27	Um	iP	04 57 37.1				"	27	Um	eP	15 51 27	
		Ud	iP	04 57 59.9									
"	27	Um	iP	07 21 12.3				"	27	Up	iP	22 22 26.9	
		Haiti (h = 15 km).								Um	iP	22 22 04.1	
										Ud	iP	22 22 41.0	
"	27	Up	iP1	10 08 57.3						Siberia.			
				micr sec						"	27	Ud	eP
			P1	Z' 0.1 1.4								23 44 08	
		Ki	iP1	10 07 30.8						"	28	Up	iP
			iP2	10 07 38.1								Um	iP
				micr sec								Ud	iP
			P2	Z' 0.1 1.4								Turkey (h = 5 km).	
		Mx	E	0.9 13						"	28	Um	iPKP
		Mx	N	0.7 10								Ud	iPKP
		Mx	Z	0.6 9								South of Kermadec Islands.	
		Um	iP1	10 08 12.8								Deep.	
			iP2	10 08 18.9						"	28	Ud	iP
		Ud	iP1	10 08 56.3								05 26 55.5	
			iP2	10 09 05.2						"	28	Ud	iP
		De	iP1	10 09 26.8								Ionian Islands.	
		Arctic Ocean (h = N).											
		m = 5.2 (Up,Ki).											
		Double P, in average 7.5 sec apart.											
"	27	Up	iP	11 19 37.3				"	28	Up	i(PKP2)	06 35 28.2	
		Um	eP	11 19 47						Ki	iPKP	06 34 57.8	
		Ud	iP	11 19 48.2						Um	iPKP	06 35 06.9	
		Indian Ocean (h = N).								Ud	i(PKP2)	06 35 35.3	
										New Zealand (h = 210 km).			
"	27	Up	eP3	12 20 27				"	28	Ud	iP	10 19 37.6	
			iP4	12 20 31.8						De	iP	10 19 05.9	
		Ki	eP3	12 21 26						Greece.			
			iP4	12 21 29.9						"	28	Up	iP
		Um	iP1	12 20 47.3								iP	10 57 49.6
			iP3	12 20 59.5								ipP	10 57 53.1
			iP4	12 21 04.6									micr sec
		Ud	iP1	12 20 04.7								pP	Z' 0.1 1.0
			iP2	12 20 12.4								(cont.)	
		(cont.)										(cont.)	

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

1972				1972			
Feb. 28	(cont.)			Feb. 28			
	Up		micr sec		Up	eP	18 20 07
	Mx	E	0.9 16		Um	eP	18 20 10
	Mx	N	1.0 12		Ud	iP	18 20 23.6
	Mx	Z	1.3 11		Afghanistan.		
	Ki	eP	10 58 54	" 28	Up	iP	18 52 06.4
		i	10 59 01.6		Ki	eP	18 52 46
			micr sec		Um	eP	18 52 21
	Mx	E	1.7 13		Ud	iP	18 52 22.0
	Mx	N	0.5 13			i	18 52 30.8
	Um	eP	10 58 23		De	eP	18 52 05
		ipP	10 58 27.4		Iran (h = 25 km).		
		i	10 58 42.3	" 28	Ud	iP	19 07 16.2
	Ud	iP	10 57 58.0	" 28	Ud	iP	19 09 30.8
		ipP	10 58 01.7	" 28	Up	iP	19 14 18.4
	De	iP	10 57 23.6		Ki	iP	19 14 58.2
		ipP	10 57 25.8		Um	eP	19 14 32
		i	10 57 38.5		Ud	iP	19 14 33.4 D
	Greece.				De	iP	19 14 16.3
	h = 15 km (Up,Um,Ud,De).				Iran.		
	M = 4.8 (Up,Ki).			" 28	Up	iP	19 39 14.4
" 28	Ki	ePKP	12 26 33		Ud	iP	19 39 29.3
		i	12 26 37.2	" 28	Up	eSg1	20 28 25
	Um	ePKP	12 26 40		Ki	ePg1	20 25 40
		i	12 26 43.6			iSg1	20 26 17.8
	New Zealand.				Um	iSn	20 26 32.1
" 28	Um	iSg1	12 56 35.3			iSg1	20 26 46.0
	Western USSR.				Ud	iSg1	20 28 11.2
	Explosion.				Nordland, Norway,		
" 28	Ki	iP	15 45 37.3		66.5°N, 14.0°E.		
	Ud	iP	15 43 59.6		Origin time = 20 24 48.		
	De	iP	15 43 08.1		Explosion?		
		iS	15 44 27.1	" 28	De	i(P)	22 41 06.1
	Germany (h = 10 km).			" 28	Up	iP	23 08 37.0
" 28	Ud	iP	16 31 16.8		Ud	iP	23 08 52.3
" 28	Up	eP	16 52 08	" 28	Ud	iP	23 13 54.3
	Ud	iP	16 52 22.9		Up	iP	23 37 39.3
	Iran (h = 55 km).			" 28	Ud	iP	23 37 54.4
" 28	Up	iP	17 23 46.8	" 28	Ud	iP	23 46 37.5
	Ki	iP	17 22 47.2	" 29	Um	iP	00 51 59.2
" 28	Ud	iP	17 30 07.2	" 29	Up	ePKP	01 10 59
" 28	Up	iP	17 42 16.8		Ud	iPKP	01 11 01.6
	Ki	iP	17 41 37.2		De	iPKP	01 11 12.4
	Um	iP	17 41 54.1 D				
	Ud	iP	17 42 25.2				
	De	eP	17 42 41				
	Sikhota Alin (h = 460 km).						
" 28	Ud	iP	18 15 58.8				

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

1972

Feb. 29 Up iP1 09 34 41.5 C  
 iP2 09 34 43.5  
 iP3 09 34 52.2  
 iPP 09 37 41.7  
 iS 09 44 18  
 micr sec  
 P1 Z' 0.2 1.0  
 P2 Z' 1.2 0.7  
 P3 Z' 2.1 0.7  
 Mx E 250 25  
 Mx N 190 21  
 Mx Z 240 21  
 Ki iP1 09 34 04.7 C  
 iP2 09 34 06.7  
 iP3 09 34 14.7  
 iS 09 43 03  
 iP'P' 10 02 05.0  
 micr sec  
 P1 Z' 0.1 1.0  
 P2 Z' 0.9 1.1  
 P3 Z' 2.0 0.7  
 Mx E 380 20  
 Mx N 310 20  
 Mx Z 160 17  
 Um iP1 09 34 20.6 C  
 iS 09 43 35  
 Ud iP1 09 34 48.5 C  
 iP2 09 34 50.6  
 iP3 09 34 59.5  
 iS 09 44 35.8  
 De iP1 09 35 03.6 C  
 iP2 09 35 05.6  
 iP3 09 35 14.3  
 iPP 09 38 15.8  
 iS 09 45 03.0  
 Japan (h = 55 km).  
 m = 6.1 (P1), 7.0 (P2),  
 7.4 (P3), M = 7.7 (Up,Ki).  
 Multiple P-phases:  
 P2 - P1 = 2.0 sec,  
 P3 - P1 = 10.6 sec.

" 29 Up iP 09 54 22.5 C  
 iPP 09 57 11.9  
 micr sec  
 P Z' 0.4 1.0  
 Ki iP 09 53 45.7  
 iPP 09 56 22.3  
 micr sec  
 P Z' 0.3 1.0  
 Sk eP 09 54 20  
 ePP 09 57 06  
 Um iP 09 54 02.0 C  
 Ud iP 09 54 30.0 C  
 De iP 09 54 45.2 C  
 iPP 09 57 46.1  
 Japan (h = 60 km).  
 m = 6.5 (Up,Ki).

1972

Feb. 29 Up iP 10 01 47.0  
 Ki eP 10 01 10  
 Um eP 10 01 23  
 Ud iP 10 01 53.1  
 Japan.  
 Origin time = 09 50 04.

" 29 Up iP 10 01 30.9

" 29 Up iP 11 19 39.4  
 Ki iP 11 19 02.7  
 Sk eP 11 19 36  
 Um iP 11 19 18.7  
 i 11 19 22.1  
 Ud iP 11 19 46.9  
 De iP 11 20 01.0  
 Japan (h = 50 km).

" 29 Ud iP 11 30 17.6

" 29 Ki iS 11 34 44.3  
 Norwegian Sea.

" 29 Um iP 11 38 51.4  
 Ud iP 11 39 22.7  
 Japan (h = 50 km).

" 29 Um iSg1 12 03 35.5  
 Ud eSg1 12 04 17  
 Western USSR.  
 Explosion.

" 29 Up iP 12 13 06.9  
 Ki eP 12 12 31  
 Sk eP 12 13 05  
 Um iP 12 12 46.1  
 Ud iP 12 13 14.2  
 De eP 12 13 30  
 Japan (h = 55 km).

" 29 Ki iP 12 32 21.0  
 Um iP 12 32 33.8  
 Japan (h = 70 km).

" 29 Up iP 13 00 04.3  
 Ki iP 12 59 27.5  
 Sk eP 13 00 01  
 Um iP 12 59 43.4  
 Ud iP 13 00 11.7  
 Japan (h = 70 km).

" 29 Up iP 13 04 13.1  
 Um iP 13 03 51.8  
 ipP 13 04 04.7  
 Japan.  
 h = 50 km (Um).

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

1972				1972				
Feb. 29	Um	iP	13 07 56.9	C	Feb. 29	Um	iP	21 08 03.1
	Ud	eP	13 08 27			Ud	eP	21 08 34
	Japan (h = 60 km).					Japan (h = 55 km).		
" 29	Up	iP	13 12 55.5		" 29	Um	iP	21 11 34.6
	Ki	iP	13 12 35.4			Japan (h = 70 km).		
	Um	iP	13 12 41.9		" 29	Up	eP	21 16 29
	Ud	iP	13 13 04.7			Ud	iP	21 16 19.4
	De	iP	13 13 11.5			Luzon (h = 35 km).		
" 29	Um	iP	13 43 00.6		" 29	Up	eP	21 36 29
	Ud	eP	13 43 33			Sk	iP	21 37 09
	Japan (h = 60 km).					Um	iP	21 37 10.5
	Italy.				" 29	Up	iP	23 54 02.6
" 29	Ud	i(P)	15 42 14.8					
" 29	Um	iP	16 33 02.8			Japan (h = 50 km).		
" 29	Up	eP	16 59 26					
	Um	iP	16 59 07.0					
	Ud	eP	16 59 34					
	Japan (h = 50 km).							
" 29	Up	eSg1	19 25 11					
	Ki	iPn	19 20 18.8					
		i(Pg1)	19 20 27.1					
		iSn	19 21 04.8					
		iS*	19 21 17.8					
	Sk	eSg1	19 24 10					
	Um	iSn	19 22 15.4					
		iSg1	19 22 53.4					
	Ud	eSg1	19 25 21					
	Northwest Russia-Norway border region, 69.5°N, 29.7°E. Origin time = 19 19 18. Explosion.							
" 29	Ki	eP	19 55 44					
	Um	iP	19 55 34.2					
	Hindu Kush. Intermediate depth.							
" 29	Ki	i(P)	20 14 15.6					
" 29	Up	eP	20 58 31					
		i	20 58 44.5					
	Sk	eP	20 59 14					
	Um	iP	20 59 16.1					
	Ud	iP	20 58 35.3					
	De	e(P)	20 57 58					
	Adriatic Sea (h = N).							
						Markus Båth		
						Ota Kulhánek		
						Klaus Meyer		
						Rutger Wahlström		
						May 4, 1974		

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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

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.....

1972					1972				
Mar.	1	Um	iP	03 36 38.9	Mar.	1	(cont.)		
				Japan (h = 50 km).			Ki	micr	sec
"	1	Up	iP	04 03 27.9			P	Z'	0.1 1.0
		Ki	iP	04 03 37.8			Mx	E	3.2 16
		Sk	iP	04 03 16.9			Mx	N	4.2 19
		Ud	iP	04 03 17.7			Mx	Z	3.8 18
				Windward Islands			Sk	eP	09 40 12
				(h = 100 km).			Um	iP	09 40 21.6
"	1	Um	i(Sgl)	06 04 32.3			Ud	iP	09 40 31.9
"	1	Up	i(PKP)	09 23 54.7			ipP		09 40 38.7
		Ki	i(PKP)	09 23 41.1			De	iP	09 40 50.7
			ipKP	09 23 49.8			ipP		09 40 57.1
		Sk	e(PKP)	09 23 50			California.		
		Um	ipKP	09 23 54.0			h = 25 km (Ud,De).		
		Ud	i(PKP)	09 23 54.9	"	1	Ud	iP	10 04 54.9
		De	ipKP	09 24 06.3			Caucasus.		
				Tonga Islands (h = N).	"	1	Um	eP	10 17 12
"	1	Up	iP	09 37 18.8			Japan (h = 45 km).		
		Ki	iP	09 36 42.1	"	1	Up	i(Sn)	12 47 56.6
			ipP	09 36 55.2			Sk	iSgl	12 50 10.5
		Sk	iP	09 37 14.4			Um	eS*	12 48 41
		Um	iP	09 36 58.2			iSgl		12 48 46.2
		Ud	iP	09 37 26.0			Ud	iSgl	12 49 25.6
		De	eP	09 37 44			De	iSgl	12 49 50.2
				Japan.			Western USSR.		
				h = 50 km (Ki).			Explosion.		
"	1	Up	iP	09 40 38.8	"	1	Up	iP	13 20 56.9
				micr sec			Ki	iP	13 20 23.3
		P	Z'	0.2 1.2			Sk	eP	13 20 53
		Mx	E	3.1 18			Um	iP	13 20 36.1
		Mx	N	4.8 16			Ud	iP	13 21 06.6
		Mx	Z	5.3 18			Japan (h = 60 km).		
		Ki	iP	09 39 59.5	"	1	De	iP	13 51 46.0
		(cont.)							



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

1972				1972			
Mar.	1	Ud	i(P)	14 09 54.5	Mar.	2	(cont.)
"	1	De	iP	14 21 33.4			Ud iP 10 06 39.7
"	1	Um	i(P)	15 13 11.8	"	2	Formosa-Luzon (h = N).
"	1	Um	iP	19 38 26.6			Up iP 10 11 01.2
		Ud	eP	19 38 32			Um iP 10 10 39.6
		Caucasus.					Ud iP 10 11 06.8
"	1	Ud	iPKP	20 53 17.3			ipP 10 11 20.5
		De	iPKP	20 53 29.4			Japan.
"	1	Ki	i(P)	21 39 17.2	"	2	h = 50 km (Ud).
"	1	Ki	i(Sgl)	23 19 29.6	"	2	Ki iP 10 27 38.7
		Um	i(Sgl)	23 19 14.0			Fiji Islands (h = 60 km).
"	2	Sk	iSgl	01 30 07.8	"	2	Up iP 10 57 01.4
		Um	e	01 29 46			Ki iP 10 57 02.0
			iSgl	01 30 08.6			micr sec
"	2	Um	eP	02 12 14			P Z' 0.1 1.2
		Japan (h = 45 km).					Sk iP 10 56 48.3 D
"	2	Up	iP	03 28 45.0			i 10 56 51.7
		Ki	iP	03 28 46.0			Um iP 10 57 04.0
		Um	iP	03 28 42.6			i 10 57 07.7
		Sumatra (h = N).					Ud iP 10 56 51.8
"	2	Um	iP	04 17 49.0			i 10 56 54.6
		Japan (h = 40 km).					i 10 57 00.1
"	2	Um	eP	05 16 33			De iP 10 56 54.8
"	2	Up	iP	07 04 27.7			i 10 56 57.8
		Um	iP	07 04 11.0			i 10 57 03.0
		Ud	iP	07 04 35.8			Colombia (h = N).
		Bonin Islands (h = 490 km).					Multiple P, in average 3.2
"	2	Up	iP	09 25 44.8			and 8.3 sec after the first
		Ki	eP	09 24 08			onset.
		Sk	eP	09 24 40	"	2	Up eP 11 21 17
		Um	iP	09 24 24.1			Um iP 11 20 58.1
		Ud	iP	09 24 52.0			Ud eP 11 21 26
		De	e(pP)	09 25 20			Japan (h = 60 km).
		Japan (h = 45 km).					"
"	2	Ki	ePKP	09 49 07			Um iP 12 22 37.2
		Um	iPKP	09 49 14.2			Ud iP 12 22 59.4
		Ud	ePKP	09 49 24			Formosa-Luzon (h = 35 km).
		New Hebrides Islands					"
		(h = 35 km).					Up iS 12 54 34.5
"	2	Up	iP	10 06 29.6			Ki iP 12 50 36.8
		Um	iP	10 06 16.4			Sk iP 12 51 05.3
		(cont.)					iS 12 52 47.9
							Um iP 12 51 22.3
							eS 12 53 15
							Ud iP 12 51 56.5
							i 12 54 37.8
							De e(P) 12 52 57
							Norwegian Sea (h = N).
"	2	Up	eP	14 16 58	"	2	Up eP 14 16 58
		Um	e(PP)	14 17 38			Um e(PP) 14 17 38
		Ud	iP	14 17 03.2			Ud iP 14 17 03.2
		Caucasus.					

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

1972				1972			
Mar.	2	Ud	iP	14 18 12.2	Mar.	3	(cont.)
"	2	Um	iP	14 58 09.2			Ki iP 02 23 03.8
		Ud	eP	14 58 38			Sk eP 02 23 41
		Japan (h = 70 km).					Um iP 02 23 25.5
"	2	Ud	iP	15 27 40.6			Ud iP 02 23 56.8
"	2	Ki	iSgl	16 19 03.6	"	3	De eP 02 24 17
		Sk	eSgl	16 19 10			Kurile Islands (h = 140 km).
		Um	iSn	16 19 18.1	"	3	Um iP 07 40 27.2
			iSgl	16 19 31.3			Gulf of Aden.
		Nordland, Norway, 66.5°N, 14.1°E. Origin time = 16 17 35. Explosion.			"	3	Up iP 11 53 56.9
"	2	Up	iPKP	17 15 45.4			Um iP 11 53 35.6
		Ud	iPKP	17 15 46.1			Ud iP 11 54 03.2
		De	iPKP	17 15 57.6			Japan (h = 60 km).
"	2	Um	i(P)	19 17 20.1	"	3	Um e(S*) 12 35 20
		Aleutian Islands (h = 55 km).					iSgl 12 35 31.0
"	2	Um	iP	20 07 24.6			Western USSR. Explosion.
"	2	Up	iP	20 21 49.8 C	"	3	Um iP 14 31 03.6
		ipP		20 22 05.6			Japan (h = 60 km).
		iPP		20 24 36.7	"	3	De i(P) 14 43 33.1
				micr sec	"	3	De iP 15 10 52.8
		P	Z'	0.2 0.9	"	3	De eP 15 17 48
		Ki	iP	20 21 12.9 C	"	3	Um iP 15 17 52.1
		ipP		20 21 28.8			Ud eP 15 18 20
		iPP		20 23 49.2			Japan (h = 60 km).
				micr sec	"	3	Ud iPgl 15 20 52.8
		P	Z'	0.2 1.0			iRg 15 21 06.0
		Sk	iP	20 21 44.9 C	"	3	Um iP 16 22 09.5
		ipP		20 22 00.4	"	3	Um iP 16 23 58.6
		iPP		20 24 28.8			Ud iP 16 24 26.6
		Um	iP	20 21 29.2 C			Japan (h = 55 km).
		ipP		20 21 44.6	"	3	Um eP 20 10 55
		iPP		20 22 12.8	"	3	Ud iP 20 56 27.7
		Ud	iP	20 21 56.8 C	"	3	Um iP 21 20 11.7
		ipP		20 22 12.8	"	3	Up ePP 21 30 48
		iPP		20 22 10.6 C			Ki iPP 21 32 33.5
		Japan, h = 60 km (Up, Ki, Sk, Um, Ud). m = 6.2 (Up, Ki).					Sk eP 21 31 18
"	2	Um	iP	21 24 06.6			Um iP 21 31 17.6
		Japan (h = 70 km).					Ud eP 21 30 41
"	2	Ki	iP	21 40 13.8			iPP 21 31 00.7
"	3	Um	iP	00 53 14.5			De eP 21 29 48
"	3	Up	iP	02 23 51.1			Yugoslavia (h = 30 km).
		(cont.)					



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

1972				1972			
Mar.		(cont.)		Mar.		(cont.)	
	4	Ki iP	19 14 37.3 C		5	67.7°N, 34.1°E.	
			micr sec			Origin time = 09 52 42.	
		P	Z' 0.4 1.0			Explosion.	
		Mx	E 5.1 14		5	Up eP	10 18 33
		Mx	N 5.9 14			Um iP	10 18 12.5
		Mx	Z 7.0 16			Ud eP	10 18 40
		Sk iP	19 14 48.0 D			Japan (h = 40 km).	
		iS	19 16 38.1		5	Ud iP	10 21 28.3
		Um iP	19 15 13.6 C		5	Um iP	10 32 47.4
		Ud iP	19 15 33.8 D			Ud eP	10 33 16
		i	19 15 45.9			Japan (h = 45 km).	
		De iP	19 16 20.1				
		Jan Mayen (h = N).					
		m = 5.4, M = 4.8 (Up, Ki).					
"	4	Um iP	19 35 15.1	"	5	Um eP	11 50 11
		Ud iP	19 35 35.8			ePKP	11 54 24
		Hindu Kush (h = 230 km).				Banda Sea (h = 100 km).	
"	4	Um iP	22 17 01.6	"	5	Um i(P)	13 06 00.0
		Central America (h = 60 km).				Aleutian Islands (h = 50 km).	
"	4	Ki i(PcP)	23 46 16.4	"	5	Ud iP	13 08 20.6
		Aleutian Islands (h = 55 km).		"	5	Sk iP	15 32 57.5
"	5	Um iP	01 49 43.5			Zambia (h = N).	
		Japan (h = 60 km).		"	5	Ki eP	18 04 32
"	5	Up iP	03 14 40.9			ipP	18 04 42.2
		Ki iP	03 13 47.3			Um iP	18 04 59.0
		iPcP	03 14 29.8			ipP	18 05 09.5
		Sk eP	03 14 19			Ud iP	18 05 23.5
		Um iP	03 14 14.1			ipP	18 05 34.3
		Ud iP	03 14 39.5			Unimak Island.	
		De iP	03 15 03.2			h = 40 km (Ki, Um, Ud).	
		Aleutian Islands (h = N).		"	5	Ki iP	19 17 25.6
"	5	Ki eP	06 15 22			Hindu Kush.	
		Um iP	06 15 01.3			Intermediate depth.	
		Arabian Sea (h = N).		"	5	Um iP	23 50 28.1
"	5	Um eP	07 17 33	"	6	Ud iPKP	00 44 50.8
"	5	Um iP	09 46 27.0			De iPKP	00 45 01.0
		Caucasus.		"	6	Um iP	09 08 00.4
"	5	Up eSgl	09 58 11	"	6	Um iP	09 19 06.1
		Ki iPn	09 54 00.5	"	6	Up i(Sn)	12 59 15.2
		iSn	09 54 59.5			iSgl	12 59 28.5
		iSgl	09 55 22.2			Ki e(Sgl)	13 02 04
		Sk iSgl	09 57 48.5			Sk eSgl	13 01 17
		Um iSn	09 55 41.0			Um iSgl	13 00 01.3
		iSgl	09 56 13.5			Ud iSgl	13 00 31.7
		Ud eSgl	09 58 50			(cont.)	
		Northwest Russia,					
		(cont.)					

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

1972				1972			
Mar.	6	(cont.)		Mar.	6	(cont.)	
		De eSgl	13 00 55			Ud iPcP	19 00 24.7
		Esthonia, 59.5°N, 25.0°E.				ipP	19 01 49.5
		Origin time = 12 57 30,				Okhotsk Sea.	
		Explosion.				h = 580 km (Up,Ki,Sk,Um,Ud).	
						m = 6.0 (Up,Ki).	
"	6	Um i(Sgl)	13 56 13.8	"	6	Up iP	19 15 25.9
"	6	Um iP	14 18 30.5			Ki iP	19 15 26.8
		Botswana (h = N).				ipP	19 15 36.3
"	6	Um i(P)	15 06 06.2			i	19 15 47.0
"	6	Ki iSgl	16 04 34.3				micr sec
		Sk iSgl	16 05 02.6			P	Z' 0.1 1.0
		Um iPgl	16 03 22.3			Um iP	19 15 23.4
		iSgl	16 03 37.2			ipP	19 15 31.9
		Västerbotten, Sweden,				Ud iP	19 15 35.9
		64.8°N, 20.4°E.				Sumatra.	
		Origin time = 16 03 04.				h = 35 km (Ki,Um).	
"	6	Um iP	17 03 45.0	"	7	Um iP	00 45 08.8
		South of Japan (h = 360 km).				Ud iP	00 45 30.8
"	6	Ki iP	17 06 51.9	"	7	Um iP	03 21 53.1
		Hindu Kush.				Ud eP	03 22 21
"	6	Um i(P)	18 04 53.1			Japan (h = 60 km).	
"	6	Ki iPn	18 38 20.6	"	7	Up iPKP	04 58 16.1
		iSn	18 39 06.6			Ud iPKP	04 58 18.2
		iS*	18 39 19.3	"	7	Um iP	05 25 27.1
		Sk eSgl	18 42 06			Ud iP	05 25 02.0
		Um eSn	18 40 21			(Albania).	
		iSgl	18 40 53.7	"	7	Up iX2	06 31 55.7
		Ud iSgl	18 43 26.0				micr sec
		Northwest Russia-Norway				X2	Z' 0.1 1.0
		border region,				Mx	E 2.0 21
		69.5°N, 30.2°E.				Mx	N 4.5 21
		Origin time = 18 37 20.				Ki iP	06 31 21.5
		Explosion.				iX1	06 31 27.2
"	6	Up iP	18 59 51.0 D			iX2	06 31 33.0
		iPcP	19 00 21.2				micr sec
		ipP	19 01 48.9			X2	Z' 0.1 1.0
			micr sec			Mx	E 1.5 20
		P	Z' 0.6 1.0			Mx	N 2.0 18
		Ki iP	18 59 03.7 D			Sk eP	06 31 55
		ipP	19 00 58.3			iX2	06 32 06.5
			micr sec			Um eX1	06 31 35
		P	Z' 0.8 1.0			iX2	06 31 41.4
		Sk iP	18 59 39.1 D			Ud eP	06 31 56
		ipP	19 01 36.1			iX2	06 32 07.9
		Um iP	18 59 25.6 D			De eX1	06 32 09
		iPcP	19 00 05.3			Formosa (h = N).	
		ipP	19 01 18.9			m = 5.9, M = 5.7 (Up,Ki).	
		Ud iP	18 59 56.9 D	"	7	Up iPKP	08 04 37.1
		(cont.)				ipPKP	08 05 30.6
						(cont.)	

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

1972

Mar.	7	(cont.)			
		Up	iSKP	08 08	03.7
			iX	08 14	59.3
					micr sec
			PKP	Z'	0.7 0.5
			pPKP	Z'	0.7 1.1
			Mx	E	4.3 30
			Mx	N	3.4 26
			Mx	Z	3.5 23
		Ki	i(PKP)	08 04	16.1
			iPKP	08 04	23.0
			iPP	08 07	17.7
					micr sec
			PKP	Z'	0.5 1.1
			PP	Z'	0.9 2.3
		Sk	iPKP	08 04	32.1 D
			ipPKP	08 05	24.8
			iSKP	08 07	54.6
			eX	08 15	13
		Um	iPKP	08 04	27.0
			iSKP	08 07	52.8
			iX	08 15	22.3
		Ud	iPKP	08 04	38.7
			ipPKP	08 05	30.5
		De	iPKP	08 04	44.8
			i	08 04	51.1
			ipPKP	08 05	40.9
		Kermadec Islands.			
		h = 200 km (Up,Sk,Ud,De).			
		The phase X travels over the greater arc, but its identification did not prove possible with standard tables.			
"	7	Ud	eP	08 47	29
"	7	Up	iPKP	10 23	57.8
		Sk	iPKP	10 23	50.1
		Um	iPKP	10 23	44.8
		Ud	iPKP	10 23	59.4
		De	iPKP	10 24	08.8
"	7	Um	iP	10 57	45.9
		Ud	iP	10 57	14.5
"	7	Ki	iP2	11 13	27.0
		Um	iP1	11 13	38.6
			iP2	11 13	43.0
		Ud	iP2	11 14	11.1
		Japan (h = 40 km).			
"	7	Um	iP	13 02	41.4
"	7	Um	iP	14 08	02.3
"	7	Up	iP2	14 10	07.5
		(cont.)			

1972

Mar.	7	(cont.)			
		Ki	iP2	14 09	55.9
					micr sec
			P2	Z'	0.2 1.4
		Sk	iP1	14 09	40.2
			iP2	14 09	48.2
		Um	eP1	14 09	56
			iP2	14 10	04.5
		Ud	eP1	14 09	51
			iP2	14 09	57.0
		Mexico (h = N).			
"	7	Sk	eP2	14 18	57
		Um	iP2	14 19	12.8
		Ud	eP1	14 19	02
		Mexico (h = 35 km).			
		The notation P1 and P2 used here and in some following Mexican events, follows the notation in the preceding event.			
"	7	Up	iP	14 36	14.8
		Ud	iP	14 36	02.9
"	7	Up	iP	16 56	43.8
		Ki	iP	16 56	37.7
		Um	iP	16 56	36.3
		Ud	iP	16 56	56.7
		Burma-India (h = 140 km).			
"	7	Ki	iSgl	17 36	58.7
		Sk	iSgl	17 37	02.7
		Um	iSgl	17 37	26.2
		Nordland, Norway, 66.5°N, 13.9°E. Origin time = 17 35 28. Explosion.			
"	7	Ud	iP	21 16	03.4
"	7	Um	eP	22 32	19
			i	22 32	27.6
"	8	Um	iP	00 30	18.1
		Ud	iP	00 30	46.1
		Japan (h = 70 km).			
"	8	Up	eP	01 02	32
"	8	Up	iPKP	01 44	18.2
			i	01 44	25.5
		Sk	iPKP	01 44	15.1
			ipPKP	01 44	28.0
		Um	iPKP	01 44	07.5
			ipPKP	01 44	19.8
		Ud	iPKP	01 44	19.6
		(cont.)			

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

1972				1972			
Mar.	8	(cont.)		Mar.	8	(cont.)	
		Ud ipPKP	01 44 32.9			Sk iPl	10 17 58.1
		South of Kermadec Islands.				Um iPl	10 18 17.3
		h = 50 km (Sk,Um,Ud).				Ud iPl	10 18 07.3
						Mexico (h = N).	
"	8	Um i(Sgl)	02 39 53.3	"	8	Sk eP	10 30 30
"	8	Um iP	03 45 03.3			Ud eP	10 30 00
		Banda Sea (h = 120 km).				Greece.	
"	8	Up iP	03 59 30.5	"	8	Ki eP	11 23 17
		ePKP	04 03 54			Sk eP	11 23 49
			micr sec			Um iP	11 23 30.8
		Mx E	2.5 25			ipP	11 23 43.2
		Mx N	2.6 24			Ud iP	11 23 58.6
		Mx Z	3.3 26			Japan.	
		Ki iP	03 59 13.0			h = 45 km (Um).	
			micr sec	"	8	Ud iSgl	11 35 27.0
		P Z'	0.1 1.1			De ePgl	11 33 33
		Mx E	3.7 20			iSgl	11 33 44.3
		Mx N	2.6 19			South Sweden.	
		Mx Z	3.0 19			Origin time = 11 33 19.	
		Sk iP	03 59 34.4	"	8	Up i(Rg)	13 01 00.3
		ePKP	04 03 54			Ud i(Rg)	13 00 56.7
		iPP	04 04 21.7	"	8	Sk i(P)	14 58 55.2
		Um iP	03 59 18.9	"	8	Up iP	15 33 44.2
		ipP	03 59 26.8			Ki iP	15 32 50.5
		iPKP	04 03 33.6			Sk eP	15 33 21
		iPKKP	04 15 22.2			Um iP	15 33 18.3
		Ud iP	03 59 38.2			Ud iP	15 33 43.0
		ipP	03 59 47.4			De eP	15 34 15
		iPP	04 04 35.5			Alaska (h = 20 km).	
		De ePKP	04 03 59	"	8	Up ipPKP	16 28 41.4
		New Guinea.				Sk ipPKP	16 28 34.1
		h = 30 km (Um,Ud).				Um ipPKP	16 28 29.2
		M = 6.0 (Up,Ki).				Ud ipPKP	16 28 43.3
"	8	Sk eP2	05 33 12			De ipPKP	16 28 51.8
		Um iP2	05 33 28.3	"	8	Um iP	18 21 01.8
		Ud ePl	05 33 18	"	8	Up iP	19 55 53.4
		Mexico (h = N).				Ki iP	19 55 17.2
"	8	Up iP	06 26 31.6			Sk iP	19 55 48.5
		Ki iP	06 25 38.9 C			Um iP	19 55 32.8
		Um iP	06 26 06.1 C			ipP	19 55 48.3
		i	06 26 22.5			Ud iP	19 56 00.3
		Ud iP	06 26 31.0 C			De eP	19 56 14
		Aleutian Islands (h = 45 km).				Japan.	
"	8	Up eP	08 26 27			h = 60 km (Um).	
		Sk eP	08 27 16	"	8	Up iP	21 56 56.8
		Ud iP	08 26 36.2			(cont.)	
		De ipP	08 26 30.1				
		Greece (h = 120 km).					
"	8	Ki eP2	10 18 14				
		(cont.)					

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

1972					1972					
Mar.	8	(cont.)			Mar.	9	Ki	iPKP	18 23 39.3	
		Ki	iP	21 57 28.7				i	18 24 09.3	
		Sk	iP	21 57 29.8			Um	iPKP	18 23 32.1	
		Um	iP	21 57 08.0			Ud	iPKP	18 23 22.7	
		Ud	iP	21 57 11.7			South Sandwich Islands			
		De	iP	21 56 57.3			(h = N).			
		Iran (h = 45 km).				"	9	Up	iP	21 34 37.5
"	9	Up	Mx	06 02	"	10	Ki	eP	01 19 51	
				micr sec			Um	iP	01 20 29.7	
		Mx	E	0.9 22	"	10	Um	iP	01 30 01.2	
		Mx	N	0.9 21	"	10	Up	eP	02 34 21	
		Mx	Z	1.4 21			Ki	iP	02 33 47.1	
		Ki	Mx	06 00			Sk	iP	02 34 17.2	
				micr sec			Um	iP	02 34 00.0	
		Mx	E	1.7 19			Ud	iP	02 34 28.2	
		Mx	N	1.0 19			Japan (h = 70 km).			
		Mx	Z	0.9 20						
		Fiji Islands (h = 140 km).			"	10	Up	iP	05 03 52.9 C	
		M = 5.8 (Up,Ki).						iPn	05 04 58.4	
"	9	Um	iP	09 31 49.1				iPP	05 05 11.9	
		Banda Sea (h = 150 km).						P	Z' 0.2 1.0	
"	9	Sk	eP	11 41 00			Ki	iP	05 03 37.4 C	
"	9	Um	iP	11 59 03.3				i	05 03 44.2	
		Aleutian Islands						P	Z' 0.3 0.7	
		(h = 40 km).					Sk	iP	05 04 08.4 C	
"	9	Ki	eP	13 40 21				iPP	05 05 30.6	
		Um	iP	13 40 33.9			Um	iP	05 03 38.2 C	
"	9	Sk	eSgl	15 19 16				iPn	05 04 28.1	
		Ud	iSgl	15 18 14.8			Ud	iP	05 04 09.5 C	
		Southwest Norway.						iPn	05 05 22.1	
		By combination with						iPP	05 05 33.6	
		Kongsberg readings.					De	iP	05 04 16.6 C	
"	9	Ki	eP	15 39 32				iPP	05 05 42.3	
		Sk	e(pP)	15 40 15			Kazakh SSR.			
		Um	iP	15 39 58.2			m = 6.2 (Up,Ki).			
			ipP	15 40 11.3			Underground explosion.			
		Ud	iP	15 40 23.4	"	10	Ki	eP	06 57 43	
		De	iP	15 40 46.5			Um	iP	06 57 37.1	
		Aleutian Islands.			"	10	Ud	iP	07 01 23.3	
		h = 50 km (Um).			"	10	Sk	eP	08 06 04	
"	9	Ud	eP	15 46 54				i	08 06 09.1	
"	9	Ki	iSgl	16 24 07.4	"	10	Um	iPKP	09 28 49.5	
		Sk	iSgl	16 24 12.1				i	09 29 00.2	
		Um	iSgl	16 24 35.8			Ud	iPKP	09 29 02.3	
		Nordland, Norway,					Kermadec Islands (h = 60 km).			
		66.5°N, 14.0°E.								
		Origin time = 16 22 38.								
		Explosion.								



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

1972				1972				
Mar.	10	Ud	iP	10 18 15.0	Mar.	10	(cont.)	
			i	10 18 35.8			Skagerrak, 58.5°N, 10.6°E.	
"	10	Ki	iP	10 36 46.3			Origin time = 15 12 46.	
				micr sec			Explosion?	
			P	Z' 0.1 1.0			By combination with	
		Sk	iP	10 36 25.4			Kongsberg readings.	
		Um	iP	10 36 46.2	"	10	Ud iP	16 11 43.8
		Ud	iP	10 36 26.0	"	10	Um i(Sgl)	17 12 14.1
			ipP	10 36 56.5	"	10	Um i(Sgl)	17 24 05.5
		De	iP	10 36 25.2	"	11	Ud eP	00 52 05
				Venezuela.			Peru (h = 35 km).	
				h = 120 km (Ud).	"	11	Um iP	02 28 20.6
"	10	Ki	iPn	10 52 54.9	"	11	Ki iP	03 32 19.5
			iSn	10 53 53.8			micr sec	
			iS*	10 54 12.5			Mx E 1.7 19	
		Sk	iSgl	10 56 41.7			Mx N 1.0 16	
		Um	iSn	10 54 33.0			Um iP	03 32 18.1
			iS*	10 55 02.4			e(PP)	03 35 59
			iSgl	10 55 08.2			Ud eP	03 32 36
				Northwest Russia,			Java (h = 60 km).	
				67.7°N, 34.1°E.	"	11	Up iP	04 03 24.5
				Origin time = 10 51 36.			i	04 03 36.9
				Explosion.			micr sec	
"	10	Up	iP	14 44 20.5 C			Mx E 1.5 20	
				micr sec			Mx N 1.3 18	
			P	Z' 0.1 0.8			Mx Z 3.3 19	
		Ki	iP	14 44 29.0			Ki iP	04 03 19.1
		Um	iP	14 44 19.1			micr sec	
		Ud	iP	14 44 36.8 C			Mx E 1.3 19	
		De	iP	14 44 32.9			Mx N 2.0 21	
				Pakistan (h = 45 km).			Mx Z 1.7 17	
"	10	Ud	iPgl	15 04 03.0			Um iP	04 03 22.9
			iSgl	15 04 36.7			i	04 03 33.8
		De	iSgl	15 04 45.2			Ud iP	04 03 13.9
				Skagerrak, 58.2°N, 9.8°E.			i	04 03 24.5
				Origin time = 15 03 15.			Guatemala (h = 90 km).	
				Explosion?			M = 5.6 (Up,Ki).	
				By combination with	"	11	Up iP	04 44 27.0 C
				Kongsberg readings.			ipP	04 44 36.8
"	10	Ud	iSgl	15 10 36.8			micr sec	
		De	iSgl	15 10 50.8			P Z' 0.1 0.8	
				Skagerrak.			Ki iP	04 44 02.9 C
				Explosion?			Um iP	04 44 11.7 C
				By combination with			Ud iP	04 44 36.0 C
				Kongsberg readings.			ipP	04 44 46.0
"	10	Ud	i(P)	15 11 30.6			De iP	04 44 46.9
"	10	Ud	iPgl	15 13 24.2			ipP	04 44 56.0
			iSgl	15 13 58.5			Formosa.	
		De	ePgl	15 13 30			h = 35 km (Up,Ud,De).	
			iSgl	15 14 06.6				
				(cont.)				

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

1972				1972					
Mar.	11	Up	iP	04 58 36.9	Mar.	13	Ki	ePgl	04 27 43
		Um	iP	04 58 17.2 D				iSgl	04 28 15.8
		Ud	iP	04 58 28.8			Sk	iSgl	04 28 50.9
"	11	Um	iP	04 59 41.2 D			Um	iSgl	04 29 07.9
		Japan (h = 45 km).					Off coast of Nordland, Norway, 67.2°N, 14.1°E. Origin time = 04 26 56.		
"	11	Um	iP	07 55 10.3 C	"	13	Ud	eP	05 57 01
"	11	Um	iP	08 06 20.2	"	13	Um	ePKP	05 59 17
"	11	Um	iP	09 27 09.7 D				iSKP	06 02 00.2
		Ud	eP	09 27 38			Ud	iPKP	05 59 19.8 D
		Japan (h = 70 km).					De	iPKP	05 59 30.4
"	11	Up	iRg	11 22 04.4				ipPKP	06 01 35.2
		Ud	iRg	11 21 50.8			Tonga-Kermadec Islands. h = 530 km (De).		
"	11	Um	eSgl	12 15 26	"	13	Ud	iP	09 28 21.6
		Western USSR. Explosion.					Aegean Sea.		
"	11	Ud	iP	13 28 01.5	"	13	Up	iSgl	13 06 49.5
"	11	Um	iP	17 47 14.0 C			Um	i(S*)	13 07 29.3
		Mariana Islands (h = 40 km).					Ud	eSgl	13 05 49
"	11	Um	iP	18 38 58.3			South Norway, 60.8°N, 7.9°E. Origin time = 13 04 16. By combination with Bergen and Kongsberg readings.		
"	11	Up	iP	18 55 51.8	"	13	Up	ePn	14 06 56
		Um	iP	18 55 35.5				i	14 07 32.1
		Mariana Islands (h = 50 km).						iSn	14 07 41.1
"	11	Um	e(Sgl)	19 37 05			Ud	iPgl	14 06 35.4
"	11	Um	i(Sgl)	20 04 03.6				iSgl	14 07 06.1
"	11	Um	i(Sgl)	20 05 24.6			Skagerrak, 58.5°N, 10.4°E. Origin time = 14 05 54. Explosion? By combination with Kongsberg readings.		
"	12	Um	i(Sgl)	01 12 42.8	"	13	Up	ePn	14 28 18
"	12	Um	eP	07 23 17				iSn	14 29 02.6
"	12	Um	iP	13 10 15.8			Ud	iPgl	14 27 57.2
		Alaska (h = 120 km).						iSgl	14 28 31.2
"	12	Um	iP	14 38 33.1			Skagerrak, 58.5°N, 10.6°E. Origin time = 14 27 18. Explosion? By combination with Kongsberg readings.		
		Japan (h = 55 km).							
"	12	Ud	eP	17 39 03	"	13	Um	eP	18 57 33
		Iran.					Ud	iP	18 57 59.5
"	13	Ki	iP	03 30 12.1	"	13	Ud	iP	21 51 10.8
		Um	iP	03 30 30.3 D			Hindu Kush. Intermediate depth.		
		Ud	iP	03 31 00.8					
		Japan (h = 170 km).							

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

1972

Mar. 14 Up iP 00 58 59.6 C  
 Ki i(pP) 00 58 29.9  
 Sk iP 00 58 54.4  
 Um iP 00 58 36.9  
 i 00 58 38.9  
 i(pP) 00 58 45.4  
 Ud iP 00 59 06.8 C  
 De iP 00 59 20.4 C  
 Japan (h = 40 km).

" 14 Ud iP 04 07 21.3  
 Hindu Kush,  
 Intermediate depth.

" 14 Um eP 07 26 52  
 Japan (h = 80 km).

" 14 Ud iPKP 07 35 27.3  
 De iPKP 07 35 38.9  
 Tonga Islands (h = 140 km).

" 14 Um iPKP2 07 46 08.9  
 Ud iPKP2 07 46 38.6  
 New Zealand (h = 70 km).

" 14 Ud iP 11 00 12.4

" 14 Up iP 11 18 47.0  
 Um iP 11 18 24.2  
 Ud iP 11 18 54.0 D  
 De iP 11 19 10.0  
 Japan (h = 60 km).

" 14 Um iPKP 12 39 06.0 D  
 Santa Cruz Islands  
 (h = 230 km).

" 14 Um iSgl 13 01 13.8  
 Ud iSgl 13 01 22.0  
 De iSgl 13 01 47.9  
 Esthonia,  
 Explosion.

" 14 Up iP 14 10 36.9 C  
 i 14 10 41.6  
 iS 14 14 36  
 micr sec  
 P Z' 0.1 1.0  
 i Z' 0.5 1.2  
 Mx E 8.2 11  
 Mx N 5.9 11  
 Mx Z 6.1 11  
 Ki iP 14 11 44.1 C  
 micr sec  
 P Z' 0.1 1.0  
 Mx E 6.7 12  
 (cont.)

1972

Mar. 14 (cont.)  
 Ki micr sec  
 Mx N 5.3 12  
 Mx Z 5.3 12  
 Sk iP 14 11 21.6  
 i 14 11 25.7  
 Um iP 14 11 08.6  
 iS 14 15 38  
 Ud iP 14 10 48.0 C  
 De iP 14 10 16.5  
 i 14 10 20.8  
 Turkey (h = 35 km).  
 m = 5.8, M = 5.6 (Up, Ki).

" 14 Ud i(P) 14 49 51.8

" 14 Ki iSgl 14 55 27.6  
 Sk iSgl 14 55 33.7  
 Um iSn 14 55 41.3  
 iSgl 14 55 55.1

Nordland, Norway,  
 66.5°N, 14.1°E.  
 Origin time = 14 54 00.  
 Explosion.

" 14 Up iSgl 15 06 58.5  
 Sk eSgl 15 08 51  
 Um iSgl 15 07 33.9  
 Ud eSn 15 07 35  
 iSgl 15 08 04.2  
 De eSgl 15 08 28  
 Esthonia, 59.5°N, 25.0°E.  
 Origin time = 15 05 00.  
 Explosion.

" 14 Sk e(Sgl) 15 15 04

" 14 De i(P) 15 24 48.8

" 14 Um i(Sgl) 17 02 37.7

" 14 Um i(Sgl) 20 54 20.8

" 14 Ki i(P) 21 35 21.8  
 Um e(P) 21 35 16

" 15 Um i(Sgl) 00 04 54.0

" 15 Um eP 00 28 49  
 Ud iP 00 29 09.9  
 De eP 00 29 09  
 Tadzhik SSR (h = 140 km).

" 15 Um iP 00 46 24.2

" 15 Um iP 01 54 19.6  
 Zambia (h = N).

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

1972

Mar. 15 Ud i(PP) 05 18 45.9  
Banda Sea (h = 230 km).

" 15 Up iP 06 09 45.1 D  
micr sec  
P Z' 0.1 0.6  
Ki iP 06 09 43.7  
Sk iP 06 10 04.7 D  
Um iP 06 09 38.8 D  
Ud iP 06 10 00.0 D  
De iP 06 10 00.1  
Tibet (h = N).

" 15 Ki iP 06 18 22.7

" 15 Ki eSgl 08 19 34  
Sk eSgl 08 19 38  
Um iSgl 08 20 01.6  
Nordland, Norway.  
Explosion.

" 15 Ki iPn 10 03 58.2  
iSn 10 04 46.6  
iS\* 10 04 59.7  
Sk eSgl 10 07 54  
Um iSgl 10 06 30.8  
Northwest Russia-Norway  
border region,  
69.4°N, 30.9°E.  
Origin time = 10 02 54.  
Explosion.

" 15 Up iP 11 34 01.9 C  
micr sec  
P Z' 0.4 1.1  
Mx N 1.0 18  
Mx Z 1.9 20  
Ki iP 11 33 08.5 C  
micr sec  
P Z' 0.2 1.0  
Mx E 1.5 18  
Mx N 1.1 15  
Mx Z 1.1 15  
Sk iP 11 33 41.5 C  
Um iP 11 33 34.7 C  
Ud iP 11 34 03.0 C  
i 11 34 11.2  
i 11 34 16.0  
De iP 11 34 25.1 C  
Aleutian Islands (h = 40 km).  
m = 6.4, M = 5.2 (Up, Ki).

" 15 Up iSgl 12 11 16.9  
Ud iPgl 12 09 52.4  
iSgl 12 10 23.5  
De ePgl 12 10 05  
iSgl 12 10 36.9  
(cont.)

1972

Mar. 15 (cont.)  
De i 12 10 44.6  
Skagerrak, 58.6°N, 10.5°E.  
Origin time = 12 09 15.  
Explosion?  
By combination with  
Kongsberg readings.

" 15 Up i(Rg) 12 42 15.8  
Ud i(Rg) 12 42 29.3

" 15 Up iSgl 12 47 49.0  
Ud iPgl 12 47 33.5  
iSgl 12 48 01.0  
iRg 12 48 12.7  
De iSgl 12 48 12.4  
Östergötland, Sweden,  
58.5°N, 15.9°E.  
Origin time = 12 47 00.  
Probably explosion.

" 15 Up iSgl 12 52 58.0  
Um iSgl 12 53 15.9  
Ud iSgl 12 53 58.2  
De eSgl 12 54 33  
Western USSR.  
Explosion.

" 15 Ud iP 12 57 28.8

" 15 Ud iPgl 12 58 45.8  
iSgl 12 59 20.2  
De ePgl 12 58 52  
iSgl 12 59 28.1  
Skagerrak, 58.5°N, 10.6°E.  
Origin time = 12 58 07.  
Explosion?  
By combination with  
Kongsberg readings.

" 15 Ud iPgl 12 59 53.4  
iSgl 13 00 26.7  
Probably Skagerrak.  
Explosion?

" 15 Ud iP 15 13 22.2  
i 15 13 31.7

" 15 Up iPKP 15 17 49.2  
Sk iPKP 15 17 43.4  
Um iPKP 15 17 38.7  
ipPKP 15 17 49.0  
Ud iPKP 15 17 50.3 C  
ipPKP 15 18 00.5  
De iPKP 15 17 58.6  
South of Kermadec Islands,  
h = 35 km (Um, Ud).

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

1972				1972					
Mar.	15	Ud	iP	16 00 58.2	Mar.	16	Ud	i(Sgl)	10 19 59.3
"	15	Ud	eP	19 36 54	"	16	Ud	i(Sgl)	12 06 25.2
"	15	Up	eP	19 54 25	"	16	De	e(Sgl)	12 07 43
		Ki	iP	19 54 08.6	"	16	Up	iSgl	12 15 30.8
				micr sec			Um	iSgl	12 15 48.8
		P	Z'	0.1 1.0			Ud	iSgl	12 16 31.7
		Um	iP	19 54 14.7			De	eSgl	12 16 58
		Ud	iP	19 54 29.1			Western USSR. Explosion.		
		Mindanao (h = 40 km).							
"	15	Ud	eP	20 05 43	"	16	Up	iSgl	12 36 36.9
"	15	Ud	i(Sgl)	21 19 54.8			Sk	eSgl	12 38 26
"	16	Up	i(P)	00 42 42.4			Um	iSgl	12 37 00.4
"	16	Ud	iPKP	00 47 50.1			Ud	iSgl	12 37 41.1
		De	iPKP	00 48 01.6			De	eSgl	12 38 03
"	16	Um	i(Sgl)	00 53 04.6			Esthonia, 59.4°N, 26.6°E. Origin time = 12 34 13. Explosion.		
"	16	Up	eP	00 55 59	"	16	Ud	i(P)	13 51 14.0
		Ud	eP	00 56 26	"	16	Up	eSgl	16 11 58
"	16	Up	iP	03 40 21.5			Sk	eSgl	16 13 10
		Ki	iP	03 41 32.5			Um	iSgl	16 11 22.1
		Sk	iP	03 41 01.8			Ud	iSgl	16 12 59.8
		Um	iP	03 40 56.6 C			Lake Ladoga. Explosion.		
		Ud	iP	03 40 28.7 C	"	16	De	i(Pgl)	16 38 58.3
		De	iP	03 39 54.1 C				i(Sgl)	16 39 25.4
		Greece (h = 150 km).			"	16	Up	iP	17 28 44.1
"	16	Up	iP	05 21 28.8			Ud	iP	17 28 53.2
				micr sec	"	16	Ud	iP	21 36 57.3
		Mx	E	1.0 17			Spain (h = N).		
		Mx	N	1.7 23	"	16	Ud	iP	22 01 06.9
		Mx	Z	0.8 20			Mindanao (h = 70 km).		
		Ki	iP	05 21 09.9	"	16	Ud	iP	22 01 06.9
				micr sec			Mindanao (h = 70 km).		
		Mx	N	1.3 17	"	17	Up	iPKP	00 40 07.7 C
		Sk	eP	05 21 36				iSKP	00 43 08.7
		Um	iP	05 21 16.2					micr sec
			i	05 21 25.6				PKP	Z' 0.8 0.7
		Ud	iP	05 21 37.8 C			Ki	i(PKP)	00 39 48.1
			i	05 21 47.2				iPKP	00 39 56.3 C
		De	eP	05 21 44				iSKP	00 42 47.6
		Luzon (h = 55 km).							micr sec
		M = 5.5 (Up, Ki).						PKP	Z' 0.1 1.2
"	16	Ki	iP	05 31 48.9			Sk	i(PKP)	00 40 00.7
		Ud	iP	05 32 43.2 C				iPKP	00 40 03.2
		Okhotsk Sea (h = 440 km).						iSKP	00 43 02.8
"	16	Ud	eP	06 43 48			Um	i(PKP)	00 39 54.1
		De	eP	06 43 35				i(PKP)	00 39 56.3

(cont.)

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

1972

Mar.	17	(cont.)			
		Um	iPKP	00 40	02.2
			iSKP	00 42	58.4
		Ud	iPKP	00 40	10.0 C
			iSKP	00 43	10.2
		De	i(PKP)	00 40	18.0 C
			iPKP	00 40	20.6 C
			iSKP	00 43	18.4
		Tonga-Kermadec Islands			
		(h = 410 km).			
"	17	Ud	iP	01 16	30.0 D
"	17	Ud	eP	02 01	29
"	17	Um	iP	03 21	22.0
"	17	Um	iP	06 26	40.1
"	17	Up	iP	07 31	52.9
		Ud	iP	07 32	01.8
		Ryukyu Islands (h = 40 km).			
"	17	Ud	eP	07 48	20
		De	eP	07 47	48
"	17	Up	iP	07 59	47.3
		Ki	iP	07 58	57.0
		Um	iP	07 59	19.7
		Ud	iP	07 59	52.4
		De	iP	08 00	10.0
		Kurile Islands (h = N).			
"	17	Ki	eP	08 00	49
		Sk	eP	08 00	44
		Ud	iP	08 00	23.9
"	17	Up	eP	08 12	33
"	17	Up	iP	09 24	24.5
			i	09 24	35.8
		Ki	iP	09 24	31.9
			i	09 24	42.2
					micr sec
			P	Z'	0.1 0.9
		Sk	eP	09 24	53
			ipP	09 24	58.3
			iPP	09 26	22.4
		Um	iP	09 24	21.7
			ipP	09 24	28.8
			iPP	09 25	53.7
		Ud	iP	09 24	41.5
			ipP	09 24	48.8
			iPP	09 26	20.7
		De	iP	09 24	39.0
			ipP	09 24	45.6
			i	09 25	26.7
		(cont.)			

1972

Mar.	17	(cont.)			
		Tadzhik SSR.			
		h = 25 km (Um,Ud,De).			
"	17	Sk	i(Sgl)	11 18	17.0
		Ud	i(Sgl)	11 17	59.6
"	17	Sk	iSgl	12 21	04.5
		Ud	iPgl	12 19	24.7
			iSgl	12 19	46.9
		De	iSgl	12 20	44.7
		South Norway			
		59.5°N, 10.4°E.			
		Origin time = 12 18 52.			
		By combination with			
		Kongsberg readings.			
"	17	Up	iP	12 39	35.4
		Ki	iP	12 38	42.1 D
		Um	iP	12 39	09.4 D
		Ud	iP	12 39	33.9
		De	iP	12 39	57.5 D
		Aleutian Islands (h = 25 km).			
"	17	Um	i(Sgl)	13 04	35.6
"	17	Um	i(Sgl)	14 02	29.4
"	17	Up	i(P)	16 08	49.9
		Ud	i(P)	16 08	06.7
"	17	Um	i(Sgl)	17 12	02.6
"	17	Ud	eP	17 19	17
"	17	Ud	iP	18 28	15.3
"	17	Up	i(Sgl)	19 38	47.4
"	18	Up	iP	00 51	44.8
			ipP	00 53	12.4
					micr sec
			P	Z'	0.1 1.0
		Ki	iP	00 51	00.7
			ipP	00 52	26.1
					micr sec
			P	Z'	0.2 1.0
		Sk	iP	00 51	36.0
			iPP	00 53	59.3
		Um	iP	00 51	20.2
			ipP	00 52	50.0
			iPP	00 53	36.0
		Ud	iP	00 51	51.3 D
			ipP	00 53	19.6
		De	iP	00 52	10.0
			ipP	00 53	44.8
			iPP	00 54	41.6
		(cont.)			

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

1972				1972			
Mar.	18	(cont.) Sakhalin. h = 420 km (Up,Um,Ud,De). m = 5.5 (Up,Ki).		Mar.	18	Ud eP Kamchatka.	18 39 34
"	18	Up iP Aleutian Islands (h = 45 km).	05 00 52.2	"	18	Up iP Ki iP Sk iP Um iP Ud iP De iP Japan (h = 60 km).	23 20 11.3 23 19 33.9 23 20 06.6 23 19 50.7 23 20 18.3 23 20 32.4
"	18	Ud iP	06 51 59.6	"	18	Up iP iPP P Mx Mx Mx Ki iP iPP P Mx Mx Mx Sk iP iPP Um iP Ud iP De iP Japan (h = 45 km). m = 6.8, M = 5.8 (Up,Ki).	23 29 24.0 D 23 32 19.4 micr sec Z' 0.9 0.9 E 2.0 21 N 1.9 18 Z 3.2 16 23 28 46.9 D 23 31 19.6 micr sec Z' 0.7 1.0 E 5.4 17 N 3.5 18 Z 5.1 17 23 29 18.5 23 32 11.3 23 29 03.2 D 23 29 30.7 D 23 29 44.8 D
"	18	Ud iP	07 22 19.2	"	18	Up iP Ki eP Sk eP Um iP Ud iP De iP Japan (h = 70 km).	07 24 42.5 07 23 58 07 24 30 07 24 13.1 07 24 46.9 07 25 00.8
"	18	Up iP Um iP Ud eP	09 07 33.2 09 07 46.9 09 07 45	"	18	Ki e(Sgl) Um i(Sgl)	09 27 12 09 28 05.6
"	18	Ud e(PKP) De e(PKP)	11 27 28 11 27 39	"	18	Up iP Um iP Ud iP De eP Bonin Islands (h = 30 km).	13 50 15.4 13 49 56.8 13 50 22.0 13 50 35
"	18	Up iP Um iP Ud iP De eP	13 50 15.4 13 49 56.8 13 50 22.0 13 50 35	"	18	Up iP Ki eP Um iP Ud iP De iP Japan (h = 60 km).	23 55 10.8 23 54 33 23 54 50.0 23 55 17.6 23 55 31.7
"	18	Up iP P Mx Mx Mx Ki eP iPP PP Mx Mx Mx Sk iP Um iP Ud iP i De iP North of Iceland (h = N). M = 4.6 (Up,Ki).	15 04 59.1 micr sec Z' 0.1 1.0 E 2.2 15 N 1.0 14 Z 2.0 21 15 04 10 15 04 21.5 micr sec Z' 0.1 1.2 E 3.0 16 N 3.8 16 Z 2.2 15 15 04 02.9 15 04 41.7 15 04 36.0 15 04 43.2 15 05 14.4	"	19	Ud ePKP i New Britain (h = 40 km).	01 07 54 01 08 03.8
"	18	Up iP P Mx Mx Mx Ki eP iPP PP Mx Mx Mx Sk iP Um iP Ud iP i De iP North of Iceland (h = N). M = 4.6 (Up,Ki).	15 04 59.1 micr sec Z' 0.1 1.0 E 2.2 15 N 1.0 14 Z 2.0 21 15 04 10 15 04 21.5 micr sec Z' 0.1 1.2 E 3.0 16 N 3.8 16 Z 2.2 15 15 04 02.9 15 04 41.7 15 04 36.0 15 04 43.2 15 05 14.4	"	19	Um i(Sgl)	02 39 17.1
"	18	Up iP Um iP Ud iP	03 39 41 03 39 44.1 03 39 32.7	"	19	Up e(P) Um i(P) Ud i(P)	03 39 41 03 39 44.1 03 39 32.7
"	18	Ud ePKP De iPKP Tonga-Kermadec Islands (h = 140 km).	05 14 06 05 14 16.4	"	19	Ud ePKP De iPKP Tonga-Kermadec Islands (h = 140 km).	05 14 06 05 14 16.4
"	18	Ud eP	06 30 29	"	19	Ud eP	06 30 29

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

1972

Mar.	19	Up	iPKP	06 50 38.4
		Sk	iPKP	06 50 29.5
		Um	iPKP	06 50 24.1
		Ud	iPKP	06 50 41.4
		De	ePKP	06 50 51
"	19	Ki	eSn	07 54 59
			iS*	07 55 17.2
			iSgl	07 55 24.2
		Um	eSn	07 55 34
			iSgl	07 56 12.9
			Probably northwest Russia. Explosion.	
"	19	Up	iP	13 45 05.1
		Um	iP	13 44 42.7
			Formosa (h = 40 km).	
"	19	Up	iP	16 08 52.7 D
			isP	16 09 18.4
			iPP	16 11 21.4
			iS	16 17 52
			micr sec	
		P	Z'	0.7 1.1
		Mx	E	4.0 25
		Mx	N	4.2 23
		Mx	Z	4.8 22
		Ki	iP	16 08 10.9 D
			ipP	16 08 29.0
			iPP	16 10 29.6
			iS	16 16 36
			iPS	16 16 55.6
			micr sec	
		P	Z'	1.4 1.4
		Mx	N	2.8 15
		Mx	Z	3.4 17
		Sk	iP	16 08 45.1 D
			isP	16 09 12.7
			iPP	16 11 11.7
		Um	iP	16 08 29.3 D
			iS	16 17 10
		Ud	iP	16 08 59.5 D
			isP	16 09 25.8
			iS	16 18 09.7
		De	iP	16 09 15.8 D
			isP	16 09 44.4
			iPP	16 12 00.4
			iS	16 18 23.6

Japan.  
h = 70 km (Up, Ki, Sk, Ud, De).  
m = 6.9, M = 5.8 (Up, Ki).

1972

Mar.	20	Ud	iP	01 40 14.0
"	20	Um	iP	02 26 48.5
		Ud	iP	02 27 19.0
			Japan (h = 80 km).	
"	20	Sk	eP	06 02 16
		Um	eP	06 02 15
		Ud	iP	06 01 40.5
			Albania.	
"	20	Up	iP	07 47 19.6
			i	07 47 24.1
			iPP	07 51 25.2
			iSKS	07 58 12
			iS	07 58 45
			ePKPPKS	08 15 47
			micr sec	
		P	Z'	0.2 1.2
		Mx	E	5.0 20
		Mx	N	5.0 20
		Mx	Z	6.8 20
		Ki	iP	07 47 24.8
			i	07 47 28.4
			ipP	07 47 41.3
			iPP	07 51 29
			micr sec	
		P	Z'	0.1 1.2
		Mx	E	5.0 19
		Mx	N	3.2 19
		Mx	Z	5.1 19
		Sk	iP	07 47 10.0
			i	07 47 13.0
			ipP	07 47 27.5
		Um	iP	07 47 26.5
			i	07 47 29.5
			iPP	07 51 28
			iSKS	07 58 22
		Ud	iP	07 47 10.7
			i	07 47 14.9
			ipP	07 47 26.3
			iPKPPKS	08 15 52.7
		De	iP	07 47 11.1
			i	07 47 15.5
			ipP	07 47 26.9
			iPP	07 51 05.5
			Peru. h = 60 km (Ki, Sk, Ud, De). m = 6.6, M = 6.1 (Up, Ki). Double P, in average 3.8 sec apart.	

" 19 Um iP 18 04 56.3

" 19 Um iPKP 22 27 33.7  
Ud iPKP 22 27 25.1  
Chile (h = 40 km).

" 20 De iP 08 03 59.4

" 20 Ud iP 08 04 27.1  
De iP 08 04 27.4  
Peru (h = 50 km).



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

1972				1972							
Mar.	20	Um	iP	10 29 39.0	Mar.	20	Ud	iP	20 16 34.4		
		Ud	eP	10 30 09			De	iP	20 16 19.7		
				Japan (h = 45 km).			"	20	Ud	iPKP	20 31 10.3
				Hindu Kush.							Chile (h = N).
"	20	Um	iP	11 30 28.4	"	20	Ud	i(PKP)	21 24 00.0		
			ipP	11 31 09.5			De	i(PKP)	21 24 10.6		
				Hindu Kush.			"	20	Ki	eP	23 09 22
				h = 210 km (Um).							Java (h = 70 km).
"	20	Up	iSgl	13 06 05.2	"	20	Up	iP	23 42 46.1 C		
		Um	iSgl	13 06 53.5				ip'P'	00 10 53.9		
		Ud	iSgl	13 07 03.6					micr sec		
		De	eSgl	13 07 34				P	Z' 1.1 0.9		
				Esthonia, 59.5°N, 23.4°E.				Mx	E 1.7 18		
				Origin time = 13 04 30.				Mx	N 3.8 21		
				Explosion.				Mx	Z 2.3 19		
"	20	Up	iP	13 24 06.2			Ki	iP	23 41 53.0 C		
			ipP	13 24 18.4				ipcS	23 46 36.9		
		Ki	iP	13 24 05.8					micr sec		
			ipP	13 24 18.7				P	Z' 0.6 0.8		
		Sk	epP	13 24 35				Mx	E 2.7 18		
		Um	iP	13 24 03.9				Mx	N 2.5 20		
			ipP	13 24 15.8				Mx	Z 2.4 17		
		Ud	eP	13 24 13			Sk	iP	23 42 25.0 C		
		De	iP	13 24 14.6				ipcP	23 42 57.5		
			ipP	13 24 26.6			Um	iP	23 42 19.1 C		
				Sumatra.				ipcS	23 46 50.8		
				h = 45 km (Up, Ki, Um, De).				ip'P'	00 11 03.3		
"	20	Ud	iP	14 19 13.1			Ud	iP	23 42 46.5 C		
"	20	De	eP	14 49 58			De	iP	23 43 08.5 C		
"	20	Up	iSgl	15 48 25.7				ipp	23 45 50.6		
		Um	iSgl	15 47 56.8						Aleutian Islands (h = 45 km).	
		Ud	eSgl	15 49 21						m = 7.0, M = 5.7 (Up, Ki).	
				Lake Ladoga.			"	21	Up	ipPKP	00 01 28.4 C
				Explosion.					ipPKP	00 03 37.9	
"	20	Up	iP	17 04 01.7						micr sec	
		Ud	iP	17 03 52.4					PKP	Z' 0.1 0.8	
		De	iP	17 03 53.3			Ki	ePKP	00 01 19		
			ipP	17 04 06.1				iSKP	00 04 02.2		
				Peru.			Sk	ePKP	00 01 27		
				h = 50 km (De).				iSKP	00 04 17.8		
"	20	Um	iPKP	17 21 53.2			Um	i(PKP)	00 01 17.0		
				Easter Island region				ipPKP	00 01 27.8		
				(h = N).				iSKP	00 04 12.6		
"	20	De	e(P)	18 32 45			Ud	ipPKP	00 01 30.1		
"	20	De	e(P)	18 37 37				ipPKP	00 03 37.7		
								iSKP	00 04 25.8		
							De	ipPKP	00 01 40.6		
								i(pPKP)	00 03 38.8		
								iSKP	00 04 32.7		
										Tonga-Kermadec Islands.	
										h = 540 km (Up, Ud).	

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

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Mar. 21 Up iP 01 08 09.7  
 Ki iP 01 07 14.4  
 Sk eP 01 07 52  
 Um iP 01 07 39.7  
 Ud iP 01 08 11.4  
 De iP 01 08 33.2  
 Kamchatka (h = 45 km).

" 21 Up iP 01 23 10.4  
 Um iP 01 22 55.9  
 Ud ePKP 01 23 16  
 De ePKP 01 23 22

" 21 Ud iP 01 36 47.9  
 De iP 01 36 17.5  
 Rhodes Island.

" 21 Up iP 01 46 28.8  
 Ki iP 01 45 45.1  
 Um iP 01 46 05.1  
 Ud iP 01 46 35.6  
 Japan (h = 40 km).

" 21 Ud iP 05 41 46.2

" 21 Up iP 09 58 47.7  
 i 09 58 50.7  
 micr sec  
 P Z' 0.1 0.9  
 Ki iP 09 57 54.7  
 i 09 57 58.5  
 iP 09 58 05.3  
 micr sec  
 P Z' 0.1 0.9  
 Sk eP 09 58 31  
 Um iP 09 58 21.5  
 i 09 58 24.4  
 iP 09 58 32.0  
 Ud iP 09 58 47.5  
 i 09 58 50.6  
 De iP 09 59 09.4  
 i 09 59 12.7  
 Aleutian Islands.  
 h = 40 km (Ki,Um).  
 m = 6.0 (Up,Ki).  
 Double P, in average 3.2  
 sec apart.

" 21 Um i(Sgl) 13 42 13.4

" 21 Ud iP 15 18 25.1

" 21 Up iSgl 15 21 06.3  
 Ud ePgl 15 19 42  
 iSgl 15 20 10.3  
 i 15 20 18.3  
 (cont.)

1972

Mar. 21 (cont.)  
 De eSgl 15 20 33  
 i 15 20 40.5  
 Skagerrak, 58.7°N, 10.4°E.  
 Origin time = 15 19 03.  
 Explosion?  
 By combination with  
 Kongsberg readings.

" 21 Up ePgl 15 27 35  
 iSgl 15 28 26.6  
 i 15 28 38.5  
 Ud iPgl 15 27 01.4  
 iSgl 15 27 33.2  
 i 15 27 40.0  
 De iPgl 15 27 14.1  
 iSgl 15 27 53.9  
 i 15 28 01.4  
 Skagerrak, 58.7°N, 10.4°E.  
 Origin time = 15 26 25.  
 Explosion?  
 By combination with  
 Kongsberg readings.  
 The third phase arrives  
 between Sg2 and Rg with a  
 velocity of about 3.19  
 km/sec.

" 21 Up iP 16 53 47.3  
 Um iP 16 53 25.7  
 Ud iP 16 53 39.1  
 De ePKP 16 54 04  
 Kermadec Islands (h = 60 km).

" 21 Up iP 17 22 22.9  
 Sk iP 17 22 15.9  
 Um iP 17 22 10.5  
 Ud iP 17 22 24.4  
 De iP 17 22 33.7  
 Kermadec Islands (h = 150 km).

" 21 Up iP 18 22 22.9  
 Um iP 18 22 48.5  
 Ud iP 18 22 33.2  
 iP 18 22 55.3  
 De iP 18 22 13.3  
 Turkey.

" 21 Up iP 23 12 12.6  
 micr sec  
 Mx E 1.5 16  
 Ki iP 23 13 24.2  
 Sk iP 23 12 41.5  
 Um iP 23 12 44.4  
 i 23 13 09.8  
 Ud iP 23 12 03.7  
 (cont.)

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

1972

Mar. 21 (cont.)  
 Ud i 23 12 20.6  
 De iP 23 11 30.7  
 i 23 11 44.9  
 Mediterranean Sea (h = N).

" 22 Ki iSgl 00 16 54.1  
 Sk iSgl 00 16 56.5  
 Um iSn 00 17 07.8  
 iSgl 00 17 21.7  
 Nordland, Norway,  
 66.5°N, 13.9°E,  
 Origin time = 00 15 23.  
 Explosion.

" 22 Up iP 00 57 19.0  
 i 00 57 23.5  
 micr sec  
 P Z' 0.1 1.0  
 Ki iP 00 57 57.6  
 Um iP 00 57 31.0  
 i 00 57 45.9  
 Ud iP 00 57 29.2  
 i 00 57 54.7  
 De iP 00 57 10.7  
 Turkey (h = 35 km).

" 22 Up iP 03 09 35.4  
 Ki eP 03 08 41  
 Sk eP 03 09 19  
 Um iP 03 09 07.7  
 Ud iP 03 09 38.9  
 De iP 03 10 00.8  
 Kamchatka (h = 40 km).

" 22 Ud iPKP 08 48 38.1  
 Tonga Islands (h = 130 km).

" 22 Up iP 10 38 11.2  
 iP 10 38 43.0  
 iPcP 10 38 51.0  
 i 10 40 03  
 micr sec  
 P Z' 2.6 1.2  
 Mx E 35 30  
 Mx N 25 19  
 Mx Z 34 20  
 Ki iP 10 37 22.0  
 iX 10 37 39.2  
 iY 10 38 00.5  
 i 10 38 11  
 micr sec  
 P Z' 4.0 1.5  
 Mx E 20 18  
 Mx N 20 18  
 Mx Z 17 16  
 Sk iP 10 37 59.2  
 (cont.)

1972

Mar. 22 (cont.)  
 Sk iX 10 38 18.8  
 iP 10 38 30.2  
 Um iP 10 37 45.4  
 iY 10 38 22.9  
 iP'P' 11 06 54.2  
 Ud iP 10 38 16.6  
 iX 10 38 37.5  
 De iP 10 38 36.5  
 iPP 10 41 09.4  
 Kurile Islands.  
 h = 130 km (Up,Sk).  
 m = 7.0, M = 6.5 (Up,Ki).  
 X and Y mark unidentified  
 phases.

" 22 Ki iPn 14 52 17.4 C  
 iSn 14 53 15.4  
 iSgl 14 53 40.3  
 Sk eSgl 14 56 01  
 Um iSn 14 53 53.6  
 iSgl 14 54 30.3  
 Northwest Russia,  
 67.7°N, 33.9°E.  
 Origin time = 14 51 00.  
 Explosion.

" 22 Up iPKP 16 12 51.4  
 Um i(pPKP) 16 12 56.8  
 Ud iPKP 16 12 53.7  
 De iPKP 16 13 02.8  
 i(pPKP) 16 13 17.8  
 Tonga Islands (h = N).

" 22 Up iP 16 36 58.5  
 iS 16 39 35.2  
 micr sec  
 Mx E 13 22  
 Mx N 10 20  
 Mx Z 12 19  
 Ki iP 16 35 51.5 D  
 iPP 16 36 00.7  
 micr sec  
 P Z' 0.4 0.6  
 PP Z' 0.6 0.8  
 Mx E 15 16  
 Mx N 21 16  
 Mx Z 8.8 13  
 Sk iP 16 35 57.4 C  
 iS 16 37 49.7  
 Um iP 16 36 25.9  
 i 16 36 45.4  
 iS 16 38 40.5  
 Ud iP 16 36 43.2  
 De iP 16 37 31.9  
 Jan Mayen (h = N).  
 M = 5.3 (Up,Ki).



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

1972				1972			
Mar.	24	(cont.)		Mar.	25	(cont.)	
		Sk	iP 23 06 34.6			De	iP 06 20 57.5
			ipP 23 06 45.3			Dodecanese Islands (h = N).	
		Um	iP 23 06 22.1		"	25	Ud iP 08 05 54.0
		Ud	iP 23 06 54.5		"	25	Um i(Sgl) 09 49 52.3
		De	iP 23 07 15.6		"	25	Sk iP 11 53 02.4
			ipP 23 07 26.0				
		Kamchatka, h = 40 km (Sk,De).					
"	25	Up	iP 01 06 40.6 C	"	25	Up	ePP 12 34 51
			iPcP 01 07 09.0				iPS 12 44 20
			ipP 01 07 18.6				micr sec
			micr sec			Mx	E 6.9 20
		P	Z' 0.5 1.5			Mx	N 6.4 20
		Mx	E 1.5 25			Mx	Z 9.0 19
		Mx	N 1.4 20			Ki	iPP 12 34 18.4
		Mx	Z 1.4 20				micr sec
		Ki	iP 01 05 50.9 C			Mx	E 13 24
			ipP 01 06 28.5			Mx	N 6.6 21
			micr sec			Mx	Z 11 24
		P	Z' 0.1 1.0			Sk	iPP 12 34 53.0
		Mx	E 2.3 19			Um	iPKP 12 34 10.6
		Mx	N 2.0 18				iPP 12 34 28.3
		Sk	iP 01 06 28.5				iPS 12 43 49
			ipP 01 07 06.3			Ud	ePP 12 35 07
		Um	iP 01 06 13.9 C			New Ireland (h = 40 km), M = 6.5 (Up,Ki).	
			ipP 01 06 52.3		"	25	Ud iP 12 41 30.4
		Ud	iP 01 06 45.1 C		"	25	Ud iPKP 13 55 11.5
			ipP 01 07 22.4		"	25	De iPKP 13 55 22.5
		De	iP 01 07 04.7 C		"	25	Um i(Sgl) 15 28 54.0
			iPcP 01 07 21.6		"	25	Up iP 23 10 40.1 C
		Kurile Islands. h = 150 km (Up,Ki,Sk,Um,Ud). m = 6.2, M = 5.4 (Up,Ki).					ipP 23 10 51.2
"	25	Um	iP 04 49 15.8				i 23 11 22.0
		Japan (h = 60 km).					iPP 23 13 13.9
"	25	Um	iPKP 05 45 51.7				iS 23 19 35
		Ud	iPKP 05 46 03.7				micr sec
		De	iPKP 05 46 13.7			P	Z' 0.5 1.0
			i 05 46 40.9			Mx	E 6.5 19
		Tonga Islands (h = N).				Mx	N 9.9 18
"	25	Ud	iP 06 01 27.6			Mx	Z 13 18
		Aegean Sea.				Ki	iP 23 09 55.7
"	25	Up	eP 06 06 53				ipP 23 10 07.2
		Um	iP 06 06 34.7				iS 23 18 12
		Ud	iP 06 07 06.8				micr sec
		De	iP 06 07 17.6			P	Z' 0.2 1.0
		Mongolia (h = N).				Mx	E 15 20
"	25	Um	i(Sgl) 06 14 18.3			Mx	N 21 20
						Mx	Z 25 20
"	25	Ud	iP 06 21 30.9			Sk	iP 23 10 30.5 C
		(cont.)				Um	iP 23 10 15.5 C
							ipP 23 10 26.3
						(cont.)	

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

1972

Mar.	25	(cont.)			
		Um	iS	23 18 53	
		Ud	iP	23 10 46.5	
		De	iP	23 11 04.1	
			ipP	23 11 15.6	
		Kurile Islands.			
		h = 40 km (Up, Ki, Um, De).			
		m = 6.5, M = 6.3 (Up, Ki).			
"	25	Um	iP	23 25 28.3	
		Japan (h = 70 km).			
"	26	Up	iPKP	01 22 32.9	
		Sk	iPKP	01 22 26.3	
		Um	iPKP	01 22 21.1	
			i	01 22 26.0	
		Ud	iPKP	01 22 34.7	
		De	iPKP	01 22 43.0	
"	26	Ud	eP	04 03 48	
		North Atlantic Ocean			
		(h = N).			
"	26	Up	iP	06 20 46.4	
		Ki	iP	06 20 39.4	
		Sk	iP	06 21 01.7 C	
		Um	iP	06 20 38.2 C	
		Ud	iP	06 20 59.6 C	
		De	eP	06 21 01	
		India (h = N).			
"	26	Up	iS*	08 27 15.4	
			iSgl	08 27 25.4	
		Sk	eSgl	08 27 01	
		Um	i	08 25 04.6	
			iSgl	08 25 24.0	
		Ud	iSgl	08 27 59.0	
		Northwest Russia.			
		Explosion.			
"	26	Up	iSgl	08 56 27.2	
		Ki	iPn	08 52 16.4	
			iSn	08 53 12.3	
			iS*	08 53 31.9	
		Sk	eSgl	08 56 00	
		Um	iSn	08 53 55.1	
			iSgl	08 54 28.7	
		Ud	iSgl	08 57 02.3	
		De	eSgl	08 58 40	
		Northwest Russia,			
		67.8°N, 33.4°E.			
		Origin time = 08 51 02.			
		Explosion.			
"	26	Up	iP	09 52 56.4	
		Ki	iP	09 52 54.9	
		Sk	iP	09 53 08.6	
		(cont.)			

1972

Mar.	26	(cont.)			
		Um	iP	09 52 52.7 C	
		Ud	iP	09 53 05.3	
		Sumatra (h = 80 km).			
"	26	Um	iP	09 54 04.6	
		Ud	iP	09 54 28.8	
"	26	Um	iP	14 36 49.1	
			ipP	14 37 02.7	
		Ud	ipP	14 37 35.3	
		Japan.			
		h = 50 km (Um).			
"	26	Um	iP	14 59 08.8	
		Ud	eP	14 59 28	
"	27	Um	iP	04 59 00.1	
		Bonin Islands.			
"	27	Ki	eP	05 02 01	
				micr sec	
			P	Z' 0.1 1.4	
		Um	eP	05 02 03	
		Ud	iP	05 02 11.0	
"	27	Um	i(P)	07 25 17.3	
"	27	Ud	iP	08 26 59.3	
			i	08 27 07.3	
		South Atlantic Ocean			
		(h = N).			
"	27	Ud	iP	09 29 05.4	
		Alaska (h = 150 km).			
"	27	Um	iSKP	11 33 13.7	
		De	iPKP	11 30 46.4	
		Fiji Islands (h = 570 km).			
"	27	Ki	eSgl	12 24 12	
		Um	iSgl	12 22 04.6	
		De	eSgl	12 23 02	
		Esthonia.			
		Explosion.			
"	27	Um	i(PP)	12 27 39.3	
		Peru (h = 60 km).			
"	27	Ki	iP	13 40 32.2	
		Um	eP	13 40 05	
		Ud	iP	13 39 26.6	
			i	13 39 33.9	
		Libya (h = N).			
"	27	Up	i(Rg)	19 04 26.7	
		Ud	i(Rg)	19 04 14.5	



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

1972				1972			
Mar.	29	Ki	iP	11 41 11.7	Mar.	30	(cont.)
		Um	iP	11 41 26.0			De iPKP 05 53 39.9 C
		Ud	iP	11 41 51.6			Tonga-Kermadec Islands.
"	29	Um	i(P)	11 56 29.5			h = 580 km (Up).
"	29	Um	iP	15 20 53.1			M = 6.5 (Up, Ki).
				Guatemala (h = 80 km).			M uncorrected for focal depth.
"	29	Um	iP	23 16 40.6	"	30	Ki iP 06 29 14.3
				Venezuela (h = 50 km).			Sk eP 06 29 37
"	30	Um	iP	02 19 27.0	"	30	Um iP 07 04 51.8
							Ud iP 07 05 19.7
"	30	Up	iPKP	02 51 00.3	"	30	Up iPKP 07 05 59.4
		Ki	ePKP	02 50 50			i 07 06 07.0
		Um	iPKP	02 50 57.2			Ud iPKP 07 06 01.0
		Ud	iPKP	02 51 02.3			i 07 06 09.0
		De	iPKP	02 51 12.4			Tonga-Kermadec Islands
				Tonga-Kermadec Islands			(h = 500 km).
				(h = 130 km).	"	30	Up iPKP 07 22 43.6 C
"	30	Um	iP	03 25 48.1			PKP Z' 0.1 0.7
				Japan (h = 360 km).			Ki ePKP 07 22 28
"	30	Up	iPKP	05 53 27.6 C			iSKP 07 25 17.3
			i	05 53 51.4			Sk e(PKP) 07 22 36
			ipPKP	05 55 37			iPKP 07 22 38.0
			ipSKP	05 59 09.8			Um i(PKP) 07 22 30.9
			i	06 02 47			iPKP 07 22 36.9
				micr sec			iSKP 07 25 28.3
				PKP Z' 5.6 0.9			Ud iPKP 07 22 45.4 C
				Mx E 4.7 22			Tonga-Kermadec Islands
				Mx N 6.4 21			(h = 490 km).
				Mx Z 5.1 19	"	30	Up iPKP 07 42 32.5
		Ki	e(PKP)	05 53 02			Ud iPKP 07 42 34.5
			i(PKP)	05 53 05.7			Tonga-Kermadec Islands
			i(PKP)	05 53 08.1			(h = 480 km).
			iPKP	05 53 13.5 C	"	30	Ud iP 10 08 32.2
			iSKP	05 56 02.0	"	30	Up iPKP 11 18 50.8
			i	06 03 44			micr sec
				micr sec			Mx E 1.0 18
				(PKP) Z' 0.1 0.7			Mx N 1.1 20
				PKP Z' 0.2 0.7			Mx Z 2.2 20
				Mx E 6.1 21			Ki ePP 11 20 18
				Mx N 6.0 20			micr sec
				Mx Z 6.0 19			Mx E 0.8 19
		Sk	i(PKP)	05 53 19.3			Mx N 1.3 22
			iPKP	05 53 24.3			Mx Z 1.2 20
		Um	i(PKP)	05 53 13.6			Um ePKP 11 19 06
			iPKP	05 53 19.8			Ud iPP 11 19 37.6
			iSKP	05 56 12.3			iPKKP 11 29 59.6
		Ud	iPKP	05 53 29.4 C			Chile (h = 70 km).
			ipSKP	05 59 12.0			M = 5.7 (Up, Ki).
			iSKKP	06 04 28.7			
		De	i(PKP)	05 53 36.2 C			
				(cont.)			



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

1972

Mar. 30 Up iSgl 12 08 34.9  
 Ki eSgl 12 10 33  
 Sk eSgl 12 10 12  
 Um iSgl 12 08 50.9  
 Ud iSgl 12 09 35.0  
 De eSgl 12 10 03  
 Western USSR.  
 Explosion.

" 30 Up iPKP 15 12 44.9  
 micr sec  
 PKP Z' 0.1 0.7  
 Um ePKP 15 12 39  
 Ud iPKP 15 12 46.8  
 De iPKP 15 12 56.8  
 Tonga-Kermadec Islands  
 (h = 500 km).

" 30 Up iPKP 16 16 38.0 C  
 micr sec  
 PKP Z' 0.2 0.8  
 Ki iSKP 16 19 12.3  
 Sk ePKP 16 16 31  
 Um i(PKP) 16 16 25.5  
 iPKP 16 16 31.5  
 iSKP 16 19 22.5  
 Ud iPKP 16 16 40.0 C  
 De iPKP 16 16 49.8 C  
 Tonga-Kermadec Islands  
 (h = 500 km).

" 30 Up eP 19 54 11  
 Sk eP 19 54 06  
 Um iP 19 53 50.6  
 Ud iP 19 54 18.6  
 Japan (h = 140 km).

" 30 Up iPKP 20 09 24.3  
 Um ePKP 20 09 12  
 Ud iPKP 20 09 25.7

" 30 Up iP 20 29 52.4  
 Ki iP 20 28 52.4  
 Sk eP 20 29 35  
 Ud iP 20 29 59.5  
 De iP 20 30 20.9

" 30 Ud eP 20 40 23

" 30 Up iPKP 22 14 59.4  
 Ud iPKP 22 15 01.5

" 30 Ud eP 23 58 27

" 31 Up iP 03 03 09.1  
 i 03 03 16.7  
 (cont.)

1972

Mar. 31 (cont.)  
 Up micr sec  
 Mx E 1.2 13  
 Mx N 0.7 16  
 Mx Z 1.5 14  
 Ki i 03 04 37.6  
 micr sec  
 Mx E 1.6 15  
 Mx N 0.7 12  
 Sk iP 03 03 47.9  
 Um iP 03 03 45.7  
 Ud iP 03 03 15.7  
 De iP 03 02 40.9  
 iPP 03 03 01.9  
 Greece (h = N).  
 M = 4.7 (Up, Ki).

" 31 Um iP 04 55 03.5  
 Ud eP 04 55 38  
 Japan (h = 40 km).

" 31 Ud iP 05 30 57.6

" 31 Up iPn 11 21 21.7  
 iPgl 11 21 31.3  
 iSn 11 22 10.6  
 iSgl 11 22 22.4  
 Sk iSgl 11 24 45.5  
 Um ePn 11 22 12  
 i(P\*) 11 22 22.3  
 i 11 23 51.9  
 iSgl 11 24 14.2  
 Ud iPn 11 21 40.1  
 iPgl 11 21 51.4  
 iSn 11 22 43.4  
 iSgl 11 23 07.6  
 De iPn 11 21 17.4  
 iPgl 11 21 26.3  
 eSgl 11 22 17  
 Baltic Sea, 56.3°N, 20.8°E.  
 Origin time = 11 20 20.  
 Explosion?

" 31 Up iPn 12 15 17.1  
 iSn 12 16 02.5  
 iSgl 12 16 15.9  
 Ki i(Sg2) 12 18 49.6  
 Sk iSgl 12 18 06.1  
 Um iPgl 12 15 44.9  
 iSgl 12 16 49.5  
 Ud iPn 12 15 44.6  
 iSn 12 16 50.5  
 iSgl 12 17 17.6  
 De ePn 12 15 56  
 iSgl 12 17 45.2  
 Esthonia, 59.6°N, 25.2°E.  
 (cont.)

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

1972

Mar. 31 (cont.)  
Origin time = 12 14 16.  
Explosion.

" 31 Um iSgl 12 26 54.6  
Ud eSgl 12 27 32  
Western USSR.  
Explosion.

" 31 Ud eP 13 37 01  
De eP 13 37 25

" 31 Ki iP 13 57 13.2  
Um iP 13 57 52.7  
Ud eP 13 58 25

" 31 Um i(Sgl) 14 11 57.7  
Ud i(Sgl) 14 12 41.8

" 31 Up iP 14 17 52.0  
iPP 14 20 50.4  
micr sec  
P Z' 0.1 0.9  
PP Z' 0.1 1.2  
Ki iP 14 17 18.6  
micr sec  
P Z' 0.1 0.9  
Sk iP 14 17 48.3  
Um iP 14 17 33.0 D  
ipP 14 18 05.1  
iPP 14 20 20.3  
Ud iP 14 17 59.5  
iPP 14 21 01.0  
De iP 14 18 12.1  
iPP 14 21 23.1  
South of Japan.  
h = 130 km (Um).  
m = 5.6 (Up,Ki).

" 31 De eP 15 26 05

" 31 Up iPKP 15 55 45.5  
micr sec  
Mx E 1.5 16  
Mx N 3.0 19  
Mx Z 3.8 20  
Ki iPKP 15 55 58.2  
micr sec  
PKP Z' 0.1 1.1  
Mx E 2.6 20  
Mx N 3.0 22  
Mx Z 2.6 21  
Sk ePKP 15 55 52  
Um iPKP 15 55 52.0  
i(PP) 15 57 34.7  
Ud iPKP 15 55 42.7  
i(PP) 15 57 00.2  
(cont.)

1972

Mar. 31 (cont.)  
South Sandwich Islands  
(h = N).  
M = 6.2 (Up,Ki).

" 31 Um iP 19 51 35.4  
Ud iP 19 51 56.4  
Tadzhik SSR.

" 31 Ud iP 20 09 55.8  
De iP 20 09 22.9  
Dodecanese Islands (h = N).

" 31 Up eP 20 37 15  
iS 20 41 35  
Ki iP 20 38 21.5  
micr sec  
Mx E 0.7 12  
Sk iP 20 37 53.2  
Um eP 20 37 53  
Ud iP 20 37 24.0  
i 20 37 34.7  
De iP 20 36 51.4  
Dodecanese Islands (h = 20 km).

" 31 Up iPKP 21 15 33.3 D  
micr sec  
PKP Z' 0.1 1.0  
Ki iSKP 21 18 08.8  
Um i(PKP) 21 15 21.9  
iPKP 21 15 27.3  
iSKP 21 18 19.4  
Ud iPKP 21 15 35.5 D  
De iPKP 21 15 45.6  
Tonga-Kermadec Islands  
(h = 480 km).

" 31 Sk eP 22 17 02  
Um i 22 17 18.5  
Ud iP 22 16 30.6  
De eP 22 15 57  
Greece.

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May 8, 1974

SEISMOLOGICAL INSTITUTE  
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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, 1972

1972					1972				
Apr. 1	Ki	iX	02 46 23.0		Apr. 1	(cont.)			
		iPKP2	02 46 36.3			Ud eSg1	09 52 27		
	Um	iPKP	02 46 21.4			Northwest Russia.			
		iPKP2	02 46 42.0			Explosion.			
	Ud	iPKP2	02 47 00.9		" 1	Up iP	10 26 10.8	D	
	De	ePKP2	02 47 05			Ki iP	10 25 19.1		
	Auckland Islands (h = N).					Sk iP	10 25 54.9		
" 1	Up	iP	05 55 39.7			Um iP	10 25 43.5		
	Sk	eP	05 56 25			Ud iP	10 26 14.9		
	Um	iP	05 56 25.0			De iP	10 26 35.4		
	Ud	iP	05 55 42.3			Kurile Islands (h = N).			
	De	eP	05 55 05		" 1	Ud iP	10 58 52.7		
	Yugoslavia (h = N).				" 1	Up iP	11 19 46.9		
" 1	Up	iSg1	09 41 56.6			iPKS	11 23 30.2		
	Ki	iPn	09 37 45.1			Ki ePKP	11 19 38		
		iSn	09 38 44.5			Sk ePKP	11 19 41		
		iS*	09 39 03.2			Um iP	11 19 37.8		
		iSg1	09 39 07.2			i	11 19 46.6		
	Sk	e	09 41 12			iSKP	11 23 01.4		
		iSg1	09 41 39.4			Ud iP	11 19 49.6		
	Um	iSn	09 39 24.6			iPKS	11 23 33.8		
		iSg1	09 39 59.0			De iP	11 20 00.8		
	Ud	iS*	09 42 06.2			Fiji Islands (h = 220 km).			
		iSg1	09 42 28.3		" 1	Um iP	15 02 36.0		
	De	iSg1	09 44 01.0			Ud iP	15 03 06.7		
	Northwest Russia, 67.6°N, 34.3°E.				" 1	Sk eP	18 24 05		
	Origin time = 09 36 26.					Um eP	18 23 33		
	Explosion.					i	18 23 39.2		
" 1	Ki	iSn	09 48 37.7			Ud eP	18 23 18		
		iS*	09 48 55.8			De eP	18 22 57		
		iSg1	09 49 01.0		" 1	Um iP	19 04 19.6		
	Sk	eSg1	09 51 25			ipP	19 04 41.6		
	Um	eSn	09 49 15		(cont.)				
		iSg1	09 49 51.5						
	(cont.)								

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

1972				1972			
Apr.				Apr.			
1	(cont.)			2	Up	Mx	00 35
	Ud	iP	19 04 50.8				micr sec
	Japan.				Mx	E	2.4 21
	h = 90 km (Um).				Mx	N	2.6 21
"	1	Ki	eP 20 37 39		Mx	Z	1.5 18
		Um	iP 20 38 06.4		Ki	Mx	00 34
		Ud	iP 20 38 31.2				micr sec
		De	eP 20 38 54		Mx	E	1.2 16
					Mx	N	2.5 12
"	1	Up	iX 21 45 36.7		Solomon Islands		
		Ki	eX 21 45 31		(h = 30 km).		
		Sk	eP 21 45 20		M = 6.1 (Up,Ki).		
		Um	iP 21 44 57.6	"	2	Ki	iX 00 37 41.1
			iX 21 45 30.5			Um	iPKP 00 37 32.9
		Ud	iP 21 45 18.3				iX 00 37 44.3
			iX 21 45 50.8				iPKP2 00 38 01.7
"	1	Um	i(P) 22 25 29.5			Ud	iPKP2 00 38 20.3
"	1	Um	i(P) 22 57 52.1			De	iPKP2 00 38 24.9
"	1	Up	iPKP 23 55 20.5		Auckland Islands (h = N).		
		Ud	iPKP 23 55 22.5	"	2	Up	ePKP2 00 59 29
		De	ePKP 23 55 32				micr sec
"	2	Up	eX 00 11 31				PKP2 Z' 0.1 1.1
			iPKP2 00 11 49.9			Ki	iPKP 00 58 57.8
			micr sec				iPKP2 00 59 11.6
		PKP2	Z' 0.2 1.5				micr sec
		Mx	E 3.5 20			Um	PKP2 Z' 0.1 1.1
		Mx	N 3.2 20				iPKP 00 58 51.8
		Mx	Z 4.5 22				iX 00 59 01.2
		Ki	iPKP 00 11 11.0			Ud	iPKP2 00 59 18.4
			iX 00 11 23.2			De	iPKP2 00 59 36.2
			micr sec			Auckland Islands (h = N).	
		X	Z' 0.1 1.2	"	2	Ud	iP 02 45 17.2
		Mx	E 4.2 18	"	2	Um	iPKP 02 59 39.3
		Mx	N 4.8 19			Solomon Islands	
		Mx	Z 3.8 19			(h = 200 km).	
		Sk	ePKP2 00 11 57	"	2	Um	iPKP2 03 30 21.4
		Um	iPKP 00 11 13.8			Ud	iPKP2 03 30 38.8
			iPKP2 00 11 41.8			Auckland Islands (h = N).	
		Ud	iPKP2 00 11 57.8	"	2	Up	iP 03 42 21.2
		De	iPKP 00 11 19.6				i 03 42 37.2
			iPKP2 00 12 04.3				micr sec
		Auckland Islands (h = N).				P	Z' 0.1 0.9
		M = 6.4 (Up,Ki).				Mx	N 1.7 16
		The phase marked X in this				Ki	iP 03 42 26.6
		and adjacent Auckland Islands				Sk	iP 03 42 45.4
		events parallels the PKP				Um	iP 03 42 17.4
		travel time with a lag of				Ud	iP 03 42 36.5
		about 12-13 sec. It could				De	iP 03 42 35.0
		be pPKP, implying a focal				Kashmir (h = 45 km).	
		depth of h = 45 km.					

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

1972				1972						
Apr.	2	Um	iP	04 30 18.5	Apr.	3	Up	eP	08 13 32	
		Ud	iP	04 30 44.3			Ki	eP	08 14 10	
"	2	Up	eP	07 58 53			Sk	eP	08 14 09	
		Ki	iP	07 58 57.6			Um	iP	08 13 45.6	
		Sk	eP	07 59 18			Ud	iP	08 13 46.9	
		Um	eP	07 58 47			De	eP	08 13 39	
		Ud	iP	07 59 05.7			Iran (h = 45 km).			
			i	07 59 14.4	"	3	Um	iP	09 11 31.1	
		Kashmir (h = 60 km).					Ud	eP	09 11 01	
							Greece (h = N).			
"	2	Up	iPKP	09 20 42.8	"	3	Up	eP	09 15 02	
			iPP	09 23 18.4			Ki	iP	09 15 31.3	
		Ki	iPKP	09 20 27.1			micr sec			
							Mx	E	1.2 16	
			PKP	Z' 0.1 1.1			Mx	N	1.1 15	
			Mx	E 1.5 20			Mx	Z	1.2 16	
			Mx	N 1.6 21			Sk	iP	09 15 33.0	
			Mx	Z 1.4 20			Um	iP	09 15 10.3	
		Sk	ePKP	09 20 41				i	09 15 17.3	
		Um	i(PKP)	09 20 25.0			Ud	iP	09 15 15.0	
			iPKP	09 20 34.0			De	iP	09 14 59.9	
		Ud	i(PKP)	09 20 31.0			Iran (h = 50 km).			
			iPKP	09 20 43.9	"	3	Up	iP	09 48 23.6	
		De	i(PKP)	09 20 38.8			micr sec			
			iPKP	09 20 52.0				P	Z' 0.1 1.0	
		Tonga Islands (h = N).					Ki	iP	09 47 45.1	
"	2	Ki	iP	13 17 20.5			Sk	eP	09 48 17	
		Um	iP	13 17 46.8			Um	iP	09 48 01.5	
			i	13 17 50.3				ipP	09 48 16.4	
		Alaska (h = 120 km).					Ud	iP	09 48 29.7	
"	2	Ud	iPKP	14 51 49.3			Japan.			
		Samoa Islands (h = N).					h = 55 km (Um).			
"	2	Um	iP	16 30 26.9	"	3	Up	iSn	13 52 48.1	
"	2	Up						iSg1	13 53 01.4	
				micr sec			Ki	eSg1	13 55 32	
		Mx	E	9.1 19			Sk	eSg1	13 54 49	
		Mx	N	16 19			Um	iSg1	13 53 35.3	
		Mx	Z	23 19			Ud	iSn	13 53 36.4	
		Ki	ePKP	21 48 57				iSg1	13 54 04.5	
							Esthonia, 59.5°N, 25.1°E.			
				micr sec			Origin time = 13 51 00.			
		Mx	E	7.0 19			Explosion.			
		Mx	N	9.7 19	"	3	Sk	eP	15 52 05	
		Mx	Z	8.1 19			Um	iP	15 51 50.2	
		Sk	ePKP	21 49 09			Volcano Islands			
		Um	iPKP	21 49 02.1			(h = 140 km).			
		Ud	ePKP	21 49 18	"	3	Um	iPKP	17 07 19.0	
		New Hebrides Islands					Ud	iPKP	17 07 30.4	
		(h = N).				"	3	Um	iP	17 37 32.7
		M = 6.7 (Up,Ki).								
"	3	Ki	iP	01 37 07.1						
		Um	eP	01 37 05						
		Ud	iP	01 37 29.6						
		Kirghiz-Sinkiang (h = N).								

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

1972				1972							
Apr.	3	Up	iP	18 58 54.2	Apr.	3	Ki	iP	22 59 42.6		
			iS	19 03 46			Um	iP	23 00 06.8		
				micr sec			Kurile Islands (h = 60 km).				
			P	Z' 0.3 1.3			"	4	Ki	iP	09 03 43.8
			Mx	E 5.3 21					Um	iP	09 04 02.0
			Mx	N 5.1 19					Ud	iP	09 04 31.6
			Mx	Z 8.0 21			Japan (h = 35 km).				
		Ki	iP	18 58 57.1			"	4	Up	iSg1	13 21 58.8
				micr sec					Ki	eSg1	13 24 49
			P	Z' 0.1 1.1					Sk	iSg1	13 23 56.1
			Mx	E 4.1 17					Um	iSg1	13 22 48.2
			Mx	N 2.0 14					Ud	eSg1	13 21 59
			Mx	Z 4.4 17			Estonia, 59.0°N, 24.4°E.				
		Sk	iP	18 58 26.1			Origin time = 13 20 06.				
		Um	iP	18 58 58.7			Explosion.				
			iS	19 03 53			"	4	Um	iP	15 32 52.2
		Ud	iP	18 58 36.2			Japan (h = N).				
		De	iP	18 58 41.7			"	4	Up	iP	22 56 33.3 D
		North Atlantic Ocean							i		22 59 22.5
		(h = N).							iPKP		23 00 46.1
		m = 5.8, M = 5.3 (Up,Ki).							iSKS		23 06 30.0
"	3	Um	iP	19 03 40.5					iSP		23 09 31.3
		Ud	eP	19 04 07					iPKKP		23 12 11.7
		Japan (h = 40 km).								micr sec	
"	3	Up	iP	20 42 17.0					P	Z' 0.1 0.9	
			iS	20 47 06					Mx	E 2.4 21	
				micr sec					Mx	N 5.0 23	
			P	Z' 0.2 1.3					Mx	Z 4.0 21	
			Mx	E 6.9 20			Ki	iP			22 56 20.9 D
			Mx	N 5.7 19				iPKP			23 00 40.4
			Mx	Z 11 21				iSKS			23 06 16
		Ki	iP	20 42 18.7				iPKKP			23 12 20.4
				micr sec					micr sec		
			P	Z' 0.6 2.3					P	Z' 1.0 1.0	
			Mx	E 6.3 17					Mx	E 3.7 19	
			Mx	N 3.4 17					Mx	N 4.3 21	
			Mx	Z 5.5 17					Mx	Z 3.3 20	
		Sk	iP	20 41 48.9			Sk	iP			22 56 40.6 D
		Um	iP	20 42 22.6				iPKKP			23 12 07.8
			iS	20 47 16			Um	iP			22 56 24.6 D
		Ud	iP	20 41 57.2				iPKP			23 00 42.5
			i	20 42 01.4				iSKS			23 06 21
		De	iP	20 42 06.4				iPKKP			23 12 18.1
		North Atlantic Ocean					Ud	iP			22 56 42.1 D
		(h = N).						iPKKP			23 12 06.2
		m = 5.9, M = 5.4 (Up,Ki).					De	iP			22 56 46.7 D
"	3	Up	iP	22 19 59.0				iPKP			23 00 51.2
		Ki	iP	22 19 23.4				iPKKP			23 12 03.3
		Sk	iP	22 19 54.9			Banda Sea (h = 380 km).				
		Um	iP	22 19 38.8 D			m = 7.0, M = 6.1 (Up,Ki).				
		Ud	iP	22 20 06.6			M uncorrected for focal				
		Japan (h = 310 km).					depth.				

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

1972				1972			
Apr.	4	Um i(PP) Peru (h = 50 km).	23 52 28.8	Apr.	5	Ki iP Ud iP Mindanao (h = 90 km).	15 29 46.4 15 30 12.0
"	5	Up iP i Um iP Ud iP i	00 04 56.6 C 00 05 07.0 00 04 42.2 00 05 05.3 00 05 15.4	"	5	Um i(P) i	18 50 55.2 18 51 14.7
"	5	Up iP Um iP Ud iP Indian Ocean (h = N).	00 38 03.2 00 38 13.9 00 38 11.9	"	5	Um iP Indian Ocean (h = N).	18 59 20.6
"	5	Um iP Indian Ocean (h = N).	01 12 26.3	"	5	Ki iSg1 Sk iSg1 Um iSn iSg1 Nordland, Norway, 66.5°N, 14.0°E. Origin time = 20 09 18. Explosion.	20 10 47.8 20 10 53.6 20 11 01.6 20 11 15.5
"	5	Up iP P Ki iP P Sk iP Um iP Ud iP De iP Japan (h = 70 km). m = 5.8 (Up,Ki).	05 48 01.1 C micr sec Z' 0.1 1.0 05 47 17.9 C micr sec Z' 0.1 0.8 05 47 52.7 C 05 47 37.0 C 05 48 07.9 C 05 48 24.5	"	5	Up ePP Ki iP P Sk iP Um iP iPP Ud iP De iP Tadzhik-Sinkiang (h = 120 km).	22 47 43 22 46 11.2 micr sec Z' 0.1 0.9 22 46 31.1 D 22 46 03.3 D 22 47 41.0 22 46 24.1 D 22 46 23.0
"	5	Ud iP Kurile Islands (h = 110 km).	06 57 10.4	"	6	Sk eP Ud iP De eP Crete.	00 09 42 00 09 10.0 00 08 40
"	5	Um iP Indian Ocean (h = N).	07 56 54.2	"	6	Up iP Ki iP Sk iP Um iP ipP Ud iP De iP Japan. h = 390 km (Um).	07 57 34.5 07 57 34.6 07 57 35.9 00 14 55.3 00 14 20.4 00 14 49.8 00 14 34.6 00 15 59.6 00 15 01.5 00 15 14.3
"	5	Um i(P) Ud e(P) De e(P)	07 57 34.5 07 57 34.6 07 57 35.9	"	6	Up iP Ki eP Sk iP Um iP Ud iP De iP Kurile Islands (h = 70 km).	00 48 52.2 00 48 07 00 48 39.2 00 48 25.5 00 48 56.6 00 49 15.9
"	5	Um eP Indian Ocean (h = N).	10 12 15	"	6	Um iP Indian Ocean (h = N).	02 43 35.2
"	5	Up iP Ki iP Sk eP Um iP Ud iP China (h = N).	13 27 50.9 13 27 38.5 13 28 07 13 27 38.6 13 28 06.4				
"	5	Up iP Ki iP Um eP	15 01 53.3 15 01 35.0 15 01 35				
"	5	Um eP	15 28 38				

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

1972					1972					
Apr.	6	Up	iPKP	03 39 53.4	Apr.	6	Ud	eP	17 21 41	
			iSKP	03 43 16.0			North Atlantic Ocean			
		Ki	iPKP	03 40 07.9			(h = N).			
			i(SKP)	03 43 17.8		"	6	Um	iP	21 34 23.8
				micr sec				Ud	iP	21 34 41.4
			PKP	Z' 0.3 1.3			Hindu Kush (h = 220 km).			
			(SKP)	Z' 0.6 1.9		"	6	Ki	eP	21 50 51
		Sk	iPKP	03 39 59.1				Ud	iP	21 51 20.4
			iSKP	03 43 20.0			Kirghiz-Sinkiang (h = N).			
		Um	iPKP	03 40 01.8		"	6	Ki	eP	22 50 32
		Ud	iPKP	03 39 52.0				Um	iP	22 50 58.5
			iSKP	03 43 14.4				Ud	iP	22 51 23.4
		De	ePKP	03 39 44				De	eP	22 51 46
		South Sandwich Islands					Alaska (h = N).			
		(h = 140 km).								
		(SKP) denotes early SKP arrival.								
"	6	Ki	iP	03 46 34.2	"	7	Up	ePKP2	00 23 34	
		Um	iP	03 46 50.6					micr sec	
		Ud	iP	03 47 19.0				Mx	E	1.2 20
		Japan (h = N).						Mx	N	1.8 20
								Mx	Z	3.3 20
"	6	Up	iPKP	03 49 49.1			Ki	ePKP	00 23 11	
		Ud	iPKP	03 49 51.6					micr sec	
								Mx	E	2.4 18
"	6	De	iPKP	05 27 41.0				Mx	N	3.5 21
		Tonga-Kermadec Islands						Mx	Z	2.6 19
		(h = 510 km).					Sk	iPKP2	00 23 48.1	
"	6	Sk	iP	07 07 16.3			Um	iPKP	00 23 12.2	
		Hindu Kush.						iPKP2	00 23 32.4	
		Intermediate depth.					Ud	iPKP2	00 23 40.6	
								i	00 23 48.5	
"	6	Up	e(P)	08 43 42			De	iPKP2	00 23 38.0	
		Ki	iP	08 44 38.0			Macquarie Islands (h = N).			
		Ud	iP	08 43 41.9			M = 6.2 (Up,Ki).			
		De	e(P)	08 43 47	"	7	Up	iP	00 41 27.0	
		Caucasus.					Ki	eP	00 41 57	
"	6	Up	iP	11 20 54.4			Sk	eP	00 41 55	
		Ki	iP	11 19 59.0			Um	iP	00 41 38.2	
		Sk	eP	11 20 32				i	00 41 57.3	
		Um	iP	11 20 24.2			Ud	iP	00 41 38.2	
		Ud	iP	11 20 53.8				i	00 42 02.6	
		Aleutian Islands					Indian Ocean (h = N).			
		(h = 55 km).			"	7	Ki	iP	01 29 53.3	
"	6	Up	iPKP	14 53 59.0			Um	iP	01 29 58.5	
		Sk	ePKP	14 53 58			Ud	eP	01 30 17	
		Um	iPKP	14 53 52.3			Molucca Passage (h = 45 km).			
		Ud	iPKP	14 54 01.2	"	7	Um	i(P)	01 32 41.7	
		De	iPKP	14 54 06.9	"	7	Up	iP	03 26 20.4	
		Solomon Islands					Ki	iP	03 25 24.4	
		(h = 410 km).						ipP	03 25 52.8	
							(cont.)			



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

1972				1972			
Apr.	7	(cont.)		Apr.	7	(cont.)	
		Sk	eP 03 25 52			Ud	iSg1 20 23 20.5
		Um	iP 03 25 53.0			De	iPn 20 22 47.6
			ipP 03 26 22.3				iSn 20 23 58.7
		Ud	eP 03 26 17				iSg1 20 24 43.9
		De	iP 03 26 41.7			Near west coast of Norway, 62.4°N, 6.2°E.	
			ipP 03 27 09.4			Origin time = 20 21 09.	
		Alaska. h = 100 km (Ki,Um,De).					
"	7	Up	i(P) 05 58 43.3	"	8	Sk	eP 00 15 29
						Um	iP 00 15 32.3
						Ud	iP 00 14 52.0
						Greece-Albania.	
"	7	Up	iPg1 08 09 18.9				
			iSg1 08 09 26.2	"	8	Ki	iP 01 17 13.5
			iRg 08 09 31.1			Ud	iP 01 18 03.9
						Kurile Islands (h = 60 km).	
"	7	Up	iPKP 10 40 26.3				
		Tonga Islands (h = N).		"	8	Ud	iP 01 38 53.4
"	7	Um	iP 14 24 06.4			Greece-Albania.	
"	7	Ud	i 15 19 32.1	"	8	Up	iP 05 05 53.0
			iSg1 15 19 59.0				iPcP 05 06 21.6
		De	iSg1 15 20 36.2				iS 05 14 42
"	7	Up	iSg1 16 25 54.1				micr sec
		Ki	eSg1 16 26 34			P	Z' 0.2 1.5
		Sk	eSg1 16 27 05			Mx	E 1.3 22
		Um	iSg1 16 25 14.9			Mx	N 1.2 22
		Ud	eSg1 16 26 45			Mx	Z 2.4 20
		Lake Ladoga. Explosion.				Ki	iP 05 06 24.8
"	7	Ud	iP 17 10 27.3				micr sec
		Ionian Islands.				P	Z' 0.1 1.4
"	7	Up	iP 19 22 19.3			Mx	E 1.8 20
		Ki	eP 19 21 52			Mx	N 1.2 18
		Um	iP 19 22 02.9			Mx	Z 1.5 22
		Mariana Islands (h = 40 km).				Sk	iP 05 05 53.2
"	7	Up	iSn 20 23 43.7			Um	iP 05 06 14.5
			iSg1 20 24 17.7				iS 05 15 14
		Ki	iPn 20 23 05.3			Ud	iP 05 05 42.1
			eSn 20 24 35			De	iP 05 05 34.9
			iSg1 20 25 23.8			Atlantic Ocean (h = N). m = 6.0, M = 5.4 (Up,Ki).	
		Sk	iPn 20 21 52.7	"	8	Um	iP 05 34 32.4
			iSn 20 22 25.7			Indian Ocean (h = N).	
			i 20 22 40.3	"	8	Up	iP 06 35 47.5
			iSg1 20 22 45.2				micr sec
		Um	iPn 20 22 41.5			P	Z' 0.1 1.1
			iSn 20 23 56.4			Ki	iP 06 35 08.8
			iSg1 20 24 33.6				micr sec
		Ud	iPn 20 22 08.3			P	Z' 0.1 1.4
			iPg1 20 22 23.6			Sk	iP 06 35 20.5
			iSn 20 22 59.4			Um	iP 06 35 29.5
		(cont.)				Ud	iP 06 35 40.7
							i 06 35 42.8
						(cont.)	

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

1972

Apr. 8 (cont.)  
 De iP 06 36 01.8  
 Off coast of Oregon  
 (h = 10 km).  
 m = 5.9 (Up,Ki).

" 8 Up iP 06 51 48.8  
 Ki eP 06 51 47  
 Um iP 06 51 41.0  
 Ud iP 06 52 02.7  
 Tibet (h = N).

" 8 Um eSg1 08 12 23  
 Lake Ladoga region.  
 Explosion.

" 8 Up i 09 35 01.4  
 iSg1 09 35 15.4  
 Um eSg1 09 37 15  
 Ud iSg1 09 35 58.0

" 8 Up i(Sg1) 09 35 44.3  
 Um eSg1 09 37 41  
 Ud iSg1 09 36 29.1

" 8 Up iP 09 43 58.0 D  
 micr sec  
 P Z' 0.2 1.1  
 Ki iP 09 43 42.7 D  
 micr sec  
 P Z' 0.2 1.1  
 Mx E 0.8 12  
 Mx N 1.2 18  
 Mx Z 0.6 12  
 Sk iP 09 44 09.3  
 Um iP 09 43 45.8 D  
 Ud iP 09 44 10.8 D  
 China (h = 55 km).  
 m = 6.2 (Up,Ki).

" 8 Um iPKP 10 19 29.7  
 New Britain (h = 160 km).

" 8 Ud iPKP 10 36 16.6  
 De ePKP 10 36 27  
 Tonga-Kermadec Islands  
 (h = 510 km).

" 8 Ki iPn 10 55 59.7  
 iSn 10 56 50.1  
 Sk ePn 10 57 12  
 eSg1 10 59 43  
 Um iPn 10 56 38.3  
 iSn 10 57 54.6  
 iSg1 10 58 32.6  
 Ud eSg1 11 01 04  
 (cont.)

1972

Apr. 8 (cont.)  
 Northwest Russia,  
 69.2°N, 31.8°E.  
 Origin time = 10 54 54.  
 Explosion.

" 8 Ki iPn 11 15 46.6  
 iSn 11 16 37.1  
 Sk eSg1 11 19 04  
 Um iSn 11 17 06.0  
 iSg1 11 17 30.3  
 Northwest Russia,  
 66.8°N, 31.2°E.  
 Origin time = 11 14 40.  
 Explosion.

" 8 Ki iPn 12 58 15.9  
 iP\* 12 58 23.9  
 iSn 12 59 02.2  
 iS\* 12 59 14.9  
 Sk eSg1 13 02 00  
 Um iSn 13 00 12.5  
 iSg1 13 00 50.3  
 Ud eSg1 13 03 18  
 Northwest Russia-Norway  
 border region,  
 69.5°N, 30.3°E.  
 Origin time = 12 57 15.  
 Explosion.

" 8 Um iP 21 51 09.2  
 Ud eP 21 51 38  
 Japan (h = 60 km).

" 9 Ud eP 00 42 28

" 9 Um eP 01 21 23  
 Ud eP 01 21 35  
 Off coast of Oregon  
 (h = N).

" 9 Up iP 04 18 53.3 C  
 iPP 04 20 29.0  
 micr sec  
 P Z' 0.7 0.9  
 Mx E 6.5 10  
 Mx N 5.6 9  
 Mx Z 14 10  
 Ki iP 04 18 41.0 C  
 micr sec  
 P Z' 0.5 0.9  
 Mx E 7.9 10  
 Mx N 3.7 10  
 Mx Z 7.4 10  
 Sk iP 04 19 09.4 C  
 iPP 04 20 54.3  
 Um iP 04 18 40.6 C  
 (cont.)

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

1972				1972			
Apr.	9	(cont.)		Apr.	9	(cont.)	
		Um iS	04 24 57			Um ePKP	20 58 52
		Ud iP	04 19 08.7 C			Ud ePKP	20 58 52
		De iP	04 19 13.1 C			De iP	20 59 04.3
		i(PP)	04 20 49.8			Tonga Islands (h = N).	
		Sinkiang (h = N).					
		m = 6.3, M = 6.0 (Up,Ki).		"	9	Ud iP	22 52 03.1
"	9	Ud eP	06 08 37	"	9	Ki iP	22 55 47.3
"	9	Up iP	08 33 21.9 C			Sk eP	22 56 06
		Ki eP	08 32 33			Um iP	22 55 39.5
		Sk iP	08 33 09.6			Ud iP	22 55 58.4
		Um iP	08 32 54.7			Kashmir (h = 50 km).	
		Ud iP	08 33 26.5	"	10	Um iP	00 11 49.6
		De iP	08 33 45.9			Ud iP	00 12 08.3
		Kurile Islands (h = 45 km).				Afghanistan-USSR.	
"	9	Ud eP	08 52 00	"	10	Up iP	00 57 11.1
		i	08 52 11.7			Ki iP	00 56 48.7
		Sinkiang (h = 15 km).				Um iP	00 56 56.3
"	9	Um iP	09 28 53.4			Ud iP	00 57 20.2
		Ud iP	09 29 06.7	"	10	Up eP	00 58 12
		De iP	09 29 15.4			Um iP	00 57 54.3
"	9	Up eSg1	10 43 06			Ud eP	00 58 21
		Ki iSn	10 40 51.4			Japan (h = 40 km).	
		Sk eSg1	10 43 28	"	10	Um iP	01 05 02.0
		Um eSn	10 41 29			Japan (h = 40 km).	
		iSg1	10 42 05.2	"	10	Um eP	01 35 11
		Northwest Russia.				Japan (h = N).	
		Explosion.		"	10	Up eP	01 56 24
"	9	Up iP	10 52 00.0 C			Um iP	01 56 40.3
		Ki iP	10 51 47.5			Ud iP	01 56 38.5
		Sk iP	10 52 15.7			Iran.	
		Um iP	10 51 47.4			Origin time = 01 48 57.	
		Ud iP	10 52 15.4 C	"	10	Um iP	02 10 36.4
		De eP	10 52 20	"	10	Up iP	02 14 21.1 C
		Sinkiang (h = N).				i	02 14 22.6
"	9	Um iP	13 46 01.1			iPP	02 15 52
		Ud iP	13 46 28.2			iS	02 20 15
"	9	Up eP	15 39 44			micr sec	
		Sk eP	15 39 19			P	Z' 0.1 0.9
		Um eP	15 39 38			i	Z' 0.9 0.8
		Ud iP	15 39 29.1			Mx	E 97 18
		Guatemala (h = 90 km).				Mx	N 140 22
"	9	Ud iP	16 57 04.7			Mx	Z 260 21
		Hindu Kush.		Ki	iP	02 14 58.0 C	
		Intermediate depth.			i	02 14 59.4	
"	9	Ki ePKP	20 58 47		iPP	02 16 43.3	
		(cont.)			iS	02 21 18	
					(cont.)		

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

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Apr. 10 (cont.)

Ki		micr	sec
P	Z'	0.1	0.9
i	Z'	0.9	0.7
Mx	E	150	17
Mx	N	180	18
Mx	Z	100	13
Sk	iP	02 14	56.1 C
	i	02 14	57.5
Um	iP	02 14	34.8 C
	i	02 14	36.2
Ud	iP	02 14	36.2 C
	i	02 14	37.7
De	iP	02 14	19.7 C
	i	02 14	21.3

Iran (h = N).

m = 6.7, M = 7.1 (Up, Ki).  
Double P, in average 1.5  
sec apart. The second onset  
is considerably bigger than  
the first one.

" 10 Ud iP 02 27 46.4

" 10 Ud iP 02 31 08.1

" 10 Up iP 02 32 53.9  
Ki iP 02 33 30.3  
Um iP 02 33 08.3  
Ud iP 02 33 08.6  
De eP 02 32 54

Iran.

Origin time = 02 25 26.  
Approximate origin times  
for Iranian aftershocks  
are based on our own  
records only.

" 10 Ud iP 02 37 45.7

" 10 Up iP 02 38 09.8  
Ki eP 02 38 46  
Um iP 02 38 23.5  
Ud iP 02 38 25.1  
De eP 02 38 07

Iran.

Origin time = 02 30 42.

" 10 Up iP 02 38 57.8  
Um iP 02 39 12.1  
Ud iP 02 39 13.8  
De iP 02 38 57.1

Iran.

Origin time = 02 31 30.

" 10 Up eP 02 42 00  
(cont.)

1972

Apr. 10 (cont.)

Ki	iP	02 42 36.3
Sk	iP	02 42 34.7
Um	iP	02 42 13.1 C
Ud	iP	02 42 14.7 C
De	iP	02 41 58.4
Iran (h = N).		

" 10 Ud iP 02 45 22.7  
(Iran).

" 10 Um eP 02 48 33  
Ud iP 02 48 33.5  
Iran.  
Origin time = 02 40 51.

" 10 Ud eP 03 00 37

" 10 Um iP 03 06 30.9  
Ud eP 03 06 32  
Iran.  
Origin time = 02 58 49.

" 10 Ud eP 03 22 33

" 10 Up iP 03 45 24.1  
Ki iP 03 46 01.6  
Sk eP 03 46 03  
Um iP 03 45 38.4  
Ud iP 03 45 39.3  
De eP 03 45 23  
Iran (h = N).

" 10 Um iP 03 51 28.6  
Japan (h = N).

" 10 Up iP 04 02 13.4 C  
Ki iP 04 02 50.4 C  
Sk iP 04 02 48.1  
Um iP 04 02 27.1 C  
Ud iP 04 02 28.5 C  
De iP 04 02 12.0

Iran.

Origin time = 03 54 46.

" 10 Ud iP 04 05 03.7

" 10 Sk eP 04 13 10  
Um iP 04 13 07.3

" 10 Up eP 04 14 29  
Ki iP 04 15 07.6  
Sk iP 04 15 05.3  
Um eP 04 14 41  
Ud iP 04 14 44.1

Iran.

Origin time = 04 07 01.

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

1972

Apr. 10 Up iP 04 15 16.2  
Ki iP 04 15 52.8  
Sk eP 04 15 50  
Um iP 04 15 32.1  
Ud iP 04 15 31.3  
De eP 04 15 19  
Iran.  
Origin time = 04 07 48.

" 10 Ud iP 04 20 13.3

" 10 Ud eP 04 26 52

" 10 Up iP 04 43 45.5  
Ki iP 04 44 21.5  
Sk iP 04 44 20.2  
Um iP 04 43 59.0  
Ud iP 04 43 59.6  
i 04 44 00.7  
Iran (h = N).

" 10 Um eP 05 00 25  
Ud iP 05 00 26.9  
Iran.  
Origin time = 04 52 44.

" 10 Ud eP 05 25 22

" 10 Um iP 05 40 34.8  
Ud iP 05 40 36.7  
Iran.  
Origin time = 05 32 54.

" 10 Ud eP 05 45 21

" 10 Ud eP 05 56 57  
De iP 05 56 45.7  
Iran.

" 10 Up iP 05 57 36.0  
Ki eP 05 57 01  
Sk iP 05 57 33.0  
Um iP 05 57 19.2  
Mariana Islands (h = N).

" 10 Um eP 06 03 08  
Ud iP 06 03 11.1  
Iran.  
Origin time = 05 55 27.

" 10 Ud eP 06 04 17

" 10 Ki iP 06 15 08.1  
Sk eP 06 15 06  
Um eP 06 14 44  
Ud iP 06 14 45.4  
Iran.  
Origin time = 06 07 02.

1972

Apr. 10 Up iP 06 28 23.0  
Ki eP 06 28 33  
Ud iP 06 28 30.9

" 10 Up iP 08 41 21.6  
Ki iP 08 41 58.2  
Sk iP 08 41 55.6  
Um iP 08 41 34.7  
Ud iP 08 41 36.5  
De iP 08 41 20.2  
Iran (h = N).

" 10 Up iP 09 11 25.7  
Ki eP 09 12 02  
Um iP 09 11 40.8  
Ud iP 09 11 40.6  
De iP 09 11 24.5  
Iran (h = N).

" 10 Ud eP 09 18 41  
Iran.

" 10 Up iP 09 54 12.3  
Ki iP 09 54 49.5  
Sk iP 09 54 46.8  
Um iP 09 54 26.4  
Ud iP 09 54 27.3  
De eP 09 54 11  
Iran (h = N).

" 10 Up iP 10 54 28.8  
Ki eP 10 55 07  
Sk eP 10 55 05  
Um iP 10 54 43.5  
Ud iP 10 54 45.5 C  
De iP 10 54 30.2  
Iran (h = N).

" 10 Ud iP 12 06 20.9

" 10 Up iSg1 12 46 49.7  
Ki eSg1 12 48 37  
Sk eSg1 12 48 23  
Um iSg1 12 46 55.3  
Ud iSn 12 47 19.4  
iSg1 12 47 53.2  
Western USSR.  
Explosion.

" 10 Up eP 13 05 53  
Ki eP 13 06 31  
Um e(P) 13 06 02  
Ud iP 13 06 07.5  
De iP 13 05 55.3  
Iran.  
Origin time = 12 58 24.

" 10 Ki eP 13 59 34  
(cont.)

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

1972			1972		
Apr. 10	(cont.)		Apr. 10	(cont.)	
	Um iP	13 59 10.7		Ud iP	20 34 51.1
	Ud iP	13 59 08.1		i	20 34 53.5
	Iran.			De iP	20 34 34.9
	Origin time = 13 51 28.			Iran (h = N).	
" 10	Up iP	14 43 03.8	" 10	Up i(P)	21 28 10.3
	Ki iP	14 43 40.8		i	21 28 29.9
	Sk eP	14 43 38	" 10	Up iP	22 15 54.4
	Um iP	14 43 19.0		iX	22 16 21.6
	Ud iP	14 43 19.1		Ki eX	22 15 47
	De iP	14 43 02.4		Sk eP	22 15 50
	Iran (h = N).			Um iP	22 15 32.8
" 10	Up iP	16 32 47.4		iX	22 16 00.7
	Ki iP	16 32 35.8		Ud eP	22 16 00
	Sk eP	16 33 04		Japan (h = 30 km).	
	Um iP	16 32 35.9		The phase marked X could	
	Ud iP	16 33 03.2		be P of another shock in	
	Sinkiang.			the same area, 27.5 sec	
" 10	Um iP	16 55 58.4		later.	
	Ud iP	16 55 58.8	" 11	Um iP	00 46 14.7
	Iran.			Ud iP	00 46 18.1
	Origin time = 16 48 16.			Iran.	
" 10	Ud iP	16 59 35.0		Origin time = 00 38 34.	
" 10	Up eP	17 00 37	" 11	Um eP	01 46 17
	Ki eP	17 01 11		Ud iP	01 46 17.9
	Um iP	17 00 51.4		Iran.	
	Ud iP	17 00 49.0		Origin time = 01 38 35.	
	Iran.		" 11	Up iP	02 32 17.0 C
	Origin time = 16 53 06.			ipP	02 32 25.6
" 10	Up iP	17 21 02.9		iS	02 41 20
	Ki eP	17 21 39			micr sec
	Um iP	17 21 16.1		P	Z' 0.7 1.6
	Ud iP	17 21 17.6		Mx E	31 22
	Iran.			Mx N	28 20
	Origin time = 17 13 33.			Mx Z	38 18
" 10	Ud iP	19 25 38.9		Ki iP	02 32 53.7 C
" 10	Up iPKP	19 59 29.1		ipP	02 33 02.5
	Ud ePKP	19 59 31		iS	02 42 30
	De ePKP	19 59 41			micr sec
" 10	Up iP	20 34 36.3 C		P	Z' 0.8 1.9
	i	20 34 38.4		Mx E	23 19
	Ki iP	20 35 12.5		Mx N	26 19
	i	20 35 15.2		Mx Z	22 19
	Sk iP	20 35 10.9		Sk iP	02 32 21.5 C
	i	20 35 14.6		Um iP	02 32 38.5 C
	Um iP	20 34 49.7		ipP	02 32 47.3
	i	20 34 53.3		iS	02 42 05
(cont.)				Ud iP	02 32 08.3 C
				ipP	02 32 17.6
			(cont.)		

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

1972				1972			
Apr. 11 (cont.)				Apr. 11 (cont.)			
	De	iP	02 31 53.4 C		Um	iP	14 24 49.7 C
	Atlantic Ocean.				Ud	iP	14 25 20.6 C
	h = 35 km (Up,Ki,Um,Ud).				De	iP	14 25 37.3 C
	m = 6.5, M = 6.7 (Up,Ki).				Japan (h = 60 km).		
					m = 5.8 (Up,Ki).		
"	Ki	eP	03 03 41	"	Sk	eSg1	14 36 28
"	Ki	iP	06 07 22.3		Ud	iPg1	14 35 31.2
	Sk	iP	06 07 33.6			iSg1	14 35 51.4
	Um	iP	06 07 06.5	"	Ki	iP	15 36 30.5
	Ud	iP	06 07 20.5		Um	iP	15 36 58.0
	Turkmen SSR (h = N).				South of Alaska (h = 15 km).		
"	Up	iP	06 29 13.6	"	Um	iP	16 38 43.3
	Ud	iP	06 29 28.8		(Iran).		
	Sinkiang (h = N).			"	Ki	iP	18 30 29.1
"	Um	iP	11 11 21.7		Alaska (h = 20 km).		
"	Up	iP	11 16 51.5	"	Um	iP	19 25 37.2
		i	11 16 55.2	"	Um	iP	19 53 32.9
	Sk	iP	11 17 31.9		Ud	iP	19 53 34.4
	Um	iP	11 17 30.7		Iran.		
	Ud	iP	11 16 57.9		Origin time = 19 45 51.		
		i	11 17 01.2	"	Up	eP	05 59 09
	De	iP	11 16 21.5		Ki	eP	05 59 46
	Greece (h = 55 km).				Sk	eP	05 59 45
"	Ud	eP	12 03 12		Um	iP	05 59 22.1
"	Um	eP	12 04 56		Ud	iP	05 59 23.8
"	Ki	iP	12 08 46.0		De	iP	05 59 07.6
	Sk	eP	12 08 33		Iran (h = N).		
	Um	iP	12 08 52.0	"	Ki	ePKP	10 18 53
	Cuba (h = N).				Um	iPKP	10 19 01.3
"	Up	iSg1	12 29 18.2		Ud	iPKP	10 19 05.3
	Sk	eSg1	12 31 10		De	iPKP	10 19 15.8
	Um	iSg1	12 29 51.2		Tonga Islands (h = 200 km).		
	Ud	iSg1	12 30 21.5	"	Ud	iP	10 54 17.4
	De	eSg1	12 30 47	"	De	i(P)	14 05 44.5
	Esthonia, 59.5°N, 25.0°E.			"	De	i(P)	14 35 02.5
	Origin time = 12 27 20.			"	Ud	iP	18 40 21.1
	Explosion.			"	Up	iP	18 45 10.2 C
"	Ud	iP	13 13 16.2			i	18 45 14.3
"	Up	iP	14 25 13.8 C		Ki	iP	18 45 46.9 C
			micr sec		Sk	iP	18 45 45.1
	P	Z'	0.1 1.0		Um	iP	18 45 23.8 C
	Ki	iP	14 24 30.3 C		Ud	iP	18 45 25.5 C
			micr sec			i	18 45 28.8
	P	Z'	0.1 1.0		(cont.)		
	Sk	iP	14 25 05.3 C				
	(cont.)						

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

1972				1972			
Apr.	12	(cont.)		Apr.	12	(cont.)	
		De	iP 18 45 09.0			Ud	i 23 15 35.7
		Iran (h = N).				De	iP 23 15 16.8
"	12	Ud	eP 18 55 18			Iran (h = N).	
"	12	Up	iPg1 20 49 04.0			M = 4.9 (Up,Ki).	
			iSg1 20 49 10.7			Double P, in average 2.0	
		Ud	iSg1 20 50 03.6	"	13	Um	iP 01 23 01.2
		Uppland, Sweden.				Ud	eP 01 23 33
		Origin time = 20 48 57.				De	iP 01 23 41.6
		Probably ore mine explosion		"	13	Um	iP 01 24 38.2
		at Dannemora				Ud	iP 01 25 10.6
"	12	Up	eP 21 45 34	"	13	Um	iP 01 42 16.6
			i 21 45 40.9			Ud	iP 01 42 41.6
		Ki	eP 21 45 49	"	13	Ki	iPKP 04 59 12.9
		Sk	eP 21 46 03			Um	iPKP 04 59 19.1
			i 21 46 08.4			New Hebrides Islands	
		Um	iP 21 45 33.5			(h = 20 km).	
			i 21 45 40.4	"	13	Ud	iP 06 54 53.5
		Ud	iP 21 45 51.0			Greece.	
			i 21 45 58.0	"	13	Up	iSg1 09 50 29.2
		Uzbek SSR (h = 60 km).				Um	eSg1 09 52 28
		Double P, in average 6.9				Ud	iSg1 09 51 02.1
		sec apart.				De	iPg1 09 48 40.2
"	12	Up	eP 22 39 16				eSg1 09 49 40
		Sk	eP 22 39 55			Northern Poland.	
		Um	iP 22 39 30.0	"	13	Up	iPKP 10 38 15.8
		Ud	iP 22 39 31.6			Sk	ePKP 10 38 15
		De	eP 22 39 16			Um	iPKP 10 38 05.4
		Iran (h = N).				Ud	iPKP 10 38 17.4
"	12	Um	iP 23 14 58.4	"	13	Um	iP 11 21 57.9
		Ud	iP 23 14 59.4	"	13	Sk	i(P) 14 22 30.0
		Iran.		"	13	Ki	eP 15 15 33
		Origin time = 23 07 16.				Ud	iP 15 16 03.0
"	12	Up	iP 23 15 18.7			Luzon (h = 70 km).	
			i 23 15 20.9	"	13	Ki	iSg1 16 37 34.2
			iS 23 21 22.7			Sk	iSg1 16 37 40.6
			micr sec			Um	i 16 37 53.6
		Mx	E 0.6 16				iSg1 16 38 02.3
		Mx	N 0.9 20			Nordland, Norway,	
		Mx	Z 0.9 17			66.5°N, 14.1°E.	
		Ki	iP 23 15 55.2			Origin time = 16 36 05.	
			i 23 15 57.1			Explosion.	
			micr sec	"	13	Up	iP 18 44 40.0
		Mx	E 0.8 11			Ki	eP 18 45 17
		Mx	N 1.1 17			(cont.)	
		Mx	Z 0.6 16				
		Sk	iP 23 15 53.3				
		Um	iP 23 15 32.8				
			i 23 15 35.0				
		Ud	iP 23 15 33.8				
		(cont.)					



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

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Apr. 13 (cont.)  
 Sk eP 18 45 14  
 Um iP 18 44 53.4  
 Ud iP 18 44 55.2  
 De iP 18 44 39.0  
 Iran (h = N).  
 " 13 Um eP 19 13 49  
 Ud iP 19 13 51.5  
 De eP 19 13 37  
 Iran.  
 Origin time = 19 06 09.  
 " 13 Um eP 19 34 09  
 Ud eP 19 34 13  
 Iran.  
 " 13 Um eP 19 40 08  
 Japan (h = 15 km).  
 " 13 Up eP 20 03 33  
 Um iP 20 03 46.3  
 Ud iP 20 03 48.0  
 Iran.  
 Origin time = 19 56 05.  
 " 14 Ki iSg1 00 14 22.6  
 Sk iSg1 00 14 28.8  
 Um iSn 00 14 35.7  
 iSg1 00 14 52.9  
 Nordland, Norway,  
 66.6°N, 13.8°E.  
 Origin time = 00 12 53.  
 Explosion.  
 " 14 Up iP 05 54 20.4 C  
 Ki iP 05 53 43.6  
 Sk iP 05 54 15.6  
 Um iP 05 53 59.6 C  
 Ud iP 05 54 27.7  
 De iP 05 54 41.3  
 Japan (h = 80 km).  
 " 14 Ud iP 06 17 16.9  
 " 14 Up i(P) 08 23 27.7  
 " 14 Up iP 11 05 43.5  
 Ki iP 11 04 56.1  
 Um iP 11 05 18.1  
 Ud iP 11 05 48.7  
 De iP 11 06 07.8  
 Kurile Islands (h = 40 km).  
 " 14 Um iP 11 16 00.7

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Apr. 14 Um iP 11 23 30.3  
 Sinkiang.  
 " 14 Um iP 11 36 29.4  
 Turkey.  
 " 14 Ki eP 12 56 18  
 Ud iP 12 56 44.1  
 Luzon (h = 45 km).  
 " 14 De i(P) 14 41 35.0  
 " 14 De ePg1 15 17 28  
 iRg 15 17 39.7  
 " 14 Up iP 18 28 30.3  
 Ki iP 18 28 28.3  
 Sk iP 18 28 42.4  
 Um eP 18 28 27  
 Ud iP 18 28 41.0  
 Sunda Strait (h = 80 km).  
 " 14 Up iP 20 33 07.2  
 Ki eP 20 33 44  
 Um iP 20 33 21.0  
 Ud iP 20 33 22.4  
 De eP 20 33 08  
 Iran.  
 Origin time = 20 25 39.  
 " 14 Up eP 20 58 47  
 Ud iP 20 58 29.1  
 " 14 Ud iP 23 09 46.3  
 De eP 23 09 29  
 Iran.  
 Origin time = 23 02 03.  
 " 15 Um iP 02 27 54.1  
 Ud iP 02 27 55.3  
 De iP 02 27 39.3  
 Iran.  
 Origin time = 02 20 12.  
 " 15 Up eP 05 54 00  
 Ki iP 05 53 17.8  
 Sk eP 05 53 54  
 Um iP 05 53 36.4 C  
 Ud iP 05 54 08.1  
 De iP 05 54 24.1  
 Sea of Japan (h = 250 km).  
 " 15 Up iSKP 07 50 50.9  
 Ki iSKP 07 50 28.2  
 Sk eSKP 07 50 47  
 Um iP 07 47 26.0  
 (cont.)

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

1972				1972			
Apr. 15	(cont.)			Apr. 16	Up	iP	00 06 58.9
	Um	iSKP	07 50 39.4			iS	00 09 44.4
	Ud	iSKP	07 50 54.5		Ki	iP	00 08 22.7
	De	iPKP	07 47 38.1		Sk	iP	00 07 54.0
	Loyalty Islands (h = 160 km).				Um	iP	00 07 41.2
" 15	Ud	iP	09 59 22.1		Ud	iP	00 07 14.8
					De	iP	00 06 35.8
" 15	Ki	e(P)	11 45 20	" 16	Up	iP	00 26 38.6
	Um	i(P)	11 46 01.6		Um	iP	00 26 12.6
		i	11 46 30.5		Ud	iP	00 26 43.4
	Ud	iP	11 45 34.3		Kurile Islands (h = 55 km).		
	Probably more than one event.			" 16	Up	iP	01 40 42.3
" 15	Ud	iP	13 20 43.7			ipP	01 40 52.3
" 15	Up	iP	15 36 04.1				micr sec
	Um	eP	15 36 17			P	Z' 0.1 1.0
	Ud	iP	15 36 19.1		Ki	iP	01 40 42.9 C
	Iran.					ipP	01 40 52.1
	Origin time = 15 28 36.						micr sec
" 15	Up	eP	15 46 15			P	Z' 0.1 1.0
	Um	e(P)	15 46 59		Sk	iP	01 41 05.4
	Ud	eP	15 46 12		Um	iP	01 40 39.1
	Aegean Sea.					ipP	01 40 49.4
" 15	Um	iP	17 37 53.1 C		Ud	iP	01 40 51.6
	Banda Sea (h = 130 km).				De	iP	01 40 50.3
" 15	Up	eP	17 38 50		Sumatra.		
" 15	Ki	iP	17 50 06.3		h = 35 km (Up,Ki,Um).		
	Sk	iP	17 49 51.6	" 16	Up	eP	02 57 12
	Um	iP	17 50 08.2			ipP	02 57 27.2
	Ud	eP	17 49 52		Ki	eP	02 56 27
	Colombia (h = 40 km).				Um	iP	02 56 47.1
" 15	Ud	eP	18 26 42		Ud	iP	02 57 17.9
" 15	Um	iP	20 38 36.4		De	eP	02 57 38
" 15	Um	iPg1	20 57 10.2		Kurile Islands.		
		iSg1	20 57 19.0		h = 55 km (Up).		
" 15	Ud	eP	23 05 32	" 16	Ud	iP	03 26 36.4
	Kamchatka (h = 80 km).				Crete.		
" 15	Up	ePKP	23 30 24	" 16	Ud	i(PKP)	04 38 21.1
	Um	iPKP	23 30 13.0		De	e(PKP)	04 38 33
	Ud	iPKP	23 30 25.8	" 16	Ud	iP	05 16 20.0
" 15	Um	iPKP	23 57 22.6	" 16	Um	i(P)	06 40 14.9
		i	23 57 31.4	" 16	Um	eP	07 10 59
	New Hebrides Islands (h = 40 km).			" 16	Up	iP	09 48 36.0
					Um	iP	09 48 49.0
					Ud	iP	09 48 50.3
					Iran.		
					Origin time = 09 41 07.		
				" 16	Up	iP	10 12 56.6
					(cont.)		

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

1972				1972			
Apr. 16	(cont.)			Apr. 16	Up	iP	20 57 09.2
	Up	iS	10 15 18.4		Ki	iP	20 56 53.2
		iLg2	10 16 44		Um	iP	20 56 57.9
			micr sec		Ud	iP	20 57 17.5
		P	Z' 0.1 0.9		Talaud Islands (h = 250 km).		
		Mx	E 2.7 6	" 16	Ud	iP	21 36 26.4
		Mx	N 2.4 7		Dodecanese Islands.		
		Mx	Z 3.4 7	" 16	Um	eP	22 49 11
	Ki	iP	10 14 39.1		Ud	ePP	22 53 41
		iLg2	10 20 53		Celebes (h = N).		
			micr sec	" 16	Up	iP	23 51 59.1
		P	Z' 0.1 0.9		Ki	iP	23 52 37.4
		Mx	E 4.9 9		Sk	eP	23 52 35
		Mx	N 2.4 8		Um	iP	23 52 13.9
		Mx	Z 1.8 7		Ud	iP	23 52 15.0
	Sk	iP	10 13 46.6		Iran (h = N).		
	Um	iP	10 13 49.7	" 17	Um	iP	00 48 40.7
	Ud	iP	10 13 01.8			ipP	00 48 56.4
		iS	10 15 31.3		Ud	iP	00 49 10.7
	Austria (h = 20 km).					ipP	00 49 26.2
	m = 5.0, M = 5.1 (Up,Ki).				Japan.		
" 16	Up	iP	11 07 38.3		h = 60 km (Um,Ud).		
			micr sec	" 17	Up	iP	01 12 58.2
		Mx	N 0.8 8		Ki	iP	01 12 05.7
		Mx	Z 0.9 7		Um	eP	01 12 31
	Ki	iP	11 09 21.1		Ud	eP	01 12 58
			micr sec		Aleutian Islands		
		Mx	E 0.8 8		(h = 55 km).		
		Mx	N 0.4 8	" 17	Up	iP	01 38 09.7
	Sk	iP	11 08 27.4		Ud	iP	01 38 09.6
	Um	iP	11 08 31.1		Aleutian Islands		
	Ud	iP	11 07 42.6		(h = 45 km).		
	De	iP	11 06 53.6	" 17	Up	iP	01 43 53.0
	Austria (h = 20 km).				Ki	iP	01 45 17.2
	M = 4.4 (Up,Ki).				Sk	iP	01 44 35.1
" 16	Up	iP	12 27 24.3		Um	iP	01 44 37.4 C
	Um	iP	12 27 05.7			i	01 44 42.3
	Ud	eP	12 27 31		Ud	iP	01 43 56.8
	Bonin Islands (h = N).				Adriatic Sea (h = N).		
" 16	Up	eP	13 57 42	" 17	Ki	iP	02 21 42.6
	Ki	iP	13 56 05.7		Ud	iP	02 21 20.3
	Sk	iP	13 56 58.4		Iran.		
	Um	iP	13 56 57.0		Origin time = 02 13 37.		
	Ud	iP	13 57 36.8	" 16	Ud	eP	15 45 12
	Greenland Sea (h = N).			" 16	Ud	eP	17 13 48
" 16	Ud	e(Pg1)	14 07 37	" 17	Up	iP	02 32 52.9
		iSg1	14 07 50.1		(cont.)		

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

1972				1972					
Apr. 17 (cont.)				Apr. 17 (cont.)					
	Ki	iP	02 33 01.2		Up		micr sec		
	Sk	eP	02 33 18		Mx	N	18 17		
	Um	iP	02 32 51.1		Mx	Z	42 18		
	Ud	iP	02 33 09.2 C		Ki		micr sec		
	Pakistan (h = 45 km).				Mx	E	11 16		
"	17	Um	i(P)	03 42 20.0		Mx	N	15 17	
			i	03 42 32.4		Mx	Z	12 17	
		Ud	i(P)	03 42 04.0	Sk	iP	11 01 33.0		
			i	03 42 18.7	Um	iP	11 01 14.1		
"	17	Up	eP	04 15 05		iS	11 10 41		
		Ki	iP	04 14 15.0	Ud	iP	11 01 39.1		
		Sk	eP	04 14 52		i	11 01 44.9		
		Um	iP	04 14 38.8	De	iP	11 01 48.0		
		Ud	iP	04 15 10.2	Formosa (h = 35 km).				
	Kurile Islands (h = N).				M = 6.5 (Up,Ki).				
"	17	Up	iP	05 15 48.9	"	17	Up	iP	11 13 27.3
		Ki	iP	05 14 55.6			P	Z'	0.1 1.0
		Um	iP	05 15 24.0	Ki	iP			11 13 02.1
		Ud	iP	05 15 48.7	Sk	iP			11 13 30.4
	Aleutian Islands (h = 45 km).				Um	iP			11 13 11.0
"	17	Ki	iP	09 04 53.6		Ud	iP		11 13 36.5
		Um	iP	09 04 58.7		De	iP		11 13 45.1
		Ud	iP	09 05 16.3		Formosa (h = N).			
	Celebes Sea (h = 270 km).			"	17	Up	iP		14 14 55.6
"	17	Up	iP	10 45 56.9			P	Z'	0.1 1.5
		ipP		10 46 22.6	Ki	iP			14 14 22.2
				micr sec			P	Z'	0.1 1.5
		Ki	pP	Z' 0.1 1.0		Mx	E		0.7 15
			iP	10 45 48.1		Mx	N		0.8 19
			ipP	10 46 15.6	Sk	eP			14 14 51
				micr sec	Um	iP			14 14 36.4
		Sk	pP	Z' 0.1 1.2	Ud	iP			14 15 01.9
			iP	10 46 11.8	De	iP			14 15 14.2
			ipP	10 46 38.2	Bonin Islands (h = N).				
		Um	iP	10 45 48.2	m = 5.7 (Up,Ki).				
			ipP	10 46 14.4	"	17	Up	iP	14 50 22.4
		Ud	iP	10 46 09.6			Sk	iP	14 49 53.9
			ipP	10 46 36.3			Um	iP	14 50 01.5
		De	ipP	10 46 38.6			Ud	iP	14 50 14.0
	Burma-India.						Off coast of Oregon (h = N).		
	h = 110 km (Up,Ki,Sk,Um, Ud).			"	17	Ki		micr sec	
"	17	Up	iP	11 01 29.8 C			Mx	E	0.5 13
			i	11 01 35.8			Mx	N	0.5 13
			iS	11 11 09	Um	iP			15 20 15.6
				micr sec	Ud	iP			15 20 23.4
			P	Z' 0.4 1.4	De	eP			15 20 16
			Mx	E 19 18	Iran (h = 45 km).				
	(cont.)								

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

1972				1972			
Apr. 17	Up	iP	19 03 25.6	Apr. 18	Ki	iP	04 37 35.9
	Um	iP	19 03 39.6		Um	eP	04 37 13
	Ud	iP	19 03 40.1		Ud	iP	04 37 13.0
	Iran.				Iran.		
	Origin time = 18 55 58.				Origin time = 04 29 31.		
" 17	Up	iP	20 33 49.7	" 18	Up	iPKP	04 44 04.4
	Ki	iP	20 33 19.1		Sk	iPKP	04 43 56.0
	Sk	eP	20 33 46			i	04 44 10.0
	Um	iP	20 33 31.7		Um	iPKP	04 43 52.2
	Ud	iP	20 33 54.7			i	04 44 02.0
	Volcano Islands (h = N).				Ud	iPKP	04 44 07.3
" 17	Ud	eP	21 03 58			i	04 44 20.3
	Iran.				De	iPKP	04 44 16.3
" 17	Up	iP	21 18 49.1	" 18	Sk	e(Sg1)	05 12 52
	Ki	iP	21 19 26.3		Ud	eSg1	05 11 05
	Sk	eP	21 19 24		De	ePg1	05 10 18
	Um	iP	21 19 02.7			eSg1	05 10 47
	Ud	iP	21 19 03.6		Near northern Denmark.		
	De	iP	21 18 48.3	" 18	Up	i(Sg1)	05 10 37.0
	Iran (h = 55 km).			" 18	Ki	iP	05 14 35.0
" 17	Ud	eP	21 24 24		Ud	iP	05 15 33.4
" 17	Ud	i(PKP)	23 11 03.0		Kamchatka (h = N).		
	De	e(PKP)	23 11 12	" 18	Up	iP	05 57 59.1
" 17	Ud	iP	23 40 53.6		Ki	iP	05 58 54.4
	Off coast of Oregon				Sk	iP	05 58 07.8
	(h = N).				Um	iP	05 58 30.8
" 18	Ki	iPKP	02 07 53.0		Ud	iP	05 57 47.7
		iSKP	02 11 03.6		De	iP	05 57 28.2
			micr sec		North Atlantic Ocean		
	SKP	Z'	0.1 1.6		(h = N).		
	Sk	iPKP	02 08 04.3	" 18	Ud	iP	07 29 08.2
	Um	iPKP	02 07 58.2	" 18	Ud	iP	07 33 06.0
		iSKP	02 11 15.2	" 18	Ki	iP	13 00 42.2
	Ud	ePKP	02 08 08		Sk	eP	13 01 11
		iSKP	02 11 29.9		Ud	iP	13 01 08.8
	De	iPKP	02 08 09.7	" 18	Ki	iP	14 23 48.1
		iSKP	02 11 38.6		Um	iP	14 24 14.0
	Loyalty Islands				Aleutian Islands		
	(h = 120 km).				(h = 140 km).		
" 18	Up	ePKP	03 45 18	" 18	Ud	i(P)	15 13 57.7
	Ki	iPKP	03 45 06.5	" 18	Ki	iP	15 19 10.6
	Sk	iPKP	03 45 17.8				micr sec
	Um	iPKP	03 45 12.1			P	Z' 0.1 0.7
	Ud	iPKP	03 45 21.3		(cont.)		
	De	iPKP	03 45 27.2				
	Solomon Islands						
	(h = 80 km).						

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

1972				1972				
Apr. 18	(cont.)			Apr. 19	Up	iP	19 43 21.8	
	Sk	iP	15 18 49.6		Ki	eP	19 42 42	
	Um	iP	15 18 45.4		Sk	iP	19 43 16.7	
	Ud	iP	15 18 25.8		Um	iP	19 43 01.2	
	Lake Tanganyika (h = 5 km).				Ud	iP	19 43 29.2	
					Japan (h = 60 km).			
" 18	Up		micr sec	" 19	Ud	iP	21 16 36.3	
	Mx	N	0.8 22		" 20	Up	iP	00 43 59.9
	Mx	Z	1.1 20		Ki	iP	00 43 47.7	
	Um	iPKP	18 46 06.0		Sk	iP	00 44 16.3	
	South of Africa (h = N).				Um	iP	00 43 47.8	
" 18	Up	iP	23 28 33.7		Ud	iP	00 44 15.6	
	Ki	iP	23 29 06.1		De	iP	00 44 20.1	
		i(pP)	23 29 18.8		Sinkiang (h = N).			
	Sk	eP	23 29 08	" 20	Sk	iP	03 54 18.1	
	Um	iP	23 28 43.1		Um	iP	03 54 02.3	
		i(pP)	23 28 56.5		Ud	iP	03 54 21.5	
	Ud	iP	23 28 50.4		Talaud Islands.			
	Caspian Sea (h = N).			" 20	Up	iSg1	11 44 28.8	
" 19	Up	iSg1	00 19 56.4		Ki	eSg1	11 47 06	
	Sk	eSg1	00 19 47		Sk	eSg1	11 46 19	
	Um	i	00 19 09.0		Um	iSg1	11 45 04.4	
		iSg1	00 19 28.9		Ud	iSg1	11 45 31.6	
	Ud	iSg1	00 20 05.8		De	eSg1	11 46 00	
	Medelpad-Ångermanland, Sweden, 62.6°N, 17.2°E. Origin time = 00 18 30.				Esthonia, 59.6°N, 24.4°E. Origin time = 11 42 40. Explosion.			
" 19	Ud	iP	03 44 12.6	" 20	De	i(P)	14 59 56.0	
	Greece (h = 5 km).			" 20	Ud	iP	15 18 54.4	
" 19	Up	iPKP	10 36 34.2		De	iP	15 18 35.7	
	Ud	iPKP	10 36 36.1	" 20	Ki	i(sP)	15 24 36.6	
	De	iPKP	10 36 46.3		Um	i(pP)	15 24 50.1	
" 19	Up	iP	14 51 06.0		Ud	i(sP)	15 25 25.9	
		ipP	14 51 19.3		De	i(pP)	15 25 40.0	
	Ki	iP	14 50 20.1		Alaska (h = 90 km).			
		ipP	14 50 32.7	" 20	De	i(P)	15 34 05.2	
	Sk	iP	14 50 54.9	" 20	Up	iP	15 48 25.0	
	Um	iP	14 50 40.8		Ki	iP	15 49 01.6	
		ipP	14 50 53.4		Um	iP	15 48 39.2	
	Ud	iP	14 51 11.6		Ud	iP	15 48 40.0	
		ipP	14 51 24.6		De	eP	15 48 24	
	De	eP	14 51 28		Iran. Origin time = 15 40 57.			
	Kurile Islands. h = 50 km (Up,Ki,Um,Ud).			" 20	Up	iSg1	16 06 00.5	
" 19	Ud	iP	17 48 23.7		Ki	ePg1	16 03 17	
" 19	Um	eP	17 49 24		(cont.)			
	Ud	iP	17 49 24.9					
	Iran. Origin time = 17 41 42.							

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

1972				1972			
Apr. 20 (cont.)				Apr. 21 (cont.)			
	Ki	iSg1	16 03 56.6		De	iP2	01 39 11.1
	Sk	iSg1	16 03 59.9			i	01 39 24.2
	Um	ePg1	16 03 35		Aleutian Islands.		
		iSn	16 04 09.9		h = 120 km (Up,Ki,Sk,Um,Ud).		
		iSg1	16 04 25.3		m = 6.1, M = 5.3 (Up,Ki).		
	De	eSg1	16 07 46		Double P, in average 1.8 sec apart.		
	Nordland, Norway, 66.5°N, 13.8°E.				"	21	Up
	Origin time = 16 02 25.						micr sec
	Explosion.						Mx E 1.0 21
"	20	Um	iPKP 17 20 55.9				Mx N 1.3 23
		Ud	iPKP 17 21 01.8				Mx Z 1.7 21
		De	iPKP 17 21 11.7		Ki	iP	01 45 55.6
	Tonga Islands (h = 35 km).					ipP	01 46 08.6
"	20	Um	iP 19 04 48.1		Um	iP	01 45 56.7
		Ud	iP 19 04 53.7			ipP	01 46 08.9
	Caucasus.				Ud	iP	01 46 11.6
"	20	Up	i(P) 19 13 36.2			ipP	01 46 23.9
"	20	Ud	iP 19 30 05.2		Java.		
	Iran.				"	21	Um
							iP 03 47 51.1
"	21	Up	iP1 01 38 47.5		"	21	Um
			iP2 01 38 49.2				iP 08 18 11.3
			ipP 01 39 16.8				Japan (h = 45 km).
			iP'P' 02 07 18.5		"	21	Up
			i 02 07 46.0				eP 10 50 48
			micr sec				Eastern Siberia (h = N).
		P2	Z' 0.7 1.8		"	21	De
		Mx	E 0.8 20				i(P) 10 50 58.9
		Mx	N 1.6 22		"	21	Up
		Mx	Z 1.8 22				iP 13 32 29.0
	Ki	iP1	01 37 53.4				micr sec
		iP2	01 37 55.2				Mx E 1.0 17
		ipP	01 38 22.7				Mx N 0.8 18
			micr sec				Mx Z 2.2 18
		P2	Z' 0.2 1.1		Ki	iP	13 32 04.2
		pP	Z' 0.7 1.5		Um	iP	13 32 12.5
		Mx	E 1.1 15		Ud	iP	13 32 37.8
		Mx	N 2.0 21			ipP	13 32 48.4
		Mx	Z 2.4 20		De	iP	13 32 49.8
	Sk	iP2	01 38 24.9		Formosa.		
		ipP	01 38 53.7		h = 40 km (Ud).		
	Um	iP1	01 38 21.2	"	21	Up	iPn 13 35 22.0
		iP2	01 38 23.2				iSn 13 36 48.9
		ipP	01 38 50.6				i 13 37 17.1
		iP'P'	02 07 26.6				iSg1 13 37 29.6
	Ud	iP1	01 38 46.5				micr sec
		iP2	01 38 47.4				Sg1 Z' 0.2 0.7
		ipP	01 39 15.6		Ki	iPn	13 35 37.7
	De	iP1	01 39 09.5			iSn	13 37 17.1
	(cont.)						micr sec
							Sn Z' 0.1 0.5
					(cont.)		

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

1972						1972					
Apr. 21	(cont.)					Apr. 21					
	Um	iPn		13 35	24.3		Up	iP		21 28	01.6
		iSn		13 36	53.5		Ki	iP		21 28	03.0
		i		13 37	11.4						micr sec
		iS*		13 37	25.0			Mx	N	1.0	16
	Ud	iPn		13 34	56.0		Sk	eP		21 28	24
		iSn		13 36	04.3		Ud	iP		21 28	17.0
		iS*		13 36	29.7		De	iP		21 28	17.2
	De	iPn		13 35	28.5		Sinkiang (h = N).				
		iSn		13 37	02.4		"	21	Um	iP	22 51 00.4
		iSg1		13 37	50.7		Hindu Kush.				
	Norwegian Sea, 62.9°N, 2.2°E.						Intermediate depth.				
	Origin time = 13 33 24.						"	22	Up	iP	02 23 46.8
"	21	Up	ePKP	13 44	28			Ud	iP	02 23	48.9
					micr sec		"	22	De	ePg1	09 25 37
		Mx	E	0.8	21				eSg1	09 26	05
		Mx	N	1.6	22		"	22	Up	iX	09 29 38.3
		Mx	Z	2.1	22			Um	iPKP	09 29	15.5
	Ki	iPKP		13 44	11.2				iX	09 29	27.9
					micr sec			Ud	ePKP	09 29	28
		PKP	Z'	0.1	1.0				iX	09 29	40.0
		Mx	E	1.5	20		"	22	Ki	iPn	10 10 59.2
		Mx	N	1.4	20				iSn	10 11	47.6
		Mx	Z	1.4	20				iS*	10 12	01.9
	Um	iPKP		13 44	19.6			Um	iSn	10 12	59.3
	Ud	iPKP		13 44	28.1				iSg1	10 13	33.5
	De	iPKP		13 44	34.8		Northwest Russia-Norway border region, 69.5°N, 31.0°E.				
	Tonga Islands (h = 130 km).						Origin time = 10 09 55.				
	M = 5.8 (Up,Ki).						Explosion.				
"	21	De	i(P)	13 58	27.5		"	22	Up	iSg1	12 47 59.2
"	21	Up	iP	14 40	35.2			Ki	iPg1	12 45	19.1
		Ki	iP	14 41	12.6				iSg1	12 45	56.2
		Um	iP	14 40	48.9			Sk	iSg1	12 46	01.8
		Ud	iP	14 40	50.4			Um	ePg1	12 45	35
	Iran (h = N).								iSn	12 46	10.1
"	21	Ud	iP	15 18	47.4				iSg1	12 46	24.6
"	21	Ud	i(P)	15 32	17.1			Ud	iSg1	12 47	49.9
"	21	Ud	iSg1	17 08	24.6			De	eSg1	12 49	44
		De	ePg1	17 07	03		Nordland, Norway, 66.5°N, 14.1°E.				
			eSg1	17 07	30		Origin time = 12 44 28.				
	Kattegat, off west coast of Sweden.						"	22	Up	iP	13 28 57.9
"	21	Um	iSg1	17 11	16.8			Ki	iP	13 28	55.5 C
"	21	Um	iP	19 06	42.2			Sk	iP	13 29	14.6
		Ud	iP	19 06	43.7			Um	iP	13 28	52.8 C
	Iran.							Ud	iP	13 29	10.8 C
	Origin time = 18 59 00.							De	iP	13 29	10.5
							Burma (h = N).				



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

1972

Apr. 22 Ki iPKP 13 36 01.5  
Um iPKP 13 36 08.1  
Ud iPKP 13 36 17.3  
De iPKP 13 36 24.6

Santa Cruz Islands  
(h = 650 km).

" 22 Up iP 21 22 43.8  
Ki iP 21 22 25.5  
Sk iP 21 22 47.6  
Um iP 21 22 32.1  
Ud iP 21 22 52.1  
Mindanao (h = 60 km).

" 23 Up iPKP 00 26 32.8  
Um iPKP 00 26 40.9  
Ud iPKP 00 26 31.3

" 23 Up eP 02 07 31  
Ki eP 02 08 09  
Um iP 02 07 46.3  
Ud iP 02 07 48.1  
De iP 02 07 31.7  
Iran (h = 70 km).

" 23 Up iP 05 18 22.3  
Ki iP 05 19 35.7  
Sk iP 05 19 02.4  
Um eP 05 18 57  
i 05 19 01.8  
Ud iP 05 18 28.5  
i 05 18 33.0  
De iP 05 17 52.1  
Greece (h = 40 km).

" 23 Ud iP 07 25 00.4  
Iran.

" 23 Up iSg1 08 43 57.4  
Ki iPn 08 39 45.2  
iSn 08 40 44.6  
Sk iSg1 08 43 31.9  
Um iSn 08 41 23.6  
iSg1 08 41 57.5  
Ud iSg1 08 44 29.4  
De iSg1 08 46 04.1  
Northwest Russia,  
67.7°N, 34.3°E.  
Origin time = 08 38 26.  
Explosion.

" 23 Um iP 17 27 00.6  
Ud eP 17 27 17

" 23 Up iP 20 53 14.1  
(cont.)

1972

Apr. 23 (cont.)

Up micr sec  
P Z' 0.1 1.0  
Ki iP 20 53 12.7  
micr sec  
P Z' 0.1 1.0  
Sk iP 20 53 26.7  
Um iP 20 53 11.0  
Ud iP 20 53 23.4  
Sumatra (h = 100 km).  
m = 6.2 (Up,Ki).

" 23 Ki eP 22 36 24  
Sk eP 22 36 20  
Um eP 22 36 00  
Ud iP 22 35 59.5  
Iran (h = 45 km).

" 23 Ki ePKP 23 55 33  
Um i(PKP) 23 55 43.8  
New Hebrides Islands  
(h = 15 km).

" 24 Up micr sec  
Mx E 2.0 21  
Mx N 2.3 21  
Mx Z 4.1 20  
Ki iPKP 01 40 05.4  
micr sec  
Mx E 3.7 20  
Mx N 5.0 20  
Mx Z 5.2 20  
Um i(PKP) 01 40 00.8  
iPKP 01 40 08.7  
Easter Island (h = N).  
M = 6.2 (Up,Ki).

" 24 Ki eP 01 48 40  
Ud iP 01 49 04.2  
Mindoro (h = 30 km).

" 24 Up iPKP 02 22 35.9  
iSKP 02 25 23.1  
iPP 02 25 45.7  
micr sec  
SKP Z' 0.2 1.1  
Ki e(PKP) 02 22 16  
iSKP 02 25 00.3  
i 02 35 13.1  
micr sec  
SKP Z' 0.4 1.1  
Mx E 1.5 18  
Mx N 1.4 20  
Sk i(PKP) 02 22 28.9  
iSKP 02 25 16.7  
(cont.)

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

1972

Apr. 24 (cont.)  
 Um i(PKP) 02 22 22.8  
       i(PKP) 02 22 24.7  
       iPKP 02 22 30.6  
       i 02 24 29.6  
       iSKP 02 25 11.8  
       i 02 34 41.9  
 Ud iPKP 02 22 37.9  
       iSKP 02 25 25.1  
       i 02 25 38.2  
 De iPKP 02 22 49.9 D  
       iSKP 02 25 34.0  
 Fiji Islands (h = 620 km).

" 24 Up iPKP 03 09 34.7  
           micr sec  
           PKP Z' 0.1 1.3  
 Ki iPKP 03 09 13.1  
 Sk iPKP 03 09 29.0  
 Um iPKP 03 09 23.1  
 Ud iPKP 03 09 36.3  
 De ePKP 03 09 45  
 South of Kermadec Islands  
 (h = N).

" 24 Ki iP 04 30 22.8  
 Mariana Islands (h = 35 km).

" 24 Up iP 10 09 10.0  
       ipP 10 09 16.4  
       iPP 10 12 02  
       iPa 10 13 49  
       iS 10 18 54  
           micr sec  
       P Z' 1.7 1.9  
       Mx E 140 17  
       Mx N 220 18  
       Mx Z 220 18  
 Ki iP 10 08 45.2  
       ipP 10 08 52.6  
       iS 10 18 10  
           micr sec  
       P Z' 2.5 2.5  
       Mx E 270 15  
       Mx N 220 15  
       Mx Z 160 12  
 Sk iP 10 09 12.7  
 Um iP 10 08 54.6  
       ipP 10 09 00.9  
       iPP 10 11 38  
 Ud iP 10 09 19.8  
       ipP 10 09 26.5  
 De iP 10 09 28.0  
 Formosa.  
 h = 25 km (Up,Ki,Um,Ud).  
 m = 6.9, M = 7.7 (Up,Ki).

1972

Apr. 24 Up iP1 11 44 01.7  
           micr sec  
           P1 Z' 0.1 1.0  
 Ki eP1 11 43 36  
       iP2 11 43 41.2  
           micr sec  
           P2 Z' 0.1 1.1  
 Sk eP2 11 44 09  
 Um iP1 11 43 46.6  
 Ud eP1 11 44 09  
 De iP1 11 44 19.4  
 Formosa (h = N).  
 m = 5.9 (Up,Ki).

" 24 Up iP 12 12 20.1  
 Ki iP 12 11 55.8  
 Sk eP 12 12 22  
 Um iP 12 12 04.7  
 Ud iP 12 12 28.3  
 De eP 12 12 37  
 Formosa (h = 20 km).

" 24 Um iP 12 34 09.1

" 24 Ud iP 13 37 19.9

" 24 Ki eP 14 49 13  
 Sk eP 14 49 13  
 Um iP 14 48 50.4  
 Ud iP 14 48 51.5  
 Iran (h = N).

" 24 Up eP 18 01 36  
 Ud iP 18 01 37.7

" 24 Up eP 18 10 22  
           micr sec  
           P Z' 0.1 1.0  
           Mx E 1.7 18  
           Mx N 2.4 22  
           Mx Z 2.6 19  
 Ki eP 18 09 55  
           micr sec  
           Mx E 2.6 13  
           Mx N 1.1 15  
           Mx Z 2.2 12  
 Sk eP 18 10 23  
 Um iP 18 09 59.9  
 Ud iP 18 10 27.8  
 Formosa (h = N).  
 M = 5.7 (Up,Ki).

" 24 Ki iP 18 43 13.4  
 Sk eP 18 43 49  
 Um iP 18 43 31.2  
 (cont.)



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

1972				1972			
Apr. 25 (cont.)				Apr. 26 (cont.)			
	De	iP	20 09 20.1	Ki	iP	00 48 24.7	
	Mindoro.			Um	iP	00 48 29.4	
	Origin time = 19 56 36.			Ud	iP	00 48 49.5	
"	25	Up	iP 20 42 21.4	Mindoro.			
			i 20 42 27.9	Origin time = 00 36 11.			
		Ki	eP 20 42 01	"	26	Up	i(PKP) 01 51 26.3
		Um	eP 20 42 07				iPKP 01 51 30.4
		Ud	iP 20 42 30.9				ipPKP 01 53 37.0
	Mindoro.						iSKP1 01 54 04.4
	Origin time = 20 29 50.						iSKP2 01 54 09.3
"	25	Up	iP 20 50 14.5				micr sec
			micr sec				SKP1 Z' 0.1 1.0
		P	Z' 0.1 0.7	Ki	iPKP	01 51 15.1	
		Ki	eP 20 49 57			iSKP	01 53 38.2
		Sk	eP 20 50 21	Sk	iPKP	01 51 25.3	
		Um	iP 20 50 03.1			iSKP	01 53 58.3
		Ud	iP 20 50 24.1	Um	i(PKP)	01 51 05.8	
		De	iP 20 50 30.7			iPKP	01 51 21.6
	Mindoro.					iSKP	01 53 51.4
	Origin time = 20 37 45.			Ud	i(PKP)	01 51 21.7	
"	25	Up	iP 20 59 07.3			iPKP	01 51 30.9
			micr sec			iSKP1	01 54 06.8
		P	Z' 0.1 0.8			iSKP2	01 54 12.4
		Ki	iP 20 58 50.1	De	i(PKP)	01 51 31.5	
		Sk	eP 20 59 09			iPKP	01 51 38.6
		Um	iP 20 58 55.7			ipPKP	01 53 48.8
		Ud	iP 20 59 16.5			iSKP	01 54 16.2
		De	iP 20 59 21.0	Fiji Islands.			
	Mindoro (h = N).			h = 570 km (Up,De).			
"	25	Up	iP 21 37 51.3	"	26	Up	iP 03 09 43.4
		Ki	iP 21 37 34.0			Ki	eP 03 09 26
			micr sec			Um	iP 03 09 31.5
		P	Z' 0.1 1.0			Ud	iP 03 09 52.5
		Sk	eP 21 38 00	Mindoro.			
		Um	iP 21 37 39.4	Origin time = 02 57 13.			
		Ud	iP 21 38 00.2	"	26	Up	iP 03 27 34.1
	Mindoro.					Ki	iP 03 27 15.1
	Origin time = 21 25 22.			Mindoro.			
"	25	Um	iP 22 12 32.6	Origin time = 03 15 03.			
"	25	Ki	eP 23 01 51	"	26	Up	iP 03 50 01.7
		Ud	iP 23 02 14.6			Ud	iP 03 50 10.3
	(Mindoro).			Mindoro.			
"	25	Up	ePKP 23 35 34	Origin time = 03 37 31.			
		Um	ePKP 23 35 29	"	26	Up	iP 04 29 07.2
		Ud	iPKP 23 35 35.8			Ki	eP 04 28 49
		De	ePKP 23 35 45			Sk	eP 04 29 14
						Um	iP 04 28 55.3
"	26	Up	iP 00 48 40.2			Ud	iP 04 29 16.1
	(cont.)			Mindoro (h = 70 km).			

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

1972

Apr. 26 Up iP 04 42 46.3 C  
micr sec  
P Z' 0.1 0.7  
Ki iP 04 42 29.0 C  
micr sec  
Mx E 1.8 20  
Mx N 0.7 18  
Mx Z 1.6 21  
Sk iP 04 42 50.8  
Um iP 04 42 34.6  
Ud iP 04 42 55.3 C  
Mindoro (h = 70 km).

" 26 Up iP 06 31 16.5  
micr sec  
P Z' 0.1 0.8  
Mx E 2.7 18  
Mx N 1.7 16  
Mx Z 4.5 17  
Ki iP 06 30 59.2  
micr sec  
P Z' 0.1 0.8  
Mx E 6.7 19  
Mx N 3.5 18  
Mx Z 6.9 18  
Sk iP 06 31 22.3  
Um iP 06 31 04.6  
Ud iP 06 31 25.4  
De iP 06 31 31.8  
Mindoro (h = N).  
m = 6.1, M = 5.9 (Up, Ki).

" 26 Up iP 06 35 06.4  
ipP 06 35 11.4  
micr sec  
pP Z' 0.1 1.0  
Mx E 3.0 16  
Mx N 3.9 13  
Mx Z 5.3 13  
Ki iP 06 36 18.6  
micr sec  
Mx E 2.9 13  
Mx N 1.7 12  
Mx Z 1.2 11  
Sk iP 06 35 51.5  
ipP 06 35 56.0  
Um iP 06 35 42.8  
ipP 06 35 47.1  
Ud iP 06 35 17.4  
ipP 06 35 23.5  
De iP 06 34 41.7  
ipP 06 34 48.8  
Turkey.  
h = 20 km (Up, Sk, Um, Ud, De).  
M = 5.1 (Up, Ki).

1972

Apr. 26 Up iP 06 56 11.0  
micr sec  
P Z' 0.1 0.8  
Ki iP 06 55 53.7  
Um iP 06 55 59.1  
Ud iP 06 56 19.0  
ipP 06 56 37.6  
Mindoro.  
h = 70 km (Ud).

" 26 Ud iPKP 08 36 55.5  
De ePKP 08 37 07

" 26 Up iP 08 51 01.4  
Um eP 08 50 52  
ipP 08 51 11.8  
Ud iP 08 51 10.3  
Mindoro.  
h = 70 km (Um).

" 26 Up iP 09 56 54.9  
Ki eP 09 56 38  
Um iP 09 56 43.0  
Ud iP 09 57 03.7  
Mindoro (h = 50 km).

" 26 Ki i(P) 10 17 52.6  
Um i(P) 10 18 05.4

" 26 Up iP 10 22 16.4  
Ki eP 10 22 53  
Um iP 10 22 30.2  
Ud iP 10 22 31.0  
Iran.  
Origin time = 10 14 48.

" 26 Up iPKP 11 11 33.8  
Ud iPKP 11 11 36.4  
De iPKP 11 11 46.4

" 26 Up eP 11 36 04  
Ki eP 11 35 48  
Um iP 11 35 53.2  
Mindoro.  
Origin time = 11 23 35.

" 26 Up iPKP 12 40 16.2  
Ki iPKP 12 40 05.9  
Sk i(PKP) 12 40 09.8  
Um i(PKP) 12 40 03.8  
iPKP 12 40 10.1  
iSKP 12 42 54.1  
Ud iPKP 12 40 17.9  
iSKP 12 43 07.0  
De iPKP 12 40 28.6  
Tonga-Kermadec Islands  
(h = 570 km).

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

1972				1972			
Apr. 26	Up	iP	14 30 12.7	Apr. 26	(cont.)		
	Ki	iP	14 29 55.6		m = 6.0 (Up,Ki).		
	Um	eP	14 29 59		Phases marked X are		
	Ud	iP	14 30 21.8		probably P of another		
			Mindoro (h = 70 km).		Mindoro earthquake, with		
" 26	Ki	eP	14 37 44	" 26	Up	iP	16 13 43.4
	Um	iP	14 38 03.1			i	16 13 53.9
	Ud	iP	14 38 33.1				micr sec
			Japan (h = 55 km).			P	Z' 0.1 0.9
" 26	Up	eP	15 08 16		Ki	iP	16 13 26.1 C
	Ki	eP	15 07 56				micr sec
	Ud	iP	15 08 21.9			P	Z' 0.1 0.9
			Mindoro.		Sk	iP	16 13 49.0 C
			Origin time = 14 55 44.		Um	iP	16 13 31.6 C
" 26	Ud	iP	15 08 46.9		Ud	iP	16 13 52.1 C
			Iran.		De	iP	16 13 48.5
" 26	Up	iP	15 57 39.7				Mindoro (h = 55 km).
" 26	Up	iP	16 04 29.1	" 26	Up	iP1	17 47 38.4
			micr sec			iP2	17 47 43.0
	Mx	E	2.9 14			i(PP)	17 50 42.4
	Mx	N	1.9 10				micr sec
	Mx	Z	2.2 12			P2	Z' 0.1 0.9
	Ki	eP	16 05 40		Ki	iP1	17 47 20.7
			micr sec			iP2	17 47 26.5
	Mx	E	3.4 12				micr sec
	Mx	N	1.3 10			Mx	E 1.8 18
	Mx	Z	1.1 11			Mx	N 0.9 18
	Sk	eP	16 05 13			Mx	Z 1.5 18
	Um	iP	16 05 04.5		Sk	iP2	17 47 49.6
			iS 16 09 34		Um	iP1	17 47 27.3
	Ud	iP	16 04 38.2			iP2	17 47 32.1
			i 16 04 42.1		Ud	iP1	17 47 46.6
	De	eP	16 04 05			iP2	17 47 51.8
			Turkey (h = 30 km).				Mindoro (h = 55 km).
			M = 5.1 (Up,Ki).				Double P, in average 5.1
" 26	Up	iP	16 08 31.6	" 26	Up	iP	17 51 20.4
			iX 16 08 46.1			i	17 51 24.6
			micr sec		Um	iP	17 51 10.5
		P	Z' 0.1 0.9		Ud	iP	17 51 32.1
	Ki	iP	16 08 14.7				Mindoro.
			iX 16 08 31.1				Origin time = 17 38 52.
			micr sec		" 26	Up	iP1 17 58 34.7
		P	Z' 0.1 0.8			iP2	17 58 42.9
	Sk	eP	16 08 38.6		Ki	iP2	17 58 26.0
	Um	iP	16 08 19.6		Um	iP1	17 58 22.7
			iX 16 08 33.8			iP2	17 58 32.7
	Ud	iP	16 08 40.5		Ud	iP1	17 58 43.3
			iX 16 08 55.2				Mindoro (h = 70 km).
	De	iP	16 08 47.2				
			Mindoro (h = 35 km).				
			(cont.)				

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

1972

Apr. 26 Ki eP 18 24 29  
Um iP 18 24 59.3  
Ud iP 18 25 24.1  
Unimak Island (h = 20 km).

" 26 Up iP 18 51 23.0  
Um iP 18 51 11.1  
Mindoro (h = 45 km).

" 26 Um i(P) 20 32 29.2

" 26 Up iP 21 03 44.7  
Ki iP 21 03 26.9  
Sk eP 21 03 49  
Um iP 21 03 31.9  
Ud iP 21 03 52.7  
Mindanao (h = 130 km).

" 26 Up iP 21 18 56.1  
P Z' 0.1 0.8  
Sk iP 21 19 36.6  
Um iP 21 19 34.4  
Ud iP 21 19 03.8  
De iP 21 18 25.8  
Greece (h = N).

" 26 Up iP 21 47 26.4  
Ki eP 21 47 09  
Ud eP 21 47 34  
Mindoro (h = 45 km).

" 26 Up iP1 22 17 14.2  
iP2 22 17 27.3  
Um i(P2) 22 17 14.1  
(Mindoro).

" 26 Ki eP 23 59 54  
Um iP 23 59 58.9  
Ud iP 00 00 24.7  
Formosa (h = N).

" 27 Up iP 00 47 47.6  
Ki iP 00 48 24.3  
Um iP 00 48 00.6  
Ud iP 00 48 02.1  
Iran.  
Origin time = 00 40 19.

" 27 Up iP 01 42 05.2 C  
P Z' 0.2 1.0  
Mx E 2.8 21  
Mx N 1.8 15  
Mx Z 5.1 20  
Ki eP 01 41 48  
(cont.)

1972

Apr. 27 (cont.)  
Ki micr sec  
Mx E 7.7 19  
Mx N 3.2 18  
Mx Z 8.8 18  
Sk iP 01 42 12.2  
Um iP 01 41 53.0 C  
iS 01 52 07  
Ud iP 01 42 14.1 C  
De eP 01 42 22  
Mindoro (h = 70 km).  
M = 5.9 (Up,Ki).

" 27 Up iP 02 39 15.1  
Ki eP 02 39 00  
Um iP 02 39 03.5  
Mindoro.  
Origin time = 02 26 46.

" 27 Up iP 03 51 41.7  
Um iP 03 51 29.8  
Ud iP 03 51 50.0  
Mindoro.  
Origin time = 03 39 12.

" 27 Up i(P) 05 17 45.2

" 27 Up iP2 06 03 44.9  
Ki iP2 06 03 44.6  
Sk eP2 06 04 11  
Um eP1 06 03 42  
iP2 06 03 43.4  
Ud eP1 06 03 51  
iP2 06 03 54.6  
De iP2 06 03 53.1  
Sumatra (h = 55 km).

" 27 Up iP 06 56 58.3  
P Z' 0.1 0.8  
Mx E 1.6 17  
Mx N 1.4 16  
Mx Z 2.6 16  
Ki iP 06 56 42.3  
Mx E 4.1 17  
Mx N 2.0 18  
Mx Z 4.6 18

Sk iP 06 57 05.8  
Um iP 06 56 47.0  
Ud iP 06 57 07.9  
De eP 06 57 14  
Mindoro (h = 55 km).  
M = 5.7 (Up,Ki).

" 27 Up iP 08 07 33.6  
Um iP 08 07 12.8

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

1972				1972			
Apr. 27	Ki	iPn	11 47 44.1	Apr. 27	(cont.)		
		iSn	11 48 33.4		Up		micr sec
		iS*	11 48 48.4		P	Z'	0.1 0.9
	Um	eSg1	11 50 24		Mx	E	1.9 17
		Northwest Russia.			Mx	N	1.9 18
		Origin time = 11 46 39.			Mx	Z	3.0 17
		Explosion.			Ki	iP	19 32 17.6
" 27	Um	i(P)	12 43 03.3				micr sec
" 27	Sk	iSg1	13 14 25.9		P	Z'	0.1 0.9
	Ud	iSg1	13 13 29.7		Mx	E	1.1 15
		Southwest Norway.			Mx	N	0.9 15
		Approximate origin time			Mx	Z	0.7 13
		= 13 11 24.			Sk	iP	19 32 45.9
		By combination with			Um	iP	19 32 26.2
		Kongsberg readings.				iPcP	19 32 40.9
" 27	Up	iP	14 49 48.1		Ud	iP	19 32 52.1
	Ki	iP	14 49 30.8			iPcP	19 33 01.0
	Sk	eP	14 49 55		De	iP	19 33 00.4
	Um	iP	14 49 36.4		Formosa (h = 15 km).		
	Ud	iP	14 49 56.0 D	" 27	Up	iPKP	20 00 35.4
		Mindoro.				iSKP	20 03 23.4
		Origin time = 14 37 18.			Ki	iPKP	20 00 24.7
" 27	Up	iP	15 48 09.6			iSKP	20 03 01.5
	Ki	iP	15 47 51.2		Sk	ePKP	20 00 27
			micr sec			iSKP	20 03 17.6
		Mx	E 0.9 18		Um	i(PKP)	20 00 19.6
		Mx	N 0.7 18			iPKP	20 00 28.4
		Mx	Z 1.0 18			iSKP	20 03 12.6
	Um	iP	15 47 56.7		Ud	iPKP	20 00 36.8
	Ud	iP	15 48 16.4			iSKP	20 03 25.4
		Mindoro.			De	iPKP	20 00 47.7
		Origin time = 15 35 38.				iSKP	20 03 33.5
" 27	Up	iP	15 54 47.5	" 27	Ki	iPg1	22 04 29.2
	Ki	iP	15 54 30.4			iSg1	22 04 57.3
	Um	iP	15 54 35.3		Um	iSg1	22 06 40.3
	Ud	iP	15 54 56.5	" 27	Um	i(P)	22 23 13.5
		Mindoro.			Ud	iP	22 23 21.3
		Origin time = 15 42 17.			Formosa.		
" 27	Up	iP	16 09 58.1	" 27	Up	iP	22 58 02.9
		Mindoro (h = 50 km).			Ki	iP	22 57 45.9
" 27	Ki	iSg1	16 22 01.7		Sk	iP	22 58 08.3
	Sk	iSg1	16 22 06.1		Um	iP	22 57 51.3
	Um	iSg1	16 22 29.1		Ud	iP	22 58 11.7
		Nordland, Norway,			Midoro (h = 50 km).		
		66.5°N, 13.9°E.		" 28	Up	iP	01 02 06.2
		Origin time = 16 20 32.					micr sec
		Explosion.			P	Z'	0.1 1.0
" 27	Up	iP	19 32 42.3 C		Ki	iP	01 02 03.2
		(cont.)			(cont.)		



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

1972

Apr. 28 (cont.)  
 Sk iP 01 02 25.9  
 Um iP 01 02 00.3  
 Ud iP 01 02 20.5  
 De iP 01 02 20.5  
 Tibet (h = N).  
 " 28 Ki iP 02 13 02.8  
 Um iP 02 12 35.4  
 Ud iP 02 12 40.9  
 Iran.  
 Origin time = 02 04 56.  
 " 28 Up iP 05 12 18.1  
 " 28 Um iP 06 07 03.8  
 " 28 Up iP 11 41 21.4 C  
 ipP 11 41 28.6  
 micr sec  
 pP Z' 0.1 0.9  
 Mx E 0.8 20  
 Mx N 0.9 21  
 Mx Z 1.3 19  
 Ki iP 11 41 18.7  
 ipP 11 41 26.1  
 micr sec  
 pP Z' 0.2 1.1  
 Mx E 0.8 18  
 Mx N 1.4 23  
 Mx Z 0.8 18  
 Sk iP 11 41 37.7  
 ipP 11 41 45.8  
 Um iP 11 41 15.9 C  
 ipP 11 41 23.0  
 Ud iP 11 41 33.9 C  
 ipP 11 41 41.7  
 De iP 11 41 33.6  
 ipP 11 41 41.6  
 Burma.  
 h = 30 km (Up, Ki, Sk, Um, Ud,  
 De).  
 M = 5.2 (Up, Ki).  
 " 28 Um i(P) 12 06 37.8  
 " 28 Sk eSg1 15 33 13  
 Ud iSn 15 31 54.9  
 iSg1 15 32 12.8  
 Southwest Norway,  
 58.4° N, 6.4° E.  
 Origin time = 15 30 04.  
 By combination with  
 Kongsberg and Bergen  
 readings.

1972

Apr. 28 Up iP 19 14 43.7  
 Ki iP 19 13 46.5  
 Sk eP 19 14 14  
 Um iP 19 14 16.3  
 De iP 19 15 04.9  
 Alaska (h = 130 km).  
 " 28 Um iP 21 18 50.7  
 " 28 Up iP 23 46 19  
 iPKP 23 50 06.1  
 iPP 23 51 18  
 iSKS 23 56 18.0  
 iPKKP 00 00 37.9  
 i 00 00 45.0  
 micr sec  
 PKP Z' 0.1 0.9  
 PP Z' 0.1 1.0  
 PKKP Z' 0.4 1.3  
 Mx E 6.8 22  
 Mx N 9.9 22  
 Mx Z 16 21  
 Ki iP 23 45 56.8  
 iPKP 23 49 53.2  
 iPP 23 50 37.2  
 iSKS 23 55 56  
 iPKKP 00 00 59.5  
 i 00 01 11.5  
 micr sec  
 PKP Z' 0.1 0.9  
 PP Z' 0.1 1.1  
 PKKP Z' 0.2 1.4  
 Mx E 8.5 20  
 Mx N 8.7 19  
 Mx Z 9.0 20  
 Sk iP 23 46 22.9  
 iPKP 23 50 05.4  
 iPKKP 00 00 42.1  
 i 00 00 48.2  
 Um iP 23 46 06  
 iPKP 23 49 59.2  
 iPP 23 50 54.2  
 iSKS 23 56 07  
 iPKKP 00 00 50.7  
 i 00 01 00.4  
 Ud iP 23 46 28.9  
 i 23 46 38.5  
 iPKP 23 50 09.0  
 iPP 23 51 31.0  
 iPKKP 00 00 34.3  
 i 00 00 38.9  
 De iP 23 46 40.0  
 iPKP 23 50 13.3  
 iPP 23 51 47.0  
 iPKKP 00 00 26.5  
 i 00 00 40.4  
 (cont.)

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

1972				1972			
Apr. 28	(cont.)			Apr. 29	Ki	iPn	11 08 36.0
	Solomon Islands					iSn	11 09 35.2
	(h = 410 km).					iSg1	11 09 59.0
	m = 6.0, M = 6.6 (Up,Ki).				Sk	eSg1	11 12 20
	M uncorrected for focal				Um	iSn	11 10 15.0
	depth.					iSg1	11 10 48.8
	Double PKKP-phases are				Ud	iSg1	11 13 20.3
	recorded at Up,Ki,Sk,Um,				Northwest Russia,		
	Ud,De.				67.7°N, 34.1°E.		
					Origin time = 11 07 17.		
"	29	Up	iP 04 27 41.2				
		Ki	eP 04 27 27				
		Um	iP 04 27 29.4	"	29	Ki	iPn 11 12 01.8
		Ud	iP 04 27 49.7				iPg1 11 12 10.4
		Mindoro.					iSn 11 12 48.5
		Origin time = 04 15 11.					iSg1 11 13 03.5
						Um	iSg1 11 14 36.6
"	29	Up	iP 05 07 10.6 C			Northwest Russia-Norway	
		ipP	05 07 19.8			border region,	
			micr sec			69.6°N, 30.2°E.	
		P	Z' 0.1 0.9			Origin time = 11 11 00.	
		Ki	iP 05 06 53.4			Explosion.	
		Sk	iP 05 07 16.4	"	29	Ki	i(Sn) 12 26 59.1
		Um	iP 05 06 58.7 C				i(Sg1) 12 27 22.1
		ipP	05 07 09.2			Um	i(Sg1) 12 28 23.7
		Ud	iP 05 07 19.4 C			Probably northwest Russia.	
		ipP	05 07 29.1			Explosion.	
		Mindoro.		"	29	Up	eSg1 13 00 53
		h = 35 km (Up,Um,Ud).				Um	eSg1 13 01 14
		Origin time = 04 54 41.				Ud	eSg1 13 01 57
"	29	Um	iSg1 05 40 15.6			De	eSg1 13 02 24
		Lake Ladoga.				Probably Esthonia.	
		Explosion.				Explosion.	
"	29	Ki	iP 06 06 14.8	"	29	Up	iSg1 13 20 11.6
"	29	Um	iP 06 58 26.7			Ki	eSg1 13 22 12
"	29	Up	iP 08 28 26.7			Sk	eSg1 13 22 01
		ipP	08 28 40.7			Um	iSg1 13 20 30.8
		Sk	iP 08 28 28.7			Ud	iSg1 13 21 15.9
		Ud	iP 08 28 35.0			De	iSg1 13 21 41.8
		ipP	08 28 47.6			Probably Esthonia.	
		De	eP 08 28 48			Explosion.	
		ipP	08 29 01.3	"	29	Ud	iP 14 37 22.0
		Japan.		"	29	Um	i(P) 15 58 28.9
		h = 50 km (Up,Ud,De).				Ud	iP 15 58 20.4
"	29	Ki	iPn 10 03 13.0			Iran.	
		iSn	10 04 01.7	"	29	Up	iP 16 11 50.3 C
		iSg1	10 04 17.8			i	16 11 52.1
		Um	iSg1 10 05 44.3			Ki	iP 16 12 27.0
		Northwest Russia-Norway				i	16 12 28.9
		border region,				Sk	eP 16 12 25
		69.4°N, 31.2°E.				(cont.)	
		Origin time = 10 02 09.					
		Explosion.					

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

1972				1972			
Apr. 29	(cont.)			Apr. 30	(cont.)		
	Um	iP	16 12 03.9		X and Y mark corresponding		
		i	16 12 05.8		phases at the different		
	Ud	iP	16 12 05.3 C		stations: X-P = 7.2 sec,		
		i	16 12 07.6		Y-P = 14.9 sec.		
	De	iP	16 11 49.8				
	Iran (h = N).			"	30	Ud	iP 07 23 29.5
	Double P, in average 2.0					Tadzhik SSR.	
	sec apart.						
"	29	Um	iP 16 37 00.0	"	30	Ud	iP 10 39 09.9
						De	eP 10 38 37
						Crete (h = 80 km).	
"	29	Up	iP 18 35 01.9	"	30	Up	iP 12 30 44.5
			micr sec			De	iP 12 31 01.6
		P	Z' 0.1 0.8	"	30	Up	iP 15 28 02.3
	Ki	iP	18 36 10.1 C			i	15 28 03.7
			micr sec	"	30		micr sec
		P	Z' 0.1 0.5			P	Z' 0.2 0.7
	Mx	E	0.4 12			Mx	E 3.8 20
	Mx	N	1.1 13			Mx	N 4.4 22
	Mx	Z	0.9 13			Mx	Z 7.7 19
	Sk	iP	18 35 40.9 C		Ki	iP	15 27 45.4
	Um	iP	18 35 34.9 C			i	15 27 46.6
	Ud	iP	18 35 09.3 C				micr sec
	De	iP	18 34 36.3 C			P	Z' 0.1 1.0
	Crete (h = 45 km).					Mx	E 11 19
	m = 5.8 (Up,Ki).					Mx	N 4.8 17
"	29	Up	iPKP 23 25 18.7			Mx	Z 11 19
	Ki	ePKP	23 25 08		Sk	iP	15 28 08.5
	Um	iPKP	23 25 12.2			i	15 28 09.1
	Ud	ePKP	23 25 23		Um	iP	15 27 50.1 D
		iPKKP	23 35 36.5			i	15 27 51.4
	De	iPKP	23 25 26.6			i	15 28 21.1
	Solomon Islands (h = 55 km).					iS	15 38 00
"	30	Up	iP 00 25 58.6 C		Ud	iP	15 28 11.1
		iY	00 26 14.7			i	15 28 12.3
			micr sec		De	iP	15 28 16.5
		P	Z' 0.2 1.3			i	15 28 17.9
	Ki	iP	00 25 41.5 C			Mindoro (h = 55 km).	
		iY	00 25 56.0			m = 6.1, M = 6.2 (Up,Ki).	
			micr sec			Double P, about 1.2 sec	
		P	Z' 0.2 1.0			apart.	
	Sk	iP	00 26 04.4 C	"	30	Up	iP 16 19 35.9
		iY	00 26 18.6				micr sec
	Um	iP	00 25 46.9 C			P	Z' 0.1 0.9
		iX	00 25 53.9		Ki	iP	16 19 18.3
		iY	00 26 01.4				micr sec
	Ud	iP	00 26 07.3 C			P	Z' 0.1 1.1
		iX	00 26 14.7		Sk	iP	16 19 41.4
		iY	00 26 22.4		Um	iP	16 19 24.4
	De	eP	00 26 16		Ud	iP	16 19 45.0
	Mindoro (h = N).				Mindoro (h = 70 km).		
	m = 6.2 (Up,Ki).				m = 5.8 (Up,Ki).		
	(cont.)						

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

M A Y 1 - 31, 1972

1972				1972			
May	1	Ki	iP	01 14 03.6	May	1	(cont.)
			i	01 14 24.3			Ud iPKP 10 54 14.5
		Um	iP	01 14 17.0			De iPKP 10 54 22.8
		Ud	iP	01 14 42.1			South of Kermadec Islands
			i	01 15 00.4			(h = N).
"	1	Up	i(P)	02 40 28.6	"	1	Um iP 11 04 15.0
		Um	i(P)	02 39 54.0			Ud iP 11 04 11.3
			i	02 40 05.2			
		Ud	i(P)	02 40 05.7	"	1	Up iP 14 41 43.2
"	1	Up	iSgl	03 37 31.5			Ud eP 14 41 51
		Ki	iPn	03 33 17.5	"	1	Up iP 17 35 27.8
			iSn	03 34 14.3			ipP 17 35 38.4
			iSgl	03 34 37.2			micr sec
		Sk	eSgl	03 37 01			pP z' 0.1 1.0
		Um	iSgl	03 35 31.2			Ki iP 17 34 54.5
		Ud	iSgl	03 38 03.4			ipP 17 35 04.0
		Northwest USSR,					Sk eP 17 35 23
		67.9°N, 33.6°E.					ipP 17 35 33.5
		Origin time = 03 32 02.					Um iP 17 35 09.1
		Explosion.					ipP 17 35 19.8
"	1	Up	iPKP	03 53 28.4			Ud iP 17 35 34.5
		Ki	iPKP	03 53 14.4			ipP 17 35 44.7
		Sk	iPKP	03 53 25.3			De iP 17 35 46.9
		Um	iPKP	03 53 20.6			ipP 17 35 58.3
		Ud	iPKP	03 53 31.0			Bonin Islands.
		De	iPKP	03 53 37.4			h = 40 km (Up,Ki,Sk,Um,Ud,
		New Hebrides Islands					De).
		(h = 130 km).					
"	1	Up	iPKP	10 54 13.2	"	1	Up iP 18 35 51.2
			i(pPKP)	10 54 23.0			Ki eP 18 35 41
			micr sec				Um iP 18 35 40.0
			(pPKP) z'	0.1 1.0			Ud iP 18 35 59.5
		Ki	ePKP	10 53 54			Mindoro (h = 60 km).
		Sk	iPKP	10 54 07.8 D	"	1	Up iP 19 16 23.2
		Um	i(PKP)	10 54 02.4			Ki iP 19 16 23.6
			iPKP	10 54 03.3			Um iP 19 16 20.8
		(cont.)					Ud iP 19 16 33.8
							(cont.)

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

1972				1972			
May	1	(cont.)		May	2	(cont.)	
		De iP	19 16 31.6			De iP	03 23 10.0
		Sumatra.				Mindanao (h = 390 km).	
"	1	Up iP	19 20 22.9	"	2	Up iP	03 33 04.0
		Ki iP	19 20 07.3			Ki eP	03 33 13
		Sk eP	19 20 28			Um iP	03 33 01.8
		Um iP	19 20 12.6			Ud eP	03 33 21
		Ud iP	19 20 31.4			Hindu Kush.	
		Talau Islands (h = 140 km).				Intermediate depth.	
"	1	Up iP	19 58 54.7 C	"	2	Ud iP	05 01 36.7
		iPP	20 02 26.6				
		Ki iP	19 58 53.5 C	"	2	Um i(P)	06 14 51.4
		ePP	20 02 28				
		Sk iP	19 59 08.3	"	2	Up iP	07 10 01.2
		Um iP	19 58 51.4 C				micr sec
		iPP	20 02 31.0			P	Z' 0.2 1.4
		Ud iP	19 59 03.7 C			Mx	E 2.6 22
		iPP	20 02 50.4			Mx	N 2.0 22
		De iP	19 59 03.6			Mx	Z 4.5 22
		Sumatra (h = 90 km).				Ki iP	07 09 48.5
"	1	Up eP	20 13 09			iPP	07 13 39.1
		Ki eP	20 12 47			iPS	07 22 33
		Um eP	20 13 00				micr sec
		i	20 13 13.5			P	Z' 0.2 1.5
		Ud eP	20 13 17			Mx	E 4.9 24
		De iP	20 13 24.7			Mx	N 4.2 24
		Formosa (h = 20 km).				Mx	Z 5.7 24
"	2	Up eP	00 25 42			Sk iP	07 09 44.5
		Ki iP	00 24 45.1			iPP	07 13 34.8
		Um iP	00 25 07.0			Um iP	07 09 57.3
"	2	Up iP	01 01 38.3			iPP	07 13 59.6
		iS	01 04 21.2			Ud iP	07 09 52.3
		Ki iP	01 00 04.9			iPP	07 13 48.8
		iTSg	01 05 20.0			De iP	07 10 00.5
		Sk iP	01 00 41.5			Pacific Ocean (h = N).	
		iS	01 02 24.5			m = 6.6, M = 5.9 (Up,Ki).	
		Um iP	01 00 52.0	"	2	Um iSgl	12 27 08.0
		iS	01 02 42.3			De iSgl	12 28 25.1
		iTSg	01 07 23.0			Western USSR.	
		Ud iP	01 01 28.8			Explosion.	
		De iP	01 02 21.2	"	2	Sk eSgl	12 48 05
		Norwegian Sea (h = N).				Um iSgl	12 49 20.2
"	2	Up iP	03 22 56.3			De iSgl	12 47 42.5
		iPP	03 26 47.1			South Norway.	
		Ki iP	03 22 41.2			By combination with	
			micr sec			Kongsberg readings.	
		P	Z' 0.1 0.9	"	2	Ud i(P)	14 29 22.1
		Sk eP	03 23 02			De i(P)	14 28 32.5
		Um iP	03 22 46.3	"	2	Up iP	15 51 37.0
		Ud iP	03 23 05.3			Ki eP	15 51 20
		(cont.)				(cont.)	

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

1972				1972			
May	2	(cont.)		May	3	(cont.)	
		Um	iP 15 51 26.4			Um	ePKP 02 26 32
		Ud	iP 15 51 44.7			New Hebrides Islands	
		Talaud Islands (h = 10 km).				(h = 25 km).	
"	2	Up	iP 17 05 43.1	"	3	Up	iP 04 12 01.1
		Ki	iP 17 06 20.6			Ki	eP 04 12 09
		Sk	iP 17 06 18.1			Um	iP 04 11 58.2
		Um	iP 17 05 56.9			Ud	iP 04 12 16.7
		Ud	iP 17 05 58.1			Hindu Kush.	
		Iran.				Intermediate depth.	
		Origin time = 16 58 15.					
"	2	Um	iP 17 26 14.1	"	3	Up	iP 05 00 02.0 C
		Ud	iP 17 26 32.6				micr sec
		Hindu Kush.					Z' 0.1 0.8
		Intermediate depth.				Ki	iP 04 59 09.0
							micr sec
"	2	Up	iPn 18 44 15.7				Z' 0.1 0.7
			i(P*) 18 44 23.0			Sk	eP 04 59 37
			iSn 18 45 23.6				i 04 59 41.2
			i 18 45 37.8			Um	iP 04 59 34.7
			iSgl 18 45 58.8			Ud	iP 05 00 02.7
		Sk	iSgl 18 46 32.9			De	iP 05 00 24.8
		Um	iSn 18 46 37.8			Aleutian Islands (h = 55 km).	
			iSgl 18 47 36.1			m = 6.0 (Up,Ki).	
		Ud	iPn 18 43 53.1	"	3	Ki	iP 07 42 44.9
			iSn 18 44 44.1			Sk	eP 07 42 49
		De	ePgl 18 43 51			Um	eP 07 42 39
			iSn 18 44 24.7	"	3	Sk	eSgl 08 03 54
			iSgl 18 44 39.5			Um	iSgl 08 02 00.5
		Off coast of south Norway,				Eastern Finland.	
		56.9°N, 7.4°E.				Explosion?	
		Origin time = 18 42 47.					
"	2	Up	iP 19 26 48.7	"	3	Sk	iP 09 50 41.9
		Ki	iP 19 26 14.1			Ud	iP 09 50 11.3
		Sk	iP 19 26 22.2			Dodecanese Islands.	
		Um	iP 19 26 33.7	"	3	Um	e(P) 11 55 08
		Ud	iP 19 26 40.4	"	3	Ud	i(P) 12 05 19.9
		De	eP 19 26 59	"	3	Up	iP 12 05 59.5
		Nevada (h = 20 km).				Ki	iP 12 06 34.8
"	2	Um	iP 19 56 21.0			Sk	eP 12 06 31
		Ud	iP 19 56 52.3			Um	iP 12 06 05.7
"	2	Ki	i(P) 20 16 12.0				i(PP) 12 07 48.3
"	2	Ki	e(P) 21 45 02			Ud	iP 12 06 21.1
"	3	Up	iP 00 41 30.6	"	3	Ud	iPgl 12 17 45.5
		Sk	eP 00 41 02				iSgl 12 18 18.8
		Um	iP 00 41 12.4			De	iPgl 12 17 34.1
		Ud	iP 00 41 21.4				eSgl 12 17 57
		California (h = N).				Southern Sweden.	
"	3	Ki	iPKP 02 26 25.1			Origin time = 12 17 02.	
		(cont.)					

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

1972					1972				
May	3	Up	iP	12 33 24.9	May	4	(cont.)		
		Ud	iP	12 33 35.5			Ki	ipP	04 25 35.8
"	3	Ki	iP	13 20 46.5			Mx	E	0.8 18
		Ud	iP	13 21 11.5			Mx	N	0.6 18
		Talaud Islands (h = 90 km).					Mx	Z	0.8 18
"	3	De	i(P)	13 31 27.7			Sk	iP	04 25 39.5
								ipP	04 25 52.3
"	3	De	i(P)	13 32 57.2				ePP	04 30 06
			i	13 33 44.7			Um	iP	04 25 23.7
"	3	Ki	iP	15 12 36.6				ipP	04 25 36.1
"	3	Ud	i(P)	18 03 56.1			Ud	iP	04 25 37.9
								ipP	04 25 50.4
"	3	Up	iPKP	19 07 40.5			De	iP	04 29 56.9
		Santa Cruz Islands (h = 30 km).							04 25 38.4
"	3	Ud	iP	21 05 42.5			South of Java. h = 45 km (Up,Ki,Sk,Um,Ud).		
"	3	Um	iP	22 00 45.2	"	4	Up	iP	05 06 50.4
		Ud	eP	22 00 49				ipP	05 07 04.9
		Iran.					Ki	iP	05 07 27.9
"	4	Up	iP	03 35 36.2			Sk	eP	05 07 24
		Ud	iP	03 35 45.6			Um	iP	05 07 03.9
"	4	Up	iP	04 02 12.1			Ud	iP	05 07 05.4
		ipP		04 02 27.7			Iran. h = 55 km (Up).		
							Up	iP	06 39 13.0
		P	Z'	0.1 1.0				i	06 39 53.8
		pP	Z'	0.2 1.0			Ki	iP	06 38 59.4
		Mx	E	1.2 25					
		Mx	N	1.0 22					
		Mx	Z	1.4 25				P	Z' 0.1 1.5
		Ki	iP	04 01 35.2			Sk	iP	06 38 52.3
		ipP		04 01 51.1			Um	iP	06 39 08.2
								i	06 39 50.3
		pP	Z'	0.2 1.1			Ud	iP	06 39 01.3
		Mx	E	1.4 17			Mexico (h = 120 km). The second arrival at Up, Um interpreted as pP gives a focal depth of 160 km.		
		Mx	N	1.1 17			Up	iP	08 04 10
		Mx	Z	1.2 16				i(PKP)	08 07 10.3
		Sk	iP	04 02 07.2				iPKP	08 07 23.4
		Um	iP	04 01 50.8				ipPKP	08 07 37.8
			ipP	04 02 05.6				ipp	08 09 39.6
			iS	04 11 13				iSKP	08 10 47.0
		Ud	iP	04 02 19.2					
		De	iP	04 02 32.9					
			ipP	04 02 48.3					
		Japan. h = 60 km (Up,Ki,Um,De). m = 6.0, M = 5.3 (Up,Ki).			"	4	Up	iP	08 04 10
"	4	Up	iP	04 25 29.1				i(PKP)	08 07 10.3
			ipP	04 25 41.9				iPKP	08 07 23.4
		Ki	iP	04 25 23.0				ipPKP	08 07 37.8
		(cont.)						ipp	08 09 39.6
								iSKP	08 10 47.0
								PKP	Z' 0.4 1.1
								SKP	Z' 1.5 1.3
								Mx	E 12 25
								Mx	N 28 25
								Mx	Z 50 26
							Ki	eP	08 03 39
								iPKP	08 07 10.5
								ipPKP	08 07 24.2
							(cont.)		

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

1972				1972			
May	4	(cont.)		May	4	(cont.)	
		Ki	micr sec			De	iPn 13 16 57.7
		PKP	Z' 0.8 1.1				iSgl 13 17 44.6
		Mx	E 30 24			Off coast of Södermanland, Sweden, 58.8°N, 17.7°E.	
		Mx	N 23 22			Origin time = 13 16 09.	
		Mx	Z 31 23			Explosion.	
		Sk	i(PKP) 08 07 04.4			Up	iPgl 13 30 24.3
			iPKP 08 07 21.5				iSgl 13 30 39.6
			ipPKP 08 07 35.1				iRg 13 30 46.6
			iSKP 08 10 41.5			Sk	eSgl 13 32 56
		Um	iP 08 03 58			Um	iS* 13 32 40.9
			i(PKP) 08 07 09.9				iSgl 13 32 45.0
			iPKP 08 07 16.9			Ud	iSgl 13 31 24.2
			ipPKP 08 07 30.5			De	ePn 13 30 54
			iPP 08 09 16				iSgl 13 31 42.0
			iSKP 08 10 33			Off coast of Södermanland, Sweden, 58.8°N, 17.7°E.	
		Ud	i(PKP) 08 07 09.1			Origin time = 13 30 05.	
			i(PKP) 08 07 14.6			Explosion.	
			iPKP 08 07 25.9			Up	iSgl 13 31 01.8
			ipPKP 08 07 39.3				iRg 13 31 09.3
			iPP 08 09 51.1			Sk	eSgl 13 33 19
			iSKP 08 10 53.1			Um	iS* 13 33 04.4
		De	i(PKP) 08 07 20.9				iSgl 13 33 08.5
			iPKP 08 07 32.3			Ud	iSgl 13 31 46.8
			ipPKP 08 07 47.9			De	iPn 13 31 16.6
			iSKP 08 11 01.3				iSgl 13 32 03.8
		New Hebrides Islands.				Off coast of Södermanland, Sweden, 58.8°N, 17.7°E.	
		h = 50 km (Up,Ki,Sk,Um,Ud, De).				Origin time = 13 30 28.	
		M = 7.0 (Up,Ki).				Explosion.	
"	4	Um	ipPKP 09 28 56.6			De	i(Pgl) 14 01 56.8
		De	ipPKP 09 29 08.5				i(Sgl) 14 02 47.8
		Tonga Islands (h = 20 km).				"	4
"	4	Up	iP 10 30 44.9			Um	iP 15 20 09.0
"	4	Up	iPgl 13 16 02.7			Ud	iP 15 20 10.0
			iSgl 13 16 17.9			Iran.	
			iRg 13 16 25.8			Origin time = 15 12 27.	
		Sk	eSgl 13 18 34			"	4
		Um	iS* 13 18 19.3			Ud	iP 15 40 03.3
		Ud	iSgl 13 17 02.3			"	4
		De	iPn 13 16 32.9			Up	ipP 17 51 09.5
			eSgl 13 17 20			Ki	eP 17 50 13
		Off coast of Södermanland, Sweden, 58.8°N, 17.7°E.				Sk	iP 17 50 47.3
		Origin time = 13 15 44.					ipP 17 51 05.4
		Explosion.				Um	iP 17 50 31.8
"	4	Up	iSgl 13 16 42.9			Ud	iP 17 51 03.5
			iRg 13 16 50.6			Japan.	
		Sk	ePn 13 17 30			h = 70 km (Sk).	
			eSgl 13 19 00			"	4
		Um	iS* 13 18 44.6			Sk	iP 18 49 18.1
			iSgl 13 18 49.6			Um	iP 18 49 07.8
		Ud	iSgl 13 17 27.1				i 18 49 16.4
		(cont.)				Ud	iP 18 49 20.4



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

1972				1972			
May	4	Up	iSgl	19 03 54.5	May	5	(cont.)
		De	ePgl	19 01 40			Ud i 10 28 15.4
			iSgl	19 02 18.0			De iP 10 28 16.5 C
"	4	Up	iP	21 45 20.8 C			Formosa (h = 55 km). m = 5.9, M = 5.7 (Up,Ki).
			ipP	21 45 35.0	"	5	De i(P) 10 52 23.7
			iPP	21 45 46.4	"	5	Ki iPKP 19 57 36.4
			iS	21 49 38			South Sandwich Islands (h = N).
				micr sec	"	5	Ki i(P) 22 15 37.3
		P	Z'	14 2.4	"	5	Up iPP 23 36 09.5
		Mx	E	71 22			iPKKP 23 45 45.3
		Mx	N	86 22			micr sec
		Mx	Z	100 20			PP Z' 1.1 2.1
		Ki	iP	21 46 30.1 C			Mx E 6.7 23
			iS	21 51 38			Mx N 15 24
				micr sec			Mx Z 16 20
		P	Z'	2.5 1.9			Ki iP 23 30 58
		Mx	E	90 19			iPKP 23 34 55.4
		Mx	N	65 16			iPP 23 35 29
		Mx	Z	70 17			ePKKP 23 46 04
		Sk	iP	21 45 59.5 C			micr sec
			iS	21 50 46.6			Mx E 9.7 19
		Um	iP	21 45 54.1 C			Mx N 26 27
			iS	21 50 37			Mx Z 11 23
		Ud	iP	21 45 27.7 C			Um iPKP 23 35 00.8
			iS	21 49 51.0			iPKKP 23 46 08.4
		De	iP	21 44 54.2 C			Ud ePKP 23 35 09
			iS	21 48 54.1			iPP 23 36 18.4
							iPKKP 23 45 46.8
		Crete.					De iPKP 23 35 13.9
		h = 50 km (Up).					iPKKP 23 45 34.4
		m = 6.9, M = 6.5 (Up,Ki).					New Britain (h = 30 km). M = 6.7 (Up,Ki).
"	4	Um	i(P)	22 18 07.7	"	6	Ki iSKP 03 46 00.7
"	5	Ud	iP	08 45 48.9			Um iSKP 03 46 10.9
		De	iP	08 45 17.7			Ud iSKP 03 46 24.3
		Crete.					De iPKP 03 43 48.7
"	5	De	i(P)	10 14 20.5			Fiji Islands (h = 620 km).
"	5	Up	iP	10 27 58.6 C	"	6	Um iP 04 49 28.1
				micr sec			Japan (h = 80 km).
		P	Z'	0.2 0.9	"	6	Up iSgl 09 38 07.8
		Mx	E	1.6 17			Um iSgl 09 38 31.4
		Mx	N	2.3 21			Ud iSgl 09 39 11.6
		Mx	Z	2.0 14			De iSgl 09 39 34.3
		Ki	iP	10 27 35.7 C			Esthonia.
				micr sec			Explosion.
		P	Z'	0.1 1.0	"	6	Um iSgl 10 35 27.8
		Mx	E	3.1 13			Northwest USSR.
		Mx	N	1.9 16			Explosion.
		Mx	Z	2.0 14			
		Sk	iP	10 28 02.9 C			
		Um	iP	10 27 44.0 C			
			i	10 28 14.3			
		Ud	iP	10 28 08.5 C			
		(cont.)					

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

1972

May 6 Ki iPgl 11 25 02.2  
iSgl 11 25 38.2  
Um iPn 11 25 08.8  
iPgl 11 25 18.2  
iSn 11 25 52.2  
iSgl 11 26 06.1  
Ud iSn 11 27 00.6  
iS\* 11 27 31.7  
iSgl 11 27 37.5

Nordland, Norway,  
66.5°N, 14.7°E.  
Origin time = 11 24 16.  
Explosion.

" 6 Um iP 16 25 09.0  
Ud iP 16 25 21.2  
Hindu Kush.  
Intermediate depth.

" 6 Um iP 17 43 54.5  
Ud eP 17 44 22

" 6 Up iP 18 01 28.6  
Sk eP 18 01 18  
Um iP 18 01 07.3  
Ud iP 18 01 35.0  
Japan (h = 35 km).

" 6 Ki iPn 20 22 45.4  
iPgl 20 22 53.6  
iSn 20 23 31.8  
iSgl 20 23 44.2  
Um iSgl 20 25 21.8  
Northwest USSR-Norway border  
region, 69.7°N, 30.0°E.  
Origin time = 20 21 45.  
Explosion.

" 6 Ud eP 21 53 32

" 6 Up iP 22 15 49.6  
Ki iP 22 15 36.2  
Sk eP 22 16 02  
Um eP 22 15 38  
Ud iP 22 16 01.7  
China (h = 15 km).

" 7 Up e(P) 03 50 26

" 7 Ki iP 06 39 32.4  
Um iP 06 39 56.2

" 7 Up iP 06 43 54.5  
Ki iP 06 43 51.0  
micr sec  
Mx E 0.6 14  
Mx Z 0.6 14

(cont.)

1972

May 7 (cont.)  
Sk iP 06 44 15.0  
Um iP 06 43 46.0  
Ud iP 06 44 10.8  
Sinkiang (h = 30 km).

" 7 Up iP 08 59 26.6  
Um iP 08 59 12.3  
Ud iP 08 59 34.2

" 7 Ki iPn 09 16 24.5  
iSn 09 17 12.4  
iSgl 09 17 28.2  
Um iSgl 09 18 56.8

Northwest USSR-Norway border  
region, 69.5°N, 30.6°E.  
Origin time = 09 15 21.  
Explosion.

" 7 Ud iPKP 13 07 33.2  
De iPKP 13 07 43.5

" 7 Ki iP 14 49 11.9  
Sk iP 14 48 24.5  
Um iP 14 48 24.7  
i 14 48 32.9  
Ud iP 14 47 44.3  
De eP 14 47 05  
Yugoslavia (h = 55 km).

" 7 Um iP 15 05 56.9  
Ud iP 15 06 34.0  
i 15 06 41.8  
Japan (h = 70 km).

" 7 Ud iP 16 26 23.6

" 7 Ud iP 17 03 03.8  
ipP 17 03 10.5  
North Atlantic Ocean.  
h = 25 km (Ud).

" 7 Ki Mx 17 37  
micr sec  
Mx E 0.7 17  
Mx N 0.6 16  
Mx Z 1.3 23  
New Ireland (h = 100 km).

" 7 Um iPKP 17 39 33.0  
New Hebrides Islands  
(h = 30 km).

" 7 Up ePKP2 22 27 27  
micr sec  
Mx E 4.0 19  
Mx N 3.4 19  
Mx Z 7.7 21

(cont.)

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

1972				1972			
May	7	(cont.)		May	8		
		Ki	iPKP2			De	iP
						Greece (h = N).	
			22 27 27.2			09 02 01.8	
			micr sec				
		PKP2	Z' 0.1 1.5	"	8	Sk	iP
		Mx	E 3.0 20			09 17 13.7	
		Mx	N 2.8 20	"	8	Sk	iP
		Mx	Z 2.3 18			09 18 56.7	
		Sk	ePKP			De	iP
		Um	iPKP2			09 18 53.1	
		Ud	ePKP	"	8	Up	iP
			22 26 29			09 25 12.6	
			22 27 31.5			micr sec	
			22 26 28			Mx	E 1.1 12
			22 27 21.4			Mx	N 1.4 10
		De	ePKP			Mx	Z 2.1 10
		South Pacific Ocean				Ki	iP
		(h = N).					09 26 30.7
		M = 6.5 (Up,Ki).					micr sec
"	8	Up	iS			P	Z' 0.1 1.0
			i			Mx	E 1.2 11
		Ki	iP			Mx	N 2.6 .12
			iTSg			Mx	Z 2.7 12
		Sk	iP			Sk	iP
			iS			Um	iP
		Um	iP			Ud	iP
			iS			De	iP
			iTSg			Greece-Bulgaria (h = 10 km).	
		Ud	iP			M = 4.9 (Up,Ki).	
			iS	"	8	Ud	iPKP
		De	iP			i	14 33 59.2
		Norwegian Sea (h = N).				De	ePKP
						14 34 13.0	
						14 34 10	
"	8	Ki	iP			Ki	iPKP
		Ud	eP			Um	ePKP
		Banda Sea (h = N).			8	Ud	ePKP
			00 50 50.6			De	iPKP
			00 51 14			Fiji Islands (h = 70 km).	
"	8	Ud	iP			16 34 29.8	
			03 13 40.8			16 34 33	
"	8	Ud	eP			16 34 40	
			03 49 18			16 34 43.4	
"	8	Up	eP1			Mindoro (h = 55 km).	
			iP2			17 27	
		Ki	iP2			micr sec	
		Um	iP2			Mx	E 1.1 20
		Ud	eP1			Mx	N 2.3 21
			iP2			Mx	Z 3.4 21
			04 33 47			Ki	Mx
			04 33 53.0			17 27	
						micr sec	
						Mx	E 1.1 20
"	8	Up				Mx	N 2.0 21
		Mx	E			Mx	Z 1.9 20
		Mx	N			New Ireland (h = 40 km).	
		Mx	Z			M = 5.8 (Up,Ki).	
			1.3 19	"	8	Up	iP
			micr sec			Ki	iP
		Ki				Um	iP
			1.0 19			Ud	iP
			0.9 18			Sumatra (h = N).	
			1.1 19			17 56 45.6	
		Um	i(P)			17 56 45.1	
		Ud	i(P)			17 56 42.8	
			06 33 11.8			17 56 55.0	
			06 33 25.0	"	8	Up	iPKP
		New Guinea (h = N).				i	18 00 01.6
		M = 5.6 (Up,Ki).				(cont.)	

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

1972				1972			
May	8	(cont.)		May	9	(cont.)	
		Ud	iPKP 17 59 58.3			De	i(PKP) 12 38 40.7
			i 18 00 02.9				iSKP 12 41 33.6
		De	iPKP 18 00 07.4			Fiji Islands (h = 570 km).	
		Tonga-Kermadec Islands (h = 190 km).			"	9	Um eP 12 43 58
"	8	Ud	iP 18 45 48.1	"	9	Up	ePKP 13 28 47
"	8	Ud	iP 19 19 24.0			Ki	iPKP 13 28 31.3
"	8	Ud	iP 19 41 37.8			Sk	iPKP 13 28 41.2
		De	eP 19 41 59			Um	iPKP 13 28 39.0
		Kamchatka (h = 30 km).				Ud	i(PKP) 13 28 36.5
"	8	Ud	iP 20 25 59.4				iPKP 13 28 47.2
		Lake Baikal.				De	i(PKP) 13 28 44.9
"	9	Um	iP 04 04 05.3				iPKP 13 28 53.6
		Bonin Islands (h = N).		"	9	Ud	iP 14 17 26.2
"	9	Up	iPKP 05 22 44.6	"	9	Up	iP 17 45 06.6
			i 05 22 50.4				micr sec
		Ki	ePKP 05 22 22			Mx	E 1.2 11
		Sk	iPKP 05 22 38.8			Mx	N 2.5 12
		Um	iPKP 05 22 33.3			Mx	Z 3.2 11
		Ud	iPKP 05 22 46.3			Ki	eP 17 46 20
			i 05 22 52.9				micr sec
		De	iPKP 05 22 54.7			Mx	E 1.2 10
		Kermadec Islands (h = 370 km).				Mx	N 0.9 11
"	9	Ki	ipP 08 38 48.4			Mx	Z 0.8 10
		Sea of Japan (h = 270 km).				Sk	eP 17 45 50
"	9	Up	i(PKP) 12 38 29.1			Um	iP 17 45 43.6
			iPKP 12 38 39.4				iS 17 50 04
			iSKP 12 41 21.3			Ud	iP 17 45 17.0
			micr sec			De	iP 17 44 47.3
		PKP	Z' 0.1 1.2			Turkey (h = 35 km).	
		SKP	Z' 0.2 1.2			M = 4.8 (Up,Ki).	
		Ki	e(PKP) 12 38 13	"	9	Um	iP 18 56 57.5
			iPKP 12 38 25.0	"	9	Ud	iP 21 54 15.0
			iSKP 12 40 56.2	"	9	Up	iP 23 26 34.7
			micr sec			Ki	eP 23 26 10
		PKP	Z' 0.2 1.3			Sk	eP 23 26 38
		SKP	Z' 0.3 1.5			Ud	iP 23 26 44.3
		Sk	e(PKP) 12 38 24	"	10	Up	micr sec
			iPKP 12 38 35.2			Mx	E 1.1 23
			iSKP 12 41 13.7			Mx	N 0.9 20
		Um	e(PKP) 12 38 20			Mx	Z 1.2 18
			iPKP 12 38 32.2			Ki	micr sec
			i 12 41 01.4			Mx	E 1.5 23
			iSKP 12 41 09.0			Mx	N 0.9 20
		Ud	e(PKP) 12 38 27			Mx	Z 1.2 20
			i(PKP) 12 38 30.6			Um	iPP 06 07 30.4
			iPKP 12 38 41.0			Ud	ePKP 06 07 08
			iSKP 12 41 22.8			New Britain (h = N).	
		(cont.)				M = 5.6 (Up,Ki).	

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

1972				1972			
May 10	Up	iP	12 59 16.3	May 11	(cont.)		
	Ki	iP	12 59 12.0		Um	iP	00 55 31.8 C
	Sk	iP	12 59 32.7			ipP	00 55 50.8
	Um	iP	12 59 09.9			iS	01 04 08
	Ud	iP	12 59 29.8		Ud	iP	00 56 02.7 C
	De	iP	12 59 31.3			ipP	00 56 20.1
			Burma (h = 90 km).		De	iP	00 56 19.6 C
" 10	Ki	iP	14 03 05.2			ipP	00 56 38.2
	Um	iP	14 02 42.2		Japan.		
	Ud	iP	14 02 38.5		h = 70 km (Up,Ki,Sk,Um,Ud,		
		i	14 02 43.4		De).		
			Iran.		m = 6.0, M = 5.7 (Up,Ki).		
			Origin time = 14 55 00.	" 11	Up	iP	03 11 57.7 C
" 10	Ki	eP	17 22 25		Sk	eP	03 12 38
	Um	iP	17 22 43.0		Um	eP	03 12 40
			Sea of Japan (h = 250 km).		Ud	iP	03 12 04.8
" 10	Ud	iP	17 43 42.3		De	eP	03 11 37
			Ecuador (h = 90 km).				Greece (h = 130 km).
" 10	Um	iP	18 30 11.8	" 11	Up	ePKP	04 07 57
	Ud	iP	18 30 31.4			iSKP	04 11 18.3
			Hindu Kush.			i	04 11 43.7
			Intermediate depth.		Ki	iPKP	04 07 42.1
" 10	Up	iPP	22 20 41.3			ipPKP	04 07 58.8
	Ki	iP	22 16 25.3		Sk	epPKP	04 08 11
	Um	iP	22 16 29.1		Um	iPKP	04 07 48.7
		iPP	22 20 25.3			ipPKP	04 08 05.4
	Ud	iP	22 16 47.8		Ud	iPKP	04 07 59.4
			Celebes (h = 60 km).			ipPKP	04 08 15.2
" 10	Up	i(P)	23 33 34.7				New Hebrides Islands.
" 10	Up	eP	23 33 55				h = 60 km (Ki,Um,Ud).
			Kurile Islands (h = 100 km).	" 11	Up	iP1	04 42 06.2
" 11	Up	iP	00 55 56.3 C			iP2	04 42 09.7
		ipP	00 56 14.7		Sk	iP1	04 42 47.3
		iS	01 04 52			iP2	04 42 50.4
			micr sec		Um	i(P2)	04 42 48.0
	P	Z'	0.3 0.9		Ud	iP1	04 42 14.0
	Mx	E	1.8 23			iP2	04 42 17.1
	Mx	N	2.1 20		De	eP1	04 41 40
	Mx	Z	3.1 19			iP2	04 41 42.6
Ki	iP		00 55 12.0 C				Aegean Sea.
	ipP		00 55 29.8				Double P, in average 3.2
	iS		01 03 30				sec apart.
			micr sec	" 11	Up	iP	05 36 16.6
	P	Z'	0.1 1.0		Um	iP	05 36 05.2
	Mx	E	4.0 23		Ud	eP	05 36 26
	Mx	N	2.3 18	" 11	Up	iSn	12 18 36.8
	Mx	Z	4.2 21			iSgl	12 18 48.6
Sk	iP		00 55 46.9 C		Ki	eSgl	12 21 18
	ipP		00 56 06.4		Sk	eSgl	12 20 35
(cont.)					Um	iSgl	12 19 23.9
					Ud	iSn	12 19 26.6
						iSgl	12 19 51.8
				(cont.)			

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

1972

May 11 (cont.)  
De iSgl 12 20 19.9  
Esthonia, 59.6°N, 24.4°E.  
Origin time = 12 17 00.  
Explosion.

" 11 Um iPKP 15 27 14.5  
Ud iPKP 15 27 26.7

" 11 Up e(pP) 19 21 06  
micr sec  
Mx E 0.5 14  
Mx Z 0.6 14  
Ki ipP 19 20 40.3  
micr sec  
Mx E 0.4 11  
Um iP 19 20 33.8  
ipP 19 20 47.1  
Ud iP 19 20 59.8  
ipP 19 21 13.2  
Luzon-Formosa.  
h = 50 km (Um,Ud).  
M = 5.2 (Up,Ki).

" 11 Up iPKP 21 37 22.4  
i 21 37 24.2  
ipPKP 21 38 52.2  
iSKKP 21 48 12.7  
micr sec  
PKP Z' 0.8 1.0  
Ki i(PKP) 21 37 00.1  
iPKP 21 37 08.8  
iSKP 21 40 09.7  
micr sec  
PKP Z' 0.1 1.0  
SKP Z' 0.4 2.0  
Sk iPKP 21 37 15.9  
Um iPKP 21 37 10.9  
i 21 37 18.9  
iSKP 21 40 19.9  
iSKKP 21 48 40.1  
Ud iPKP 21 37 23.2  
i 21 37 26.0  
i 21 37 28.5  
De iPKP 21 37 29.2  
i 21 37 35.0

Kermadec Islands.  
h = 380 km (Up).

" 12 Up iP1 01 33 09.2  
iP2 01 33 17.2  
iP3 01 33 24.6  
iP4 01 33 31.0  
iS 01 42 38  
micr sec  
P2 Z' 0.1 0.9  
P4 Z' 0.2 1.0  
(cont.)

1972

May 12 (cont.)  
Up micr sec  
Mx E 2.7 20  
Mx N 3.2 20  
Mx Z 6.2 20

Ki iP1 01 32 44.6  
iP4 01 33 05.0  
iS 01 42 02

micr sec  
P4 Z' 0.2 1.2  
Mx E 1.6 17  
Mx N 1.5 18  
Mx Z 2.1 17

Sk iP1 01 33 13.5  
iP4 01 33 35.0  
Um iP1 01 32 53.8  
iP2 01 33 01.1  
iP3 01 33 08.8  
iP4 01 33 15.7  
iS 01 42 15

Ud iP1 01 33 17.9  
iP2 01 33 27.1  
iP3 01 33 34.6  
iP4 01 33 40.4

De eP1 01 33 31  
Formosa (h = 60 km).  
m = 6.0, M = 5.7 (Up,Ki).  
P1, P2, P3 and P4 denote  
multiple P; in average:  
P2-P1 = 8.2 sec, P3-P1 =  
15.8 sec and P4-P1 = 21.7  
sec. P3 could be interpreted  
as pP for a focal depth of  
60 km.

" 12 Ud iP 02 30 32.5

" 12 Ki iP 03 09 23.3

" 12 Up iP 03 14 19.9

Um iP 03 14 12.2

Ud iP 03 14 33.3

" 12 Ki iP 04 51 28.6

Hindu Kush.  
Intermediate depth.

" 12 Ki iP 07 01 28.9

Ud eP 07 02 27

Alaska (h = N).

" 12 Ud iP 07 46 56.9

" 12 Ud iP 08 04 37.2

" 12 De e(P) 10 59 37

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

1972				1972			
May 12	Sk	eSgl	12 03 34	May 13	Um	iP	09 10 04.6
	Um	iSgl	12 02 02.6				
	Ud	iSgl	12 02 45.6	" 13	Up	iPKP	09 43 19.2
	Western USSR.					i	09 43 25.5
	Explosion.						micr sec
" 12	Ki	iPn	12 02 03.4		PKP	Z'	0.1 0.8
		iSn	12 03 02.3	Ki	iPKP		09 42 59.0
		iS*	12 03 21.6		i		09 43 04.5
	Sk	iSgl	12 05 50.4	Sk	iPKP		09 43 13.5
	Um	i	12 03 57.2	Um	iPKP		09 43 08.5
		iS*	12 04 11.6		i		09 43 15.6
		iSgl	12 04 16.9	Ud	iPKP		09 43 21.3
	Ud	eSgl	12 06 48		i		09 43 29.0
	Northwest USSR,			De	iPKP		09 43 29.2
	67.8°N, 34.1°E.			South of Kermadec Islands			
	Origin time = 12 00 45.			(h = 40 km).			
	Explosion.			" 13	Ud	iP	10 33 35.7
" 12	Ud	iP	12 57 14.4	" 13	Ki	eSgl	12 24 28
" 12	Up	iPKP	14 41 12.5		Um	iSgl	12 22 45.5
		i	14 41 34.2		Ud	eSgl	12 23 30
	Sk	iPKP	14 41 07.6		Western USSR.		
	Um	iPKP	14 41 02.7		Explosion.		
	Ud	iPKP	14 41 14.2	" 13	Ki	iP	13 40 26.1
" 12	Ki	iP	16 48 47.8		Ud	iP	13 41 22.1
	Um	iP	16 48 47.9		De	eP	13 41 44
	Banda Sea (h = 110 km).				Kamchatka.		
" 12	Sk	iP	17 53 40.7	" 13	Um	iP	13 48 26.7
" 12	Up	iP	18 07 21.9	" 13	Ki	iP	14 05 01.5
" 12	De	e(P)	19 07 56		North Atlantic Ocean (h = N).		
" 12	Um	iP	20 21 13.4	" 13	Up		micr sec
	Ud	eP	20 20 19		Mx	E	0.9 18
" 12	Ud	iP	23 07 56.2		Mx	N	0.8 17
	Mindoro.				Mx	Z	1.3 19
" 13	Ki	iP	04 00 06.5		Ki		micr sec
	Um	iP	04 00 19.0		Mx	E	0.6 16
	Volcano Islands (h = 120 km).				Mx	N	0.5 14
" 13	Up	iP	06 12 44.0		Mx	Z	0.5 13
	Um	iP	06 12 38.8	Ud	iP		14 07 50.5
	Ud	iP	06 12 53.0		North Atlantic Ocean (h = N).		
" 13	Um	iPKP	06 15 35.3		M = 4.6 (Up,Ki).		
	Ud	iPKP	06 15 44.7	" 13	Ki	iP	15 13 18.4
	De	ePKP	06 15 45		Um	iP	15 13 09.0
	New Britain (h = 70 km).				North Atlantic Ocean (h = N).		
" 13	Um	iP	08 39 19.3	" 13	Ki	ePKP	15 38 24
					Um	iPKP	15 38 21.9
					Ud	iPKP	15 38 13.9
					Chile (h = 40 km).		
				" 13	Ki	iP	16 43 54.4
					North Atlantic Ocean (h = N).		

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

1972

May 13 Up eP 16 46 37  
micr sec  
P Z' 0.1 1.2  
Mx E 1.6 21  
Mx N 1.0 14  
Mx Z 2.6 19  
Ki iP 16 47 02.0  
micr sec  
P Z' 0.1 1.2  
Mx E 3.6 22  
Mx N 2.0 21  
Mx Z 2.9 22  
Sk iP 16 46 25.3  
Um iP 16 46 52.0  
Ud iP 16 46 17.3  
North Atlantic Ocean (h = N).  
m = 5.6, M = 4.9 (Up,Ki).

" 13 Ki iP 21 41 23.0  
Kamchatka.

" 13 Ud iP 22 03 33.5  
Chile (h = 40 km).

" 13 Ud iP 22 48 51.8

" 14 Up iP 05 16 31.5  
Ki iP 05 16 19.6  
Um iP 05 16 22.6  
Ud iP 05 16 40.8  
Celebes (h = 190 km).

" 14 Ki iPn 10 36 04.4  
iSn 10 36 52.4  
iS\* 10 37 05.3  
Sk eSgl 10 39 59  
Um iSgl 10 38 36.7  
Northwest USSR-Norway border  
region, 69.5°N, 30.9°E.  
Origin time = 10 35 01.  
Explosion.

" 14 Ud iP 10 36 17.7  
Mindanao (h = 110 km).

" 14 Up iP 12 12 33.0 C  
iS 12 21 44  
micr sec  
P Z' 0.1 1.0  
Mx E 3.1 20  
Mx N 2.9 18  
Mx Z 4.5 22  
Ki iP 12 11 50.8 C  
i 12 12 05.0  
iPP 12 14 06.0  
iS 12 20 26  
(cont.)

1972

May 14 (cont.)  
Ki micr sec  
P Z' 0.1 1.0  
Mx E 5.5 20  
Mx N 4.2 19  
Mx Z 3.3 20  
Sk iP 12 12 24.9 C  
Um iP 12 12 09.5 C  
i 12 12 22.1  
iS 12 21 01  
Ud iP 12 12 39.4 C  
i 12 12 54.1  
De iP 12 12 55.7  
i 12 13 11.4  
Japan (h = 10 km).  
m = 6.0, M = 5.8 (Up,Ki).  
Interpreting the second phase  
at Ki,Um,Ud,De as pP gives a  
focal depth of 55 km.

" 14 Ki iPn 13 09 10.0  
iSgl 13 10 12.4  
Sk iPn 13 09 17.3  
i 13 09 25.4  
iSn 13 10 07.7  
i 13 10 18.1  
Um iPn 13 09 36.2  
iSn 13 10 40.0  
iSgl 13 11 09.7

Norwegian Sea,  
67.8°N, 10.4°E.  
Origin time = 13 08 13.

" 14 Up iP 19 45 22.6  
ipP 19 45 36.8  
micr sec  
P Z' 0.2 0.9  
Ki iP 19 44 29.9  
micr sec  
P Z' 0.1 0.9  
Mx E 0.6 16  
Mx N 0.7 17  
Mx Z 0.6 16  
Sk eP 19 45 03  
Um iP 19 44 55.9  
Ud iP 19 45 22.8  
De iP 19 45 45.6  
Aleutian Islands.  
h = 50 km (Up).  
m = 5.9 (Up,Ki).

" 14 Ud iP 21 11 47.9  
Aleutian Islands (h = 45 km).

" 15 Um iP 01 03 20.6  
Banda Sea (h = 170 km).



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

1972				1972			
May	15	Ki	iPn	09 39 05.5	May	15	(cont.)
			iSn	09 39 52.9			Ki iP 13 47 40.5
			iS*	09 40 06.8			Ud iP 13 48 34.3
		Um	iSgl	09 41 39.1			Aleutian Islands (h = 50 km).
		Northwest USSR-Norway border region, 69.5°N, 30.6°E.			"	15	Um iPKP 14 21 33.8
		Origin time = 09 38 03.					Ud iPKP 14 21 45.8
		Explosion.			"	15	Up iP 14 31 49.7
"	15	Up	iPKP	09 51 17.9			ipP 14 32 00.7
			iSKP	09 54 10.1			Ki eP 14 31 33
				micr sec			Sk epP 14 32 08
			PKP	Z' 0.2 0.8			Um ipP 14 31 52.7
		Ki	i(PKP)	09 50 59.8			Ud ipP 14 32 08.5
			iPKP	09 51 08.6			Mindoro.
			iSKP	09 53 48.4			h = 40 km (Up).
				micr sec	"	15	Ki iPKP 22 26 47.1
			PKP	Z' 0.1 0.9			South Georgia Island (h = N).
			SKP	Z' 0.1 1.1	"	16	Up i(X) 01 47 28.4
		Sk	i(PKP)	09 51 10.4			Ki eP 01 48 21
			iPKP	09 51 18.1			Sk eP 01 47 52
			iSKP	09 54 04.0			Um eP 01 47 48
		Um	i(PKP)	09 51 05.1			Ud iP 01 47 19.8
			iPKP	09 51 13.1			iX 01 47 29.8
			iSKP	09 53 58.5			De iP 01 46 52.9
		Ud	iPKP	09 51 20.3			Crete (h = N).
			iSKP	09 54 11.4	"	16	Ki iP 04 51 52.3
			iSKKP	10 02 29.6	"	16	Ud iPP 11 04 51.3
		De	iPKP	09 51 30.2			Chile-Argentina (h = 120 km).
			i	09 51 31.7	"	16	Up iP 11 07 19.7 C
			ipPKP	09 53 41.1			Ki iP 11 07 56.9 C
			iSKP	09 54 20.3			Sk iP 11 07 54.6
		Tonga-Kermadec Islands.					Um iP 11 07 33.0 C
		h = 550 km (De).					Ud iP 11 07 34.8 C
"	15	Ki	iP	10 10 06.9			i 11 07 40.3
		Um	iP	10 10 34.6			De iP 11 07 18.3
		Ud	iP	10 10 59.4			Iran (h = 35 km).
"	15	Um	iPKP2	11 42 13.6	"	16	Up iSgl 13 01 44.3
		Ud	iPKP2	11 42 01.4			Ki eSgl 13 04 35
		South Pacific Ocean (h = N).					Sk iSgl 13 03 42.5
"	15	Ki	eP	12 24 13			Um iSgl 13 02 34.9
		Ud	eP	12 23 31			Ud eSgl 13 02 44
		Atlantic Ocean (h = N).					De eSgl 13 03 11
"	15	Up	iP	13 15 16.2			Esthonia, 59.2°N, 24.0°E.
		Ki	iP	13 14 28.1			Origin time = 13 00 00.
		Um	iP	13 14 50.3			Explosion.
		Ud	iP	13 15 21.1	"	16	Up iSgl 13 38 00.8
		De	eP	13 15 42			Um iSgl 13 38 31.5
		Kurile Islands (h = N).					Ud eSgl 13 39 02
"	15	Up	iP	13 48 33.7			De eSgl 13 39 30
				micr sec			(cont.)
		P	Z'	0.1 1.0			
		(cont.)					

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

1972

May 16 (cont.)  
Esthonia, 59.6°N, 25.2°E.  
Origin time = 13 36 00.  
Explosion.

" 16 Ud i(P) 15 20 10.5

" 16 Up iP 16 18 11.6  
Ki iP 16 17 28.1  
Sk eP 16 18 04  
Um iP 16 17 47.8  
Ud iP 16 18 18.6  
i 16 18 21.6  
De iP 16 18 35.6  
Japan (h = 120 km).

" 16 Um i(P) 17 12 43.4

" 16 Um i(Sgl) 23 25 43.5  
Ud e(Sgl) 23 26 34

" 16 Ki i(Sgl) 23 30 33.3

" 16 Um e(Sgl) 23 32 39

" 17 Up iP1 05 40 21.4  
iP2 05 40 23.6  
ipP 05 40 34.2  
iS 05 50 43  
micr sec  
P2 Z' 0.1 0.9  
Mx E 4.8 15  
Mx N 11 26  
Mx Z 8.4 17  
Ki iP2 05 40 07.0  
ipP 05 40 17.7  
iS 05 50 13  
micr sec  
P2 Z' 0.1 0.9  
pP Z' 0.2 1.4  
Mx E 9.1 16  
Mx N 12 16  
Mx Z 9.2 16  
Sk iP2 05 40 29.6  
ipP 05 40 40.9  
Um iP1 05 40 11.2  
iP2 05 40 13.5  
ipP 05 40 23.3  
iS 05 50 23  
Ud iP1 05 40 32.4  
iP2 05 40 34.2  
ipP 05 40 43.8  
De eP2 05 40 41  
Luzon.  
h = 40 km (Up,Ki,Sk,Um,Ud).  
m = 6.0, M = 6.4 (Up,Ki).  
Double P, in average 2.1  
sec apart.

1972

May 17 Up iP 06 03 10.7  
i 06 03 22.1  
Ki eP 06 02 55  
Um iP 06 03 01.0  
i 06 03 12.1  
Ud iP 06 03 21.0  
Luzon (h = 90 km).

" 17 Up iP 09 45 39.2  
Sk iP 09 46 06.7  
Um iP 09 45 40.3  
Ud iP 09 45 55.6  
Pakistan.  
Origin time = 09 37 38.

" 17 Up iP 09 47 40.3  
Ki iP 09 47 53.2  
Sk iP 09 48 07.4  
Um iP 09 47 40.9  
Ud iP 09 47 56.5  
Pakistan.  
Origin time = 09 39 39.

" 17 Up iP 10 14 07.7  
iX 10 14 09.5  
iY 10 14 13.4  
micr sec  
X Z' 0.1 0.9  
Mx E 1.3 14  
Mx N 1.6 10  
Mx Z 2.1 13  
Ki iP 10 14 18.7  
micr sec  
P Z' 0.1 1.0  
Mx E 4.0 12  
Mx N 1.3 12  
Mx Z 3.3 11  
Sk iP 10 14 33.7  
Um iP 10 14 07.0  
iX 10 14 09.1  
iY 10 14 13.4  
Ud iP 10 14 24.3  
iX 10 14 26.1  
iY 10 14 30.4  
De iP 10 14 20.9  
Pakistan (h = N).  
m = 5.6, M = 5.5 (Up,Ki).  
Y identified as pP gives  
h = 25 km (Up,Um,Ud).

" 17 Um iP 10 41 19.9

" 17 Up iSn 11 56 47.6  
iSgl 11 57 01.3  
Um iSgl 11 57 34.4  
Esthonia.  
Explosion.



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

1972				1972			
May 17	Up	iSgl	12 05 02.4	May 18	(cont.)		
	Ki	iSgl	12 06 56.6		Up		micr sec
	Um	iSgl	12 05 15.1		Mx	E	0.8 17
	Ud	eSgl	12 06 09		Mx	N	1.6 18
	Western USSR. Explosion.				Mx	Z	1.8 19
" 17	Um	iP	12 36 31.5		Ki	iP	02 52 57.1
	Ud	iP	12 36 16.9				micr sec
" 17	Ki	iSgl	12 39 26.5		P	Z'	0.1 1.0
	Sk	eSgl	12 39 06		Mx	E	0.6 14
	Um	iSgl	12 37 47.0		Mx	N	0.9 15
	Ud	iSgl	12 38 21.3		Mx	Z	0.7 15
	Western USSR. Explosion.				Sk	iP	02 53 31.5
" 17	Ki	iP	14 20 32.5		Um	iP	02 53 15.4
	Um	iP	14 20 59.1			ipP	02 53 25.4
	Ud	iP	14 21 30.4		Ud	iP	02 53 45.2
	Kurile Islands (h = 100 km).					ipP	02 53 55.5
" 17	Um	iP	17 45 30.7		De	eP	02 54 01
	Ud	iP	17 45 35.2		Japan.		
" 17	Ud	iP	18 39 36.0	" 18	Um	iP	05 30 39.4
" 17	Ki	eP	18 55 44		Ud	eP	05 30 37
	Sk	eP	18 56 17	" 18	Um	iP	06 14 24.9
	Um	iP	18 56 01.0	" 18	Ud	iP	09 16 20.4
		ipP	18 56 27.7	" 18	Um	iSgl	12 10 07.4
	Ud	iP	18 56 30.6		Ud	iSgl	12 10 45.7
	Japan. h = 100 km (Um).				De	eSgl	12 11 17
" 17	Up	i(P)	19 18 27.5	" 18	Western USSR. Explosion.		
		(P)	micr sec		Up	iSgl	14 29 27.1
		Z'	0.1 1.0		Sk	eSgl	14 31 16
" 17	Ki	iP	21 21 21.9		Um	iSgl	14 29 49.5
	Sk	iP	21 21 06.3		Ud	iSgl	14 30 33.5
	Um	iP	21 21 23.0		De	iSgl	14 30 58.9
	Ud	iP	21 21 08.3	" 18	Western USSR. Explosion.		
	Colombia (h = 190 km).			" 18	Um	i(P)	14 44 10.0
" 18	Up	iP	02 50 38.0		Ud	i(P)	14 44 32.7
	Ki	iP	02 51 10.3	" 18	Up	i(P)	15 43 03.0
	Sk	eP	02 51 11		Ud	i(P)	15 43 16.7
	Um	iP	02 50 50.0	" 18	Um	iP	16 07 59.1
	Ud	iP	02 50 52.6	" 18	Um	iP	17 20 13.7
		iPP	02 52 35.8	" 18	Um	i(P)	17 20 13.7
	De	iP	02 50 38.0	" 18	Um	iP	21 35 46.5
	Iran (h = 35 km).			" 18	Um	iP	21 35 46.5
" 18	Up	iP	02 53 37.9	" 19	Ud	iP	00 40 19.3
		ipP	02 53 48.7			i	00 40 31.7
			micr sec		Greece.		
	P	Z'	0.1 1.3				
	(cont.)						

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

1972

May 19 Up iP 01 18 55.8  
 micr sec  
 Mx E 1.1 15  
 Mx N 0.8 16  
 Mx Z 1.1 16  
 Ki iP 01 20 20.7  
 micr sec  
 Mx E 1.1 20  
 Mx N 0.5 13  
 Mx Z 0.5 13  
 Sk iP 01 19 35.8  
 Um iP 01 19 42.6  
 Ud iP 01 19 05.8  
 De iP 01 18 31.2  
 Tunisia (h = 50 km).  
 M = 4.6 (Up,Ki).

" 19 Ki eP 06 09 42  
 i 06 09 54.3  
 Sk eP 06 10 05  
 Um iP 06 09 49.8  
 ipP 06 10 07.8  
 Ud ipP 06 10 33.0  
 Mindoro.  
 h = 70 km (Um).

" 19 Ki eP 07 14 27  
 iS 07 15 43.3  
 eTPg 07 19 23  
 iTSg 07 19 55.8  
 Sk iP 07 15 08.7  
 iS 07 16 55.3  
 Um iP 07 15 17.2  
 Ud iP 07 16 07.8  
 i 07 16 13.4  
 De iP 07 16 48.7  
 Norwegian Sea (h = N).

" 19 Up iP 10 08 03.2  
 Ki iP 10 07 33.9 C  
 micr sec  
 P Z' 0.1 1.0  
 Sk iP 10 08 00.7  
 Um iP 10 07 46.5 C  
 Ud iP 10 08 09.5 C  
 De iP 10 08 21.4  
 Volcano Islands (h = 70 km).

" 19 Ki eP 11 03 36  
 Sk iP 11 02 51.6  
 i 11 02 55.7  
 Um iP 11 02 52.7 C  
 i 11 02 57.2  
 Yugoslavia.

" 19 Ki iPn 11 39 32.7  
 iSn 11 40 30.8  
 (cont.)

1972

May 19 (cont.)  
 Ki iS\* 11 40 51.0  
 Sk eSgl 11 43 18  
 Um iSgl 11 41 46.1  
 Northwest USSR,  
 67.8°N, 33.8°E.  
 Origin time = 11 38 15.  
 Explosion.

" 19 Sk eSgl 12 38 19  
 Um iSgl 12 37 01.1  
 Ud eSgl 12 37 33  
 De eSgl 12 37 56  
 Esthonia.  
 Explosion.

" 19 De iP 12 58 45.8

" 19 Um iP 14 31 19.9  
 Ud iP 14 31 22.9

" 19 Up eP 17 11 49  
 Um iP 17 11 34.9  
 Ud iP 17 11 41.0  
 Nevada.  
 Underground explosion.

" 19 Ki i(P) 20 11 29.3  
 Sk i(P) 20 11 33.4

" 19 Ud iP 21 08 43.7

" 19 Um iP 22 45 24.9  
 ipP 22 45 36.5  
 Ud iP 22 45 52.9  
 De iP 22 46 17.7  
 Japan.  
 h = 45 km (Um).

" 20 Up ipPKP 02 54 06.6  
 iSKP 02 57 24.1  
 micr sec  
 SKP Z' 0.1 1.3  
 Mx E 1.0 21  
 Mx N 1.2 22  
 Mx Z 2.2 23  
 Ki iPn 02 53 40.1  
 ipPKP 02 53 52.4  
 micr sec  
 Mx E 1.0 21  
 Mx N 0.9 20  
 Mx Z 0.8 18  
 Sk iPn 02 53 54.8  
 eSKP 02 57 17  
 Um iPn 02 53 47.7  
 ipPKP 02 53 59.3  
 Ud iPn 02 53 58.0  
 (cont.)

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

1972

May 20 (cont.)  
 Ud ipPKP 02 54 08.9  
     iSKP 02 57 26.0  
 De ipPKP 02 54 07.9  
 New Hebrides Islands.  
 h = 40 km (Ki,Um,Ud).  
 M = 5.7 (Up,Ki).

" 20 Um iP 03 06 38.5  
     ipP 03 06 49.4  
 Ud iP 03 07 06.4  
     ipP 03 07 17.8  
 Japan.  
 h = 40 km (Um,Ud).

" 20 Sk e(P) 04 29 57  
 Ud i(P) 04 29 07.4

" 20 Ud ipPKP 05 00 02.2  
 De ipPKP 05 00 11.4

" 20 Up iP 06 51 54.4  
 Ki iP 06 52 31.6  
 Sk eP 06 52 29  
 Um iP 06 52 08.1 C  
 Ud iP 06 52 09.4  
     ipP 06 52 17.0  
 De iP 06 51 52.8  
 Iran.  
 h = 30 km (Ud).

" 20 Ki iP 06 53 04.9  
 Sk iP 06 53 33.5  
 Um iP 06 53 34.0 C  
 Ud iP 06 53 57.6  
 Kodiak Island (h = 60 km).

" 20 Um i(P) 09 41 35.1

" 20 Up iSgl 15 59 19.6  
 Ki eSgl 16 01 30  
 Um iSgl 15 59 43.3  
 Ud iSgl 16 00 20.0  
 Western USSR.  
 Explosion.

" 20 Um iP 16 04 22.6  
 Ud eP 16 03 54

" 20 Ud iP 18 59 29.7

" 20 Up iP 21 27 41.9  
 Ki eP 21 27 05  
 Um iP 21 27 20.9  
 Ud iP 21 27 49.4  
 Japan (h = 15 km).

1972

May 20 Up iP 21 36 58.7  
     ipP 21 37 08.8  
     iS 21 45 52  
 Ki iP 21 36 04.7  
     P Z' 0.1 1.0  
     Mx E 0.5 18  
     Mx N 0.5 17  
 Sk iP 21 36 33.6  
 Um iP 21 36 31.9  
     ipP 21 36 42.3  
 Ud iP 21 36 56.7  
     ipP 21 37 07.6  
 De iP 21 37 19.6  
     ipP 21 37 30.7  
 South of Alaska.  
 h = 40 km (Up,Um,Ud,De).

" 21 Up ePP 00 19 02  
 Ki eP 00 17 15  
     iS 00 18 39.2  
     iTPg 00 22 12.7  
     iTSg 00 22 50.3  
 Sk eP 00 17 55  
     iS 00 19 40.6  
 Um iP 00 18 02.7  
 Ud iP 00 18 44.7  
 Norwegian Sea,  
 73.6°N, 7.6°E.  
 Origin time = 00 15 33.

" 21 Up iX 01 01 18.1  
 Sk ipPKP 01 01 08.7  
 Um ipPKP 01 01 02.3  
 Ud ipPKP 01 01 16.2  
     iX 01 01 21.0

" 21 Um iP 03 32 04.9  
 Kurile Islands.

" 21 Ki eSn 05 30 10  
     iSgl 05 30 31.5  
 Um iSgl 05 31 25.1  
 Probably northwest USSR.  
 Explosion.

" 21 Up ipPKP 06 21 22.8  
     ipPKP 06 21 27.4  
 Ki ipPKP 06 21 15.1  
 Sk ePKP 06 21 22  
 Um ipPKP 06 21 20.3  
     ipPKP 06 21 24.7  
 Ud ipPKP 06 21 25.2  
     ipPKP 06 21 29.6  
 De ipPKP 06 21 34.8  
     ipPKP 06 21 39.0  
 North of New Zealand.  
 h = 15 km (Up,Um,Ud,De).

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

1972				1972			
May 21	Ki	eP	06 59 06	May 22	(cont.)		
		eS	07 00 21		Sk	iP1	06 16 26.2
		eTPg	07 04 04			iP2	06 16 28.1
		eTSg	07 04 29		Um	iP1	06 16 08.4
	Sk	eS	07 01 31			iP2	06 16 09.7
	Um	iP	06 59 55.5			iS	06 26 06
	Ud	eP	07 00 39		Ud	iP1	06 16 30.7
	Norwegian Sea.					iP2	06 16 32.7
	Origin time = 06 57 26.				Luzon (h = 35 km).		
" 21	Up	iP	08 00 22.1		m = 6.8, M = 7.4 (Up,Ki).		
	Ki	iP	07 58 45.5		Double P, in average 1.7		
		iS	08 00 03.6		sec apart.		
		iTPg	08 03 28.3	" 22	Up	iP	06 23 35.2
	Sk	iP	07 59 26.3				micr sec
		iS	08 01 13.6			P	Z' 0.2 1.0
		eTSg	08 06 19		Ki	iP	06 23 15.6
	Um	iP	07 59 34.1				micr sec
		iS	08 01 28.4			P	Z' 0.3 1.1
		iTPg	08 04 50.2		Sk	iP	06 23 39.8
		iTSg	08 06 09.4		Um	iP	06 23 22.2
	Ud	iP	08 00 14.7		Ud	iP	06 23 44.5
		eTSg	08 07 21		Luzon (h = N).		
	Norwegian Sea (h = N).				m = 6.2 (Up,Ki).		
	Exceptionally pronounced			" 22	Up	iP	06 25 56.2
	T-phases, especially at				Ki	iP	06 25 35.9
	Ki and Um.				Um	eP	06 25 42
" 21	Up	iP	11 50 10.2 C		Ud	iP	06 26 04.9
	Ki	iP	11 49 19.3		Luzon.		
	Um	iP	11 49 42.9 C		Origin time = 06 13 34.		
	Ud	iP	11 50 15.0		Approximate origin times		
	Okhotsk Sea (h = 440 km).				for Luzon aftershocks are		
" 21	Um	iP	11 52 17.7		based on our own records		
" 21	Ud	iP	19 24 30.7		only.		
" 21	Ki	eP	22 24 51	" 22	Up	iP	06 30 58.8
	Um	iP	22 25 18.2		Ki	iP	06 30 38.1
	Ud	iP	22 25 43.0		Um	iP	06 30 44.8
" 22	Up	iP2	06 16 23.2		Ud	iP	06 31 07.3
		iS	06 26 36		Luzon.		
			micr sec		Origin time = 06 18 36.		
		P2	Z' 0.4 0.9	" 22	Up	iP	06 33 03.5
		Mx	E 68 18		Ki	iP	06 32 37.5
		Mx	N 130 25		Um	iP	06 32 48.2
		Mx	Z 120 18		Luzon.		
	Ki	iP1	06 16 01.7		Origin time = 06 20 39.		
		iP2	06 16 03.2	" 22	Ki	iPKP	06 34 55.4
		iS	06 26 03		Sk	iPKP	06 34 43.7
		iP'P'	06 43 03.3		Um	iPKP	06 34 52.6
			micr sec	" 22	Up	iP	06 49 15.2
		P2	Z' 1.8 1.1		Ki	iP	06 48 54.7
		Mx	E 50 15		Ud	iP	06 49 24.5
		Mx	N 84 16		Luzon.		
		Mx	Z 36 15		Origin time = 06 36 53.		
	(cont.)						

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

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May 22 Up iP2 06 59 02.0  
 Ki iP1 06 58 39.0  
 iP2 06 58 42.3  
 Sk iP1 06 59 03.9  
 iP2 06 59 08.2  
 Um iP1 06 58 46.0  
 Ud iP1 06 59 08.4  
 iP2 06 59 11.1  
 Luzon (h = N).

" 22 Ud eP 07 07 11

" 22 Um iP 07 20 28.0

" 22 Um eP 07 29 26

" 22 Ki iP 07 30 38.6  
 Um iP 07 30 45.6  
 Ud iP 07 31 07.9  
 Luzon.  
 Origin time = 07 18 37.

" 22 Up iP 07 38 16.3  
 Ki iP 07 37 56.2  
 Um iP 07 38 02.4  
 Ud iP 07 38 25.5  
 Luzon.  
 Origin time = 07 25 54.

" 22 Ud iP 07 41 33.6

" 22 Up iP 07 41 43.1  
 Ki iP 07 41 23.4  
 Um iP 07 41 29.9  
 Ud iP 07 41 52.3  
 Luzon (h = 55 km).

" 22 Up iP2 07 44 42.4  
 Ki iP2 07 44 21.8  
 Ud iP1 07 44 46.1  
 iP2 07 44 50.7  
 Luzon.  
 Origin time = 07 32 15.

" 22 Ki iP 07 59 39.9

" 22 Ki eP 08 26 20  
 Ud eP 08 26 48  
 Probably Luzon.  
 Origin time = 08 14 17.

" 22 Ki iP1 09 30 57.6  
 Um iP2 09 31 09.1  
 Ud iP1 09 31 28.5  
 iP2 09 31 34.7  
 Luzon.  
 Origin time = 09 18 57.

1972

May 22 Ki eP 09 52 28  
 Um iP 09 52 33.8  
 Ud iP 09 52 55.3  
 Luzon.  
 Origin time = 09 40 25.

" 22 Up iP 10 18 44.4  
 Ki iP 10 18 24.7  
 Um iP 10 18 31.6  
 Ud iP 10 18 53.8  
 Luzon (h = N).

" 22 Ud iP 10 29 05.1

" 22 Ki iP 11 12 01.8  
 Ud iP 11 12 30.3  
 Luzon.  
 Origin time = 11 00 00.

" 22 Ki iP 11 30 39.6  
 Ud iP 11 31 04.9  
 Probably Luzon.

" 22 Ki eP 11 34 03  
 Um eP 11 34 06  
 Ud eP 11 34 28  
 Celebes (h = N).

" 22 Ki eP 12 53 49  
 Um eP 12 53 53  
 Ud iP 12 54 18.1  
 Luzon.  
 Origin time = 12 41 46.

" 22 Up iP 13 26 52.6  
 Ki eP 13 26 32  
 Um iP 13 26 38.7  
 Ud iP 13 27 01.7  
 Luzon.  
 Origin time = 13 14 31.

" 22 Ud iP 13 32 38.6

" 22 Ki iP 13 50 31.4  
 Um eP 13 50 35  
 Ud iP 13 51 00.0  
 Luzon.  
 Origin time = 13 38 28.

" 22 Up iP 14 01 40.4  
 Um eP 14 01 23  
 Ud iP 14 01 47.0  
 Luzon.  
 Origin time = 13 49 16.

" 22 Ki eP 14 08 06  
 Um eP 14 08 11  
 (cont.)

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

1972

May 22	(cont.)		
	Ud	iP	14 08 34.2
		Luzon.	
		Origin time =	13 56 03.
" 22	Ud	iP	15 13 29.9
" 22	Up	iP	15 59 00.7
	Ki	iP	15 58 38.6
	Um	iP	15 58 44.1
	Ud	iP	15 59 04.7
		Luzon.	
		Origin time =	15 46 36.
" 22	Ud	iP	16 45 19.9
" 22	Ud	i(Sgl)	17 19 27.7
" 22	Ud	iP	17 27 22.3
" 22	Ud	i(Sgl)	18 08 23.5
" 22	Ud	iP	19 10 36.9
" 22	Ud	eP	19 24 38
" 22	Up	iP	20 37 04.9
	Ki	iP	20 36 44.9
	Sk	eP	20 37 10
	Um	iP	20 36 51.4
	Ud	iP	20 37 13.8
		Luzon (h = 80 km).	
" 22	Up	iP	21 02 02
		i(PKP)	21 04 41.0
		i(PKP)	21 04 43.7
		iPKP	21 04 54.8
		ipPKP	21 05 53.3
		iPP	21 07 37.1
		iSKP	21 08 09.1
		i	21 08 17.3
		iPKS	21 08 26
		ipPKS	21 09 22
			micr sec
	(PKP)	Z'	0.1 0.9
	PKP	Z'	0.4 1.0
	pPKP	Z'	2.1 2.4
	PP	Z'	2.0 2.3
	Mx	E	5.8 23
	Mx	N	15 22
	Mx	Z	15 23
	Ki	e(PKP)	21 04 22
		i(PKP)	21 04 28.0
		iPKP	21 04 37.7
		ipPKP	21 05 37.7
		iPP	21 06 44.3
		iSKP	21 07 41.9
		(cont.)	

1972

May 22	(cont.)		
	Ki	iPKS	21 07 58
		ipPKS	21 08 55
			micr sec
		PKP	Z' 1.0 1.2
		pPKP	Z' 3.3 2.8
		PP	Z' 1.9 2.1
		Mx	E 15 23
		Mx	N 18 22
		Mx	Z 8.3 23
	Sk	i(PKP)	21 04 34.8
		i(PKP)	21 04 39.7
		iPKP	21 04 47.5
		ipPKP	21 05 48.2
		iPP	21 07 16.8
		iSKP	21 08 00.8
	Um	iP	21 01 43
		i(PKP)	21 04 30.0
		i(PKP)	21 04 34.8
		iPKP	21 04 45.6
		ipPKP	21 05 43.6
		iPP	21 07 08.8
		iSKP	21 07 55.5
		ipKS	21 08 14
		ipPKS	21 09 08
		iSKKP	21 17 24.8
	Ud	i(PKP)	21 04 41.2
		i(PKP)	21 04 43.6
		iPKP	21 04 54.9
		ipPKP	21 05 52.2
		iPP	21 07 37.2
		iSKP	21 08 10.1
		iSKKP	21 17 03.8
		Tonga Islands.	
		h = 230 km (Up,Ki,Sk,Um,Ud).	
		m = 6.7, M = 6.8 (Up,Ki).	
		M uncorrected for focal depth.	
" 22	Up	iP	21 40 54.3
	Ki	eP	21 40 17
	Sk	eP	21 40 42
	Um	iP	21 40 36.6
	Ud	iP	21 40 55.8
" 22	Ud	iP	21 52 44.8
" 22	Up	eP	23 50 34
	Ki	iP	23 50 14.3
	Um	iP	23 50 21.3
	Ud	iP	23 50 43.2
		Luzon.	
		Origin time =	23 38 12.
" 23	Up	iP	00 31 49.1
		i	00 31 56.3
		(cont.)	



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

1972

May 23	(cont.)				
	Up		micr	sec	
	P	Z'	0.1	1.0	
	Ki	iP	00 31	29.2	
			micr	sec	
	P	Z'	0.1	1.0	
	Sk	iP	00 31	53.4	
	Um	iP	00 31	35.7	
	Ud	iP	00 31	57.9 C	
	Luzon (h = 45 km).				
	m = 5.8 (Up,Ki).				
" 23	Um	iP	00 50	23.8	
	Mexico (h = 100 km).				
" 23	Ud	iP	02 15	43.2	
" 23	Ki	eP	02 46	40	
	Um	iP	02 46	42.2	
	Ud	eP	02 46	26	
	Mona Passage (h = 40 km).				
" 23	Ud	eP	03 00	21	
" 23	Up	eP	03 19	07	
	Sk	eP	03 19	35	
	Um	iP	03 19	26.3	
	Ud	iP	03 18	58.1	
	Greece-Bulgaria (h = 5 km).				
" 23	Ki	eSgl	04 52	23	
	Sk	iSgl	04 52	55.9	
	Um	eSgl	04 51	02	
	Lake Ladoga. Explosion.				
" 23	Ud	eP	05 52	07	
" 23	Ud	iP	06 54	00.9	
" 23	Um	iP	07 42	41.5	
" 23	Ki	iP	07 43	37.1	
		ipP	07 43	46.1	
	Um	iP	07 43	33.8	
		ipP	07 43	42.0	
	Ud	eP	07 43	46	
	Sumatra. h = 30 km (Ki,Um).				
" 23	Ud	eP	08 55	18	
" 23	Ki	iP	10 12	31.8	
			micr	sec	
	P	Z'	0.1	1.5	
	Um	iP	10 12	21.8	
	Azores Islands (h = N).				

1972

May 23	Ud	iSgl	11 02	29.6	
	West coast of Norway. By combination with Bergen readings.				
" 23	Up	iP	11 09	03.0	
	Sk	iP	11 09	51.9	
	Um	iP	11 09	43.2	
		i	11 09	45.9	
	Ud	iP	11 09	10.0	
	Italy.				
" 23	Up	iP	12 03	30.7	
	Ki	iP	12 02	54.7	
	Um	iP	12 03	10.0	
		i	12 03	17.1	
	Ud	iP	12 03	38.8	
		i	12 03	45.4	
	Japan (h = 60 km).				
" 23	Up	iSgl	12 13	43.4	
	Ki	eSgl	12 15	38	
	Sk	eSgl	12 15	27	
	Um	iSgl	12 13	57.9	
	Ud	iSgl	12 14	43.6	
	Western USSR. Explosion.				
" 23	Ud	iP	12 19	13.1	
" 23	Ud	iP	12 39	45.9	
" 23	Um	iP	13 33	56.2	
" 23	Sk	e(Sgl)	16 01	53	
" 23	Um	iP	17 33	09.0	
		i	17 33	21.3	
" 23	Up	iP	18 03	45.6 C	
		i	18 03	50.7	
			micr	sec	
	P	Z'	0.1	0.9	
	Ki	iP	18 03	25.5 C	
		i	18 03	30.6	
	Sk	iP	18 03	49.9	
	Um	iP	18 03	32.2 C	
		i	18 03	37.2	
	Luzon (h = 70 km).				
" 23	Up	iP	18 15	11.0 D	
		ipP	18 15	22.4	
			micr	sec	
	P	Z'	0.1	1.0	
	Ki	iP	18 14	33.7	
	Sk	iP	18 15	05.7	
	Um	iP	18 14	50.2 D	
	(cont.)				

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

1972

May 23 (cont.)  
Um ipP 18 15 01.5  
Japan.  
h = 40 km (Up,Um).

" 23 Up iP 18 24 38.7  
ipP 18 24 49.8  
Ki eP 18 24 47  
Sk eP 18 25 05  
Um iP 18 24 36.8  
ipP 18 24 47.2  
Afghanistan-USSR.  
h = 40 km (Up,Um).

" 23 Um iP 18 38 53.6

" 23 Um iP 19 27 44.4

" 23 Up iP 20 30 49.3  
i 20 30 55.3  
Ki eP 20 30 28  
Um iP 20 30 35.5  
Luzon.  
Origin time = 20 18 27.

" 24 Up eP 01 13 56  
Ki iP 01 13 38.9  
i 01 13 44.0  
Um iP 01 13 44.4  
Halmahera (h = 140 km).

" 24 Up ePKP 01 14 21  
Ki iP 01 14 26.6  
Sk ePKP 01 14 27  
Um iP 01 14 24.1  
South of Australia (h = N).

" 24 Ki eP 01 34 46  
Um iP 01 34 52.8  
Luzon.  
Origin time = 01 22 45.

" 24 Up iP 02 25 58.1  
Ki iP 02 25 39.5  
Luzon.  
Origin time = 02 13 37.

" 24 Ki eP 04 52 47  
Um iP 04 52 50.6

" 24 Up iP 08 23 46.8  
i 08 23 54.2  
Ki eP 08 23 29  
Um iP 08 23 33.4  
Luzon (h = 60 km).

" 24 Ki iPn 10 09 25.8  
(cont.)

1972

May 24 (cont.)  
Ki iSn 10 10 11.8  
iS\* 10 10 24.8  
Sk eSgl 10 13 22  
Um i(Sn) 10 11 22.1  
eSgl 10 12 05  
Ud eSgl 10 14 24  
Northwest USSR-Norway border  
region, 69.8°N, 30.0°E.  
Origin time = 10 08 25.  
Explosion.

" 24 Ki e(Sn) 10 20 01  
i(Sgl) 10 20 19.5  
Um i(Sgl) 10 21 12.1

" 24 Up iP 10 22 20.5  
Ki eP 10 22 53  
Sk iP 10 22 50.5  
Um iP 10 22 32.9  
Ud iP 10 22 31.6  
Arabian Sea (h = N).

" 24 Up ePKP 11 45 19  
micr sec  
Mx E 1.5 20  
Mx N 2.4 22  
Mx Z 3.0 22  
Ki micr sec  
Mx E 2.9 21  
Mx N 2.8 23  
Mx Z 1.3 21  
Um ePKP 11 45 12  
Ud ePKP 11 45 25  
Loyalty Islands (h = 40 km).  
M = 6.1 (Up,Ki).

" 24 Ki iP 12 34 18.4  
Um iP 12 34 10.1  
Ud iP 12 34 29.6  
Pamir.  
Intermediate depth.

" 24 Ki iP 13 30 25.4  
Sk iP 13 30 45.7  
Um eP 13 30 26  
Ud iP 13 30 46.3

" 24 Ki iSgl 16 19 54.8  
Sk eSgl 16 19 59  
Um eSgl 16 20 22  
Nordland, Norway.  
Explosion.

" 24 Um iP 16 40 33.4

" 24 Up iP 16 43 56.6  
(cont.)

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

1972				1972				
May	24	(cont.)		May	25	Up	iP	05 33 09.7
		Ki	eP			Um	iP	05 33 03.2
		Um	iP			Ud	iP	05 33 22.6
		Ud	iP					
		Luzon.		"	25	Up	eP	05 44 14
		Origin time = 16 31 33.				Ki	iP	05 43 53.1
"	24	Um	iP			Ud	eP	05 44 22
								Luzon (h = 35 km).
"	24	Up	iP		25	Up	eP	06 48 40
		Um	iP			Ki	eP	06 48 14
"	24	Um	iP		25	Um	i(Sgl)	07 06 26.7
"	24	Ki	iP		25	Ki	iP	09 12 31.3
		Ud	iP			Um	iP	09 12 11.5
						Ud	iP	09 12 08.9
		Luzon.						Iran (h = 45 km).
		Origin time = 22 53 44.		"	25	Up	iSn	11 06 16.9
"	24	Ki	iP				iSgl	11 06 29.8
		Mindanao.				Ki	eSgl	11 08 59
"	24	Up	iP			Sk	iSgl	11 08 19.8
		Ki	iP			Um	iSgl	11 07 02.4
		Um	iP			Ud	iSgl	11 07 36.2
		Ud	iP					Esthonia, 59.5°N, 25.1°E.
		Luzon.						Origin time = 11 04 30.
		Origin time = 23 34 11.						Explosion.
"	25	Um	iP		25	Ud	eP	12 31 42
		Ionian Islands.						Molucca Sea (h = 130 km).
"	25	Um	iP		25	Ud	i(P)	17 00 14.2
"	25	Up	iP		25	Up	iPKP	17 35 45.7
		Ki	eP			Sk	ePKP	17 35 39
		Um	iP			Um	iPKP	17 35 33.7
		Ud	iP			Ud	iPKP	17 35 47.2
"	25	Up	iPKP		25	Up	iPKP	20 24 04.4
		Ki	iPKP			Um	iPKP	20 23 54.7
		Sk	iPKP				i	20 24 31.1
		Um	iPKP			Ud	iPKP	20 24 05.2
		Ud	iPKP					
"	25	Up	eP		25	Um	iP	21 30 13.8
			i			Ud	iP	21 30 31.8
		Ki	e					Afghanistan-USSR (h = 60 km).
		Ud	eP					
			i					
		Formosa (h = 50 km).		"	26	Long-period microseisms, periods around 17 sec, recorded at Umeå, especially on the Press-Ewing N- component.		
"	25	Um	iP		26	Ki	eP	02 27 53
"	25	Up	iP		26	Up	iP	08 50 50.5 C
		Ki	eP					(cont.)
		Ud	eP					
		Luzon (h = 70 km).						

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

1972

May 26 (cont.)  
 Up i 08 51 17.4  
           micr sec  
       P Z' 0.2 0.7  
 Ki iP 08 50 33.2 C  
           micr sec  
       P Z' 0.1 0.8  
 Sk iP 08 50 56.3 C  
 Um iP 08 50 38.7 C  
 Ud iP 08 50 59.4 C  
       i 08 51 19.4  
 De iP 08 51 06.2 C  
 Mindoro (h = 40 km).  
 m = 6.3 (Up,Ki).

" 26 Ud eP 10 54 43

" 26 Um iSgl 12 31 29.0  
 Ud iSgl 12 32 22.3  
 De iSgl 12 32 43.7  
 Western USSR.  
 Explosion.

" 27 Up iP 04 16 22.2 D  
       iPcP 04 16 59.7  
       ipP 04 17 49.6  
       iPP 04 18 39.3  
       iS 04 24 06.6  
       i(P'P') 04 45 18.7  
               micr sec  
       P Z' 2.5 1.0  
 Ki iP 04 15 29.0 D  
       iPcP 04 16 29.6  
       ipP 04 16 54.5  
       iPP 04 17 33.0  
               micr sec  
       P Z' 1.6 1.0  
 Sk iP 04 16 06.1 D  
       iPP 04 18 19.6  
 Um iP 04 15 54.2 D  
       iPcP 04 16 44.2  
       iS 04 23 13  
       i(P'P') 04 45 28.5  
 Ud iP 04 16 26.2 D  
       iPcP 04 17 02.6  
       iPP 04 18 47.7  
       i(P'P') 04 45 16.6  
 De iP 04 16 47.4 D  
       iPcP 04 17 16.7  
       ipP 04 18 17.4  
       iPP 04 19 15.4

Kamchatka.

h = 420 km (Up,Ki,De).

m = 6.5 (Up,Ki).

(P'P') denotes P'P' early  
 by about 16 sec.

1972

May 27 Up i(PKP) 07 38 48.9  
 Ud i(PKP) 07 38 51.4  
 De e(PKP) 07 38 36

" 27 Ki iP 08 46 09.4 C  
 Um iP 08 45 47.8 C  
 Ud iP 08 45 51.4 C  
 De iP 08 45 36.7 C  
 Iran.

" 27 Up i(PKP) 09 08 26.5  
 Ud i(PKP) 09 08 28.5

" 27 Ud iP 11 30 25.7

" 27 Ki iPn 11 42 36.5  
       iSn 11 43 21.8  
       iSgl 11 43 35.3  
 Um iSn 11 44 37.8  
 Northwest USSR-Norway border  
 region.  
 Origin time = 11 41 37.  
 Explosion.

" 27 Up iSgl 13 46 45.6  
 Um iSgl 13 47 07.7  
 Ud iSgl 13 47 46.6  
 Western USSR.  
 Explosion.

" 27 Ki ipP 14 01 45.1  
 Hindu Kush.  
 Intermediate depth.

" 27 Ki iP 14 05 25.6  
 Yellow Sea.

" 27 Ud iP 21 50 53.9

" 28 Up ePKP 01 13 06  
 Sk iPKP 01 13 06.3  
 Um iPKP 01 13 06.1  
 Ud iPKP 01 13 07.7  
 De iPKP 01 13 19.3  
 Tonga-Kermadec Islands  
 (h = 610 km).

" 28 Ki ePKP 01 59 07  
 Um iPKP 01 59 10.4  
 De iPKP 01 59 25.0  
 New Britain (h = 70 km).

" 28 Up iP 02 09 25.7  
       ipP 02 09 39.0  
       i(PP) 02 12 43.3  
       iPP 02 13 44  
       iPS 02 22 48

(cont.)

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

1972

May 28 (cont.)

Up			micr	sec
PP	Z'	1.4	2.0	
Mx	E	5.8	20	
Mx	N	10	23	
Mx	Z	8.4	22	
Ki	iP	02 09	15.3	
	ipP	02 09	30.0	
			micr	sec
pP	Z'	0.1	0.9	
Mx	E	13	20	
Mx	N	11	21	
Mx	Z	9.5	20	
Sk	iP	02 09	34.5	
Um	iP	02 09	17.4	
	ipP	02 09	32.1	
	e(PP)	02 12	48	
	iPP	02 13	41.5	
	iSKS	02 19	54	
	iPS	02 22	36	
Ud	iP	02 09	32.9	
	ipP	02 09	47.5	
	i(PP)	02 13	03.0	
	iPP	02 13	52.8	
De	iP	02 09	35.2	
	ipP	02 09	49.7	

Sumbawa Island.  
h = 55 km (Up,Ki,Um,Ud,De).  
M = 6.5 (Up,Ki).  
(PP) denotes early PP.

" 28 Up iP 03 19 32.0  
micr sec  
P Z' 0.1 1.0  
Ki iP 03 20 41.1  
Sk eP 03 20 17  
Um iP 03 20 04.9  
i 03 20 16.6  
Ud iP 03 19 45.0  
De iP 03 19 11.9  
Turkey (h = N).

" 28 Up iP 03 35 16.4  
Ud iP 03 35 25.8

" 28 Ki iP 04 13 50.2  
Um iP 04 14 09.1  
ipP 04 14 29.0  
Ud iP 04 14 40.2 D  
De iP 04 14 56.3  
Japan.  
h = 70 km (Um).

" 28 Up iP 06 13 31.2  
Ki iP 06 14 07.6  
Sk iP 06 14 05.1  
Um iP 06 13 44.5  
(cont.)

1972

May 28 (cont.)

Ud	iP	06 13	45.8
De	iP	06 13	30.1

Iran.  
Origin time = 06 06 03.

" 28 Ud iP 06 27 14.8

" 28 Um i(P) 07 21 38.2

" 28 Ud iP 09 55 06.3

" 28 Up iP 10 51 40.7  
Ki iP 10 50 54.9  
Um iP 10 51 16.5  
Ud iP 10 51 45.9  
De iP 10 52 05.7  
Kurile Islands (h = 35 km).

" 28 Up iSgl 11 43 03.5  
Ki iPn 11 38 55.4  
iSn 11 39 55.5  
iS\* 11 40 14.5  
Sk iSgl 11 42 38.0  
Um iSn 11 40 33.4  
iSgl 11 41 09.9  
Ud iS\* 11 43 34.1  
iSgl 11 43 42.2  
De iSgl 11 45 11.7  
Northwest USSR,  
67.7°N, 34.2°E.  
Origin time = 11 37 35.  
Explosion.

" 28 Ud iP 12 35 29.7

" 28 Up iP 14 21 17.5  
Um iP 14 20 53.7  
Ud iP 14 21 23.7  
Kurile Islands (h = N).

" 28 Ud eP 14 45 13

" 28 Up iP 15 33 20.6  
Ki eP 15 33 03  
Ud iP 15 33 29.4  
Mindoro (h = 45 km).

" 28 Up iP 16 20 47.3  
Ud iP 16 20 55.6

" 28 Ki iP 17 00 15.2  
Sk iP 17 00 34.2  
Um iP 17 00 03.4  
Ud iP 17 00 21.7  
Hindu Kush (h = 90 km).

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

1972				1972			
May 28	Up	i(PKP)	18 30 40.9	May 29	(cont.)		
	Ki	iPKP	18 30 33.5		Ki	iP	19 15 25.9
	Um	i(PKP)	18 30 36.9		Sk	eP	19 15 44
		iPKP	18 30 40.7		Um	iP	19 15 15.6
		iSKP	18 33 11.6		Ud	iP	19 15 33.3
	Ud	i(PKP)	18 30 38.3		De	iP	19 15 30.2
		i(PKP)	18 30 41.2		Hindu Kush (h = 240 km).		
		iPKP	18 30 51.5	" 29	Up	iPKP	19 23 55.3
		iSKP	18 33 26.6			ipPKP	19 24 00.4
	De	i(PKP)	18 30 49.3		Ud	iPKP	19 23 56.4
	Fiji Islands (h = 620 km).					ipPKP	19 24 01.7
" 28	Ud	iP	19 51 08.8		De	epPKP	19 24 09
" 28	Up	iPKP	19 55 55.4		Tonga-Kermadec Islands. h = 20 km (Up,Ud).		
	Ud	iPKP	19 55 56.8	" 29	Ud	iP	20 48 16.2
	De	iPKP	19 56 06.1	" 30	Up	eP	06 45 40
" 28	Up	iP	21 55 52.0			iPP	06 47 09.5
	Ud	iP	21 55 55.0		Ki	iP	06 45 49.0
" 29	Up	ePKP	01 06 18				micr sec
	Um	iPKP	01 06 00.2			P	Z' 0.1 1.3
	Ud	ePKP	01 06 13		Sk	iP	06 46 06.6
" 29	Up	iP	02 59 56.4		Um	iP	06 45 38.5
	Ud	iP	03 00 05.5		Tadzhik SSR (h = N).		
" 29	Um	i(P)	05 13 43.1	" 30	Up	iP	08 02 11.8
" 29	Ud	iP	07 41 56.4		Ud	iP	08 02 25.6
	Hindu Kush. Intermediate depth.			" 30	Up	eSgl	09 26 30
" 29	Up	iP	08 00 27.1		Ud	iPgl	09 25 08.0
	Ud	iP	08 00 32.8			iSgl	09 25 38.1
	Kurile Islands (h = 30 km).				De	iPn	09 25 16.2
" 29	Um	i(P)	10 04 39.9			iSgl	09 26 00.2
" 29	Ud	iP	10 21 48.1		Skagerrak, 58.7°N, 10.5°E. Origin time = 09 24 29. Explosion.		
" 29	Up	iP	12 36 06.6	" 30	Up	iSgl	09 26 49.2
	Ud	iP	12 36 12.7		Ud	iPgl	09 25 27.9
	De	iP	12 36 30.0			iSgl	09 25 58.0
" 29	Up	iSgl	13 27 04.0		De	iPn	09 25 36.2
	Um	iSgl	13 27 09.8			iSgl	09 26 20.4
	De	e(Sgl)	13 28 36		Skagerrak, 58.7°N, 10.5°E. Origin time = 09 24 49. Explosion.		
	Western USSR. Explosion.			" 30	Up	iSgl	09 27 11.2
" 29	Um	iP	18 43 03.0		Ud	iSgl	09 26 19.4
	Ud	iP	18 43 31.5		De	iSgl	09 26 42.1
" 29	Up	iP	19 15 17.1		Skagerrak, 58.7°N, 10.5°E. Origin time = 09 25 11. Explosion.		
	(cont.)			" 30	Up	iPKP	10 02 17.0
					(cont.)		

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

1972				1972			
May	30	(cont.)		May	30	Up eP	23 11 16
		Um	iPKP 10 02 07.9				
		Ud	iPKP 10 02 19.6	"	31	Ki iPP	02 56 27.7
"	30	Up	iSgl 10 06 31.2			Sk iP	02 54 49.1
		Ud	iPgl 10 05 12.8			Tadzhik SSR.	
			iSn 10 05 40.1	"	31	Up iSn	11 09 47.2
			iSgl 10 05 44.4			iSgl	11 09 59.1
		De	iPgl 10 05 15.0			Ki eSgl	11 12 29
			iSgl 10 05 45.8			Sk eSgl	11 11 48
			iRg 10 05 58.2			Um iSgl	11 10 32.3
		Skagerrak, 58.2°N, 10.9°E.				Ud iSgl	11 11 02.7
		Origin time = 10 04 32.				De iSgl	11 11 27.7
		Explosion.				Esthonia, 59.5°N, 25.0°E.	
"	30	Up	iP 10 25 42.2			Origin time = 11 08 00.	
						Explosion.	
"	30	Up	iP 10 42 47.1	"	31	Ki i(Sgl)	11 37 47.7
		Ki	iP 10 42 18.0			Um i(Sgl)	11 39 03.5
		Um	iP 10 42 25.2	"	31	Up iSgl	12 37 38.0
		Ud	iP 10 42 53.4			Um iSgl	12 37 49.9
		De	iP 10 43 04.7			Ud iSgl	12 38 34.2
		Mariana Islands.				Western USSR.	
"	30	Up	iSgl 13 02 35.4			Explosion.	
		De	iSgl 13 00 53.8	"	31	Ki iP	13 08 24.9
		Baltic Sea, south of Sweden.				Ud iP	13 08 57.6
		Explosion.		"	31	Ud i(PKP)	13 22 20.6
"	30	Up	iSgl 13 02 54.9			De i(PKP)	13 22 33.5
		Ud	iS* 13 02 53.1	"	31	Um iSgl	15 38 10.1
			iSgl 13 02 57.7			Ud iSgl	15 39 37.2
		De	iSgl 13 01 11.6			Lake Ladoga region.	
		Baltic Sea, south of Sweden,				Explosion.	
		55.5°N, 15.0°E.		"	31	Sk iP	18 05 31.1
		Origin time = 13 00 35.				Um iP	18 05 38.9
		Explosion.				Turkey.	
"	30	Um	iP 13 08 34.3				
		Ud	iP 13 08 45.2				
"	30	Up	iP 18 59 54.2				
		Ki	iP 18 59 25.9				
		Sk	eP 18 59 30				
		Um	iP 18 59 54.3				
"	30	Um	i(P) 19 27 50.4				
"	30	Up	iP 20 00 03.3				
		Ki	eP 20 00 02				
		Um	iP 20 00 10.4				
		Ud	iP 19 59 46.2				
		North Atlantic Ocean (h = N).					
"	30	Up	iP 20 22 49.3 C				
			micr sec				
		P	Z' 0.1 1.3				
		Ud	eP 20 23 03				

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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, 1972  
.....

1972					1972				
June	1	Um	iP	00 28 39.1	June	1	(cont.)		
		Ud	iP	00 29 11.2			Ki	iP	06 43 59.7
"	1	Up	iP	03 19 31.1			Um	iP	06 44 06.6
			ipP	03 19 40.3			Ud	iP	06 44 29.5
				micr sec			Luzon.		
		P	Z'	0.1 1.0			Origin time =	06 32 00.	
		Ki	iP	03 18 39.0	"	1	Up	iP	07 01 09.3
			ipP	03 18 48.5			Ki	iP	07 00 49.5
				micr sec			Ud	iP	07 01 18.4
		P	Z'	0.1 1.3			Luzon.		
		Sk	eP	03 19 09			Origin time =	06 48 48.	
		Um	iP	03 19 04.9	"	1	Ki	iP	08 19 43.8
			ipP	03 19 15.0			Um	iP	08 19 56.2
		Ud	iP	03 19 30.4			Ud	iP	08 20 19.4
			ipP	03 19 39.6			Volcano Islands (h =	210 km).	
		De	iP	03 19 52.9	"	1	Ud	iP	09 44 20.3
			ipP	03 20 02.0			Kurile Islands (h =	90 km).	
		Aleutian Islands.			"	1	Sk	e(Sgl)	12 02 32
		h = 35 km (Up,Ki,Um,Ud,De).					Um	i(Sgl)	12 02 11.2
		m = 5.9 (Up,Ki).			"	1	Ud	iP	12 10 57.2
"	1	Ud	iP	06 29 30.3	"	1	Up	iP	12 56 40.4
"	1	Ud	iPKP	06 43 04.1			Ki	iP	12 55 57.7
		De	iPKP	06 43 15.4			Um	iP	12 56 16.3
		Tonga Islands (h = N).					Ud	iP	12 56 47.1
"	1	Up	iP	06 43 36.9			De	iP	12 57 04.3
		Ki	iP	06 43 17.2			Sea of Japan (h =	160 km).	
				micr sec	"	1	Up	iP	13 48 57.7
		P	Z'	0.1 1.0			Aegean Sea.		
		Sk	iP	06 43 41.2	"	1	Sk	i(Pgl)	14 49 39.7
		Um	iP	06 43 23.4				i(Sgl)	14 49 42.1
			iS	06 53 26	"	1	Ud	iP	15 08 35.6
		Ud	iP	06 43 45.9					
		Luzon (h = 45 km).							
"	1	Up	iP	06 44 20.6					
		(cont.)							



1972					1972				
June	1	Um	iP	15 29 13.5	June	2	(cont.)		
"	1	Ki	ePgl iSgl iRg	15 50 44 15 50 56.3 15 50 59.7			Um	iSgl	13 00 55.3
							Nordland, Norway, 66.5°N, 13.8°E. Origin time = 12 58 55. Explosion.		
"	1	Ud	iP	17 38 42.5	"	2	Up	iSgl	13 26 10.5
							Ud	iSgl	13 26 53.8
							De	iPn	13 25 26.1
"	2	Up	iP	00 19 30.5				iSgl	13 26 17.6
		Um	iP	00 19 44.3			Baltic Sea, 57.0°N, 19.8°E. Origin time = 13 24 34. Explosion.		
		Ud	eP	00 19 46					
		De	iP	00 19 29.5					
							Iran. Origin time = 00 12 03.		
"	2	Ud	iP	02 02 36.0	"	2	Up	iP	14 28 01.5
							Ki	iP	14 27 20.3
							Um	iP	14 27 40.7
"	2	Ud	iP	02 36 57.8			Ud	iP	14 28 08.7
							De	eP	14 28 26
							Japan (h = 70 km).		
"	2	Ud	iP	04 30 02.3	"	2	Up	iP1	15 14 31.2
							Ki	eP2	15 13 55
							Sk	eP1	15 14 23
							Um	iP1	15 14 10.3
"	2	Um	iP	04 30 09.1				iP2	15 14 17.7
		Ud	iP	04 30 29.3			Ud	iP1	15 14 39.5
								iP2	15 14 44.2
"	2	Ud	iP	05 19 12.9			De	eP2	15 15 02
							Japan (h = 60 km).		
"	2	Ud	iP	06 38 59.8	"	2	Up	eP	16 58 29
							Sk	e(P)	16 58 35
							Ud	iP	16 58 44.6
							Tibet.		
"	2	Up	iSgl	12 05 37.6	"	2	Ki	eSgl	17 37 42
		Ki	e(Sgl)	12 08 12			Sk	eSgl	17 37 45
		Sk	eSgl	12 07 25			Um	iSgl	17 38 08.9
		Um	iSgl	12 06 09.9			Nordland, Norway. Explosion.		
		Ud	eSgl	12 06 40	"	2	Um	iP	19 21 50.3
		De	iSgl	12 07 05.7	"	2	Ki	iP	20 42 50.3
							Ud	iP	20 43 14.1
							India-China (h = N).		
					"	2	Up	iP	21 57 42.4
							Ki	eP	21 56 51
							Um	iP	21 57 16.7
							Ud	iP	21 57 43.6
							Aleutian Islands (h = 50 km).		
"	2	De	i(Pn) i(Sgl)	12 09 47.9 12 10 38.0	"	2	Up	iP	23 03 02.0 C
								i	23 03 04.6
							(cont.)		
							(cont.)		
"	2	De	e(Pn) i(Sgl)	12 12 04 12 12 54.4					
							Probably an event from the same area and of the same type as the one on June 2, 13 24.		
"	2	De	e(Pn) i(Sgl)	12 12 04 12 12 54.4					
							Probably an event from the same area and of the same type as the one on June 2, 13 24.		
"	2	Ki	eSgl	13 00 26					
		Sk	eSgl	13 00 30					
							(cont.)		

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

1972				1972			
June	2	(cont.)		June	3		
		Up	micr sec			Um	eP 06 05 37
		P	Z' 0.1 0.8	"	3	Ud	eP 07 23 43
		Ki	iP 23 03 03.1 C				Formosa (h = 60 km).
		i	23 03 05.0	"	3	Up	iP1 08 28 49.0
		P	Z' 0.2 0.8			Ki	iP1 08 29 26.2
		Sk	iP 23 03 17.6			Um	iP1 08 29 02.7
		i	23 03 19.9			Ud	iP1 08 29 04.1
		Um	iP 23 02 59.4 C				iP2 08 29 08.2
		i	23 03 01.6			De	iP2 08 28 51.4
		Ud	iP 23 03 13.3 C				Iran.
		i	23 03 15.7				Origin time = 08 21 21.
		ipP	23 03 27.2	"	3	Ud	iP 11 03 28.9
		De	iP 23 03 11.2 C				North Atlantic Ocean
		i	23 03 13.7				(h = N).
		ipP	23 03 27.3	"	3	Up	eSgl 11 59 43
		Sumatra.				Um	iSgl 12 00 02.9
		h = 55 km (Ud,De).				Ud	iSgl 12 00 46.1
		m = 6.1 (Up,Ki).				De	eSgl 12 01 13
		Double P, in average 2.4					Western USSR.
		sec apart.					Explosion.
"	3	Up	iP 02 28 53.5 C	"	3	Up	i(Pgl) 14 08 54.3
			micr sec				i(Sgl) 14 08 55.8
		Mx	N 0.8 18				iRg 14 08 57.0
		Mx	Z 0.5 15				Sonic boom.
		Ki	iP 02 28 27.9	"	3	Up	iP 14 26 15.9
		Sk	eP 02 28 55			Um	iP 14 25 55.9
		Um	eP 02 28 38			Ud	eP 14 26 24
		Ud	iP 02 29 02.0				South of Japan (h = 70 km).
		Ryukyu Islands (h = N).		"	3	Um	i(P) 15 18 32.2
"	3	Up	iPn 03 33 38.0	"	3	Ud	eP 15 47 53
		iPgl	03 33 44.8				Aleutian Islands (h = 50 km).
		i	03 34 13.1	"	3	Ki	iP 18 50 10.6
		iSn	03 34 19.9			Sk	iP 18 49 39.4
		iS*	03 34 27.9			Ud	eP 18 49 28
		iSgl	03 34 31.0			De	iP 18 49 26.9
		Ki	iSgl 03 37 10.2				North Atlantic Ocean (h = N).
		Sk	eSn 03 35 45	"	3	Up	iPKP 18 50 20.5
		iSgl	03 36 22.0			Ki	iPKP 18 50 03.3
		Um	iPn 03 33 56.2			Sk	iPKP 18 50 18.9
		iPgl	03 34 07.2			Um	iPKP 18 50 13.3
		iSn	03 34 51.3			Ud	ePKP 18 50 22
		iSgl	03 35 10.2			De	iPKP 18 50 29.0
		Ud	iPn 03 34 04.2				Santa Cruz Islands (h = 45 km).
		iSn	03 35 07.9	"	3	Um	iPKP 19 05 24.2
		iSgl	03 35 30.6				Santa Cruz Islands (h = 55 km).
		De	iPn 03 34 18.3	"	4	Ud	eP 03 45 26
		iSn	03 35 29.0				
		Off coast of Esthonia,					
		59.5°N, 24.3°E.					
		Origin time = 03 32 44.					
		The records of our stations					
		do not exhibit the					
		characteristics otherwise					
		typical for explosions in					
		this area.					

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

1972				1972					
June	4			June	4	(cont.)			
		Up	eP	05 17 12		Um	iPKP	21 53 51.1	
		Ud	iP	05 16 54.6		Ud	iPKP	21 53 58.8	
				North Atlantic Ocean (h = N).			i	21 54 03.9	
"	4	Um	i(P)	07 20 05.7		De	iPKP	21 54 04.1	
"	4	Sk	eP	07 38 43				South of Kermadec Islands (h = 35 km).	
"	4	Ud	iP	08 03 10.4	"	4	Um	eP	22 32 09
		De	iP	08 03 32.0			Ud	iP	22 32 12.9
"	4	Um	iP	10 23 15.6	"	5	Ki	iP	00 47 56.9
		Ud	eP	10 23 17			Um	i(P)	00 47 43.6
				Indian Ocean (h = N).			Ud	iP	00 47 46.0
"	4	Ki	iP	10 36 38.6					Iran.
				micr sec	"	5	Up	iPKP	00 50 01.6
		Mx	E	0.8 18			Ki	ePKP	00 49 47
		Mx	N	0.7 18			Sk	ePKP	00 49 57
		Mx	Z	0.9 20			Um	iPKP	00 49 51.9
		Um	iP	10 36 24.0			Ud	iPKP	00 50 04.4
		Ud	eP	10 36 25	"	5	Up	iP	10 49 47.6
				Indian Ocean (h = N).			i	10 49 51.7	
"	4	Up	ePKP	12 45 13			P	Z' 0.1 0.9	
		Sk	iPKP	12 45 08.1			Ki	eP	10 51 03.6
		Um	i(PKP)	12 45 00.3			Sk	iP	10 50 35.2
			iPKP	12 45 05.6			Um	iP	10 50 29.1
		Ud	ePKP	12 45 15			Ud	iP	10 49 55.5
				South of Kermadec Islands (h = 25 km).			i	10 49 59.2	
"	4	Ud	iP	16 34 30.5			iS	10 54 00.5	
				Turkey (h = 15 km).			De	eP	10 49 20
									Greece (h = 70 km).
"	4	Up	iP3	16 59 35.4	"	5	Up	iSg1	18 27 50.8
		Ki	eP1	16 59 25			Sk	e(Sg1)	18 28 32
		Sk	eP3	16 59 19			Um	iSg1	18 29 27.6
		Um	iP1	16 59 27.1			Ud	iPgl	18 26 25.4
			iP2	16 59 34.6				iSg1	18 26 58.5
			iP3	16 59 42.1				i(Sg2)	18 27 02.5
		Ud	iP3	16 59 25.8			De	ePgl	18 26 32
		De	iP1	16 59 08.9				iSn	18 27 03.2
			iP3	16 59 25.3				iSg1	18 27 11.6
				North Atlantic Ocean (h = N).					Skagerrak, 58.5°N, 10.2°E. Origin time = 18 25 40. Explosion.
"	4	Um	iP	18 50 37.3	"	5	Up	iSg1	18 33 14.3
"	4	Up	iPKP	21 27 18.9			Sk	e(Sg1)	18 34 00
			i	21 27 23.0			Um	iSg1	18 34 56.5
		Sk	iPKP	21 27 12.8			Ud	iPgl	18 31 49.4
		Um	iPKP	21 27 06.9				iSg1	18 32 23.7
		Ud	iPKP	21 27 20.5				i(TPgl)	18 32 36.1
		De	iPKP	21 27 29.0			De	ePgl	18 31 56
"	4	Up	ePKP	21 54 01				iSg1	18 32 31.0
		Ki	ePKP	21 53 41					Skagerrak, 58.4°N, 10.2°E. Origin time = 18 31 05. Explosion.
				(cont.)					

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

1972				1972			
June				June			
5	Up	iSgl	18 35 34.8	6	(cont.)		
	Ud	iSgl	18 34 46.4		Up		micr sec
	Skagerrak, probably from the same area as the preceding events. Explosion.				P	Z'	0.1 0.9
"	5	Up	iSgl 18 36 19.4		Ki	iP	02 29 44.5 C
		Ud	iSgl 18 35 28.2			iPcP	02 30 29.8
		De	ePgl 18 34 54				micr sec
			eSgl 18 35 31		Um	P	Z' 0.1 1.1
	Skagerrak. Origin time = 18 34 10. Explosion.					iP	02 30 10.5
"	5	Up	iSn 18 49 25.3			ipP	02 30 25.2
			iSgl 18 49 42.4			iPcP	02 30 45.7
			iSg2 18 49 48.9		Ud	iP	02 30 38.2
		Sk	e(Sgl) 18 50 29			iPcP	02 31 03.4
		Um	iSgl 18 51 20.6		De	iP	02 30 59.9
		Ud	iPgl 18 48 15.9			ipP	02 31 14.7
			iSgl 18 48 50.4		Aleutian Islands. h = 55 km (Up,Um,De). m = 6.0 (Up,Ki).		
		De	iSgl 18 48 57.9	"	6	Up	iP 04 51 21.5
	Skagerrak, 58.3°N, 10.0°E. Origin time = 18 47 32. Explosion.					Ki	iP 04 51 20.9
"	5	Up	iSgl 18 53 09.0				ipP 04 51 34.1
		Ud	iPgl 18 51 42.8			Um	iP 04 51 17.8
			iSgl 18 52 17.6			Ud	eP 04 51 31
		De	iSgl 18 52 25.2				ipP 04 51 44.9
	Skagerrak, 58.4°N, 10.1°E. Origin time = 11 50 59. Explosion.					De	eP 04 51 30
"	5	Up	iSgl 18 53 46.6		Sumatra. h = 50 km (Ki,Ud).		
		Ud	iSgl 18 52 55.4	"	6	Up	iP 05 34 10.5 C
		De	iSgl 18 53 02.5				ipP 05 34 21.7
	Skagerrak, 58.4°N, 10.2°E. Origin time = 18 51 37. Explosion.						iS 05 40 52
"	5	Ud	iPKP 22 57 12.6				micr sec
		De	iPKP 22 57 22.8			pP	Z' 0.2 1.5
"	5	Up	eP 23 29 53			Mx	E 1.5 16
		Ki	iP 23 29 53.2			Mx	N 1.0 14
		Um	iP 23 29 49.7			Mx	Z 2.7 17
		Ud	eP 23 30 04		Ki	iP	05 34 33.9 C
	Sumatra (h = N).					ipP	05 34 44.6
"	5	Ud	iPKP 22 57 12.6			iS	05 41 40
		De	iPKP 22 57 22.8				micr sec
"	5	Up	eP 23 29 53			P	Z' 0.1 1.3
		Ki	iP 23 29 53.2			pP	Z' 0.3 1.5
		Um	iP 23 29 49.7			Mx	E 0.7 16
		Ud	eP 23 30 04			Mx	N 0.8 14
	Sumatra (h = N).					Mx	Z 0.6 14
"	6	De	iPKP 00 18 00.4		Um	iP	05 34 26.3 C
	Fiji Islands (h = 550 km).					iS	05 41 17
"	6	Up	iP 02 30 37.4 C		Ud	iP	05 33 56.4 C
			ipP 02 30 52.3		De	iP	05 33 50.7 C
	(cont.)				North Atlantic Ocean. h = 40 km (Up,Ki). m = 6.1, M = 5.1 (Up,Ki).		
"	6	Up	eP 10 53 51	"	6	Up	eP 10 53 51
		Ki	eP 10 52 50			Ki	eP 10 52 50
	Kamchatka (h = N).				Kamchatka (h = N).		

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

1972				1972			
June	6	Ki eP	14 31 08	June	7	(cont.)	
		North Atlantic Ocean (h = N).				Um eP	05 36 56
"	6	Up iP	18 02 22.5 C			iS	05 47 16
		iPP	18 04 00.3			Ud eP	05 37 22
		Ki iP	18 02 59.2 C			Luzon (h = 15 km).	
			micr sec			M = 5.5 (Up,Ki).	
		Mx E	0.5 13	"	7	Um iP	11 19 47.8
		Mx N	0.5 11	"	7	Up iPKP	11 59 13.4
		Mx Z	0.5 12			Sk iPKP	11 59 07.1
		Sk iP	18 02 57.0 C			Um iPKP	11 59 01.6
		Um iP	18 02 36.2 C			Ud iPKP	11 59 14.2
		iPP	18 04 14.5			De iPKP	11 59 24.4
		Ud iP	18 02 37.2 C			Kermadec Islands (h = N).	
		De iP	18 02 21.2	"	7	Up iP	12 14 36.1 C
		i	18 02 48.5			iPP	12 18 39.7
		Iran (h = 55 km).					micr sec
"	6	Ud iP	18 47 02.4			P	Z' 0.1 1.0
"	6	Up eP	19 15 38			Ki iP	12 14 19.9 C
		Ki iP	19 15 17.1			iPP	12 18 12.2
		Sk eP	19 15 41				micr sec
		Um iP	19 15 21.4			P	Z' 0.3 1.0
		Ud iP	19 15 47.2			Sk iP	12 14 40.7 C
		Luzon (h = 45 km).				iPP	12 18 47.3
"	7	Up iP	01 34 52.7 C			Um iP	12 14 25.4 C
		iPn	01 35 58.1			iPP	12 18 21.0
		iPP	01 36 10.8			Ud iP	12 14 44.3 C
			micr sec			De iP	12 14 49.7
		P	Z' 0.1 0.9			Halmahera (h = 150 km).	
		Ki iP	01 34 36.8 C			m = 6.4 (Up,Ki).	
		iPn	01 35 36.9	"	7	Up iP	16 50 40.8
			micr sec			iPcP	16 51 18.9
		P	Z' 0.2 0.6				micr sec
		Sk iP	01 35 08.1 C			P	Z' 0.1 1.0
		iPP	01 36 29.0			Ki iP	16 49 46.8
		Um iP	01 34 37.5 C			Sk iP	16 50 24.7
		iPn	01 35 38.5			Um iP	16 50 12.4
		Ud iP	01 35 09.7 C			Ud iP	16 50 43.2
		De iP	01 35 16.2 C			iPcP	16 51 20.8
		iPP	01 36 43.3			De iP	16 51 06.0
		Kazakh SSR.				Kamchatka (h = 280 km).	
		m = 6.0 (Up,Ki).		"	7	Up iSKP	17 48 56.6
		Underground explosion.				Ki iPKP	17 45 33.1
"	7	Up iP	05 37 11.2			Um iPKP	17 45 39.6
			micr sec			iSKP	17 48 44.1
		Mx E	1.0 17			Ud iSKP	17 49 01.4
		Mx N	1.4 20			De iSKP	17 49 10.4
		Mx Z	1.3 16			New Hebrides Islands	
		Ki eP	05 36 50			(h = 180 km).	
			micr sec	"	7	Um iSKS	23 32 11
		Mx E	0.7 15			Mexico (h = 55 km).	
		Mx N	1.6 17	"	8	De eP	00 34 45
		Mx Z	1.0 17			Dodecanese Islands (h = N).	
		(cont.)					

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

1972				1972					
June	8	Um	iP	04 42 51.0	June	8	Up	eP	09 45 46
"	8	Up	iP	05 06 23.3				iPP	09 46 54.5
		Um	iP	05 06 21.5			Ki	iP	09 46 32.8
		Ud	iP	05 06 40.7					micr sec
		De	eP	05 06 36				P	Z' 0.1 1.0
		Hindu Kush (h = 120 km).					Sk	eP	09 46 25
"	8	Up	i(P)	05 56 20.9			Um	iP	09 46 03.1
								iPP	09 47 24.1
"	8	Up	iP	06 24 26.9			Ud	iP	09 46 02.2
		Ki	iP	06 23 34.4				i	09 46 06.3
				micr sec			De	eP	09 45 43
				P Z' 0.1 1.0			Iran (h = 20 km).		
		Um	iP	06 24 00.7	"	8	Ki	iPn	10 20 15.2
			ipP	06 24 11.9				iPgl	10 20 23.2
		Ud	iP	06 24 26.9				iSn	10 21 01.7
		De	iP	06 24 47.8				iS*	10 21 14.2
		Aleutian Islands. h = 40 km (Um).					Um	iSgl	10 22 51.9
"	8	Up	iP	07 07 45.5			Northwest USSR-Norway border region, 69.8°N, 30.1°E. Origin time = 10 19 14. Explosion.		
		Ki	eP	07 06 53	"	8	Up	iP	10 29 40.0
		Aleutian Islands (h = 45 km).					Ki	iP	10 29 19.3
"	8	Ki	iP	08 08 40.2			Um	iP	10 29 26.7
		Um	iP	08 08 44.0			Ud	iP	10 29 50.1
		Banda Sea (h = 310 km).					Formosa (h = N).		
"	8	Up	iP	09 26 04.0	"	8	Ki	iP	12 52 53.8
			ipP	09 26 16.4			Ud	iP	12 52 24.8
			iS	09 35 54			Iraq.		
				micr sec	"	8	Up	iP	16 18 55.5
				P Z' 0.4 1.4			Ki	iP	16 18 52.9
				pP Z' 0.4 1.3			Sk	iP	16 19 11.7
				Mx E 5.8 14			Um	iP	16 18 50.1
				Mx N 2.7 19			Ud	iP	16 19 09.2
				Mx Z 11 14	"	8	Ud	iPKP	16 34 40.7
		Ki	iP	09 25 43.8			De	iPKP	16 34 49.6
			ipP	09 25 54.8			Fiji Islands (h = 290 km).		
			iS	09 35 18	"	8	Up	eP	16 56 21
				micr sec			Ki	eP	16 56 04
				P Z' 0.2 1.3			Um	iP	16 56 06.8
				pP Z' 0.3 1.3			Ud	iP	16 56 30.7
				Mx E 3.3 17	"	8	Up	iP	17 31 06.5
				Mx N 5.9 21				iPn	17 31 14.3
				Mx Z 1.5 18				iSn	17 35 32.7
		Sk	iP	09 26 09.2				iLg2	17 39 05
		Um	iP	09 25 50.8					micr sec
			ipP	09 26 02.1				Mx	E 0.8 14
			iS	09 35 24				Mx	Z 0.8 15
		Ud	iP	09 26 14.0			Ki	iP	17 31 43.6
			ipP	09 26 25.5			(cont.)		
		De	iP	09 26 22.0					
			ipP	09 26 33.4					
		Formosa. h = 40 km (Up,Ki,Um,Ud,De). m = 6.3, M = 6.0 (Up,Ki).							

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

1972

June 8 (cont.)  
 Ki iPn 17 32 10.1  
 i(Sn) 17 37 38.7  
 micr sec  
 Mx E 0.5 12  
 Mx N 0.8 17  
 Mx Z 0.5 12  
 Sk iPn 17 32 11.7  
 iSn 17 37 11.4  
 iLg2 17 41 08.6  
 Um iP 17 31 18.8  
 i 17 31 21.6  
 iSn 17 36 09.7  
 Ud iP 17 31 24.2  
 i 17 31 26.8  
 iSn 17 36 26.6  
 De iP 17 31 11.2  
 Caucasus (h = 50 km).  
 M = 4.5 (Up,Ki).  
 Double P, in average 2.8  
 sec apart.

" 8 Up eP 18 11 31  
 iPP 18 15 43.1  
 Ki iPP 18 16 11.3  
 iPKKP 18 26 57.5  
 Um ePP 18 16 02  
 iPKKP 18 27 01.4  
 Ud iPP 18 15 40.8  
 Argentina (h = 260 km).

" 8 Up iP 18 21 21.5

" 8 Up eP 19 08 32  
 iPKP 19 12 20.9  
 i 19 13 15  
 iPP 19 13 20.0  
 iPKKP 19 22 59.9  
 iPKKP 19 23 17.4  
 micr sec  
 PKP Z' 0.2 1.5  
 PP Z' 0.7 1.8  
 Mx E 17 20  
 Mx N 17 20  
 Mx Z 37 20  
 Ki ePKP 19 12 25  
 iPP 19 13 47.4  
 iPKKP 19 22 44.0  
 iPKKP 19 23 11.7  
 micr sec  
 PKP Z' 0.4 1.5  
 PP Z' 0.4 1.5  
 Mx E 18 22  
 Mx N 18 24  
 Mx Z 15 21  
 Sk iPKP 19 12 20.0  
 Um iP 19 08 41  
 (cont.)

1972

June 8 (cont.)  
 Um iPKP 19 12 23.9  
 i 19 13 32  
 iPP 19 13 41.9  
 iPKKP 19 22 50.7  
 iPKKP 19 23 16.7  
 De iPKP 19 12 16.1  
 Chile (h = 40 km).  
 m = 7.0, M = 6.9 (Up,Ki).

" 8 Up iPP 19 41 47.6  
 micr sec  
 PP Z' 0.1 1.5  
 Ki iPKP 19 40 51.6  
 micr sec  
 PKP Z' 0.1 1.5  
 Sk iPKP 19 40 47.4  
 Um iPKP 19 40 48.8  
 Chile (h = 55 km).

" 8 Um iP 19 45 15.1

" 8 Up iP 23 19 55.3  
 i 23 19 59.6  
 Ki iP 23 19 47.7  
 i 23 19 51.9  
 Sk iP 23 20 11.9  
 i 23 20 15.6  
 Um iP 23 19 47.2  
 i 23 19 51.0

Tibet (h = 60 km).  
 Double P, in average 4.0  
 sec apart.

" 9 Up iPKP 00 39 14.8  
 iX 00 39 36.6  
 micr sec  
 Mx N 0.5 18  
 Mx Z 0.6 18  
 Ki iX 00 39 24.1  
 micr sec  
 Mx E 0.5 19  
 Mx N 0.5 20  
 Mx Z 0.9 22  
 Sk iX 00 39 33.6  
 Um ePKP 00 39 06  
 iX 00 39 29.7  
 De iPKP 00 39 27.8  
 Tonga Islands (h = N).  
 M = 5.4 (Up,Ki).

" 9 Up iP 04 10 47.4  
 Um iP 04 10 43.0  
 Mexico (h = 140 km).

" 9 Ki iPKP 07 03 38.7  
 Um iPKP 07 03 31.5  
 South Sandwich Islands  
 (h = N).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary			
1972			
June 9	Up	iP	07 47 47.1
		ipP	07 47 56.4
		iS	07 52 22
			micr sec
	Mx	E	1.6 11
	Mx	N	2.1 11
	Mx	Z	3.2 12
	Ki	iP	07 48 54.2
			micr sec
	P	Z'	0.1 0.9
	Mx	E	1.2 12
	Mx	N	2.0 14
	Mx	Z	1.3 13
	Sk	iP	07 48 26.2
	Um	iP	07 48 18.9
	De	iP	07 47 24.4
		iPP	07 47 47.7
	Crete.		
	h = 40 km (Up).		
	M = 5.1 (Up,Ki).		
"	9	Ud	i(P) 10 30 14.5
"	9	Ki	Mx 10 49
			micr sec
		Mx	E 0.7 19
		Mx	N 0.4 18
	Easter Island region (h = N).		
"	9	Um	iSgl 12 46 00.5
			iRg 12 46 36.3
	Western USSR. Explosion.		
"	9	Up	iPKP 18 47 38.1
		Ud	iPKP 18 47 40.8
		De	ePKP 18 47 50
"	9	Ud	iP 19 48 32.7
		De	iP 19 48 13.8
	Iraq.		
"	9	Ud	iP 20 39 50.7
"	9	Ud	iP 22 27 12.9
	Ionian Islands.		
"	10	Um	eP 02 54 10
"	10	Up	iP 03 41 13.3
		i	03 41 15.3
			micr sec
		P	Z' 0.3 1.5
	Ki	iP	03 40 17.7
		i	03 40 20.6
	(cont.)		
1972			
June 10	(cont.)		
	Ki		micr sec
	P	Z'	0.4 1.1
	Mx	E	0.4 13
	Mx	N	0.5 15
	Mx	Z	0.6 14
	Um	iP	03 40 46.4 C
		i	03 40 48.9
		iS	03 48 26
	Ud	iP	03 41 08.0
		i	03 41 11.3
	De	eP	03 41 33
		i	03 41 35.4
	Canada (h = N). m = 6.2 (Up,Ki). Double P, in average 2.6 sec apart.		
"	10	Up	eP 03 46 46
		Ud	iP 03 46 54.3
"	10	Ud	iP 06 55 37.7
"	10	Up	iP 08 14 34.0
		Ki	iP 08 13 46.7
		Um	iP 08 14 07.9
		Ud	iP 08 14 40.1
		De	iP 08 14 57.9
	Kurile Islands (h = 140 km).		
"	10	Ki	iPn 10 29 54.3
			iPgl 10 30 02.5
			iSn 10 30 40.5
			iS* 10 30 52.9
		Um	iSgl 10 32 28.7
	Northwest USSR-Norway border region, 69.7°N, 30.2°E. Origin time = 10 28 53. Explosion.		
"	10	Up	iP 10 45 20.8
		Ud	iP 10 45 29.5
"	10	Up	eP 11 37 32
		Ki	eP 11 37 51
		Um	iP 11 37 35.7
		Ud	iP 11 37 47.3
		De	eP 11 37 40
	Pakistan (h = 15 km).		
"	10	Ki	iPKP 12 40 54.4
		Um	iPKP 12 41 11.5
		Ud	ePKP 12 41 25
		De	iPKP 12 41 35.0
	Tonga Islands (h = 60 km).		
"	10	Ki	iP 14 59 39.6
	(cont.)		



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

1972

June	10	(cont.)			
		Um	iP	14 59	48.8
		Ud	eP	14 59	40
"	10	Ki	iP	19 38	57.6 C
		Um	eP	19 38	32
		Ud	iP	19 38	28.2 C
		De	iP	19 38	09.5
		Iran-Iraq (h = N).			
"	10	Um	iP	22 45	38.0
		Ud	iP	22 46	04.1
		Gulf of Alaska (h = N).			
"	11	Ud	ePKP	04 50	36
		De	iPKP	04 50	46.0
		Tonga Islands (h = N).			
"	11	Ki	iP	12 23	02.7
		Ud	iP	12 22	36.2
"	11	Ki	e(Sn)	13 05	33
			iSgl	13 05	48.8
		Um	i(Sn)	13 06	14.8
			iSgl	13 06	39.4
"	11	Up	ePKP	14 49	10
			eSKP	14 52	48
		Ki	iSKP	14 52	23.9
		Um	ePKP	14 49	04
			iSKP	14 52	36.4
		Ud	iPKP	14 49	10.4
			iSKP	14 52	49.6
		De	iPKP	14 49	21.6
			iSKP	14 52	58.8
		Tonga Islands (h = 80 km).			
"	11	Up	iP	16 10	59.2
		Um	eP	16 11	24
		Ud	iP	16 10	28.4
		De	iP	16 10	32.7
			iS	16 12	33.6
		United Kingdom. Underwater explosion.			
"	11	Up	iP	16 53	46.1
			ipP	16 55	03
			iPP	16 57	47.1
			iPPP	16 59	54.6
			iSKS	17 03	53
			iS	17 04	28
			iSP	17 05	56.2
				micr	sec
		P	Z'	1.4	0.9
		PP	Z'	4.4	1.5
		Mx	E	120	19
		Mx	N	110	21
		Mx	Z	180	21
		(cont.)			

1972

June	11	(cont.)			
		Ki	iP	16 53	31.9
			ipP	16 54	47
			iPP	16 57	19.2
			iS	17 04	02.4
				micr	sec
		P	Z'	3.5	1.0
		PP	Z'	15	2.0
		Mx	E	180	21
		Mx	N	230	23
		Mx	Z	140	21
		Sk	iP	16 53	52.3
			ipP	16 57	56.8
			iPPP	17 00	08.8
			iSP	17 06	04.5
		Um	iP	16 53	36.2
			iSKS	17 03	57
		Ud	iP	16 53	54.6
			iPPP	17 00	11.4
		De	iP	16 54	00.0
			iSP	17 06	20.5
		Celebes Sea. h = 320 km (Up,Ki). m = 7.4, M = 7.7 (Up,Ki). M uncorrected for focal depth. Clear G-wave pulse recorded on long-period instruments.			
"	11	Um	iP	17 31	06.0
"	11	Up	iP	17 36	18.9
		Um	iP	17 36	08.3
		Ud	iP	17 36	27.0
		De	iP	17 36	32.9
		Celebes Sea. Origin time = 17 23 34.			
"	11	Ud	iP	17 53	40.3
"	11	Up	ePKP	18 17	46
		Ud	iPKP	18 17	46.4
"	11	Sk	eP	18 33	44
		Um	eP	18 34	01
		Ud	iP	18 33	51.5
		Guatemala (h = 50 km).			
"	11	Ki	iP	18 50	52.6
		Um	iPKP	18 55	02.8
		Ud	ePKP	18 55	12
		De	iPKP	18 55	16.4
		New Guinea (h = 150 km).			
"	11	Up	iSgl	20 32	35.3
		Sk	iSgl	20 32	08.9
		Um	iSgl	20 33	36.1
		(cont.)			

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

1972

June 11 (cont.)  
 Ud iSgl 20 31 30.1  
 De iSgl 20 32 17.7  
 Southern Norway,  
 59.9°N, 7.3°E.  
 Origin time = 20 29 51.  
 By combination with  
 Kongsberg and Bergen  
 readings.

" 11 Up iP 21 23 54.4  
 Ki iP 21 23 13.7  
 Um iP 21 23 31.4  
 Ud iP 21 24 02.2  
 De iP 21 24 17.6  
 Japan (h = 100 km).

" 11 Um iP 21 43 10.8

" 11 Ki iSgl 21 55 22.7  
 Um iSgl 21 56 51.0  
 Northwest USSR.  
 Explosion.

" 11 Ki iSgl 21 58 19.6  
 Um eSgl 21 59 54  
 Northwest USSR.  
 Explosion.

" 11 Um iP 23 33 31.3  
 Ud iP 23 34 02.9

" 11 Ud iP 23 38 26.0

" 11 Ud iP 23 42 23.8

" 11 Ud iP 23 44 37.8

" 12 Up iP 01 04 22.2  
 Ki iP 01 04 08.5 C  
 iP 01 14 15.1  
 micr sec  
 PKP Z' 0.2 0.5  
 Sk iP 01 04 19.5 C  
 iP 01 05 18.2  
 Um iP 01 04 14.3 C  
 iP 01 05 12.3  
 iP 01 14 03.0  
 iP 01 14 39.6  
 i(SKKP) 01 17 22.4  
 Ud i(PKP) 01 04 07.1  
 iP 01 04 23.7  
 iP 01 05 21.7  
 iP 01 13 43.1  
 iP 01 14 30.6  
 e(SKKP) 01 17 25  
 De i(PKP) 01 04 14.3  
 (cont.)

1972

June 12 (cont.)  
 De iP 01 04 30.2 C  
 iSKP 01 07 36.6  
 Santa Cruz Islands.  
 h = 230 km (Sk,Um,Ud).

" 12 Up iP 04 31 59.9  
 i 04 32 02.6  
 iS\* 04 32 19.9  
 iSgl 04 32 21.8  
 Ki eSgl 04 35 45  
 Sk iSgl 04 33 25.3  
 Um iSgl 04 33 52.2  
 i 04 33 54.8  
 Ud iP 04 31 39.1  
 i 04 31 41.5  
 iSgl 04 31 44.4  
 i 04 31 46.9  
 iSn 04 31 51.8  
 De iSgl 04 33 23.6  
 Central Sweden,  
 60.1°N, 14.5°E.  
 Origin time = 04 31 33.  
 Felt.  
 Double Pgl- and Sgl-phases  
 (Up,Um,Ud) could suggest two  
 events, about 2.6 sec apart.

" 12 De iP 09 50 04.6  
 Tonga-Kermadec Islands  
 (h = N).

" 12 Um i(PKP) 10 03 24.2  
 Ud i(PKP) 10 03 35.2

" 12 Up iP 10 09 13.3  
 micr sec  
 P Z' 0.1 1.0  
 Ki iP 10 09 13.9 D  
 iSKS 10 19 43  
 micr sec  
 P Z' 0.1 1.0  
 Mx E 0.9 25  
 Mx N 0.4 20  
 Mx Z 0.9 22  
 Sk iP 10 08 59.9 D  
 Um iP 10 09 16.6 D  
 iSKS 10 19 44  
 Ud iP 10 09 03.8 D  
 De iP 10 09 06.1 D  
 South of Panama (h = 25 km).  
 m = 6.0 (Up,Ki).

" 12 Up iP 11 30 23.4  
 Ki iP 11 30 04.0  
 Ud iP 11 30 32.8  
 Luzon.  
 Origin time = 11 18 00.

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

1972

June 12 Up iP 11 32 07.1  
iS 11 42 21  
micr sec  
P Z' 0.1 0.9  
Mx E 0.6 17  
Mx N 0.9 17  
Mx Z 0.9 17  
Ki iP 11 31 47.5 C  
iS 11 41 45  
micr sec  
P Z' 0.1 1.0  
Mx E 0.5 12  
Mx N 1.3 22  
Mx Z 0.5 12  
Sk iP 11 32 11.5  
Um iP 11 31 54.1 C  
iS 11 41 58  
Ud iP 11 32 16.6 C  
De iP 11 32 23.1  
Luzon (h = N).  
m = 6.0, M = 5.3 (Up,Ki).

" 12 Up iP 12 50 01.0  
Um iP 12 50 14.1

" 12 Up iP 13 40 30.7  
iS 13 45 43  
micr sec  
P Z' 0.1 0.9  
Mx E 3.6 21  
Mx N 6.1 20  
Mx Z 3.4 17  
Ki iP 13 41 15.3 C  
iS 13 47 05  
iSS 13 49 30  
micr sec  
P Z' 0.3 0.9  
Mx E 2.4 13  
Mx N 3.0 14  
Mx Z 2.7 17  
Sk iP 13 41 09.3  
Um iP 13 40 48.4  
iS 13 46 14  
Ud iP 13 40 46.0 C  
De iP 13 40 26.7 C  
Iran-Iraq (h = N).  
m = 5.9, M = 5.4 (Up,Ki).

" 12 Up iP 13 46 29.2  
Ki iP 13 47 13.6 C  
micr sec  
P Z' 0.1 0.8  
Sk iP 13 47 06.7  
Um iP 13 46 46.5  
Ud iP 13 46 44.6  
De iP 13 46 25.6 C  
Iran-Iraq (h = N).

1972

June 12 Um iSgl 15 34 16.9  
Ud eSgl 15 34 46  
Esthonia.  
Explosion.

" 12 Ud iP 17 05 29.6

" 12 Ud iP 17 11 54.0

" 12 Up iP 19 58 26.6  
iPcP 19 58 55.5  
eP'P' 20 26 46

micr sec  
P Z' 0.2 1.2  
Mx E 2.7 20  
Mx N 7.2 20  
Mx Z 9.0 19  
Ki iP 19 57 34.0  
iPa 20 01 12  
iS 20 05 34  
eP'P' 20 27 10

micr sec  
P Z' 0.1 1.0  
Mx E 6.1 21  
Mx N 5.3 18  
Mx Z 6.1 18

Sk iP 19 58 03.6  
iPcP 19 58 40.4  
Um iP 19 58 00.3  
iPcP 19 58 37.9  
iScP 20 02 38.8  
iS 20 06 25  
iP'P' 20 26 59.8  
Ud iP 19 58 25.5  
eP'P' 20 26 50  
De iP 19 58 48.0  
iPcP 19 59 12.0

Aleutian Islands (h = 45 km).  
m = 6.0, M = 5.9 (Up,Ki).

" 12 Um iP 20 57 10.3

" 13 Up iP 01 02 08.6  
micr sec  
Mx E 0.7 15  
Mx N 1.1 20  
Mx Z 0.9 16

Ki iP 01 02 53.0  
i 01 02 53.8  
iS 01 08 42

micr sec  
P Z' 0.2 0.7  
Mx E 0.6 13  
Mx N 0.8 14  
Mx Z 0.7 15

Sk iP 01 02 46.9  
Um iP 01 02 25.7

(cont.)

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

1972				1972			
June	13	(cont.)		June	13	(cont.)	
		Um	i 01 02 26.8			Up	iSgl 12 40 36.9
		Ud	iP 01 02 23.6			Ki	eSgl 12 43 15
			i 01 02 24.7			Sk	eSgl 12 42 29
		De	iP 01 02 04.3			Um	iSgl 12 41 13.3
			i 01 02 05.3			Ud	eSn 12 41 14
			Iran-Iraq (h = 25 km).				eSgl 12 41 39
			M = 4.7 (Up,Ki).			De	iSgl 12 42 04.9
			Double P, in average 1.0				Esthonia, 59.5°N, 24.6°E.
			sec apart.				Origin time = 12 38 45.
							Explosion.
"	13	Ud	iP 02 05 29.2	"	13	Um	iP 13 27 30.7
"	13	Ki	eP 06 54 02	"	13	Um	iP 17 11 20.2
		Ud	iP 06 55 04.0	"	13	Up	iPKP 17 18 16.4 C
"	13	Up	eP 08 00 26				micr sec
		De	eP 08 00 19			PKP	Z' 0.4 1.4
			Colombia (h = 160 km).			Mx	E 0.6 20
"	13	Ki	ePn 08 01 43			Mx	N 0.7 19
			iSn 08 02 28.9			Mx	Z 0.8 19
			iSgl 08 02 42.8			Ki	iPKP 17 18 02.8 C
			Northwest USSR-Norway				micr sec
			border region.			PKP	Z' 0.1 1.3
			Explosion.			Mx	E 0.5 19
"	13	Um	iSgl 10 02 41.9			Mx	N 1.1 20
		Ud	eSgl 10 03 10			Mx	Z 1.2 20
			Esthonia.			Sk	iPKP 17 18 09.3 C
			Explosion.			Um	iPKP 17 18 04.2 C
"	13	Up	iP 10 54 14.9			Ud	iPKP 17 18 18.7 C
			micr sec			De	iPKP 17 18 27.2 C
		Mx	E 1.3 17				Kermadec Islands (h = 45 km).
		Mx	N 1.6 15				M = 5.7 (Up,Ki).
		Mx	Z 1.4 17	"	13	Um	iP 18 35 06.7
		Ki	iP 10 53 27.2			Ud	eP 18 35 35
			micr sec	"	13	Um	iP 19 57 10.1
		Mx	E 1.4 14				Mexico (h = 130 km).
		Mx	N 2.6 12	"	13	Ud	iP 20 41 21.7
		Mx	Z 1.5 16	"	13	Ud	iP 22 24 41.5
		Sk	iP 10 54 07.8	"	13	Up	eP 22 30 40
		Um	iP 10 53 47.7			Ki	eP 22 30 20
		Ud	iP 10 54 24.5			Um	iP 22 30 26.9
		De	iP 10 54 42.7			Ud	iP 22 30 49.0
			Eastern Siberia (h = N).	"	13	Up	iPKP 22 51 07.2
			M = 5.4 (Up,Ki).			Sk	iPKP 22 50 59.7
"	13	Um	iSgl 11 31 49.2			Um	ePKP 22 51 04
			Esthonia.			Ud	iPKP 22 51 08.1
			Explosion.			De	iPKP 22 51 16.6
"	13	Um	iP 11 59 21.2				i 22 51 29.0
			Hindu Kush (h = 210 km).				
"	13	Up	i(Sn) 12 40 25.6				
			(cont.)				

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

1972

June 14 Ki iP 00 56 22.9  
iPn 00 57 23.4  
Sk eP 00 56 21  
Um iP 00 56 01.2  
ipP 00 56 14.2  
Ud iP 00 56 08.6  
ipP 00 56 20.4  
De i(pP) 00 56 07.8

Caspian Sea.

h = 45 km (Um,Ud).

" 14 Up iP 01 02 25.6  
micr sec  
P Z' 0.1 0.9  
Ki iP 01 01 29.2  
ipP 01 02 04.8  
micr sec  
P Z' 0.1 0.8  
Sk eP 01 01 58  
Um iP 01 01 57.3  
iP'P' 01 32 02.7  
Ud iP 01 02 22.3  
De iP 01 02 46.6

Alaska.

h = 150 km (Ki).

m = 5.7 (Up,Ki).

" 14 Ki ePKP 04 13 02  
New Hebrides Islands  
(h = 25 km).

" 14 Um iP 04 29 18.0

" 14 Up iP 04 40 58.7 C  
micr sec  
Mx E 0.4 14  
Mx N 0.5 20  
Mx Z 0.6 16  
Ki iP 04 41 43.2 C  
ipP 04 41 49.0  
iS 04 47 33.0  
micr sec  
P Z' 0.2 0.9  
Mx E 0.6 16  
Mx N 0.7 18  
Mx Z 0.4 13  
Sk iP 04 41 36.3 C  
Um iP 04 41 15.7 C  
ipP 04 41 21.6  
Ud iP 04 41 14.1 C  
ipP 04 41 19.7  
iS 04 46 39.8  
De iP 04 40 55.1 C  
ipP 04 41 00.5

Iran-Iraq.

h = 20 km (Ki,Um,Ud,De).

M = 4.5 (Up,Ki).

1972

June 14 Up i 06 10 39.5  
Ki i 06 10 43.6  
Sk iPKP 06 10 24.3  
Ud iPKP 06 10 32.6  
De iPKP 06 10 41.7

" 14 Ud iPKP 06 22 19.0  
De iPKP 06 22 30.6

" 14 Ki iPKP2 07 10 40.8  
Um iPKP2 07 10 39.6  
Ud ePKP2 07 10 44  
West of Macquarie Islands  
(h = N).

" 14 Um iP 07 44 52.1

" 14 Ud iP 08 11 53.2

" 14 Up eSgl 10 06 53  
Ud iPn 10 05 33.6  
iPgl 10 05 35.8  
iSgl 10 06 06.6  
iRg 10 06 14.0  
De iPgl 10 05 35.9  
iSgl 10 06 05.8

Off coast of Bohuslän,  
Sweden.

Origin time = 10 04 57.

Explosion?

" 14 Up ePKP 13 43 16  
Sk iPKP 13 43 05.7  
i 13 43 15.6  
Um iPKP 13 43 10.5  
Ud iPKP 13 43 15.1  
De iPKP 13 43 23.6

" 14 Um iP 15 36 31.0

" 14 Up iP 17 16 03.1  
i 17 16 17.7  
Um iP 17 15 46.3  
Ud iP 17 16 12.1  
De eP 17 16 25  
Japan (h = 70 km).

" 14 Up iP 18 38 51.9  
ipP 18 39 04.0  
Ki iP 18 38 13.3  
ipP 18 38 25.6  
Um iP 18 38 30.4  
ipP 18 38 41.6  
Ud iP 18 38 59.1  
ipP 18 39 11.0

Japan.

h = 45 km (Up,Ki,Um,Ud).

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

1972

June 14 Up iP 18 59 47.8  
micr sec  
P Z' 0.1 1.2  
Mx E 1.9 13  
Mx N 1.5 12  
Mx Z 2.4 13  
Ki iP 19 01 15.5  
micr sec  
P Z' 0.1 1.3  
Mx E 2.5 16  
Mx N 1.1 13  
Mx Z 0.9 11  
Sk iP 19 00 28.5  
Um iP 19 00 35.2  
iS 19 04 15  
Ud iP 18 59 48.4  
De iP 18 58 57.2  
iS 19 01 32.2  
iLg2 19 03 13.9  
Italy (h = 15 km).  
m = 5.0, M = 4.8 (Up,Ki).

" 14 Up iP 21 04 54.9  
Ki iP 21 06 22.3  
Um iP 21 05 40.0  
Ud iP 21 04 55.5  
De iP 21 04 03.2  
Italy (h = 5 km).

" 14 Ud iP 22 04 05.6  
Atlantic Ocean.

" 15 Up iP 00 38 12.4  
ipP 00 38 19.0  
iS 00 42 07  
micr sec  
pP Z' 0.2 1.2  
Mx E 1.1 12  
Mx N 2.1 15  
Mx Z 1.9 13  
Ki eP 00 39 28  
micr sec  
Mx E 2.5 16  
Mx N 1.8 13  
Mx Z 1.5 14  
Sk iP 00 38 54.0  
Um iP 00 38 51.9  
iS 00 43 17  
Ud iP 00 38 20.0  
ipP 00 38 26.5  
iS 00 42 28.5  
De iP 00 37 44.2  
Greece.  
h = 25 km (Up,Ud).  
M = 5.0 (Up,Ki).

" 15 Ki iP 00 42 31.8  
Um iP 00 42 25.0

1972

June 15 Ki iP 00 49 30.5  
Ud iP 00 49 55.5

" 15 Ki iPKP 01 32 42.5  
Tonga Islands (h = N).

" 15 Up iPKP 03 16 10.4  
Ud iPKP 03 16 12.4  
De ePKP 03 16 23

" 15 Up iP 03 55 50.8  
Um iP 03 55 34.3

" 15 Up ePKP 04 09 34  
Um iPKP 04 09 19.1  
Ud ePKP 04 09 36  
De iPKP 04 09 44.1  
Kermadec Islands.  
Origin time = 03 49 51.

" 15 Up iPKP 04 10 04.2  
micr sec  
PKP Z' 0.1 0.9  
Ki ePKP 04 09 47  
Sk iPKP 04 09 57.6  
Um iPKP 04 09 52.5  
Ud iPKP 04 10 06.6 C  
De iPKP 04 10 15.3 C  
i 04 10 28.7  
Kermadec Islands (h = N).

" 15 Up iPKP 04 21 43.0  
Sk ePKP 04 21 36  
Um ePKP 04 21 32  
Ud iPKP 04 21 44.6  
De ePKP 04 21 56  
Kermadec Islands.  
Origin time = 04 02 02.

" 15 Up iPgl 08 40 09.8  
iSgl 08 40 32.3  
Sk iSgl 08 42 03.8  
Um iPgl 08 40 29.8  
iSgl 08 41 08.1  
Ud iPgl 08 40 42.6  
iSgl 08 41 30.1  
De eSgl 08 42 29  
Baltic Sea, 60.8°N, 20.3°E.  
Origin time = 08 39 41.  
Explosion.

" 15 Up iPgl 09 26 15.9  
iSgl 09 26 37.0  
Ki iSgl 09 29 27.8  
Sk eSgl 09 28 10  
Um iPgl 09 26 36.1  
iSgl 09 27 14.5  
(cont.)

1972				1972							
June	15	(cont.)		June	15	Up	i(Sgl)	13 29 49.6			
		Ud	iPn			Ud	i(Sgl)	13 28 51.2			
			ePgl				i	13 28 55.5			
			iSgl			De	i(Sgl)	13 30 23.5			
		De	eSgl			South Norway.					
		Baltic Sea, 60.8°N, 20.3°E.				"	15	Up	iP	13 37 41.2	
		Origin time = 09 25 47.						De	iP	13 37 05.7	
		Explosion.				"	15	Up	iPKP	13 46 42.9	
"	15	Up	iSgl	09 26 58.3	"	15	Ud	iPKP	13 46 44.9		
		Um	iPgl	09 26 57.0			De	iPKP	13 46 54.5		
			iSgl	09 27 35.9			"	15	Ud	iP	14 24 10.6
		Ud	iSgl	09 27 57.0			De	iP	14 23 43.9		
		Baltic Sea, 60.8°N, 20.3°E.				Crete.					
		Origin time = 09 26 07.				"	15	Ud	iP	15 14 13.1	
		Explosion.				"	15	Ud	iP	15 29 53.4	
"	15	Ud	iP	09 29 40.3	"	15	De	eP	15 29 43		
"	15	Sk	eP	09 30 58	"	15	Up	iP	15 32 16.5 C		
		Um	iP	09 30 55.8			ipP	15 32 38.1			
		Ud	iP	09 30 22.4			P	Z' 0.2 1.0			
		Greece (h = 80 km).				Ki	iP	15 31 33.2 C			
"	15	De	e(Pgl)	10 13 31			P	Z' 0.1 1.0			
			i(Sgl)	10 13 39.8			Sk	iP	15 32 08.0 C		
"	15	Ud	iP	10 28 04.1			ipP	15 32 30.6			
"	15	Ud	iP	11 00 16.8			Um	iP	15 31 52.4 C		
		De	iP	11 00 36.5			Ud	iP	15 32 24.0 C		
"	15	Ki	iP	12 01 47.5			ipP	15 32 46.0			
"	15	Um	iSgl	12 03 55.8			De	iP	15 32 40.2 C		
		Ud	eSgl	12 04 20			ipP	15 33 02.1			
		De	eSgl	12 04 56			Japan.				
		Esthonia.				h = 80 km (Up,Sk,Ud,De).					
		Explosion.				m = 5.9 (Up,Ki).					
"	15	Up	iP	12 05 17.0	"	15	Up	eP	17 37 27		
		Ki	iP	12 05 13.5			Um	eP	17 37 37		
		Sk	eP	12 05 27			Ud	eP	17 37 39		
		Ud	iP	12 05 26.0			Indian Ocean (h = N).				
			i	12 05 41.8	"	15	Up	iP	17 37 50.2		
		De	iP	12 05 25.2			Sk	iP	17 38 22.7		
		Sunda Strait (h = 90 km).					Ud	iP	17 38 02.2		
"	15	Up	ePKP	12 59 27			Greece.				
		Ud	iPKP	12 59 31.1	"	15	Up	iP	23 05 46.1		
		De	iPKP	12 59 39.4			Ki	eP	23 05 29		
"	15	Up	eSgl	13 11 40				micr sec			
		Um	iSgl	13 11 48.2			P	Z' 0.1 1.0			
		De	eSgl	13 13 01			Um	eP	23 05 37		
		Western USSR.					Ud	iP	23 05 53.9		
		Explosion.					Mindanao (h = 100 km).				





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

1972					1972				
June	17	Um	iP	17 17 35.9	June	18	Up	iSgl	09 21 59.0
"	17	Up	iS*	19 01 41.6			Ki	iPn	09 17 44.1
			iSgl	19 01 48.0				iSn	09 18 41.5
		Ki	e(Sg2)	19 02 37				iSg2	09 19 11.0
		Um	iS*	19 01 12.1			Sk	eSgl	09 21 30
			iSgl	19 01 14.4			Um	iSn	09 19 23.6
		Ud	iSn	19 02 00.7				iSgl	09 19 58.0
			eS*	19 02 42			Ud	iSgl	09 22 32.2
			iSgl	19 02 49.8			De	eSgl	09 23 57
		De	eSgl	19 03 31			Northwest USSR, 67.9°N, 33.7°E.		
		Lake Ladoga, 61.3°N, 31.1°E.					Origin time = 09 16 28.		
		Explosion.					Explosion.		
"	17	Up	eP	19 29 19	"	18	Up	iP	13 14 04.1
		Ud	iP	19 29 26.6			Ki	iP	13 13 46.6
		Kurile Islands (h = 60 km).			"	18	Ki	iP	16 52 27.8
"	17	Up	iPKP	22 53 48.5			Iraq.		
			i	22 53 54.8	"	18	Um	iP	19 56 38.9
		Sk	ePKP	22 53 39	"	19	Up	iP	01 13 41.0 C
		Um	iPKP	22 53 37.1				ipP	01 13 56.8
		Ud	iPKP	22 53 50.5					micr sec
			i	22 53 58.6			P	Z'	0.2 1.0
		De	iPKP	22 54 01.3			Mx	N	1.3 23
			i	22 54 11.7			Mx	Z	1.7 21
		Kermadec Islands (h = 70 km).					Ki	iP	01 12 47.5 C
"	18	Up		micr sec					micr sec
		Mx	E	0.9 18			P	Z'	0.1 0.9
		Mx	Z	1.0 19			Mx	E	1.5 20
		Um	iPKP	01 19 57.7			Mx	N	1.0 19
		South Pacific Ocean (h = N).					Mx	Z	0.9 16
"	18	Up	iP	04 39 39.4 D			Sk	iP	01 13 21.5
		Ki	eP	04 39 41			Um	iP	01 13 13.4 C
		Ud	iP	04 39 54.9 D				ipP	01 13 29.0
"	18	Up	iSgl	06 25 39.4			De	iP	01 14 04.3
		Ki	iPn	06 21 25.1			Aleutian Islands.		
			iSn	06 22 22.3			h = 55 km (Up,Um).		
			iS*	06 22 42.6			m = 6.0, M = 5.3 (Up,Ki).		
			iSgl	06 22 46.7	"	19	Up	ipP	01 20 14.5
		Sk	eSgl	06 25 10			Ki	eP	01 19 11
		Um	iSn	06 23 03.4				ipP	01 19 21.7
			iS*	06 23 32.8			Um	eP	01 19 35
			iSgl	06 23 39.2			Aleutian Islands.		
		Ud	iSgl	06 26 15.2			h = 40 km (Ki).		
		De	eSgl	06 27 36	"	19	Up	iP	01 44 49.3
		Northwest USSR, 67.9°N, 33.7°E.							micr sec
		Explosion.					P	Z'	0.1 0.9
"	18	Ki	iP	07 13 03.1 C			Ki	eP	01 44 32
		Mariana Islands (h = 110 km).						i	01 44 40.3
							Sk	eP	01 44 56
							Um	iP	01 44 38.1
							Mindoro (h = 50 km).		

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

1972				1972			
June	19	Up	iP	01 45 43.1	June	19	(cont.)
"	19	Up	iP	01 54 17.0			Ki iP 12 19 56.5
				micr sec			Sk iP 12 19 29.2
			P	Z' 0.1 1.0			Um iP 12 20 02.9
			Mx	E 1.0 18			North Atlantic Ocean (h = N).
			Mx	N 1.5 21	"	19	Up iP 15 24 01.6 C
			Mx	Z 1.4 17			iP 15 24 11.8
		Ki	iP	01 53 22.3			micr sec
			i	01 53 28.2			P Z' 0.2 0.9
				micr sec			Ki iP 15 23 09.5 C
			P	Z' 0.1 1.0			iP 15 23 21.2
			Mx	E 3.0 17			micr sec
			Mx	N 1.3 17			P Z' 0.1 1.0
			Mx	Z 3.1 18			Sk eP 15 23 40
		Sk	eP	01 53 59			iP 15 23 49.5
		Um	iP	01 53 48.4			Um iP 15 23 35.1 C
				Komandorsky Islands (h = N).			i 15 23 48.5
				m = 5.9, M = 5.4 (Up,Ki).			De iP 15 24 23.7
"	19	Up	eP1	06 06 21			Aleutian Islands.
			iP2	06 06 24.0			h = 40 km (Up,Ki,Sk).
			iP3	06 06 28.4			m = 6.1 (Up,Ki).
			iS	06 10 52			
				micr sec	"	19	Up iSgl 15 45 53.6
			P2	Z' 0.1 1.0			Ki eSgl 15 48 05
			P3	Z' 0.1 0.9			Sk eSgl 15 47 41
			Mx	E 1.2 20			Um iSgl 15 46 17.5
			Mx	N 1.8 20			De i(Sgl) 15 47 26.0
			Mx	Z 2.3 21			Western USSR.
		Ki	iP1	06 06 21.1			Explosion.
			iP2	06 06 23.2	"	19	Ki iP 15 58 35.0
			iP3	06 06 28.0			
				micr sec	"	19	Ki eP 18 18 16
			P2	Z' 0.1 0.9			Kurile Islands (h = N).
			P3	Z' 0.1 0.9			
			Mx	E 1.8 15			
			Mx	N 1.2 18			
			Mx	Z 1.6 15			
		Sk	iP2	06 05 52.1	"	19	Up iP 21 58 47.9
		Um	iP1	06 06 24.5			De iP 21 59 00.4
			iP2	06 06 27.2	"	20	Up
				North Atlantic Ocean (h = N).			micr sec
				m = 5.5, M = 4.7 (Up,Ki).			Mx E 0.5 19
				Multiple P. In average:			Mx N 0.8 19
				P2 - P1 = 2.6 sec, P3 - P1 =			Mx Z 1.1 20
				= 7.3 sec.			Ki i(PKP2) 02 02 20.3
				If P3 is interpreted as pP,			iPKP2 02 02 34.8
				the focal depth is 25 km.			micr sec
"	19	Ki	iPKP	12 08 38.8			PKP2 Z' 0.1 1.2
		Sk	iPKP	12 08 50.0			Mx E 0.6 18
		Um	iPKP	12 08 44.9			Mx N 1.4 20
				New Hebrides Islands			Mx Z 1.4 20
				(h = 35 km).			Sk ePKP2 02 02 42
"	19	Up	eP	12 20 00			Um iPKP2 02 02 27.6
				(cont.)			De iPKP2 02 02 26.2
							Southwest of Macquarie Islands
							(h = N).
							M = 5.8 (Up,Ki).

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

1972				1972			
June	20	Sk eP	02 46 38	June	21	Up eP	03 49 04
		De eP	02 45 36			Ki eP	03 47 27
		Crete.				Sk eP	03 48 16
"	20	Up iP	04 25 54.4			Um iP	03 48 16.6
		Ki iP	04 24 59.3			Ud iP	03 48 53.6
		ipP	04 25 24.9			Greenland Sea (h = N).	
		Sk eP	04 25 29	"	21	Ki iP	05 12 07.9
		Um iP	04 25 29.2			Um iP	05 11 32.1
		De iP	04 26 16.7			De iP	05 10 36.8
		ipP	04 26 42.5			Turkey (h = N).	
		Alaska.		"	21	Um i(P)	09 01 42.1
		h = 100 km (Ki,De).		"	21	Ud iP	09 21 36.5
"	20	Up iP	05 33 43.1 C	"	21	Ki iPn	11 36 54.3
		iPP	05 35 27.3			iSn	11 37 53.7
			micr sec			iS*	11 38 12.5
		P	Z' 0.1 0.8			Sk eSgl	11 40 41
		Ki iP	05 33 51.1 C			Um i(S*)	11 39 01.4
		Sk iP	05 34 08.2 C			iSgl	11 39 06.0
		Um iP	05 33 40.9 C			Northwest USSR,	
		iPP	05 35 23.3			67.6°N, 34.1°E.	
		De iP	05 33 56.5 C			Origin time = 11 35 35.	
		Afghanistan-USSR (h = 110 km).				Explosion.	
"	20	Up ePKP	10 37 44	"	21	Ud iPgl	11 37 38.0
		Sk ePKP	10 37 41			iSgl	11 37 55.8
		Um ePKP	10 37 37			De iSgl	11 38 28.8
		Santa Cruz Islands				Väner region, Sweden.	
		(h = 140 km).				Origin time = 11 37 15.	
"	20	Up iP	10 43 39.0	"	21	Ud i(Sgl)	15 13 00.9
		Ki eP	10 42 59			De i(Sgl)	15 11 10.3
		Um iP	10 43 15.9	"	21	Up eP	15 41 21
		De iP	10 44 02.6			ipP	15 41 31.3
		Sea of Japan (h = 420 km).					micr sec
"	20	Ud iP	13 39 00.9			P	Z' 0.1 1.3
"	20	Ki iP	14 12 33.0			pP	Z' 0.1 1.1
		Ud iP	14 12 42.5			Mx	E 3.0 16
		Afghanistan-USSR (h = 130 km).				Mx	N 3.1 16
"	20	Ki iP	15 30 45.4			Mx	Z 5.0 17
		Java (h = 90 km).				Ki iP	15 40 47.7
"	20	Um iP	17 19 41.9			ipP	15 40 57.2
"	20	Up eP	18 39 08				micr sec
		Ki iP	18 38 49.5			pP	Z' 0.1 1.1
		Um iP	18 38 50.8			Mx	E 7.3 19
		i	18 39 28.6			Mx	N 5.5 19
		Ud iP	18 39 13.4			Mx	Z 7.6 18
		Talaud Islands (h = 80 km).				Sk iP	15 41 29.8
"	21	Ud e(P)	02 51 21			Um iP	15 41 01.0
						ipP	15 41 12.0
						Ud iP	15 41 30.0
						ipP	15 41 40.1

(cont.)

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

1972				1972			
Date	Time	Station	Time	Date	Time	Station	Time
June	21	(cont.)		June	23	Um	iP 02 00 26.7
		De	ipP 15 41 53.0			Ud	eP 02 00 52
		Japan.				"	23 Ud eP 02 42 33
		h = 40 km (Up,Ki,Um,Ud).				"	23 Ki eP 04 21 05
		m = 5.9, M = 5.9 (Up,Ki).					Sk eP 04 20 33
"	21	Up	iP 19 20 51.3				Ud eP 04 21 10
		Um	iP 19 20 51.1			Iceland.	
		Ud	iP 19 20 41.5			"	23 Up eP 06 55 37
"	22	Um	eP 02 46 10				Ki iP 06 56 38.9
		Ud	iP 02 46 41.8				Um iP 06 56 08.2
		Kurile Islands.					Ud iP 06 55 47.6
"	22	Up	iP 06 07 26.8				De iP 06 55 22.0
		Ki	iP 06 06 30.7			Turkey (h = N).	
		Sk	iP 06 06 58.0			"	23 Up iP 08 46 07.1
		Um	iP 06 06 59.3				Ki iP 08 46 51.9 C
		Alaska (h = 50 km).					Um iP 08 46 25.2
"	22	Ki	eP 06 19 51				Ud iP 08 46 22.5 C
			micr sec				De iP 08 46 03.3 C
		Mx	E 0.5 14			Iran-Iraq (h = 40 km).	
		Mx	N 0.4 12			"	23 Up iP 09 00 04.0
		Mx	Z 0.5 12				Ki iP 08 59 28.3
		Ud	eP 06 20 32				Sk eP 09 00 02
		Japan (h = 50 km).					Um iP 08 59 43.1
"	22	Ki	iPn 10 30 45.1				i 09 00 12.7
			iSn 10 31 33.6				Ud iP 09 00 11.4
			iSgl 10 31 47.9				De eP 09 00 27
		Um	iSgl 10 33 19.6			Japan (h = 70 km).	
		Northwest USSR-Norway border				"	23 Um iP 09 05 34.1
		region, 69.6°N, 30.7°E.					Ud iP 09 05 42.6
		Origin time = 10 29 41.				"	23 Up iSgl 11 27 09.0
		Explosion.					Ud ePn 11 25 30
"	22	Up	iPKP 11 03 49.5				eSn 11 26 16
		Sk	ePKP 11 03 42				iSgl 11 26 28.2
		Um	iPKP 11 03 37.1			De	ePn 11 25 18
		Ud	iPKP 11 03 50.6				eSn 11 25 50
		De	iPKP 11 03 59.2			Northern Denmark,	
		Kermadec Islands (h = 60 km).				57.2°N, 9.4°E.	
"	22	Um	i(P) 11 33 03.3			Origin time = 11 24 35.	
"	22	Up	iP 14 52 31.9			"	23 Up i 12 23 29.2
		Ki	iP 14 50 52.2				iSgl 12 23 51.2
			i 14 51 01.5			Um	iSgl 12 24 01.5
		Sk	eP 14 51 49			Ud	iS* 12 24 41.4
		Um	iP 14 51 45.0				iSgl 12 24 48.8
		Ud	iP 14 52 21.9			De	eSgl 12 25 12
			i 14 52 31.0			Western USSR,	
		Greenland Sea.				59.2°N, 29.6°E.	
"	22	Ud	iP 19 49 52.2			Origin time = 12 20 39.	
						Explosion.	

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

1972				1972					
June	23	Um	eP	13 06 38	June	24	(cont.)		
"	23	Up	iSgl	13 33 35.8		Um	iPP	07 22 51.9	
		Um	eSgl	13 33 53		Ud	iP	07 21 46.0	
		Ud	iSgl	13 34 34.6		De	eP	07 21 11	
		Western USSR.				Yugoslavia (h = N).			
		Explosion.			"	24	Up	iP	07 34 09.5
"	23	Up	iP	14 23 12.9			Um	iP	07 34 05.4
		Ki	iP	14 22 19.2 C			Ud	iP	07 34 26.5
				micr sec			Tadzhik SSR (h = 190 km).		
		P	Z'	0.1 1.0	"	24	Up	i(P)	09 35 11.2
		Sk	eP	14 22 49			Ud	iP	09 34 28.1
		Um	iP	14 22 46.5			i		09 34 45.2
		Ud	iP	14 23 11.5 C	"	24	Ki	ePn	09 59 44
		De	iP	14 23 34.0			iSn		10 00 30.1
		Aleutian Islands (h = 25 km).					iSgl		10 00 46.9
"	23	Ki	iSKP	16 26 45.1			Northwest USSR-Norway border region.		
		Ud	iPKP	16 24 18.0			Explosion.		
		De	iPKP	16 24 27.8	"	24	Up	iSgl	11 09 39.8
		Fiji Islands (h = 600 km).					Um	iSgl	11 09 56.3
"	23	Up	iP	16 41 23.5 C			Ud	i	11 10 31.2
				micr sec			iSgl		11 10 39.9
		P	Z'	0.1 0.9			Western USSR.		
		Ki	iP	16 40 51.3 C			Explosion.		
				micr sec	"	24	Ki	i(Sn)	12 16 44.9
		P	Z'	0.1 0.9			i(Sgl)		12 17 06.7
		Sk	iP	16 41 22.0 C			Um	e(Sgl)	12 18 04
		Um	iP	16 41 04.9 C			Northwest USSR.		
		iPcP		16 41 18.1			Explosion.		
		Ud	iP	16 41 31.4 C	"	24	Ud	iP	12 34 20.4
		De	eP	16 41 43	"	24	Ud	eP	13 18 03
		South of Japan (h = 510 km).			"	24	Up	iPKP	15 24 02.3
		m = 5.3 (Up,Ki).					Tonga Islands (h = N).		
"	23	Ud	iP	17 21 08.4	"	24	Up	iP	15 36 57.9 D
		Turkey.					iPP		15 38 27
"	23	Ud	iP	19 40 02.3			iS		15 43 04
"	23	Ki	iPKP	19 51 10.5			iSa		15 45 18
		Um	iPKP	19 51 16.6				micr sec	
		New Hebrides Islands					P	Z'	0.6 0.9
		(h = 200 km).					PP	Z'	0.9 1.1
"	24	Ud	iP	02 42 32.1			Mx	E	47 14
"	24	Ud	iP	06 15 56.6			Mx	N	38 14
"	24	Ud	iP	07 04 49.2			Mx	Z	83 14
"	24	Up	iP	07 21 44.6			Ki	iP	15 37 08.4 D
		Ki	eP	07 23 17			ipP		15 37 22.6
		Sk	eP	07 22 28			iPP		15 38 47
		Um	iP	07 22 29.1			iS		15 43 24
		(cont.)					(cont.)		

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

1972

June	24	(cont.)		micr	sec
		Ki			
		P	Z'	1.2	1.8
		Mx	E	44	11
		Mx	N	29	8
		Mx	Z	35	11
		Sk	iP	15 37	24.9 D
		Um	iP	15 36	57.3 D
			iPP	15 38	21
			i	15 38	37
			iS	15 43	03
		Ud	iP	15 37	15.0 D
			iPP	15 38	55.4
		De	iP	15 37	10.5 D
			iPP	15 38	54.1
		Hindu Kush.			
		h = 50 km (Ki).			
		m = 6.4, M = 6.7 (Up,Ki).			
"	24	Up	iP	18 04	00.8
		Off coast of Oregon (h = N).			
"	24	Up	iP	18 42	37.9
		Sk	eP	18 43	02
		Um	eP	18 42	38
		Ud	eP	18 42	52
		Hindu Kush (h = 100 km).			
"	24	Ud	eP	19 01	01
"	24	Up	eP	21 25	38
		Um	eP	21 25	38
		Ud	iP	21 25	51.2
		Hindu Kush (h = N).			
"	24	Up	iP	23 07	57.8
		Ud	iP	23 08	14.7
		Hindu Kush (h = N).			
"	24	Up	iP	23 33	18.6 C
			ipP	23 34	16.4
			iPP	23 37	25.0
				micr	sec
		PP	Z'	0.1	1.3
		Ki	iP	23 33	03.3 C
			ipP	23 33	59.8
				micr	sec
		P	Z'	0.3	1.1
		Mx	N	0.4	18
		Sk	iP	23 33	24.2
		Um	iP	23 33	08.4 C
			ipP	23 34	04.4
		Ud	iP	23 33	27.1 C
			ipP	23 34	21.1
			isP	23 34	47.7
		De	iP	23 33	33.1
		(cont.)			

1972

June	24	(cont.)			
		De	ipP	23 34	27.6
			iPP	23 37	48.0
		Halmahera.			
		h = 230 km (Up,Ki,Um,Ud,De).			
		m = 6.0 (Up,Ki).			
"	25	Long-period microseisms (periods around 14-15 sec) recorded, especially clear on Umeå LP N-component.			
"	25	Up	iP	05 03	02.3
		Sk	iP	05 03	44.8
		Um	iP	05 03	47.3
		Ud	iP	05 03	04.3
		Yugoslavia (h = N).			
"	25	Up	i(P)	05 52	34.7
"	25	Um	iPKP	06 39	09.5 C
		New Hebrides Islands (h = N).			
"	25	Up	iP	08 03	20.9
			i	08 03	27.7
			iPP	08 04	52.5
				micr	sec
		P	Z'	0.1	0.8
		Ki	eP	08 03	33
				micr	sec
		Mx	N	0.4	12
		Mx	Z	0.4	11
		Sk	iP	08 03	47.4
			iPP	08 05	27.4
		Um	iP	08 03	20.3 C
			iPP	08 04	48.8
		Ud	iP	08 03	37.7 C
			i	08 03	44.8
			ipP	08 03	51.6
			iPP	08 05	16.2
		De	iP	08 03	33.5
			ipP	08 03	47.0
			iPP	08 05	11.8
		Hindu Kush.			
		h = 55 km (Ud,De).			
"	25	Um	iP	14 24	04.6
		Japan (h = 50 km).			
"	25	Up	iPKP	15 52	32.6
		Um	iSKP	15 55	15.7
		Ud	iPKP	15 52	34.9
		De	iPKP	15 52	45.6
		Tonga-Kermadec Islands (h = 520 km).			
"	25	Um	iP	17 15	19.9
		Italy (h = 15 km).			

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

1972				1972			
June	25	Um	iP	17 38 28.2	June	26	(cont.)
"	25	Um	eP	21 33 53			Ud iP 10 16 15.1
				Japan (h = N).			iPcP 10 16 48.5
							ipP 10 17 01.0
"	26	Up	iPKP	00 16 29.4			De iP 10 16 35.8
		Um	iPKP	00 16 27.3			iPcP 10 17 00.9
			iSKP	00 19 14.7			Kamchatka.
		Ud	iPKP	00 16 31.7			h = 200 km (Up,Ki,Ud).
		De	iPKP	00 16 42.2			m = 6.1 (Up,Ki).
				Tonga-Kermadec Islands	"	26	Up iSgl 12 24 15.6
				(h = 460 km).			Um iSgl 12 24 31.3
"	26	Um	iP	00 55 09.3			Ud iSgl 12 25 16.1
		Ud	iP	00 55 28.3			De eSgl 12 25 42
				Hindu Kush (h = 55 km).			Western USSR.
"	26	Up	iP	05 02 38.6			Explosion.
		Ki	eP	05 02 08	"	26	Sk eP 12 37 56
		Um	iP	05 02 21.1			Ud iP 12 37 24.6
		Ud	iP	05 02 46.2			De eP 12 36 53
							Dodecanese Islands (h = 80 km).
"	26	Up	eP	06 37 05	"	26	Ud iP 16 07 47.0
		Ki	eP	06 36 29			De iP 16 07 24.7
		Um	iP	06 36 44.8	"	26	Up iP 16 14 58.3
				Japan (h = 60 km).			micr sec
"	26	Up	iP	08 20 21.6			Ki P Z' 0.3 2.2
				micr sec			Ki iP 16 15 31.2
		Mx	E	1.0 13			micr sec
		Mx	N	0.7 15			P Z' 0.3 2.5
		Mx	Z	1.1 14			Sk eP 16 15 05
		Ki	iP	08 20 02.3			Um eP 16 15 20
				micr sec			Ud iP 16 14 48.1
		P	Z'	0.1 1.3			De iP 16 14 36.9
		Mx	E	1.0 16			Atlantic Ocean (h = N).
		Mx	N	0.7 15			m = 6.1 (Up,Ki).
		Um	iP	08 20 09.8	"	26	Up iP 16 41 59.7
		Ud	iP	08 20 31.2			micr sec
				Formosa (h = N).			Ki P Z' 0.2 2.0
				M = 5.4 (Up,Ki).			Ki iP 16 42 34.0
"	26	Up	iP	10 16 10.2			micr sec
			iPcP	10 16 45.0			P Z' 0.1 1.7
			ipP	10 16 56.7			Um iP 16 42 20.2
				micr sec			Ud iP 16 41 50.4
		P	Z'	0.5 1.1			De iP 16 41 37.6
		Ki	iP	10 15 18.5			Atlantic Ocean (h = N).
			ipP	10 16 04.3			m = 5.8 (Up,Ki).
			iPcP	10 16 15.3	"	26	Up iPKP 18 00 11.6
				micr sec			Ki iSKP 18 02 46.6
		P	Z'	0.3 1.0			Um ipPKP 18 02 05.8
		Sk	iP	10 15 56.1			Ud iPKP 18 00 14.1
			iPcP	10 16 36.3			Tonga-Kermadec Islands
		Um	iP	10 15 43.4			(h = 490 km).
			iPcP	10 16 28.3	"	26	Um iP 21 06 36.8
				(cont.)			(cont.)

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

1972				1972					
June	26	(cont.)		June	27	(cont.)			
		Ud	iP	21 06 55.5		Ud	iP	10 57 37.4	
		Hindu Kush.				De	iP	10 57 30.9	
"	26	Um	iP	21 36 45.1		Pakistan (h = 10 km).			
"	26	Up	eP1	23 40 05	"	Ud	iP	12 25 14.0	
		Ki	iP1	23 39 45.5 C			i	12 25 51.4	
			iP2	23 39 49.1	"	27	Ki	eSgl	13 05 12
		Sk	eP2	23 40 14		Sk	iSgl	13 04 21.8	
		Um	iP1	23 39 52.3		Um	iSgl	13 03 14.3	
			iP2	23 39 55.6		Ud	iSgl	13 03 37.4	
		Ud	iP1	23 40 14.6		Esthonia.			
			iP2	23 40 17.8		Explosion.			
		De	iP2	23 40 21.7	"	27	Ud	iP	14 56 36.3
		Luzon (h = 50 km).			"	27	Up	iP1	16 07 10.2
"	27	Ud	iP	02 04 46.0			iP2	16 07 15.8	
"	27	Ud	iPKP	05 18 38.9				micr sec	
		De	iPKP	05 18 49.6			P2	Z' 0.1 1.2	
"	27	Up	iP	06 48 09.7			Mx	E 0.8 15	
				micr sec			Mx	N 0.3 10	
			P	Z' 0.1 1.2			Mx	Z 1.2 13	
		Ki	iP	06 48 24.4		Ki	iP2	16 07 26.3	
				micr sec				micr sec	
			P	Z' 0.1 1.2			Mx	E 0.8 11	
		Sk	iP	06 48 36.9			Mx	N 0.4 12	
		Um	iP	06 48 11.8			Mx	Z 0.9 11	
		Ud	iP	06 48 25.8		Sk	eP1	16 07 37	
		De	iP	06 48 19.1			iP2	16 07 43.4	
		Pakistan (h = 10 km).				Um	iP1	16 07 09.7	
		m = 5.8 (Up,Ki).					iP2	16 07 14.9	
"	27	De	iPKP	08 36 11.0			iPP	16 08 38.2	
		New Britain (h = 60 km).				Ud	iP1	16 07 26.9	
"	27	Up	iP	09 16 14.3			iP2	16 07 33.3	
		Ki	iP	09 16 05.4		De	eP1	16 07 23	
		Sk	eP	09 16 29			iP2	16 07 29.7	
		Um	iP	09 16 05.4			Hindu Kush (h = 55 km).		
			ipP	09 16 13.7			M = 4.9 (Up,Ki).		
		Ud	iP	09 16 27.9			Double P, in average 6.0		
			ipP	09 16 36.0			sec apart.		
		De	iP	09 16 31.3	"	27	Up	iP	19 52 16.3
		Burma.				Ki	eP	19 52 06	
		h = 30 km (Um,Ud).				Sk	iP	19 51 59.2	
"	27	Up	iP	10 57 21.3		Um	iP	19 52 14.1	
		Ki	iP	10 57 35.9 C		Ud	iP	19 52 08.4	
				micr sec		De	iP	19 52 14.1	
			P	Z' 0.1 1.0	"	27	Ki	eP	23 18 30
		Sk	iP	10 57 48.8		Um	iP	23 18 46.2	
		Um	iP	10 57 23.3		Ud	eP	23 19 14	
			i	10 58 05.8			ipP	23 19 28.4	
		(cont.)				Japan.			
						h = 55 km (Ud).			



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

1972

June 28 Up eP 00 06 33  
Ki eP 00 05 58  
Um iP 00 06 11.5  
Ud iP 00 06 39.4  
Japan (h = 45 km).

" 28 Ki micr sec  
Mx E 0.6 15  
Sk iP 01 48 43.0  
Um iP 01 48 37.8  
Ud eP 01 48 05  
Yugoslavia (h = N).

" 28 Up iP 02 02 04.1 C  
ipP 02 02 19.9  
micr sec  
P Z' 0.1 0.9  
Ki iP 02 01 24.6 C  
micr sec  
P Z' 0.1 0.8  
Sk iP 02 01 58.4 C  
ipP 02 02 15.0  
Um iP 02 01 42.2 C  
i 02 01 45.8  
ipP 02 01 57.7  
Ud iP 02 02 11.5 C  
ipP 02 02 27.4  
De iP 02 02 26.4 C  
Japan.  
h = 60 km (Up,Sk,Um,Ud).  
m = 5.8 (Up,Ki).

" 28 Ud iP 03 10 33.9

" 28 Ud iP 03 19 32.7

" 28 Ki iP KP 06 34 09.4  
Ud ePKP 06 34 26  
De ePKP 06 34 35

" 28 Up iP 08 22 34.8  
Ki iP 08 23 33.8  
Ud iP 08 22 45.1

" 28 Up iP 09 39 30.2 C  
ipP 09 39 45.8  
micr sec  
pP Z' 0.1 1.1  
Ki iP 09 38 53.5 C  
Sk iP 09 39 25.4  
ipP 09 39 41.9  
Um iP 09 39 09.6 C  
ipP 09 39 25.9  
Ud iP 09 39 37.4 C  
ipP 09 39 52.5  
De iP 09 39 51.1  
Japan.  
h = 60 km (Up,Sk,Um,Ud).

1972

June 28 Up iSgl 09 56 58.0  
Ud iSgl 09 57 00.9  
De iPgl 09 54 57.9  
iSgl 09 55 12.4  
Baltic Sea, south of Sweden,  
55.7°N, 15.0°E.  
Origin time = 09 54 40.  
Explosion.

" 28 Up iP2 09 56 19.3 D  
ipP 09 56 24.6  
iS micr sec  
P2 Z' 0.4 1.4  
Mx E 1.2 20  
Mx N 1.4 16  
Mx Z 1.5 16

Ki iP1 09 57 17.2  
iP2 09 57 17.9 D  
ipP 09 57 23.3  
iPP 09 58 51  
micr sec  
P2 Z' 0.4 1.4  
Mx E 1.4 17  
Mx N 2.6 17  
Mx Z 1.5 16

Sk eP1 09 56 56  
iP2 09 56 57.3 D  
Um iP1 09 56 45.0  
iP2 09 56 46.2 D  
ipP 09 56 51.2  
i 09 59 04.9  
eS 10 02 25  
Ud iP2 09 56 29.5 D  
ipP 09 56 34.7  
De iP2 09 56 03.1 D

United Arab Republic.  
h = 15 km (Up,Ki,Um,Ud).  
m = 6.1, M = 5.1 (Up,Ki).  
The small phase P1 precedes  
P2 by about 1.1 sec.

" 28 Up iRg 13 43 00.4  
Ud iSgl 13 43 31.9  
iRg 13 43 45.0  
De iSgl 13 44 15.3  
Off coast of Södermanland,  
Sweden.  
Explosion.

" 28 Up i(Pgl) 13 46 26.7  
i(Rg) 13 46 53.7  
Ud i(Sgl) 13 46 59.9  
De i(Rg) 13 47 32.0  
Central Sweden.  
Explosion.

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

1972				1972							
June	28	Ki	iP	14 01 38.6	June	29	Um	i(P)	07 03 28.8		
		Um	iP	14 02 18.0			"	29	Um	i(P)	08 05 36.3
		Ud	iP	14 02 47.2			"	29	Up	iPKP	08 45 53.0
"	28	Up	iP	15 59 03.8	"	29	Um	iPKP	08 45 43.4 C		
		Ki	iP	15 58 24.7 C			Ud	iPKP	08 45 55.1		
		Sk	iP	15 58 58.6			"	29	Um	iP	08 48 59.0
		Um	iP	15 58 42.2 C					Alternatively, this could be SKP to the preceding event.		
		i		15 58 52.2							
		Ud	iP	15 59 10.8 C							
		De	iP	15 59 25.4							
		Japan (h = 55 km).									
"	28	Ud	eP	18 21 09	"	29	Um	i(Sgl)	12 55 33.3		
"	28	Ki	iSgl	20 37 07.0	"	29	Um	i(P)	13 44 13.5		
		Sk	eSgl	20 37 11	"	29	De	iP	14 01 47.7		
		Um	iSn	20 37 21.3	"	29	De	i(P)	14 04 06.7		
		iSgl		20 37 35.3	"	29	Ud	iP	15 39 50.1		
		Ud	iSg2	20 39 02.7	"	29	Up	iP	15 42 43.9		
		Nordland, Norway, 66.5°N, 14.0°E. Origin time = 20 35 37. Explosion.			"	29	Ud	eP	15 42 55		
"	28	Ud	iP	21 05 15.6	"	29	Up	ePKP	16 40 59		
"	28	Up	eP	21 14 23			Ud	ePKP	16 41 01		
		Ud	iP	21 14 10.1			Solomon Islands (h = 40 km).				
"	28	Ud	iP	21 30 55.1	"	29	Up	iP	17 27 00.9		
"	29	Ud	i(P)	02 39 11.6			iPcP		17 27 33.4		
"	29	Up	eP	03 39 36			Ki	iP	17 26 10.3		
		iPP		03 41 04.3			iPcP		17 27 03.7		
		Ki	eP	03 39 40					micr sec		
		Sk	iPP	03 41 37.8			P	Z'	0.1 0.9		
		Um	iP	03 39 32.2			Sk	iP	17 26 47.0		
		Ud	iP	03 39 53.0			iPcP		17 27 24.9		
		i		03 39 57.2			Um	iP	17 26 34.4		
		De	iP	03 39 50.9			iPcP		17 27 17.2		
		Afghanistan-USSR (h = 55 km).					Ud	iP	17 27 05.6		
"	29	Up	iP	03 56 59.7			iPcP		17 27 35.8		
		Ki	iP	03 56 39.7			De	iP	17 27 25.8		
				micr sec			iPcP		17 27 49.7		
		Mx	E	0.5 18	"	29	Um	iP	19 44 27.8		
		Mx	N	0.4 18	"	29	Ud	iP	20 04 43.8		
		Um	iP	03 56 44.3	"	29	Ud	i(P)	21 44 06.4		
		Ud	iP	03 57 06.8 C	"	30	Long-period microseisms (periods around 15-16 sec) recorded, especially clear on Umeå LP N-component.				
		i		03 57 14.3							
		Samar (h = 70 km).									
"	29	Ud	iP	04 26 01.0							
"	29	Ud	iPKP	05 19 57.2							
		De	ePKP	05 20 08							

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

1972				1972			
June	30			June	30	(cont.)	
		Ud	iP	00 04 18.1			
"	30	Up	eP	04 09 18		Ud	iPKP 12 58 04.7
		Ki	iP	04 09 06.9		De	iPKP 12 58 15.6
		Sk	iP	04 09 00.4		Fiji Islands (h = 600 km).	
			ipP	04 09 12.1	"	30	Up iP 13 47 54.3
		Um	iP	04 09 15.3			Ki eP 13 47 29
			ipP	04 09 27.2			Um iP 13 47 38.3
		Ud	iP	04 09 08.8 C			Ud iP 13 48 03.5
			ipP	04 09 21.3			De eP 13 48 16
		De	eP	04 09 16		Ryukyu Islands (h = 80 km).	
		Mexico. h = 45 km (Sk,Um,Ud).			"	30	Ud iP 14 45 47.7
"	30	Ud	iP	08 42 36.0	"	30	Up iP 17 57 24.0
		De	iP	08 42 28.7			i 17 57 33.0
"	30	Ki	iPn	09 56 59.6			Ki iP 17 57 55.8
			iSn	09 57 45.8			i 17 58 06.1
			iS*	09 57 58.8			Sk iP 17 57 57.3
		Sk	eSgl	10 00 52			i 17 58 06.3
		Um	iSgl	09 59 34.7			Um iP 17 57 35.1
		Northwest USSR-Norway border region, 69.5°N, 30.3°E. Origin time = 09 55 59. Explosion.					i 17 57 44.1
"	30	Um	iSgl	12 08 08.5			Ud iP 17 57 39.0
		Western USSR. Explosion.					i 17 57 48.0
"	30	Up	iSn	12 27 48.2			De iP 17 57 24.2
			iSgl	12 28 01.8			i 17 57 34.2
		Ki	e(Sg2)	12 30 38			Iran (h = N). The second phase can be interpreted either as another event from the same focal area, or as pP for a focal depth of 35 km.
		Sk	eSgl	12 29 51	"	30	Ud iP 19 07 30.4
		Um	iSgl	12 28 35.0			De ePKP 19 07 41
		Ud	iSgl	12 29 04.2	"	30	Up iP 19 09 27.6
		De	iSgl	12 29 31.2			i 19 09 43.8
		Esthonia, 59.5°N, 25.1°E. Origin time = 12 26 00. Explosion.					Mx E 0.7 18
"	30	Ki	iP	12 57 46.4			Mx N 0.8 17
				micr sec			Mx Z 0.5 17
			Mx	E 0.7 19			Ki iP 19 09 03.3
			Mx	N 0.7 23			micr sec
			Mx	Z 1.0 21			Mx E 0.6 16
		Sk	eP	12 57 45			Mx N 0.6 16
		Mexico (h = N).					Mx Z 0.6 16
"	30	Up	iPKP	12 58 03.9			Sk eP 19 09 28
		Ki	iPKP	12 58 00.3			Um iP 19 09 11.2
		Sk	ePKP	12 58 03			Ud iP 19 09 36.6
			i	12 58 10.2			De eP 19 09 46
		Um	ePKP	12 58 02			Formosa (h = N). M = 5.2 (Up,Ki).
			i	12 58 07.5	"	30	Up eP 20 38 53
			iSKP	13 00 42.1			Ki eP 20 39 29
		(cont.)					Sk eP 20 39 28
		(cont.)					(cont.)

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

1972

June	30	(cont.)		
		Um	eP	20 39 09
		Ud	iP	20 39 07.8
		Iran.		
		Origin time = 20 31 25.		
"	30	Ki	iSgl	20 45 44.7
		Sk	iSgl	20 45 52.4
		Um	iSn	20 45 57.5
			iSgl	20 46 12.2
		Ud	iSgl	20 47 38.5
		Nordland, Norway,		
		66.5°N, 14.1°E.		
		Origin time = 20 44 16.		
		Explosion.		
"	30	Ki	iP	20 58 59.2
		Ud	iP	20 58 34.2
"	30	Ud	eP	22 07 26.4

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