

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

1970				1970			
Jan.	1	(cont.)		Jan.	3	(cont.)	
		De	iPKP	19 01	31.4	Up	Mx E 2.0 21
			ipPKP	19 01	38.8		Mx N 2.1 21
		Kermadec Islands. h = 25 km					Mx Z 2.0 13
		(Up,Sk,Um,Ud,De).				Ki	iP 07 00 41.8
		Origin time = 18 41 41.					iPP 07 01 23.7
		In this and the preceding case					micr sec
		the amplitudes of pPKP Z' are				Mx	E 2.3 16
		larger than those of PKP Z',				Mx	N 1.3 14
		but not for the event at 17 30.				Mx	Z 2.3 11
"	1	Ki	iP	19 01	11.9	Sk	iP 07 00 36.6
		Leeward Islands (h = N).				Um	iP 07 00 14.0 C
						Ud	iP 07 00 15.0 C
						De	iP 06 59 58.0
"	2	Up	iP	05 28	40.5	Caucasus (h = 70 km).	
		Sk	iP	05 28	24.7	M = 5.0 (Up,Ki).	
		Um	iP	05 28	20.4	"	3
		Ud	iP	05 28	42.0	Up	i(P) 09 22 23.4
						Sk	i(P) 09 20 30.0
"	2	Up	iP	07 35	05.4	"	3
		Ki	eP	07 36	28	Ki	iPn 11 35 23.2
		Sk	iP	07 36	01.5		iP ^x 11 35 31.4
		Um	iP	07 35	47.6		iSn 11 36 09.4
		Ud	iP	07 35	22.8		iLgl 11 36 21.9
		Rumania (h = 130 km).					D = 420 km = 3.8°.
"	2	Ki	iSg	10 41	26.1	Um	iSg 11 37 59.9
		Sk	eSg	10 41	41	Northwest Russia.	
		Um	iSg	10 42	06.8	Origin time = 11 34 22.	
		Coast of Nordland, Norway,				Explosion?	
		66.9°N, 13.7°E.				"	3
		Origin time = 10 39 52.				Ki	iP 12 21 53.6
"	2	Um	iP	11 32	31.5	Colombia (h = 150 km).	
			iSg	11 33	15.2	"	3
"	2	Ki	eP	11 48	03	Up	iP 13 26 45.6
		Ud	iP	11 49	32.3	Ud	iP 13 27 00.8 C
"	2	Um	i(P)	19 50	15.6	De	iP 13 26 43.5
						Iran (h = 30 km).	
"	2	Up	iSg	20 07	33.3	"	3
		Sk	eSg	20 05	57	Sk	eP 13 42 13
		Ud	iSg	20 06	30.5	Ud	iP 13 42 15.7
		West coast of Norway, near					ipP 13 42 27.6
		Ålesund, 62.2°N, 6.2°E.				Leeward Islands. h = 45 km (Ud).	
		Origin time = 20 04 15.				"	3
"	3	Up	iP	06 59	58.1	Up	Mx 15 51
							micr sec
		P	Z'	0.1	0.9		Mx N 1.8 22
		(cont.)				Ki	Mx 15 49
							micr sec
							Mx E 1.1 20
							Mx N 0.9 19
		Celebes (h = 40 km).				M = 5.5 (Up,Ki).	

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1970					1970				
Jan. 5	(cont.)				Jan. 6	(cont.)			
	Up		micr sec		Up	Mx	N 3.8	23	
	Mx	E	1.7 15		Mx	Z	11	20	
	Mx	N	4.8 17		Ki			micr sec	
	Mx	Z	2.7 17		Mx	E	5.4	24	
	Ki	iP	11 59 50.1		Mx	N	3.2	22	
			micr sec		Mx	Z	7.8	23	
	Mx	E	2.1 15		Sk	iPKP	05 54	42.2	
	Mx	N	3.5 17		Um	iPKP	05 54	35.1	
	Mx	Z	2.3 12		Ud	iPKP	05 54	49.0	
	Sk	eP	12 00 15		D'Entrecasteaux Islands				
	Um	iP	11 59 53.8		(h = 8 km).				
	Ud	iP	12 00 13.8		M = 6.2 (Up,Ki).				
	De	iP	12 00 23.6						
	Yunnan, China (h = N).				"	6	Up	iP	06 08 27.1
	M = 5.6 (Up,Ki).						Um	iP	06 08 00.7
"	5	Um	iP	12 32 14.9			i		06 08 10.4
"	5	Up	iP	13 58 24.4 C			Ud	iP	06 08 33.4 C
		Ki	iP	13 57 57.6			Sakhalin (h = 35 km).		
		Sk	iP	13 58 25.1	"	6	Up	iP	06 28 33.4
		Um	iP	13 58 07.6			i		06 28 34.7
		Ud	iP	13 58 33.1			i		06 30 49.3
	Ryukyu Islands (h = 110 km).								micr sec
"	5	Up	iP	14 32 26.6			P	Z'	0.1 0.5
		Ki	iP	14 32 10.4			Ki	e(P)	06 30 26
				micr sec			Sk	iP	06 29 31.9
		Mx	N	1.0 22			Um	iP	06 29 21.4
		Sk	eP	14 32 36			Ud	iP	06 28 48.4
		Um	iP	14 32 15.4			De	iP	06 28 08.1 C
		Ud	iP	14 32 36.8			i		06 28 21.5
	Yunnan, China (h = N).				"	6	Up	iP	06 32 08.7 C
"	5	Up	iP	18 09 48.5			Um	iP	06 32 31.3 C
		Ki	iP	18 09 36.6	"	6	Sk	iP	06 34 51.8
		Ud	iP	18 10 01.1			Um	iP	06 34 13.1
	Yunnan, China (h = N).				"	6	Up	iPKP	07 19 40.0 C
"	6	Up	iP	00 55 30.7			Sk	iPKP	07 19 32.6
		i		00 55 58.8			i		07 19 40.9
"	6	Up	iP	01 57 44.3			Ud	iPKP	07 19 41.8
		Ud	iP	01 57 50.2			Kermadec Islands (h = 370 km).		
	Kurile Islands (h = N).				"	6	Up	iP	07 22 56.3
"	6	Ki	eP	05 28 27					micr sec
		Um	iP	05 29 17.9			Mx	E	1.1 20
	These phases could be Sg instead of P.						Mx	N	1.1 18
"	6	Up		micr sec			Mx	Z	1.7 18
		Mx	E	1.5 16			Ki	iP	07 22 07.6
	(cont.)						Um	iP	07 22 32.1
							Ud	iP	07 23 03.0
							Sakhalin (h = N).		

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

1970				1970						
Jan.	6	Up	iPKP	07 35	43.6	Jan.	7	(cont.)		
			i	07 35	47.0			Ud	iP	00 51 01.3
		Sk	iPKP	07 35	36.6	"	7	Up	iP	01 21 52.7
		Um	iPKP	07 35	31.5			Ki	iP	01 21 38.8
		Ud	iPKP	07 35	44.2			Um	iP	01 21 41.8 C
		De	iPKP	07 35	53.1			Ud	iP	01 22 04.6 C
"	6	Up	iP	09 21	24.0			Yunnan, China (h = N).		
		Ud	iP	09 21	39.2					
"	6	Up	iP	09 51	33.7	"	7	Up	iP	02 54 07.4
		Ki	eP	09 51	16			Ki	iP	02 53 53.1
		Ud	iP	09 51	39.9			Um	iP	02 53 55.6
"	6	Up	iPKP	11 04	10.2			Ud	iP	02 54 19.5 C
		Sk	iPKP	11 04	03.6			Yunnan, China (h = N).		
			i	11 04	10.1	"	7	Up	iPKP	04 04 07.1
		Um	iPKP	11 04	01.4				PKP	Z' 0.1 0.7
			i	11 04	19.9			Um	iPKP	04 03 55.6
		Ud	iPKP	11 04	10.5			Ud	iPKP	04 04 08.8
		De	iPKP	11 04	19.6			De	iPKP	04 04 18.9
			i	11 04	28.1				i	04 04 23.5
"	6	Up	i	12 48	24.6			Tonga-Kermadec Islands		
			iSg	12 48	38.4			(h = 360 km).		
		Ki	iSg	12 51	12.7	"	7	Up	iPKP	04 09 28.7
		Sk	iSg	12 50	29.0					micr sec
		Um	iSg	12 49	10.7				PKP	Z' 0.1 0.7
		Ud	iSn	12 49	15.6			Um	ipPKP	04 10 48.9
			iLgl	12 49	42.1			Ud	iPKP	04 09 30.9
		De	eSg	12 50	18			De	iPKP	04 09 41.3
		Esthonia. Explosion?						Tonga-Kermadec Islands		
"	6	Up	iP	13 07	16.4			(h = 360 km).		
		Ki	iP	13 07	26.9			Origin time = 03 50 34.		
			ipP	13 07	39.7	"	7	Up	iP	08 07 22.8
										micr sec
		Mx	E	1.0	19			Mx	E	1.5 16
		Sk	iP	13 07	03.3 C			Mx	N	1.8 18
		Um	iP	13 07	24.9			Mx	Z	2.2 17
		Ud	iP	13 07	04.3 C			Ki	iP	08 07 32.5
		Leeward Islands. h = 45 km (Ki).								micr sec
"	6	Up	iP	20 48	19.4			P	Z'	0.3 1.5
		Ki	iP	20 47	50.8			Mx	E	4.0 18
		Mariana Islands (h = 160 km).						Mx	N	1.7 18
"	6	Ki	iP	23 40	04.7			Mx	Z	4.5 17
		Sk	iP	23 40	21.2			Sk	iP	08 07 10.2 C
		Um	iP	23 40	06.4			Um	iP	08 07 31.1
		Ud	iP	23 40	17.1			Ud	iP	08 07 09.4
		Java (h = 90 km).							ipP	08 07 25.3
"	7	Um	iP	00 51	32.2 C			De	iP	08 07 09.3
		(cont.)							ipP	08 07 23.7
								Leeward Islands. h = 55 km		
								(Ud, De).		
								M = 5.7 (Up, Ki).		

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1970				1970			
Jan.				Jan.			
9	Up	iPKP	05 02 46.5 C	9	Up	iP	23 30 12.4
		ipPKP	05 02 57.0			i(PP)	23 34 12.2
	Sk	iPKP	05 02 41.3			i	23 34 23.0
	Um	iPKP	05 02 36.3		Ki	iP	23 30 04.6 D
		ipPKP	05 02 45.6			ePP	23 34 13
	Ud	iPKP	05 02 47.6 C		Sk	e(PP)	23 34 21
	De	iPKP	05 02 55.8		Um	eP	23 30 06
	South of Kermadec Islands. h = 35 km (Up,Um).					i	23 34 31.2
"	9	Um	iP 06 00 24.4		Ud	iP	23 30 21.5
		Ud	iP 06 00 25.1			e(PP)	23 34 32
	Indian Ocean (h = N).				Sumbawa (h = 60 km). (PP) belong to the group of early arriving PP.		
"	9	Ud	iP 09 29 56.9	"	10	Ki	iPg 00 03 12.2
	Iran-USSR (h = 25 km).					iSn	00 03 42.0
"	9	Up	iP 10 42 37.7			iSg	00 03 58.6
		Ki	iP 10 42 23.9		Sk	iSg	00 04 16.8
		Um	iP 10 42 27.4		Um	i(Pn)	00 03 37.0
		Ud	iP 10 42 50.1			iSn	00 04 39.0
	Yunnan, China (h = N).					iSg	00 05 10.0
"	9	Ki	iPn 10 55 12.7		Norwegian Sea, off Lofoten, near 67 3/4°N, 10 3/4°E. Origin time = 00 02 02.		
			iSn 10 56 11.7	"	10	Up	iP 00 45 57.9
			iSg 10 56 35.1			ipP	00 46 15.8
			D = 540 km = 4.9°.		Ki	iP	00 45 57.4
	Sk	eLgl	10 59 01		Sk	iP	00 45 43.8
	Um	eS ^x	10 57 06		Um	iP	00 46 00.9 C
		iSg	10 57 26.8			ipP	00 46 18.6
	Northwest Russia, 67.5°N, 33.4°E. Origin time = 10 53 56. Explosion?				Panama. h = 70 km (Up,Um).		
"	9	Up	iSg 11 00 56.5	"	10	Up	iP 00 47 05.9
		Um	iSg 11 01 24.9			Ud	iP 00 47 11.5
		De	iLgl 11 02 18.5		Kurile Islands (h = N).		
	Estonia. Explosion?			"	10	Up	iP 03 29 47.5
"	9	Um	iP 13 13 33.3			Ki	iP 03 29 23.2
	East coast of Africa (h = N).				Formosa (h = N).		
"	9	Up	iP 19 36 02.8	"	10	Up	iP 04 31 48.9
		i	19 36 12.3			i	04 31 56.0
	Um	iP	19 36 18.0		Ki	iP	04 30 54.3
		i	19 36 23.8		Sk	iP	04 31 20.4
	Indian Ocean (h = N).				Um	iP	04 31 22.8
"	9	Um	iPKP 20 17 00.9		Ud	iP	04 31 45.6
	Fiji Islands (h = 440 km).				Alaska (h = N).		
"	9	Ki	iP 21 07 47.2	"	10	Up	iP 04 57 59.1
	Kazakh-Sinkiang (h = N).					Ki	iP 04 58 02.6
						Sk	iP 04 58 22.9
						Um	iP 04 57 54.8
						Ud	iP 04 58 15.3 D
						De	iP 04 58 14.2
					Tadzhik-Sinkiang (h = 150 km).		

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1970				1970					
Jan.	10	Um	iP	05 50 39.8	Jan.	10	Ki	iP	13 03 49.5
			i	05 50 53.8			Ud	iP	13 04 16.1
		Mexico (h = N).					Mindanao.		
							Origin time = 12 51 00.		
"	10	Up	iPKP	11 46 12.4 C	"	10	Up	iP	13 22 37.3
		Ki	iPKP	11 45 57.0			Ki	iP	13 22 16.1
		Sk	iPKP	11 46 07.2 C				ipP	13 22 38.4
		Um	iPKP	11 46 02.5			Um	iP	13 22 21.4
			i	11 46 15.3				i	13 22 29.1
		Ud	iPKP	11 46 14.4 C				ipP	13 22 43.8
		South of Kermadec Islands					Ud	iP	13 22 41.8
		(h = 80 km).						i	13 22 53.7
"	10	Up	iP	12 20 18.1			Mindanao. h = 80 km (Ki,Um).		
			i	12 20 22.9	"	10	Ki	iP	13 25 58.4
			iSKS	12 30 49				i	13 26 14.4
			iS	12 31 06			Ud	iP	13 26 24.9
				micr sec				i	13 26 35.7
			P	Z' 0.5 0.7			Mindanao (h = 70 km).		
			Mx	E 160 19	"	10	Ki	iP	13 42 13.1
			Mx	N 150 22				i	13 42 20.3
			Mx	Z 160 20			Ud	iP	13 42 38.7
		Ki	iP	12 19 58.8 C			Mindanao (h = 80 km).		
			i	12 20 01.4	"	10	Up	iP	14 12 50.4
			iS	12 30 45				i	14 13 07.8
				micr sec			Ki	iP	14 12 29.9 C
			P	Z' 0.9 1.1				i	14 12 54.1
			Mx	E 130 18					micr sec
			Mx	N 85 18				P	Z' 0.1 1.0
			Mx	Z 210 19			Sk	iP	14 12 56.8
		Sk	iP	12 20 22.0 C			Um	iP	14 12 35.9
		Um	iP	12 20 04.8 C				ipP	14 12 55.7
		Ud	iP	12 20 24.5 C			Ud	iP	14 12 55.4 C
			i	12 20 27.2				ipP	14 13 15.5
		De	iP	12 20 32.2 C			De	iP	14 13 07.4
		Mindanao (h = 70 km).					Mindanao. h = 70 km (Um,Ud).		
		m = 7.1, M = 7.6 (Up,Ki).			"	10	Up	iP	14 29 38.9
		Multiple P.						i	14 29 50.0
"	10	Ud	iP	12 37 17.4			Ki	iP	14 29 21.3 C
			i	12 37 37.2					micr sec
"	10	Ki	iPn	12 45 02.6				P	Z' 0.2 1.0
			iSn	12 45 53.1			Sk	iP	14 29 43.0
			iLgl	12 46 06.4			Um	iP	14 29 27.4 C
				D = 470 km = 4.2°.			Ud	iP	14 29 47.1 C
		Origin time = 12 43 55.					Mindanao (h = 60 km).		
"	10	Up	iP	12 58 13.4	"	10	Ki	iP	15 06 56.8
		Ki	iP	12 57 50.8			Um	iP	15 07 05.8
		Ud	iP	12 58 16.9			Ud	iP	15 07 23.2
		Mindanao.					Mindanao (h = 90 km).		
		Origin time = 12 45 02.							

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1970					1970				
Jan.	10	Ki	iP	15 07 53.0	Jan.	10	Ki	iP	17 53 14.1 C
		Um	iP	15 07 58.8			Um	iP	17 53 18.2
		Ud	iP	15 08 18.4			Ud	iP	17 53 40.7
		Mindanao.					Mindanao (h = 90 km).		
		Origin time = 14 55 04.							
"	10	Up	iP	15 15 50.7	"	10	Ki	iP	20 44 42.5
		Ud	iP	15 15 55.4			Sk	iP	20 44 12.3
							Ud	iP	20 43 40.9
							De	iP	20 43 08.6
		Mindanao.					Crete.		
		Origin time = 15 12 23.							
"	10	Up	iP	15 27 12.2	"	10	Ki	iP	21 45 31.4
		Ki	iP	15 26 52.5			Ud	iP	21 45 55.9
		Ud	iP	15 27 17.7			Mindanao (h = 80 km).		
		Mindanao.							
		Origin time = 15 14 03.							
"	10	Ki	iP	15 31 42.4	"	11	Ki	iP	01 43 07.9 C
							Ud	eP	01 43 31
								i	01 43 52.0
							Mindanao (h = 60 km).		
"	10	Ki	iP	15 39 38.7	"	11	Um	iP	01 59 40.3
		Ud	iP	15 40 03.9 C					
		Mindanao (h = 70 km).					Ki	eP	03 26 41
								i	03 26 56.1
"	10	Up	iP	15 54 35.3 C			Sk	iP	03 26 48.2
		Ki	iP	15 54 05.1			Ud	iP	03 26 37.9
		Sk	iP	15 54 35.3			De	i(P)	03 26 32.5
		Um	iP	15 54 17.4			Chagos Islands (h = N).		
		Ud	iP	15 54 44.3	"	11	Ud	iP	04 45 51.5
		De	iP	15 54 55.9	"	11	Up	iP	05 15 13.2
		Ryukyu Islands (h = 90 km).							micr sec
							Mx	E	2.6 17
"	10	Ki	iP	16 13 17.2			Mx	N	2.2 18
		Ud	iP	16 13 43.2			Mx	Z	4.0 18
		Mindanao (h = 70 km).					Ki	iP	05 14 54.9
									micr sec
"	10	Up	iP	16 44 00.1			P	Z'	0.1 1.1
		Ki	iP	16 43 42.9			Mx	E	3.1 18
			ipP	16 43 58.0			Mx	N	1.9 18
		Sk	eP	16 44 03			Mx	Z	3.6 18
			i	16 44 10.6			Sk	iP	05 15 16.7 C
			i	16 44 38.3			Um	iP	05 15 02.7
		Um	iP	16 43 48.8			Ud	iP	05 15 21.0 C
		Ud	iP	16 44 08.7			Mindanao (h = 70 km).		
		Mindanao, h = 60 km (Ki).					M = 5.9 (Up, Ki).		
"	10	Ki	iP	17 25 26.8	"	11	De	iPKP	05 39 02.1
				micr sec				i	05 39 14.3
		Mx	E	0.8 19			Loyalty Islands (h = 45 km).		
		Ud	iP	17 25 52.3					
		Mindanao (h = 70 km).			"	11	Up	iP	07 10 38.3
							Um	iP	07 10 15.1

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

1970				1970			
Jan.	11	Ki	iSn	08 11 05.5	Jan.	12	(cont.)
			iLg1	08 11 27.3			Ki eP
		Sk	eLg1	08 13 53			Um iP
		Um	iSg	08 12 21.6			Ud iP
		Ud	i(Lg1)	08 14 56.0			Yunnan, China (h = N).
			Northwest Russia.				
			Explosion?		"	12	Ki iP
"	11	Ud	iP	12 32 41.0			Ud iP
			Mindanao (h = 70 km).		"	12	Ud iPKP
"	11	Up	iP	18 01 20.3			iSKP
		Ki	iP	18 03 29.5			Santa Cruz Islands
		i		18 03 37.9			(h = 660 km).
"	11	Ki	iP	18 37 12.4	"	12	Ki iPn
			Mindanao (h = 100 km).				iSn
"	11	Ud	iP	19 58 22.3			iLg1
			Mindanao (h = 100 km).				D = 430 km = 3.9°.
"	11	Ki	iP	21 15 13.6 D			Sk iLg1
		Ud	iP	21 15 39.2			Um iSn
		i		21 15 50.8			iSg
			Mindanao (h = 80 km).				Northwest Russia,
"	12	Up	iP	02 11 30.3			69.2°N, 30.6°E.
		Um	iP	02 11 19.4			Origin time = 13 10 24.
		Ud	iP	02 11 31.8			Explosion?
"	12	Ki	iP	02 34 09.7	"	12	Up iP
		Ud	iP	02 34 34.9			Ki iP
			Mindanao (h = 90 km).				Sk eP
"	12	Ki	eP	04 24 21			i
			Mindanao (h = 90 km).				Um iP
"	12	Up	iP	04 38 10.6	"	12	Ki iP
		Ki	iP	04 37 52.4			Um iP
							Ud iP
					"	13	Ud i(P)
							01 26 43.2
					"	13	Ki eP
							Ud iP
							03 56 56
							03 57 06.1
					"	13	Um iP
							04 16 17.6 C
					"	13	Ki ePKP
							Um iPKP
							04 31 47
							04 31 51.3
							New Hebrides Islands
							(h = 20 km).
"	12	Ki	eP	06 37 28	"	13	Ki iPn
			Mindanao (h = 80 km).				iSn
"	12	Up	iP	09 43 57.7			iSg
		i		09 44 00.4			D = 540 km = 4.9°.
			(cont.)				(cont.)

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

1970

Jan. 13	(cont.)				
	Sk	e(Lgl)	11 00 49		
		iSg	11 00 56.1		
	Um	iSg	10 59 13.7		
	Northwest Russia, 67.5°N, 33.4°E. Origin time = 10 55 43. Explosion?				
" 13	Um	iP	11 27 31.9		
" 13	Up	iP	12 47 57.3		
	Ki	iP	12 47 01.7		
	Um	iP	12 48 00.7 C		
" 13	Sk	eP	13 05 41		
	Um	iP	13 06 05.2		
" 13	Up	iP	17 08 21.8		
	Ki	iP	17 08 04.0		
	Sk	eP	17 08 26		
	Um	iP	17 08 10.5		
		i	17 08 13.8		
	Ud	iP	17 08 30.2		
	Mindanao (h = 80 km).				
" 13	Up	ipP	21 01 53.3		
	Ki	iP	21 01 16.6 C		
		ipP	21 01 36.8		
			micr sec		
		P	Z' 0.1 1.0		
	Um	iP	21 01 22.7 C		
	Ud	iP	21 01 42.5 C		
	De	eP	21 01 49		
	Mindanao. h = 70 km (Ki).				
" 13	Up	iP	21 08 20.3		
	Um	i(P)	21 09 19.4		
" 13	Sk	iSKP	22 54 10.8		
	Um	iSKP	22 54 00.8		
	Ud	iPKP	22 51 22.4 C		
		iSKP	22 54 15.2		
	De	iPKP	22 51 33.7		
	Tonga-Kermadec Islands (h = 530 km).				
" 14	Up	i(PP)	02 40 30.5		
			micr sec		
	Mx	E	1.8 19		
	Mx	N	4.5 22		
	Mx	Z	4.1 21		
	(cont.)				

1970

Jan. 14	(cont.)				
	Ki	iP	02 36 39.6		
			micr sec		
	Mx	E	2.6 20		
	Mx	N	3.1 23		
	Mx	Z	3.4 19		
	Um	iP	02 36 42.9		
	De	eP	02 37 03		
	Timor (h = N). M = 6.0 (Up,Ki).				
" 14	Up	iP	02 49 45.4		
	Ki	e(P)	02 49 58		
	Um	e(P)	02 49 37		
" 14	Ki	iP	07 24 36.0		
" 14	Up	iP	10 25 10.0		
		i	10 25 12.9		
	Ki	iP	10 24 56.8		
			micr sec		
	Mx	E	0.7 15		
	Mx	N	0.7 16		
	Mx	Z	0.7 13		
	Sk	iP	10 25 21.7		
	Um	iP	10 24 58.6		
		i	10 25 10.5		
	Ud	iP	10 25 22.3		
	De	iP	10 25 30.3		
	Yunnan, China (h = 40 km).				
" 14	Ki	iPn	11 32 40.1		
		iSn	11 33 38.8		
		iLgl	11 33 57.8		
		iSg	11 34 02.4		
	D = 540 km = 4.9°.				
	Sk	iLgl	11 36 26.9		
	Um	iSn	11 34 17.5		
		iSg	11 34 54.1		
	Ud	iLgl	11 37 25.5		
	De	iSg	11 39 09.0		
	Northwest Russia, 67.5°N, 33.4°E. Origin time = 11 31 24. Explosion?				
" 14	Up	iSg	12 36 02.2		
	Ki	eSg	12 38 29		
	Sk	iSg	12 37 50.1		
	Um	iSg	12 36 31.8		
	Ud	iSg	12 37 11.3		
	De	iLgl	12 37 27.6		
	Esthonia, 59.7°N, 25.6°E. Origin time = 12 33 50. Explosion?				

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

1970				1970									
Jan.	19	Up	iP	00 38 56.5	Jan.	20	Up	iPKP	02 28 49.7 C				
			i	00 39 01.1				South Sandwich Islands (h = N).					
		Ki	iP	00 39 03.2 C		"	20	Up	iPKP	03 32 12.2			
		Um	iP	00 38 53.0 C				Ki	iPKP	03 31 58.2			
			i	00 38 58.0				Sk	iPKP	03 32 09.2 C			
		Ud	iP	00 39 13.6 C				Um	iPKP	03 32 05.2			
			i	00 39 18.6				Ud	iPKP	03 32 14.6			
		De	iP	00 39 11.8				De	iPKP	03 32 20.8			
			i	00 39 16.4				Santa Cruz Islands					
		Kirghiz SSR (h = 45 km).						(h = 230 km).					
		Double P, in average 4.8 sec apart.					"	20	Ud	iP	06 43 31.3		
		"	19	Um	iP	11 05 04.1			Unimak Island (h = N).				
		"	19	Sk	eSn	13 03 59		"	20	Up	iPKP	07 39 16.2	
					eLgl	13 04 28					iPP	07 42 35.3	
					iSg	13 04 35.7					i	07 50 03.0	
					Ud	iSn	13 03 15.0					micr sec	
						i	13 03 27.8				PKP	Z' 1.5 0.6	
						iSg	13 03 36.2				PP	Z' 6.3 2.0	
					De	iSg	13 03 24.1			Ki	iPKP	07 38 52.6	
					Probably southwest coast of Norway.						i	07 38 57.9	
		"	19	Up	iP	13 07 43.6					i	07 39 05.8	
					i	13 07 50.1					iPP	07 41 46.6	
				Sk	iP	13 07 57.8					iSKP	07 42 29.6	
				Um	iP	13 07 46.8						micr sec	
				Ud	iP	13 07 57.7					PKP	Z' 1.1 1.5	
				Burma-India (h = 45 km).							PP	Z' 1.4 1.5	
		"	19	Ki	iP	17 26 17.9					SKP	Z' 1.5 1.6	
				Ud	iP	17 25 53.8			Sk	iPKP	07 39 08.3		
				Iran (h = 25 km).						i	07 39 21.6		
		"	19	De	iP	20 40 32.4				iPP	07 42 17.5		
				Iran (h = N).					Um	iPKP	07 39 02.0		
		"	19	Ki	iP	23 12 07.8				i	07 39 11.9		
				Ud	iP	23 12 24.8				iPP	07 42 10.0		
				Kirghiz-Sinkiang (h = 45 km).					Ud	iPKP	07 39 17.4		
		"	19						De	iPKP	07 39 24.9		
										i	07 39 28.5		
										Tonga-Kermadec Islands			
										(h = 80 km).			
										m = 7.3 (Up,Ki).			
		"	20	Up	iP	00 49 13.4		"	20	Ud	iPKP	07 58 58.7	
				Ki	iP	00 48 18.9				De	iPKP	07 59 09.0	
				Sk	iP	00 48 49.8				Tonga-Kermadec Islands.			
					ipP	00 49 01.1				Origin time = 07 39 32.			
				Um	iP	00 48 47.1				Approximate origin times			
					ipP	00 48 57.9				are given for those after-			
				Ud	iP	00 49 11.7				shocks which have not been			
					ipP	00 49 23.0				reported by the USCGS.			
				De	iP	00 49 34.3			"	20	Ud	iPKP	08 03 09.0
				Unimak Island. h = 40 km							(cont.)		
				(Sk,Um,Ud).									

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

1970				1970					
Jan.	20	Ki	iPn	11 09 13.3	Jan.	20	Ud	iPKP	14 09 34.6
			iSn	11 10 13.3			De	iPKP	14 09 44.8
			iSg	11 10 37.0			Tonga-Kermadec Islands.		
			D = 560 km = 5.0°.				Origin time = 13 50 08.		
		Um	iSg	11 11 28.2	"	20	Ud	iP	14 12 36.4
		Northwest Russia.			"	20	Up	iPKP	14 17 49.9
		Origin time = 11 07 54.					Ud	iPKP	14 17 51.3
		Explosion?					De	iPKP	14 18 05.2
"	20	Up	iPKP	11 15 28.4			Tonga-Kermadec Islands.		
		Ki	ePKP	11 15 05			Origin time = 13 58 26.		
		Ud	iPKP	11 15 30.8	"	20	Up	iP	14 27 11.3
		De	iPKP	11 15 41.1			Ki	iP	14 26 19.9
		Tonga-Kermadec Islands.					Ud	iP	14 27 19.4
		Origin time = 10 56 03.			"	20	Up	iP	14 49 36.3
"	20	Ud	eP	12 03 31	"	20	De	iPKP	15 31 19.1
"	20	Up	iPKP	12 35 40.9			Solomon Islands		
			PKP	Z' 0.1 0.7			(h = 200 km).		
		Ud	iPKP	12 35 43.6	"	20	Up	iPKP	15 51 46.9
		De	iPKP	12 35 53.5			Ud	iPKP	15 51 48.6
		Tonga-Kermadec Islands					De	iPKP	15 51 58.7
		(h = 80 km).					Tonga-Kermadec Islands.		
"	20	Ud	iP	12 45 53.3			Origin time = 15 32 22.		
"	20	Ud	iP	12 52 45.1	"	20	Up	iPKP	17 26 52.6 C
"	20	Ud	iP	12 58 35.8				PKP	Z' 0.4 0.7
"	20	Ki	iP	13 33 31.2			Ki	iPKP	17 26 38.9
		De	iP	13 33 49.3			Sk	iPKP	17 26 45.5
"	20	Up	iP	13 53 13.9			Um	iPKP	17 26 42.7 C
"	20	Ud	iP	13 59 44.1				i	17 26 50.6
"	20	Up	iSg	14 03 47.2			Ud	iPKP	17 26 54.6
		Sk	eLgl	14 05 33				i	17 26 57.9
		Um	iSg	14 04 22.0			De	iPKP	17 27 05.4
		Ud	iLgl	14 04 47.2			Tonga-Kermadec Islands		
		De	eLgl	14 05 16			(h = 110 km).		
		Esthonia. Explosion?			"	20	Up	iP	17 44 03.4
"	20	Up	iPKP	14 05 30.8 D				i	17 44 04.5
				micr sec				i	17 44 37.0
			PKP	Z' 0.1 0.7				iS	17 53 01
		Ud	iPKP	14 05 32.3 D				iP'P'	18 12 14.9
		De	iPKP	14 05 42.4					micr sec
		Tonga-Kermadec Islands					P	Z' 0.8 0.6	
		(h = 90 km).					Mx	E 29 24	
							Mx	N 43 27	
							Mx	Z 18 26	
							Ki	iP	17 43 19.7

(cont.)

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

1970
Jan. 20 (cont.)

Ki	i	17 43 21.3
	iS	17 51 37
	iPS	17 51 53
	iP'P'	18 12 34.6
		micr sec
P	Z'	1.0 1.0
Mx	E	32 22
Mx	N	16 19
Mx	Z	20 16
Sk	iP	17 43 56.1 C
Um	iP	17 43 38.9
	i	17 43 40.4
	ipP	17 43 52.4
	iS	17 52 16
	eP'P'	18 12 22
Ud	iP	17 44 10.3 C
	i	17 44 11.4
	iS	17 53 14.9
	iP'P'	18 12 09.8
De	iP	17 44 27.0
	i	17 44 28.0
	iS	17 53 47.3

Japan. h = 45 km (Um).
m = 7.0, M = 6.7 (Up,Ki).
Double P, small and large,
average interval 1.3 sec.

" 20 Up iP KP 19 08 27.3 D
Ud iP KP 19 08 29.3
De iP KP 19 08 39.2
Tonga-Kermadec Islands.
Origin time = 18 49 02.

" 21 Up iP KP 00 45 11.7 D
Ud iP KP 00 45 13.9
De iP KP 00 45 24.2
Tonga-Kermadec Islands
(h = 100 km).

" 21 Up iP KP 03 18 46.8 C
i 03 19 20.7
Ud iP KP 03 18 48.6 C
De iP KP 03 18 57.8
Tonga-Kermadec Islands
(h = 110 km).

" 21 Up iP KP 03 41 20.1
Ud iP KP 03 41 23.7
De iP KP 03 41 33.6
Tonga-Kermadec Islands.
Origin time = 03 22 01.

1970
Jan. 21

Up	iP	03 45 55.2 C
	ipP	03 46 01.1
Ki	iP	03 45 57.0
	ipP	03 46 02.4
Um	iP	03 45 52.5 C
	ipP	03 45 57.9
Ud	iP	03 46 07.1
	ipP	03 46 12.6
De	iP	03 46 04.9 C
	ipP	03 46 10.0

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

" 21 Ki iSg 10 41 48.6
iRg 10 42 04.3
Sk iPg 10 40 49.0
iSg 10 41 26.5
Um iPg 10 41 16.4
iSg 10 42 12.7
iRg 10 42 42.0
Off west coast of Norway,
66.5°N, 11.9°E.
Origin time = 10 39 50.

" 21 Ki iPn 11 22 12.7
iSn 11 23 10.9
iSg 11 23 35.9
D = 530 km = 4.8°.
Sk iLgl 11 25 59.1
Um iSn 11 23 51.0
iSg 11 24 25.7
Northwest Russia,
67.5°N, 33.1°E.
Origin time = 11 20 58.
Explosion?

" 21 Up iP 13 10 29.9
Ki iP 13 09 47.5
Um iP 13 10 06.7 C
Ud iP 13 10 37.9
De eP 13 10 57
Japan (h = 50 km).

" 21 Up iP 18 05 19.0
i 18 05 22.5
iPP 18 09 15.9
micr sec
PP Z' 0.1 1.2
Mx E 33 22
Mx N 29 25
Mx Z 50 22
Ki iP 18 05 01.3
(cont.)

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

1970						1970						
Jan.	21	(cont.)				Jan.	22	(cont.)				
		Ki	i	18 05 07.4				De	iPKP	03 46 45.9		
			iPP	18 08 54.5				Tonga-Kermadec Islands				
				micr sec				(h = 80 km).				
			P	Z' 0.5 1.5			"	22	Up	iP	04 06 29.2 C	
			PP	Z' 0.6 2.0							micr sec	
			Mx	E 27 25					P	Z' 0.2 1.0		
			Mx	N 24 23					Mx	E 1.2 16		
			Mx	Z 53 25					Mx	N 1.4 18		
		Sk	iP	18 04 58.5					Mx	Z 1.5 16		
		Um	iP	18 05 11.4				Ki	iP	04 05 36.3 C		
			i	18 05 17.9					ipP	04 05 48.1		
			iPP	18 09 10.6						micr sec		
		Ud	iP	18 05 07.7					P	Z' 0.1 1.0		
			i	18 05 13.8					Mx	E 2.5 16		
		De	iP	18 05 15.6					Mx	N 2.3 16		
			i	18 05 23.1					Mx	Z 3.6 15		
			iPP	18 09 23.9				Sk	iP	04 06 09.1 C		
		Pacific Ocean, off coast of						Um	iP	04 06 01.9 C		
		Central America (h = N).						Ud	iP	04 06 30.2		
		m = 6.6, M = 6.9 (Up,Ki).						De	iP	04 06 51.7		
		Double P, average interval						Aleutian Islands.				
		6.6 sec, the first of						h = 45 km (Ki).				
		longer period than the						M = 5.6 (Up,Ki).				
		second one.										
"	21	Up	iP	18 40 31.3		"	22	Um	iP	04 22 57.2		
		Um	iP	18 41 16.8								
"	22	Up	iPKP	00 03 34.2 D		"	22	Up	iLgl	06 12 57.0		
				micr sec				Ki	iSg	06 15 33.6		
			PKP	Z' 0.4 0.7				Sk	eSg	06 12 34		
		Ki	ePKP	00 03 18				Um	iLgl	06 14 10.8		
		Sk	ePKP	00 03 30				Ud	iSg	06 12 05.2		
		Um	iPKP	00 03 22.8				De	eSg	06 12 48		
		Ud	iPKP	00 03 35.9 D				West coast of Norway,				
		De	iPKP	00 03 46.0 D				59.6°N, 5.3°E.				
			ipPKP	00 04 13.7				Origin time = 06 09 44.				
		Tonga-Kermadec Islands.					"	22	Up	iP	06 24 57.6	
		h = 90 km (De).							Pacific Ocean, off Central			
									America (h = N).			
"	22	Ud	iP	01 45 16.8		"	22	Um	iSg	12 20 41.5		
		Japan (h = 55 km).						De	iLgl	12 21 37.8		
"	22	Ud	iP	02 15 59.8				Esthonia. Explosion?				
			ipP	02 16 10.2				"	22	Um	iSg	13 44 54.7
		North Atlantic Ocean.						De	iLgl	13 45 49.1		
		h = 40 km (Ud).						Esthonia. Explosion?				
"	22	Up	iPKP	03 46 33.7 C		"	22	Up	iP	15 27 11.4		
		Um	iPKP	03 46 25.0						micr sec		
		Ud	iPKP	03 46 34.8				Mx	E 1.5 20			
		(cont.)						(cont.)				

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

Year	Date	Station	Phase	Time (hr:min:sec)	Notes				
1970	Jan. 22	(cont.)	Up						
			Mx	N	1.9 23				
			Mx	Z	2.3 23				
			Ki	iP	15 26 59.7				
			Mx	E	2.5 17				
			Mx	N	1.5 17				
			Mx	Z	3.2 17				
			Sk	iP	15 26 51.5				
			Um	iP	15 27 07.8 C				
			Ud	iP	15 27 00.7				
			Mexico (h = 60 km).						
			M = 5.6 (Up,Ki).						
			"	22	Up	iP	15 28 17.3		
						i	15 30 24.2		
						iS	15 30 34.4		
						Mx	E	2.9 8	
						Mx	N	2.1 8	
						Mx	Z	2.2 7	
Ki	iP	15 29 55.1							
iLg1		15 36 00.5							
Mx	E	2.5 13							
Mx	N	1.2 11							
Sk	iP	15 29 01.1							
iLg2		15 33 42.1							
Um	iP	15 29 14.4							
Ud	iP	15 28 22.9							
De	iP	15 27 19.8							
Germany (h = 15 km).									
"	22	Up				iPKP	15 59 50.6		
						PKP	Z' 0.1 0.6		
			Um	iPKP	15 59 39.9				
			Ud	iPKP	15 59 52.8 C				
			De	iPKP	16 00 02.6 C				
			Tonga-Kermadec Islands (h = 100 km).						
			"	22	Ud	iP	21 13 59.4		
						i	21 14 07.1		
			"	22	Um	iP	22 30 32.8		
						Ud	iP	22 31 05.4	
			Japan (h = 60 km).						
			"	23	Up	iPKP	00 37 14.5		
Ud	iPKP	00 37 16.5							
De	iPKP	00 37 25.8							
Tonga-Kermadec Islands. Origin time = 00 17 50.									
1970	Jan. 23	Up	iP	03 42 17.7					
			ipP	03 42 30.6					
Unimak Island. h = 45 km (Up,Ud,De). m = 5.9 (Up,Ki).									
"	23	Up	iP	03 55 06.3					
			Ki	eP	03 54 10				
			Um	iP	03 54 38.2				
			Ud	iP	03 55 03.0				
			De	iP	03 55 26.5				
			Unimak Island (h = N).						
			"	23	Up	iP	06 02 39.3		
						Ki	eP	06 02 45	
						Um	iP	06 02 36.3	
						Ud	iP	06 02 56.0	
			Tadzhik SSR (h = 160 km).						
			"	23	Up	iP	06 05 24.2		
Ki	iP	06 05 10.8							
Sk	iP	06 05 35.0							
Um	iP	06 05 12.7 C							
Ud	iP	06 05 35.8							
"	23	Ki	eP	07 05 42					
			Um	iP	07 06 10.8				
			Ud	iP	07 06 34.7 C				
			De	iP	07 06 58.8				
			Unimak Island (h = 15 km).						
"	23	Up	iPKP	09 51 05.8					
			ipPKP	09 51 31.8					
			Ud	iPKP	09 51 07.8				
			ipPKP	09 51 33.0					
"	23	De	iPKP	09 51 21.3					
			Tonga-Kermadec Islands. h = 90 km (Up,Ud).						
			"	23	Ki	iPn	11 09 40.7		
						iSn	11 10 40.4		
(cont.)									

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

1970									1970									
Jan.	23	(cont.)							Jan.	24	(cont.)							
		Ki	iLgl	11 11 02.9							Ki	iP	03 00 07.8 C					
				D = 560 km = 5.0°.							Sk	iP	03 00 25.6					
		Um	iSg	11 11 53.0							Um	iP	02 59 58.2 C					
				Northwest Russia.							Ud	iP	03 00 17.0 C					
				Origin time = 11 08 23.							De	eP	03 00 16					
				Explosion?									Hindu Kush (h = 200 km).					
"	23	Ki	e(P)	11 48 33					"	24	Up	iPKP	05 08 43.1					
		De	i(P)	11 48 56.7							Ud	iPKP	05 08 45.1					
													Tonga-Kermadec Islands.					
													Origin time = 04 49 19.					
"	23	Um	iP	12 06 08.9					"	24	Um	eP	05 23 31					
		Ud	iP	12 05 59.7							Ud	iP	05 24 02.2					
		De	iP	12 05 48.0									Japan (h = 50 km).					
"	23	Up	iP	12 11 23.1					"	24	Up	iPKP	08 42 47.5					
			i	12 11 56.1									micr sec					
		Ki	iP	12 11 16.4									PKP	Z' 0.1 0.7				
		Sk	iP	12 11 40.2									Um	iPKP	08 42 36.4			
		Um	iP	12 11 14.7 C									Ud	iPKP	08 42 48.6			
		Ud	iP	12 11 37.9 C									De	iPKP	08 43 00.3			
		De	iP	12 11 39.5											Tonga-Kermadec Islands			
				Tibet (h = N).											(h = 90 km).			
"	23	Up	iP	15 01 04.8					"	24	Up	iP	11 10 00.8					
"	23	Up	iP	22 33 07.4 C							Ud	i(P)	11 10 16.7					
			ipP	22 33 38.5									Luzon (h = 40 km).					
				micr sec														
			P	Z' 0.1 0.7														
		Ki	iP	22 32 16.8 C					"	24	Ki	iPn	13 03 46.7					
				micr sec									iSn	13 04 36.2				
			P	Z' 0.1 1.0									iLgl	13 04 51.6				
		Sk	iP	22 32 53.0										D = 460 km = 4.1°.				
			ipP	22 33 27.9										Probably northwest Russia.				
		Um	iP	22 32 40.2 C										Origin time = 13 02 42.				
			isP	22 33 23.1										Explosion?				
		Ud	iP	22 33 12.1 C					"	24	Sk	iLgl	13 06 13.0					
			ipP	22 33 42.7							Um	iSg	13 05 03.6					
		De	iP	22 33 32.2 C									Esthonia. Explosion?					
				Kurile Islands.					"	24	Up	iP	15 48 48.0					
				h = 130 km (Up,Sk,Um,Ud).							Ud	iP	15 48 55.7					
				m = 5.8 (Up,Ki).									Greece (h = 110 km).					
"	24	Up	iP	02 44 49.0					"	24	Ki	iP	18 20 33.8					
		Ki	eP	02 44 32							Um	iP	18 20 39.3					
		Um	iP	02 44 40.0							Ud	iP	18 20 57.6					
		Ud	iP	02 44 54.0									Halmahera (h = 50 km).					
			i	02 45 01.7					"	24	Up	iP	19 12 15.5 C					
				Mindanao (h = 70 km).									(cont.)					
"	24	Up	iP	03 00 00.3 C					"	24	Up	iP	19 12 15.5 C					
			(cont.)										(cont.)					

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

1970

Jan. 24	(cont.)			
	Up	i	19 12 26.8	
			micr sec	
		P	Z' 0.2 0.6	
	Mx	E	1.1 19	
	Mx	N	3.3 23	
	Mx	Z	1.3 16	
	Ki	iP	19 11 55.2	
		ipP	19 12 12.2	
			micr sec	
		pP	Z' 0.3 1.5	
	Mx	E	1.5 18	
	Mx	N	1.1 18	
	Mx	Z	1.1 15	
	Sk	iP	19 12 19.5 C	
		ipP	19 12 36.4	
	Um	iP	19 12 02.1 C	
		ipP	19 12 18.7	
	Ud	iP	19 12 24.7	
		i	19 12 35.6	
		ipP	19 12 41.5	
	De	iP	19 12 30.8	
			Luzon. h = 60 km	
			(Ki,Sk,Um,Ud).	
			m = 6.3, M = 5.7 (Up,Ki).	
"	24	Up	iP 19 56 41.6	
		Ud	iP 19 56 51.5	
"	24	Up	iPKP 23 21 54.6	
		Ud	iPKP 23 21 56.0 C	
		De	iPKP 23 22 06.3	
			Tonga-Kermadec Islands.	
			Origin time = 23 02 30.	
"	25		Long-period microseisms	
			(periods around 18 sec)	
			are recorded on January	
			25-26, especially clear	
			on LP N at Umeå.	
"	25	Up	iP 02 46 34.1	
		Ki	eP 02 45 52	
		Um	iP 02 46 11.2	
		Ud	iP 02 46 42.2 C	
			Japan (h = 60 km).	
"	25	Up	iPKP 03 32 03.6 C	
		Ud	iPKP 03 32 05.4	
			Tonga-Kermadec Islands	
			(h = 100 km).	
"	25	Up	iSg 03 59 24.1	
			(cont.)	

1970

Jan. 25	(cont.)			
	Ki	iPn	03 55 06.6	
		iSn	03 56 03.6	
		iLg1	03 56 20.3	
			D = 520 km = 4.7°.	
	Sk	iSg	03 58 58.2	
	Um	iSg	03 56 59.2	
		iSg	03 57 19.2	
			Northwest Russia,	
			67.6°N, 32.7°E.	
			Origin time = 03 53 53.	
			Explosion?	
"	25	Up	eP 06 41 36	
		Um	iP 06 41 15.9	
"	25	Up	eP 10 02 07	
		Ud	iP 10 02 10.9	
			Greece.	
"	26	Up	iP 00 48 32.3 C	
		Ki	iP 00 47 38.7	
		Sk	iP 00 48 15.3	
		Um	iP 00 48 03.6	
		Ud	iP 00 48 35.8 C	
		De	iP 00 48 57.2 C	
			Kamchatka (h = N).	
"	26	Up	iP 02 10 18.1	
		i	02 10 25.3	
		Um	iP 02 10 01.0	
		Ud	iP 02 10 34.2	
"	26	Up	iP 03 20 23.7	
		Um	iP 03 20 12.5	
		Ud	iP 03 20 47.0	
"	26	Up	iP 04 56 41.8 C	
		Um	iP 04 56 22.6	
		Ud	iP 04 56 49.2 C	
"	26	Up		micr sec
		Mx	E	6.0 22
		Mx	N	11 21
		Mx	Z	11 23
		Ki	iPKP	10 20 06.9
				micr sec
		Mx	E	6.2 21
		Mx	N	3.6 19
		Mx	Z	8.2 20
		Sk	iPKP	10 20 18.4 D
		Um	iPKP	10 20 11.7
		Ud	iPKP	10 20 23.8
				(cont.)

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

1970		1970	
Jan.	26	Jan.	27
	(cont.)		(cont.)
	Ud iPKS 10 23 49.6		Sk iP 00 02 05.7
	De iPKP 10 20 28.5		Um iP 00 02 03.4 C
	Santa Cruz Islands		Ud iP 00 02 28.5
	(h = 50 km).		De iP 00 02 51.6
	M = 6.6 (Up,Ki).		Aleutian Islands (h = 50 km).
"	26	"	27
	Sk eSg 13 18 10		Up i(PKP) 00 49 16.4
	Um iSg 13 16 55.2		iPKP 00 49 26.4
	Ud iSg 13 17 19.6		PKP Z' 0.1 0.8
	De iSg 13 17 11.7		Um iPKP 00 49 22.3
	Baltic States. Explosion?		Ud iPKP 00 49 27.7 D
			De iPKP 00 49 38.3 D
"	26		Tonga-Kermadec Islands.
	De iPKP 14 34 18.0		Origin time = 00 30 01.
	Fiji Islands (h = 570 km).		
"	26	"	27
	Up iP 16 45 52.2		Up micr sec
	ipP 16 46 39.0		Mx N 1.2 20
	i(sP) 16 47 10.6		Ki iP 07 17 26.6
	micr sec		Sk iP 07 17 59.5
	pP Z' 0.1 0.6		Um iP 07 17 31.7
	Ki iP 16 46 01.6		Ud iP 07 18 03.6
	ipP 16 46 50.0		De iP 07 18 14.3
	isP 16 47 10.8		Mongolia (h = N).
	micr sec		
	P Z' 0.1 1.5	"	27
	Sk iP 16 46 19.0		Up iPKP 09 21 48.3
	ipP 16 47 05.1		micr sec
	Um iP 16 45 50.8		Mx N 1.3 21
	ipP 16 46 36.6		Mx Z 1.7 21
	Ud iP 16 46 09.7		Ki iPKP 09 21 34.2
	ipP 16 46 56.7		Sk iPKP 09 21 45.1
	De ipP 16 46 52.8		Um iPKP 09 21 40.1
	Hindu Kush. h = 230 km		Ud iPKP 09 21 49.8
	(Up,Ki,Sk,Um,Ud).		De iPKP 09 21 57.3
"	26		Santa Cruz Islands (h = 50 km).
	Up iP 18 13 32.3	"	27
	Ud iP 18 13 32.5		Up iP 09 42 10.0
"	26		ipP 09 42 15.9
	Um eP 19 20 59		Ki iP 09 42 13.9 C
	Ud iP 19 21 20.4		ipP 09 42 19.7
	Unimak Island (h = N).		micr sec
"	26		P Z' 0.2 1.1
	Ki iP 22 29 11.7		Sk iP 09 41 57.5 C
	Um iP 22 29 21.8		ipP 09 42 03.1
	Mariana Islands (h = 60 km).		Um iP 09 42 15.1 C
"	26		ipP 09 42 21.1
	Ud ePKP 23 32 08		Ud iP 09 41 59.8 C
	Easter Island (h = N).		ipP 09 42 05.6
"	27		De iP 09 42 00.9 C
	Up iP 00 02 29.3		ipP 09 42 06.9
	Ki iP 00 01 37.0		Colombia. h = 20 km
	(cont.)		(Up,Ki,Sk,Um,Ud,De).

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

1970				1970					
Jan.	27	Up	iP	10 59 18.7 C	Jan.	27	Up	iP	18 32 27.2
				micr sec				ipP	18 32 56.9
			P	Z' 0.1 0.7			Ki	iP	18 32 01.7 C
		Ki	iP	10 58 59.6				ipP	18 32 32.6
				micr sec			Sk	eP	18 32 29
			P	Z' 0.1 1.0				ipP	18 33 00.1
		Sk	iP	10 59 28.1			Um	iP	18 32 10.4
		Um	iP	10 59 04.1				ipP	18 32 41.0
		Ud	iP	10 59 31.6 C			Ud	iP	18 32 35.7
		De	iP	10 59 38.8				ipP	18 33 06.7
		Tsinghai, China (h = N).					Formosa. h = 120 km		
		m = 5.9 (Up,Ki).					(Up,Ki,Sk,Um,Ud).		
"	27	Um	iP	11 22 53.4	"	27	Up	iPKP	18 35 43.1
		Ud	iP	11 23 25.7			Um	iPKP	18 35 31.7
"	27	Up	iP	11 27 30.9 C			Ud	iPKP	18 35 44.8
				micr sec			De	iPKP	18 35 55.0
			P	Z' 0.1 0.7	"	27	Ki	iP _n	19 12 54.1
		Ki	iP	11 26 34.8 C				iP ^x	19 13 02.6
				micr sec				iSn	19 13 40.8
			P	Z' 0.1 1.0				iLg1	19 13 53.6
		Sk	iP	11 27 12.1 C				D = 430 km = 3.9°	
		Um	iP	11 27 01.2 C			Sk	eSn	19 15 47
		Ud	iP	11 27 33.9 C				iLg1	19 16 33.6
		De	iP	11 27 54.5			Um	i(Pn)	19 13 34.6
		Kamchatka (h = 40 km).						iSn	19 14 47.4
		m = 5.9 (Up,Ki).						iSg	19 15 26.7
"	27	Ki	e(P)	11 38 39			Ud	iSn	19 16 32.6
		Um	iP	11 39 01.5				iSg	19 17 57.5
		Ud	iP	11 39 33.3			Northwest Russia, 68.9°N, 30.5°E.		
"	27	Up	iP	11 44 29.8			Origin time = 19 11 52.		
		Ki	e(P)	11 44 43			Explosion?		
		Um	iP	11 44 23.1			This is an unusually strong event in this series.		
"	27	Up	i(P)	12 58 43.4	"	27	Up	iP	23 23 55.8
		Um	iP	13 00 42.2				i	23 24 05.3
		Ud	eP	12 59 29	"	28	Ki	eP	04 59 33
		De	iP	12 59 19.0			Sk	iP	04 59 24.7
"	27	Ki	eP	14 12 55			Um	iP	04 59 39.1
		Um	iP	14 12 34.7			Ud	iP	04 59 33.1
		Ud	iP	14 12 46.8			Guatemala (h = 90 km).		
		Iran (h = 35 km).			"	28	Up	iP	08 50 52.4
"	27	Up	iP	14 30 04.8			Um	iP	08 50 28.1
		Ki	eP	14 29 44			Ud	iP	08 50 58.8 C
		Sk	iP	14 30 16.7				ipP	08 51 08.5
		Ud	iP	14 30 17.6			Japan. h = 35 km (Ud).		

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

1970				1970						
Jan.	30	Ki	iP	23 42	20.6	Jan.	31	(cont.)		
		Turkmen SSR (h = N).						Ki	micr	sec
"	31	Up	iP	01 31	39.5			Mx	E	1.5 16
		Sk	eP	01 32	15			Mx	N	1.1 16
		Um	iP	01 32	12.1			Mx	Z	2.0 16
		Ud	iP	01 31	43.2			Sk	iP	16 40 36.2
		Greece (h = N).						Um	iP	16 41 07.5
"	31	Up	iP	03 44	58.1			Ud	iP	16 40 44.4
		Um	iP	03 44	42.4			i		16 40 50.1
		Ud	iP	03 45	04.1			North Atlantic Ocean (h = N).		
		Mariana Islands						M = 5.0 (Up,Ki).		
		(h = 70 km).				"	31	Up	iP	19 06 24.0
"	31	Up	iP	04 28	50.5			Um	iP	19 06 48.2 C
		Sk	iP	04 28	25.7			Ud	iP	19 06 19.1 C
		Ud	iP	04 28	30.9			Ascension Island (h = N).		
		North Atlantic Ocean (h = N).				"	31	Up	iPKP	20 56 38.2
"	31	Up	iP	08 08	51.7			i		20 56 42.1
		Ki	iP	08 08	34.2 C			Um	iPKP	20 56 24.6
		Sk	iP	08 08	53.6			Ud	iPKP	20 56 39.2 C
		Um	iP	08 08	40.0			De	iPKP	20 56 48.7 C
		Ud	iP	08 08	59.6			Kermadec Islands (h = N).		
		Mindanao (h = 60 km).				"	31	Up	iP	21 19 52.5
"	31	De	iP	10 54	46.6			Ki	iP	21 18 58.4
"	31	Up	iP	11 54	00.8 C			i		21 19 05.7
				micr	sec			Um	iP	21 19 25.8 C
		P	Z'	0.1	0.5			i		21 19 30.0
		Ki	iP	11 54	01.9 C			Ud	iP	21 19 57.1
				micr	sec			i		21 20 01.9
		P	Z'	0.1	1.0			iPcP		21 20 23.7
		Sk	iP	11 54	16.5 C			De	iP	21 20 17.0
		Um	iP	11 53	58.4			Kurile Islands (h = 40 km).		
		Ud	iP	11 54	11.8 C			Up	iP	22 36 06.4 C
		De	iP	11 54	10.2			Ki	iP	22 36 01.4 C
		Sumatra (h = 60 km).						Um	iP	22 36 04.6 C
		m = 6.0 (Up,Ki).						i		22 36 08.9
"	31	Up	iP	14 51	00.8			Ud	iP	22 35 56.5
		Sk	eP	14 51	44			De	iP	22 36 02.4
"	31	Up	iP	16 41	00.0			Honduras (h = 45 km).		
				micr	sec			Markus Båth		
		Mx	E	2.7	20			December 23, 1970		
		Mx	N	2.8	20					
		Mx	Z	3.0	19					
		Ki	eP	16 41	06					
		(cont.)								

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

1970				1970				
Feb.		(cont.)		Feb.				
	2	Up	micr sec		2	Ki	iP 19 06 23.6	
		P	Z' 0.1 0.7			Um	iP 19 06 12.9	
		Ki	iP 17 36 37.3			Ud	iP 19 06 31.2	
		ipP	17 36 48.0				Hindu Kush.	
			micr sec		"	3	Up	iP 06 08 51.3
		P	Z' 0.1 1.0					micr sec
		Sk	iP 17 37 12.5				P	Z' 0.1 0.8
		Um	iP 17 36 57.0 C			Ki	iP 06 08 05.5	
		ipP	17 37 08.8			Um	iP 06 08 26.3	
		Ud	iP 17 37 28.5			Ud	iP 06 08 56.7	
		De	eP 17 37 47					Kurile Islands (h = N).
			Kurile Islands. h = 40 km		"	3	Up	iP 10 12 14.3
			(Up,Ki,Um).				Ki	eP 10 11 29
			m = 6.0 (Up, Ki).				Ud	iP 10 12 20.5 C
"	2	Up	iP 18 00 55.4 C					Kurile Islands (h = 60 km).
		ipP	18 01 06.9		"	3	Ki	iPn 11 02 11.9
			micr sec				iSn	11 03 10.0
		P	Z' 0.6 1.0				iSg	11 03 35.1
		Mx	E 2.6 17				D = 530 km = 4.8°.	
		Mx	N 3.7 17			Sk	eLgl 11 06 04	
		Mx	Z 2.7 17			Um	iSg 11 04 36.5	
		Ki	iP 18 00 09.9					Northwest Russia,
		ipP	18 00 21.3					68.1°N, 33.3°E.
			micr sec					Origin time = 11 00 57.
		P	Z' 0.3 1.0					Explosion?
		Mx	E 5.0 16		"	3	Up	iPKP 11 26 22.1 C
		Mx	N 3.8 17					micr sec
		Mx	Z 8.2 17				PKP	Z' 0.1 0.7
		Sk	iP 18 00 45.5 C				Ud	iPKP 11 26 23.7
		ipP	18 00 57.7					Tonga-Kermadec Islands
		Um	iP 18 00 30.8					(h = 110 km).
		ipP	18 00 42.0		"	3	Um	iP 12 12 17.7
		Ud	iP 18 01 01.7 C		"	3	Um	iPKP 13 53 37.4
		De	iP 18 01 19.1 C					New Hebrides Islands
		ipP	18 01 31.4					(h = 20 km).
			Kurile Islands. h = 45 km		"	3	De	iP 14 37 50.7
			(Up,Ki,Sk,Um,De).		"	3	Um	iP 15 11 01.4
			m = 6.5, M = 5.8 (Up,Ki).		"	3	De	iP 16 09 14.6
"	2	Up	iP 18 16 54.3 C		"	3	Ki	iPKP 19 14 11.6
		ipP	18 17 06.0				Um	i(PKP) 19 14 09.3
			micr sec				ipKP	19 14 18.9
		P	Z' 0.2 0.9					New Hebrides Islands
		Ki	iP 18 16 09.1 C					(h = 40 km).
		ipP	18 16 21.4					
			micr sec					
		P	Z' 0.1 1.0					
		Sk	iP 18 16 44.4					
		Um	iP 18 16 28.9					
		Ud	iP 18 17 00.1					
			Kurile Islands. h = 45 km					
			(Up,Ki).					
			m = 6.0 (Up,Ki).					

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

1970						1970						
Feb.	3	Up	iP	19 28 21.0 C		Feb.	4	Ki	iPn	12 34 34.8		
				micr sec					iSn	12 35 22.6		
			P	Z' 0.2 1.0					iLgl	12 35 38.5		
		Ki	iP	19 27 34.7 C					D = 440 km = 4.0°			
				micr sec					Origin time = 12 33 32.			
			P	Z' 0.2 1.0					Explosion?			
		Sk	iP	19 28 10.8								
		Um	iP	19 27 56.3 C		"	4	Ki	iPn	12 52 09.3		
		Ud	iP	19 28 27.1 C					iP ^x	12 52 17.8		
		De	iP	19 28 44.6 C					iSn	12 52 55.9		
		Kurile Islands (h = 25 km).							iLgl	12 53 10.8		
		m = 6.2 (Up,Ki).							D = 430 km = 3.9°			
"	4	Up	iP	05 21 46.5				Sk	iLgl	12 55 58.3		
			i	05 22 02.6				Um	iSn	12 54 04.9		
			i	05 24 37.9					iLgl	12 54 37.2		
			iPP	05 25 23.8					iSg	12 54 48.8		
				micr sec				Northwest Russia,				
		PP	Z' 0.5 1.8					69.3°N, 30.5°E.				
		Mx	E 7.9 19					Origin time = 12 51 07.				
		Mx	N 12 22					Explosion?				
		Mx	Z 14 21			"	4	Up	iP	13 18 15.5		
		Ki	iP	05 21 29.4					ipP	13 18 27.5		
			i	05 21 35.3						micr sec		
			iPP	05 24 58.0					P	Z' 0.1 0.6		
				micr sec					Mx	E 1.3 17		
			P	Z' 0.2 1.5					Mx	N 1.0 16		
			PP	Z' 0.9 2.0					Mx	Z 1.3 17		
			Mx	E 14 21				Ki	iP	13 17 30.3		
			Mx	N 5.8 19					i	13 17 31.4		
			Mx	Z 17 20						micr sec		
		Sk	iP	05 21 23.0					P	Z' 0.1 1.0		
			i	05 21 28.8					Mx	E 1.6 15		
		Um	iP	05 21 39.2 C					Mx	N 1.1 16		
			iPP	05 25 10.9					Mx	Z 2.8 16		
		Ud	iP	05 21 35.9				Sk	eP	13 18 06		
			i	05 21 40.6				Um	iP	13 17 51.1		
		De	iP	05 21 50.4				Ud	iP	13 18 22.2 C		
		Mexico (h = 20 km).						De	iP	13 18 40.4		
		m = 6.5, M = 6.4 (Up,Ki).						Kurile Islands. h = 45 km				
		Double P (Ki,Sk,Ud).						(Up).				
"	4	Up	iP	10 29 11.2 C				m = 6.0, M = 5.3 (Up,Ki).				
		Ki	iP	10 28 32.9				"	4	Ki	eP	13 40 27
		Sk	iP	10 29 05.2						i	13 40 35.3	
		Um	iP	10 28 49.7 C				Sk	eP	13 40 39		
		Ud	iP	10 29 18.6 C					i	13 40 43.8		
		De	eP	10 29 33				Um	iP	13 40 49.4		
		Japan (h = 60 km).						Ud	e(P)	13 42 29		
"	4	Um	iP	12 25 41.2					i	13 42 34.9		
"	4	Um	iP	12 33 54.8				"	4	Up	eP	15 17 02
			i	12 34 07.5								
		Ud	iP	12 34 26.6				"	4	Sk	eP	16 20 39
		Japan (h = 25 km).										

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

1970				1970						
Feb.	6	Ki	i(P)	11 31	29.7	Feb.	6	(cont.)		
		De	eP	11 32	34			Um	iP	22 43 22.2
"	6	Um	iP	11 49	59.4			ipP		22 43 33.8
		De	iP	11 48	03.5			Ud	iP	22 43 43.0
"	6	Ki	i(P)	13 03	08.5			i		22 43 49.7
		Um	iP	13 02	39.4			De	iP	22 43 44.3
		Ud	i(P)	13 03	52.3			Yunnan, China. h = 45 km		
			i	13 04	06.6			(Um).		
								Double P (cf preceding event).		
"	6	Up	iP	14 08	10.7	"	6	Um	iP	22 44 50.3
		Ki	iP	14 07	26.5			Ud	iP	22 45 09.4
		Um	iP	14 07	45.8			De	iP	22 45 06.7
		Ud	iP	14 08	17.0	"	7	Ud	iP	01 12 53.6
			ipP	14 08	28.4	"	7	Up	iP	01 52 45.7
		De	iP	14 08	35.0			i		01 52 51.4
		Kurile Islands. h = 40 km						Um	iP	01 52 27.3
		(Ud).						Bonin Islands (h = N).		
"	6	Ki	iP	14 15	34.3	"	7	Up	iP	08 09 53.6 C
		Ud	i(P)	14 15	20.6	"	7	De	iP	09 50 21.9
"	6	Ud	iP	19 10	15.6			i		09 50 32.7
			i	19 10	25.6	"	7	Up	iP	10 11 58.7
"	6	Up	iP	22 21	31.9			i		10 12 02.4
			i	22 21	51.8			iPP		10 14 28.9
										micr sec
		P	Z'	0.1	1.0			P	Z'	0.4 0.9
		Mx	E	2.9	19			Mx	E	2.7 18
		Mx	N	19	22			Mx	N	5.8 18
		Mx	Z	4.0	18			Mx	Z	5.2 18
		Ki	iP	22 21	21.3			Ki	iP	10 11 11.0
			i	22 21	24.2					micr sec
								P	Z'	0.2 1.5
		P	Z'	0.2	1.1			Mx	E	5.8 17
		Mx	E	8.5	19			Mx	N	3.9 18
		Mx	N	7.9	23			Mx	Z	8.1 18
		Mx	Z	12	18			Sk	iP	10 11 46.1 C
		Sk	iP	22 21	44.6 C			i		10 11 49.6
			iPcP	22 22	11.1			Um	iP	10 11 33.2
		Um	iP	22 21	22.6 C			i		10 11 36.6
			iS	22 30	09			Ud	iP	10 12 02.9
		Ud	iP	22 21	44.7			i		10 12 08.1
			i	22 21	47.2			iPP		10 14 34.3
		Yunnan, China (h = N).						De	iP	10 12 23.5
		m = 6.2, M = 5.9 (Up,Ki).						i		10 12 27.1
		Double P (Ki,Ud).						Kurile Islands (h = N).		
"	6	Up	iP	22 43	32.4			m = 6.3, M = 5.9 (Up,Ki).		
		Ki	eP	22 43	21			Double P.		
		Sk	iP	22 43	48.2	"	7	Up	iP	10 14 47.9
		(cont.)						(cont.)		

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

Year	Month	Day	Station	Type	Time	Phase	Time	Phase	Time	Phase						
1970	Feb.	7	Up	iP	12 26	14.3										
				P	Z'	0.2	0.7									
			Ki	iP	12 25	26.6										
			Sk	iP	12 26	00.7										
			Um	iP	12 25	47.7										
			Ud	iP	12 26	19.0	C									
			De	iP	12 26	38.0										
			Kurile Islands (h = N).													
			Origin time = 10 03 55.													
			"	7	7	Up	iP	10 27	37.7	C						
Ki	eP	10 26				49										
Sk	eP	10 27				24										
Um	iP	10 27				12.6										
Ud	iP	10 27				43.2										
De	eP	10 28				03										
Kurile Islands (h = N).																
"	7	7				Ud	iP	11 44	41.0							
						Mindanao (h = 100 km).										
						"	7	7	Ud	iP	11 52	32.5				
Mindanao (h = 90 km).																
"	7	7	Up	iP	12 18	09.0	C									
				P	Z'	0.2	0.8									
			Ki	iP	12 17	20.5										
			Sk	iP	12 17	56.1										
			Um	iP	12 17	42.9	C									
			Ud	iP	12 18	14.4	C									
			De	iP	12 18	33.0										
			Kurile Islands (h = N).													
			"	7	7	Up	iP	12 18	28.7							
							P	Z'	1.0	1.0						
Mx	E	2.9				17										
Mx	N	6.9				18										
Mx	Z	6.9				18										
Ki	iP	12 17				40.2	C									
	Mx	E				5.3	16									
	Mx	N				3.5	17									
	Mx	Z				7.1	18									
Sk	iP	12 18				16.5	C									
Um	iP	12 18	03.1	C												
Ud	iP	12 18	34.4	C												
De	iP	12 18	53.2	C												
Kurile Islands (h = N).																
M = 5.9 (Up, Ki).																
"	7	7	Up	iP	12 24	07.8										
			Ud	iP	12 24	12.8										
			Kurile Islands.													
			Origin time = 12 13 14.													
			"	7	7	Up	iP	12 26	14.3							
							P	Z'	0.2	0.7						
						Ki	iP	12 25	26.6							
						Sk	iP	12 26	00.7							
						Um	iP	12 25	47.7							
						Ud	iP	12 26	19.0	C						
De	iP	12 26				38.0										
Kurile Islands (h = N).																
"	7	7				Up	iP	12 30	42.9							
						Sk	eP	12 30	30							
			Um	iP	12 30	17.2										
			i	12 30	18.1											
Ud	iP	12 30	48.2	D												
De	eP	12 31	06													
Kurile Islands (h = N).																
"	7	7	Up	iLg1	14 59	59.9										
			Um	iSg	15 00	45.2										
			De	iLg1	15 01	41.5										
Esthonia. Explosion?																
"	7	7	Up	iP	15 04	50.6										
				P	Z'	0.1	0.8									
			Ki	iP	15 04	02.9	C									
			Sk	iP	15 04	38.0										
			Um	iP	15 04	24.3	C									
			Ud	iP	15 04	55.8										
			De	iP	15 05	13.4										
			Kurile Islands (h = N).													
			"	7	7	Up	iP	15 06	53.0	C						
							ipP	15 07	04.6							
	P	Z'				0.1	0.7									
	pP	Z'				0.1	0.7									
Ki	iP	15 06				04.4										
Sk	eP	15 06				39										
Um	iP	15 06				27.3										
	ipP	15 06				38.4										
Ud	iP	15 06				58.0										
	ipP	15 07				09.8										
De	eP	15 07	17													
	ipP	15 07	28.6													
Kurile Islands. h = 45 km (Up, Um, Ud, De).																
"	7	7	Up	iPg	18 06	23.3										
				iLg1	18 07	37.3										
				iRg	18 08	11.5										
			De	iPn	18 04	58.3										
				iSn	18 05	34.1										
				iRg	18 05	52.9										
Probably explosion in the southern Baltic area.																

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

1970				1970			
Feb.	8	(cont.)		Feb.	10	(cont.)	
		Ud	iP 19 28 20.3			Um	iSn 02 40 38.3
		De	iP 19 28 42.2				iSg 02 40 52.2
		Aleutian Islands (h = 15 km).				Nordland, Norway.	
						Origin time = 02 38 55.	
"	8	Ki	i(pP) 21 24 45.2	"	10	Up	iSKP 02 50 28.2
		Ud	iP 21 25 06.4			Ki	iPKP 02 47 02.9
		Formosa (h = 70 km).				Sk	iPKP 02 47 14.1
						Um	iPKP 02 47 09.0
"	8	Up	iP 22 19 58.1			New Hebrides Islands	
			micr sec			(h = 140 km).	
			P Z' 0.1 0.8				
		Ki	iP 22 20 00.5 C	"	10	Um	iP 09 24 32.6
		Sk	iP 22 20 15.3				
		Um	iP 22 19 56.0	"	10	De	iPg 10 06 10.5
		Ud	iP 22 20 09.7 C				iSg 10 06 27.8
		De	iP 22 20 07.2 C			South Baltic, 55.7°N, 15.6°E.	
		Nicobar Islands (h = N).				Origin time = 10 05 45.	
"	9	Up	iP 00 06 52.9			Probably underwater explosion.	
		Um	iP 00 06 53.5	"	10	Up	iSg 10 09 31.5
		Ud	iP 00 06 59.3			Ud	eSg 10 09 36
		De	iP 00 06 44.9			De	iPg 10 07 36.0
"	9	Ud	iP 00 43 24.8				iSg 10 07 53.5
"	9	Up	iP 02 08 47.2			D = 140 km = 1.3°.	
			micr sec			South Baltic, 55.7°N, 15.6°E.	
			P Z' 0.1 0.5			Origin time = 10 07 10.	
		Sk	iP 02 09 29.3			Probably underwater explosion.	
		Um	iP 02 09 29.2	"	10	De	iPg 10 09 01.6
			i 02 09 35.9				iSg 10 09 18.8
		Ud	iP 02 08 53.0 C			South Baltic, 55.7°N, 15.6°E.	
		Greece-Albania (h = 50 km).				Origin time = 10 08 35.	
"	9	Um	iP 04 14 17.6			Probably underwater explosion.	
"	9	Sk	eP 11 13 31	"	10	Up	iP 10 52 01.6
		Um	iP 11 13 00.6				ipP 10 52 18.8
		Ud	iP 11 13 02.3			Sk	iP 10 51 58.4
"	9	Up	i(Sg) 12 26 03.1			Um	iP 10 51 41.7
"	9	Up	iP 17 09 32.2			Ud	iP 10 52 10.8 D
		Um	iP 17 09 06.4			Japan. h = 60 km (Up).	
		Ud	iP 17 09 37.1	"	10	Up	iP 13 47 31.8
"	10	Up	iP 02 09 44.5	"	10	Ki	iP 14 19 33.8
		Ud	iP 02 09 46.0			Um	eP 14 19 43
		De	i(P) 02 10 00.0			Ud	iP 14 19 59.7
						Mindanao (h = 80 km).	
"	10	Ki	eSg 02 40 23	"	10	Sk	i(Sg) 15 24 33.1
		Sk	iSg 02 40 28.3			Ud	i 15 23 14.4
		(cont.)					i(Sg) 15 23 33.2

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

1970				1970								
Feb.	10	Ki	iP	17 14	37.8	Feb.	11	Sk	i(Sg)	09 13	37.0	
			eT	17 19	45			Um	i	09 11	35.0	
			i	17 20	13.0				i(Sg)	09 12	02.2	
		Sk	iP	17 15	14.4	"	11	Up	iP	09 55	29.9	
			iS	17 16	57.5							
		Um	iP	17 15	25.5	"	11	Ki	iPn	10 52	27.6	
		Ud	iP	17 16	01.9				iSn	10 53	26.4	
		Northeast of Jan Mayen (h = N).							i(Lgl)	10 53	48.8	
									D = 540 km = 4.9°.			
"	10	Up	iSKP	18 06	37.1			Um	eSg	10 54	21	
		Um	iSKP	18 06	20.0			Probably northwest Russia. Origin time = 10 51 11. Explosion?				
		Fiji Islands (h = 550 km).										
"	10	Up	iP	19 48	05.0	"	11	De	iPg	12 37	36.5	
			i	19 52	07.7				iSg	12 37	56.1	
			iPP	19 52	15.7			Probably underwater explosion in the South Baltic.				
		Ki	iP	19 47	49.9							
		Sk	ePP	19 52	42	"	11	Up	iSg	13 10	46.7	
		Um	iP	19 47	54.6			Sk	eSg	13 12	47	
			iPP	19 52	11.7			Ud	iSg	13 10	56.0	
		Ud	iP	19 48	12.8			De	iPg	13 08	47.2	
			iPP	19 52	46.7				iSg	13 09	06.0	
		Banda Sea (h = 140 km).							D = 170 km = 1.5°.			
"	10	Um	iP	20 03	42.8			South Baltic, 55.4°N, 15.8°E. Origin time = 13 08 17. Probably underwater explosion.				
"	10	Ki	iPg	20 32	50.7							
			i	20 33	07.6							
			iSg	20 33	16.4	"	11	Up	iLgl	14 24	39.9	
"	10	Up	eP	21 13	18			Um	iSg	14 25	15.6	
		Sk	eP	21 13	32				i	14 25	29.6	
		Um	eP	21 13	05			Ud	iLgl	14 25	43.2	
			i	21 13	14.4			De	eLgl	14 26	07	
		Ud	eP	21 13	23			Esthonia. Explosion?				
		Sumatra (h = 35 km).					"	11	Up	iP	15 14	41.2
"	11	Up	iPKP	01 15	51.1 C			Ud	iP	15 14	45.4	
		Ud	iPKP	01 15	53.1 C	"	11	Up	iP	19 06	11.2 C	
		De	iPKP	01 16	03.2				i	19 06	28.2	
"	11	Up	iPKP	02 19	14.7				iS	19 10	11.4	
		Um	iPKP	02 19	04.5					micr	sec	
			i	02 19	13.5				P	Z'	0.2 0.6	
		Ud	iPKP	02 19	13.1			Ki	iP	19 07	23.2 C	
		De	iPKP	02 19	24.4 C			Sk	iP	19 06	51.5 C	
		Tonga Islands (h = N).						Um	iP	19 06	47.1	
"	11	Up	iP	02 36	31.0			Ud	iP	19 06	18.1 C	
		Um	iP	02 36	26.6				iS	19 10	26.3	
		Mexico (h = 60 km).						De	iP	19 05	43.1 C	
"	11	Up	iP	04 41	47.8			Greece (h = 70 km).				
		Ud	iP	04 42	03.0	"	11	Up	iP	19 13	33.9 C	
		Hindu Kush.						(cont.)				

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

1970				1970			
Feb.	Day	Station	Time	Feb.	Day	Station	Time
	11	(cont.)			12	(cont.)	
		Um iP	19 13 44.0 C			Sk i	11 05 08.3
		De iP	19 13 27.5			Um iPKP	11 04 47.9
"	11	Up iP	19 26 48.4			Ud iPKP	11 05 01.2
		Ud iP	19 26 41.2			De iPKP	11 05 10.2
		Nevada.				Kermadec Islands (h = N).	
		Underground explosion.		"	12	Um iP	11 59 36.0
"	11	Up iP	19 56 13.8	"	12	Ki eLgl	13 03 33
		Ki iP	19 55 40.4			eSg	13 03 54
		Um iP	19 55 53.1			Sk eLgl	13 03 09
		De iP	19 56 38.0			Um iSg	13 01 52.6
		China (h = N).				Ud iLgl	13 02 29.4
"	11	Up iP	21 12 19.3			De eSn	13 02 10
		Um iP	21 12 45.9			iLgl	13 02 48.7
		Ud iP	21 12 39.2 D			Esthonia. Explosion?	
		De iP	21 12 06.1	"	12	Ki iP	14 29 52.0
		Turkey.				Um iP	14 30 00.5
"	11	Um iP	21 17 40.4			Ud eP	14 30 20
						Mindanao (h = 60 km).	
"	11	Um iP	22 29 33.4	"	13	Up iP	02 33 36.1
"	11	Um iP	22 33 08.5 C			Um iP	02 33 15.7
		Hindu Kush (h = 140 km).				De iP	02 33 20.3
"	11	Up iP	22 33 35.7	"	13	Up iP	03 25 01.4
		Ud iP	22 33 51.6 C			i	03 25 03.0
"	12	Up iP	02 00 58.4			iS	03 35 00.9
		i	02 01 08.0				micr sec
			micr sec			P	Z' 0.1 0.5
		P	Z' 0.1 0.7			Mx	E 0.9 22
		Ki iP	02 01 00.2			Mx	N 1.2 20
			micr sec			Mx	Z 1.2 19
		P	Z' 0.1 1.0			Ki iP	03 24 31.7
		Sk iP	02 01 19.9 C			i	03 24 32.7
		Um iP	02 00 54.3 C				micr sec
		Ud iP	02 01 13.7 C			Mx	E 1.2 23
		De iP	02 01 12.8			Mx	N 1.1 23
		i	02 01 20.2			Sk iP	03 24 58.3
		Nepal (h = 45 km).				iPP	03 28 12.1
		m = 5.9 (Up,Ki).				Um iP	03 24 44.3
"	12	Um iP	05 15 35.4			ipP	03 25 33.8
		Ud iP	05 16 09.9			iS	03 34 31.9
		De iP	05 16 45.6			Ud iP	03 25 08.3 C
		Greenland Sea (h = N).				eS	03 35 16
"	12	Um iP	05 56 09.0			De iP	03 25 19.8
"	12	Up iPKP	11 04 58.6			Volcano Islands. h = 200 km (Um)	
		Sk iPKP	11 04 52.5			M = 5.3 (Up,Ki).	
		(cont.)				M uncorrected for focal depth.	
"	12	Um iP	05 56 09.0	"	13	Um iP	05 10 16.3
"	12	Up iPKP	11 04 58.6	"	13	Up iPKP	05 17 12.2
		(cont.)				(cont.)	

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

1970				1970						
Feb.	13	(cont.)		Feb.	13	(cont.)				
		Up	i	05 17 19.1		De	iPP	16 00 20.4		
				micr sec				Java Sea. h = 640 km (Ud).		
			PKP	Z' 0.1 0.5				m = 6.4, M = 5.8 (Up,Ki).		
		Ki	iPKP	05 16 58.8				M uncorrected for focal depth.		
		Sk	iPKP	05 17 07.7		"	13	Up	iP	15 56 37.8
		Um	iPKP	05 17 01.6				Ki	iP	15 56 30.5
		Ud	iPKP	05 17 13.0				Sk	iP	15 56 48.0
			i	05 17 15.6				Um	iP	15 56 30.8
		De	iPKP	05 17 23.2				Ud	iP	15 56 46.7
				South of Kermadec Islands						Java Sea.
				(h = 240 km).						Aftershock of preceding event,
"	13	Um	iP	07 32 55.1						with an origin time 39.7 sec
"	13	Sk	iP	09 39 59.7						later.
"	13	Ki	iPn	11 35 56.0 C	"	13	Up	iP	16 50 38.9	
			iSn	11 36 55.1			Ki	iP	16 49 43.8 C	
			iSg	11 37 18.5			Sk	iP	16 50 19.3	
				D = 560 km = 5.0°.			Um	iP	16 50 10.0	
		Sk	iLgl	11 39 42.4			Ud	iP	16 50 42.1	
		Um	iSn	11 37 33.6						Kamchatka (h = N).
			iSg	11 38 10.0	"	13	Um	iP	20 15 45.8	
				Northwest Russia,						Japan (h = 270 km).
				67.7°N, 33.7°E.						
				Origin time = 11 34 37.						
				Explosion?	"	14	Up	iP	01 26 11.5	
"	13	Up	iP	12 27 12.9			Ki	iP	01 25 48.8	
		Ki	iP	12 26 51.2			Um	iP	01 25 50.6	
		Um	iP	12 26 57.7				i	01 25 57.0	
		Ud	iP	12 27 22.6			Ud	iP	01 26 26.0	
				Formosa (h = 50 km).	"	14	Up	iP	05 34 59.2	
"	13	Up	iP	15 55 58.0				i	05 35 09.7	
				micr sec			Um	iP	05 35 00.9	
			P	Z' 0.1 0.5			Ud	iP	05 35 23.1	
			Mx	E 1.3 22	"	14				Tibet (h = 15 km).
			Mx	N 2.4 20			Up	iP	11 30 59.2	
			Mx	Z 1.9 20				iPP	11 35 02.6	
		Ki	iP	15 55 50.9					micr sec	
				micr sec				Mx	E 1.1 19	
			P	Z' 0.2 1.0				Mx	N 1.0 20	
			Mx	E 2.1 18				Mx	Z 1.6 20	
			Mx	N 1.0 17			Ki	iP	11 31 05.0	
			Mx	Z 2.3 17					micr sec	
		Sk	iP	15 56 07.7				Mx	E 1.8 18	
			iPP	16 00 29.8				Mx	N 1.2 19	
			ipPP	16 02 23.5				Mx	Z 2.0 18	
		Um	iP	15 55 51.7			Sk	iP	11 30 49.4	
			iSKS	16 05 28			Um	iP	11 31 05.0	
		Ud	iP	15 56 07.2			Ud	iP	11 30 50.4 C	
			ipP	15 58 23.3				iPP	11 34 44.1	
		De	iP	15 56 08.8			De	eP	11 30 51	
				(cont.)						Peru (h = 35 km).
										M = 5.6 (Up,Ki).

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

1970				1970					
Feb.	14	Ki	iPn	12 25 30.8	Feb.	15	Up	iPKP	15 40 02.5
			iSn	12 26 19.4				i	15 40 06.2
		Um	iSg	12 28 12.7			Sk	iPKP	15 39 55.3
		Northwest Russia. Explosion?					Um	iPKP	15 39 50.8 C
"	14	Up	iSg	14 14 15.6			Ud	iPKP	15 40 04.3 C
		Ki	e	14 11 44				i	15 40 09.2
			iSg	14 12 10.8			De	iPKP	15 40 13.1 C
		Sk	iPg	14 11 38.0				i	15 40 23.0
			iSg	14 12 16.9	"	15	Up	iP	20 03 40.0
		Um	iPg	14 11 51.5			Um	iP	20 03 16.2
			iSg	14 12 39.2			Ud	iP	20 03 47.2
		Ud	eSn	14 13 33			De	iP	20 04 06.0
			iSg	14 14 06.6			Japan (h = 110 km).		
		Nordland, Norway, 66.5°N, 14.4°E. Origin time = 14 10 39.			"	16	Um	eP	02 34 54
							Greenland Sea (h = N).		
"	15	Up	iP	04 12 56.3 C	"	16	Up	iSg	11 55 53.4
			ipP	04 13 11.0			Um	iSg	11 56 23.7
		Ki	iP	04 12 16.5			De	iLgl	11 57 19.3
			ipP	04 12 31.7			Esthonia.		
		Um	iP	04 12 33.6			Origin time = 11 53 42.		
			ipP	04 12 48.8			Explosion?		
		Ud	iP	04 13 02.6	"	16	Um	i	14 25 12.3
		Japan. h = 55 km (Up,Ki,Um).						i(Sg)	14 25 55.4
"	15	Up	iP	09 05 00.4 D	"	16	Up	eP	15 53 04
			iPcP	09 05 29.6			Sk	iP	15 53 48.6
			iS	09 13 01.0			Um	iP	15 53 51.5
				micr sec			Ud	iP	15 53 11.8
			P	Z' 0.1 0.5			De	eP	15 52 35
		Ki	iP	09 04 14.2			Greece-Albania.		
		Sk	iP	09 04 49.5			Origin time = 15 48 28.		
		Um	iP	09 04 35.4 D	"	16	Up	iP	15 59 57.2
		Ud	iP	09 05 06.1	"	16	Up	epP	16 08 36
			iS	09 13 13.5					micr sec
		De	iP	09 05 24.5			Mx	E	0.6 16
		Okhotsk Sea (h = 440 km).					Mx	N	0.7 17
"	15	Um	e(Sg)	11 51 00			Mx	Z	0.9 18
"	15	Up	iP	12 49 53.0 C			Ki	iP	16 08 14.8 C
			iPP	12 53 56.5				ipP	16 08 22.3
		Ki	iP	12 49 39.9 C					micr sec
				micr sec			P	Z'	0.1 1.6
			P	Z' 0.2 1.0			Mx	E	0.8 16
		Sk	iP	12 49 59.5 C			Mx	N	0.6 19
		Um	iP	12 49 43.7 C			Sk	iP	16 08 33.8
		Ud	iP	12 50 01.6 C				ipP	16 08 42.8
			i(PP)	12 53 44.0			Um	iP	16 08 16.3
		De	iP	12 50 07.0				ipP	16 08 25.9
			iPP	12 54 13.7			Ud	iP	16 08 35.6
		Celebes (h = 150 km).						ipP	16 08 43.5

(cont.)

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

1970				1970			
Feb.	16	(cont.)		Feb.	17	Ki eP	03 32 06
		De iP	16 08 39.1				micr sec
		ipP	16 08 48.4			Mx E	0.6 17
		Celebes. h = 30 km (Ki,Sk,Um,Ud,De).				Mx N	0.5 17
		M = 5.4 (Up,Ki).				Um iP	03 32 10.9
						Ud iP	03 32 29.4
						Celebes (h = 30 km).	
"	16	Up iP	18 03 37.1	"	17	Up iP	04 55 53.2
		Um iP	18 03 47.4				micr sec
"	16	Up iP	18 39 00.4			P Z'	0.1 0.5
		Um iP	18 38 35.1			Ki iP	04 57 08.5
		Ud iP	18 39 06.4 C			Sk iP	04 56 35.7
		De iP	18 39 24.2			Um iP	04 56 34.4
		Kurile Islands (h = N).				Ud iP	04 56 02.6
"	16	Up iP	21 54 46.9 D			i	04 56 04.7
		iSKKP	22 05 49.0			De iP	04 55 25.2
			micr sec			Greece (h = 30 km).	
		Ki PKP Z'	0.7 0.7	"	17	Up iP	05 58 56.6 D
		ePKP	21 54 26				micr sec
		i	21 54 35.9			P Z'	0.3 0.9
			micr sec			Ki iP	05 58 38.4 D
		Sk PKP Z'	0.1 1.0				micr sec
		ePKP	21 54 40			P Z'	0.2 1.0
		i	21 54 42.2			Mx E	0.7 19
		Um iP	21 54 34.4			Mx N	0.5 17
		iSKP	21 57 25.4			Sk iP	05 59 00.4 D
		iSKKP	22 06 07.7			Um iP	05 58 45.8 D
		Ud iP	21 54 49.9 D			Ud iP	05 59 05.0 D
		iSKKP	22 05 45.8			De iP	05 59 11.4 D
		De iP	21 54 58.3			ipP	05 59 29.5
		ipPKP	21 57 08.2			Mindanao. h = 70 km (De).	
		Tonga-Kermadec Islands.				m = 6.4 (Up,Ki).	
		h = 580 km (De).		"	17	Ki iP	07 16 52.9
"	17	Up iP	00 21 04.0			i	07 17 05.9
			micr sec			Um iP	07 17 07.6
		P Z'	0.1 0.5			Mariana Islands (h = N).	
		Ki iP	00 22 20.2 C	"	17	Up iP	07 36 15.4
		Sk iP	00 21 46.3			Sk eP	07 36 52
		Um iP	00 21 43.8 C			i	07 36 53.7
		i	00 22 05.3			Um iP	07 36 54.9
		Ud iP	00 21 10.8			Ud iP	07 36 17.9
		De eP	00 20 33			De iP	07 35 40.5
		iPP	00 20 50.2			Italy (h = 260 km).	
		Greece-Albania (h = 25 km).		"	17	Up i(Sg)	09 12 30.7
"	17	Up iP	03 05 30.8				micr sec
		Mx E	0.4 12	"	17	Up i(Sg)	09 12 30.7
		Mx N	1.0 19	"	17	Ki iPn	12 17 32.9
		Ki eP	03 06 21			iSn	12 18 25.8
			micr sec			i(Lgl)	12 18 36.0
		Mx E	0.9 15			Probably northwest Russia.	
		Mx N	0.6 15			Explosion?	
		Ud iP	03 05 48.0 C	"	17	Ki i(Lgl)	13 06 30.9
		De iP	03 05 29.0			(cont.)	
		Turkey (h = 35 km).					
		M = 4.6 (Up,Ki).					

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

1970				1970			
Feb.	17	(cont.)		Feb.	18	Um iPKP	01 32 57.3
		Sk iLgl	13 05 34.4			New Hebrides Islands	
		Um iSg	13 04 26.6			(h = 160 km).	
		De e	13 05 06				
		Baltic States. Explosion?		"	18	Up iP	02 18 33.5
"	17	Up iP	14 35 40.1			Ki eP	02 17 46
		De iP	14 35 05.7			Sk iP	02 18 09.1 C
"	17	Sk e(P)	14 43 33			Um iP	02 18 16.3 C
		Ud iP	14 45 07.5			Ud iP	02 18 25.6
		De iP	14 45 18.1			i	02 18 31.7
"	17	Up iP	16 22 27.7			Vancouver Island (h = 30 km).	
		Ki eP	16 23 21	"	18	Um iP	06 42 14.6
		Sk eP	16 23 14	"	18	Um ePKP	07 17 55
		Ud iP	16 22 49.0			Ud iPKP	07 17 57.2
		De iP	16 22 25.6			De iPKP	07 18 08.4
		Turkey (h = 9 km).				Fiji Islands (h = 600 km).	
"	17	Um iPKP	17 44 07.9	"	18	Up iP	09 33 49.7
		iPKS	17 47 38.9			Ki eP	09 33 05
		De iPKP	17 44 22.7			Sk eP	09 33 23
		Loyalty Islands (h = 45 km).				Ud eP	09 33 45
"	17	Ki ePg	17 49 42			Queen Charlotte Islands	
		iSg	17 50 20.8			(h = 4 km).	
		Sk iPg	17 49 47.2	"	18	Ki i(P)	12 06 36.6
		iSg	17 50 27.6			Sk e(P)	12 07 27
		Um iSn	17 50 34.3	"	18	Up iSg	12 10 44.0
		iSg	17 50 49.1			Ki eSg	12 13 16
		Ud iSg	17 52 15.3			Sk iSg	12 12 34.2
		Nordland, Norway,				Um iSg	12 11 15.7
		66.7°N, 13.4°E.				Ud eLgl	12 11 44
		Origin time = 17 48 42.				De eLgl	12 12 10
"	17	Ud iP	18 07 25.8			Esthonia.	
"	17	Ki iPKP	19 33 30.0			Origin time = 12 08 34.	
			micr sec			Explosion?	
		Mx E	0.7 17	"	18	Up iP	13 06 47.4
		Mx N	0.5 17			ipP	13 06 58.9
		Sk ePKP	19 33 37				micr sec
		Um iPKP	19 33 31.3			P	Z' 0.1 0.9
		Ud ePKP	19 33 38			Ki iP	13 05 54.0 C
		De iPKP	19 33 45.4				micr sec
		Loyalty Islands (h = 40 km).				P	Z' 0.1 0.9
"	17	Um iP	20 28 21.7			Um iP	13 06 19.8 C
"	17	Um iP	21 21 06.4			ipP	13 06 31.4
"	17	Um iP	21 21 06.4			Ud iP	13 06 48.8 C
"	18	Um iP	01 06 55.6			ipP	13 07 00.5
						De iP	13 07 10.3
						Aleutian Islands. h = 45 km.	
						(Up,Um,Ud).	
						m = 5.9 (Up,Ki).	

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

1970				1970			
Feb.	Day	Station	Time	Feb.	Day	Station	Time
Feb.	18	Up iP	14 10 53.9	Feb.	19	(cont.)	
"	18	Um iSg	14 51 43.8			Up	micr sec
		De eLgl	14 52 41			P	Z' 0.1 0.7
		Esthonia. Explosion?				Ki iP	01 56 50.1
"	18	Up iPKP	15 42 21.2			Sk iP	01 57 25.7
		iSKP	15 45 44.2			Um iP	01 57 13.0 C
			micr sec			Ud iP	01 57 44.2 C
		PKP	Z' 0.2 0.6			De eP	01 58 02
		SKP	Z' 0.5 1.0			Kurile Islands (h = N).	
		Ki iPKP	15 42 01.3	"	19	Up iP	05 15 20.2
		i	15 42 16.0			Ki iP	05 14 50.6 C
		iPP	15 44 36.8			Sk iP	05 15 18.1
		iSKP	15 45 20.7			Um iP	05 15 02.3
			micr sec			Ud iP	05 15 26.5
		PKP	Z' 0.3 1.5			De iP	05 15 39.2
		SKP	Z' 2.7 2.5			Volcano Islands (h = 90 km).	
		Sk iPKP	15 42 16.5	"	19	Up iP	07 20 07.5 C
		i	15 42 27.4				micr sec
		iSKP	15 45 36.6			P	Z' 0.2 0.5
		Um iPKP	15 42 09.3			Mx E	5.7 14
		i	15 42 16.1			Mx N	3.8 12
		i	15 42 21.2			Mx Z	7.4 14
		iSKP	15 45 31.3			Ki iP	07 19 59.2 C
		Ud iPKP	15 42 23.1				micr sec
		iSKP	15 45 44.5			P	Z' 0.7 2.0
		De iPKP	15 42 34.5			Mx E	6.2 14
		iSKP	15 45 54.3			Mx N	2.6 13
		Fiji Islands (h = 260 km).				Sk iP	07 20 23.1 C
"	18	Up iPKP	16 42 50.5 C			Um iP	07 19 58.9 C
		Ki iPKP	16 42 41.5			Ud iP	07 20 21.1 C
		Sk iPKP	16 42 44.0			De iP	07 20 23.2
		Um iPKP	16 42 44.1			i	07 20 25.3
		Ud iPKP	16 42 51.8			India (h = 20 km).	
		De iPKP	16 43 03.0 C			m = 6.4, M = 6.0 (Up, Ki).	
		Tonga-Kermadec Islands (h = 100 km).		"	19	Up iPKP	11 07 19.9 C
"	18	Ud iP	19 51 35.0			i	11 07 23.6
		De iP	19 51 02.9			i	11 07 28.6
		Dodecanese Islands.					micr sec
		Origin time = 19 46 11.				PKP	Z' 0.4 0.6
"	18	Ud iP	19 54 34.4			Ki iPKP	11 06 55.9
		De iP	19 54 01.4			i	11 07 05.2
		Dodecanese Islands (h = N).				Sk iPKP	11 07 12.9 C
"	18	Ud iP	20 26 00.3			Um iPKP	11 07 07.7 C
		De iP	20 25 30.4			Ud iPKP	11 07 21.4 C
		Dodecanese Islands.				i	11 07 25.4
"	18	Ud iP	20 26 00.3			De iPKP	11 07 29.6 C
		De iP	20 25 30.4			Kermadec Islands (h = 20 km).	
"	19	Up iP	01 57 39.1 C	"	19	Ki iP	11 21 33.5
		(cont.)					micr sec
						P	Z' 0.1 1.2
						(cont.)	

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

1970				1970						
Feb.	19	(cont.)		Feb.	20	Up	iP	20 24 46.8		
		Sk	i(P)			Ki	iP	20 25 53.4		
		Um	i			Sk	iP	20 25 26.9		
		Ud	iP			Ud	iP	20 24 55.6		
		De	iP			De	iP	20 24 22.1		
			i			Dodecanese Islands (h = 9 km).				
		Arctic Ocean (h = N).								
"	19	Ud	iP	"	21	Ki	iPKP	01 57 02.1		
		Leeward Islands (h = 15 km).				Um	iPKP	01 57 04.6		
							i	01 57 09.1		
						New Hebrides Islands (h = 20 km).				
"	19	Up	iP							
			i							
"	19	Ud	iP	"	21	Up	iP	06 26 44.9		
						Ki	iP	06 26 52.2		
						Um	iP	06 26 52.2 D		
"	19	Um	iP			Ud	iP	06 26 32.0		
		New Guinea (h = 25 km).				Leeward Islands (h = N).				
"	20	Ud	iP	"	21	Up	iP	07 14 03.0 C		
		Crete.					iS	07 17 49.7		
"	20	Up	i(Sg)				iLgl	07 20 23.6		
						Ki	iP	07 13 42.3		
"	20	Ud	iP				iS	07 17 02.7		
		De	iP			Sk	iP	07 14 20.2		
		Dodecanese Islands (h = N).					iS	07 18 26.3		
"	20	Up	i(Lgl)			Um	iP	07 13 40.2		
		Ki	iPn			Ud	iP	07 14 22.8		
			iSn				i(SS)	07 19 03.1		
			iSg			De	eP	07 14 34		
		D = 540 km = 4.9°.				Ural Mountains (h = 1 km). Location is near to the chemical explosion (3.1 kt) on March 25, 1958.				
		Sk	iLgl			"	21	Um	iP	10 18 20.5
		Um	iSn			"	21	Um	iP	10 27 02.1
			iSg			Mexico (h = 45 km).				
		Northwest Russia, 67.5°N, 33.4°E. Origin time = 10 55 58. Explosion?				"	21	Ki	iPn	12 37 41.6 C
"	20	Um	i(Sg)				iSn	12 38 29.4		
"	20	Ki	eSg				iSg	12 38 45.2		
		Sk	eSg			D = 430 km = 3.9°.				
		Um	iSg			Um	eSn	12 39 21		
		Nordland, Norway. Origin time = 17 48 06. Explosion?				Northwest Russia. Origin time = 12 36 38. Explosion?				
"	20	Up	iP	"	21	Ud	iPP	17 10 54.4		
		Aleutian Islands (h = 80 km).				Timor (h = 80 km).				

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

1970				1970			
Feb.	21	Ki	iPn	18 22 37.4	Feb.	22	(cont.)
			iP ^x	18 22 46.1			Ki eP
			iSn	18 23 24.0			i
			iLgl	18 23 36.9			Sk iP
			D = 430 km = 3.9°.				Um iP
		Sk	iSn	18 25 29.8			Ud iP
			iLgl	18 26 25.5			De iP
		Um	ePn	18 23 18			Crete (h = 35 km).
			iSn	18 24 30.6	"	22	Um i(P)
			iSg	18 25 10.6			
		Ud	iSn	18 26 28.4	"	22	Up iP
			iLgl	18 27 38.5			Ki iP
		Northwest Russia, 69.1°N, 30.7°E.					Um iP
		Origin time = 18 21 35.					Ud iP
		Explosion?					Kurile Islands (h = 45 km).
		This is one of the strongest events in this series.			"	22	Up iP
"	21	Ki	iP	20 08 29.1			22 40 56.4 D
		Um	iP	20 08 00.8			micr sec
		Ud	eP	20 07 56			Z' 0.1 0.5
"	21	Um	eP	23 13 07			Ki iP
"	22	Up	iP	07 04 02.1			i
		Um	iP	07 03 59.7			Sk eP
		Ud	iP	07 04 18.4			Um iP
		Tadzhik SSR (h = N).					Ud iP
"	22	Ki	iP	07 21 08.7			De iP
		Ud	iP	07 20 32.2			Ryukyu Islands (h = 110 km).
		Atlantic Ocean (h = N).			"	22	Up iP
"	22	Up	iP	10 52 01.5			i
		Ud	iP	10 52 16.7			iS
		Iran (h = N).					micr sec
"	22	Up	iP	12 25 28.3			P Z' 0.3 1.2
		Ud	iP	12 25 37.1			Mx E 4.8 17
			i	12 25 40.9			Mx N 4.5 20
		Aegean Sea (h = 50 km).					Mx Z 4.9 17
"	22	Up	eP	15 53 53			Ki iP
		Ki	eP	15 54 58			i
		Sk	iP	15 54 31.1			i(S)
			i	15 54 34.6			micr sec
		Um	iP	15 54 26.8			P Z' 0.5 0.8
		Ud	iP	15 53 57.9			Mx E 5.8 16
		De	eP	15 53 28			Mx N 5.0 16
		Crete (h = 40 km).					Mx Z 5.4 15
"	22	Up	eP	15 57 39			Sk iP
		(cont.)					iS
							Um iP
							iS
							Ud iP
							i
							i(SS)
							De iP
							Jan Mayen (h = N).
							M = 4.8 (Up, Ki).
							Ki has recorded a clear, but weak T-phase.

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

1970					1970						
Feb.	23	Um	iP	03 30 06.9	Feb.	23	(cont.)				
"	23	Up	iP	03 54 19.3			Um	iSKP	18 02 01.6		
			i	03 54 24.1			Ud	iPKP	17 59 24.4		
		Um	iP	03 54 01.0				iSKP	18 02 14.8		
		Ud	iP	03 54 24.5			De	iPKP	17 59 35.4		
				Bonin Islands (h = 35 km).				iSKP	18 02 26.1		
									Fiji Islands (h = 580 km).		
"	23	Up	eSKP	09 25 12	"	23	Up	iPKP	19 34 05.9		
		Ki	iPKP	09 22 13.5				i	19 34 25.4		
		Um	iPKP	09 22 19.5			Ud	iPKP	19 34 15.2		
			iSKP	09 24 59.7					Kermadec Islands (h = N).		
		De	iPKP	09 22 32.2			"	23	Up	iP	21 00 23.5
				Fiji Islands (h = 540 km).					Ki	iP	21 00 01.9
"	23	Up	iP	11 30 05.8 C					Sk	eP	21 00 28
			i	11 30 12.2					Um	iP	21 00 10.0
				micr sec					Ud	iP	21 00 33.5
		P	Z'	0.1 0.6							Luzon (h = 45 km).
		Mx	E	3.0 16	"	23	Um	iP	22 30 57.9		
		Mx	N	3.3 15			Ud	iP	22 31 29.0 D		
		Mx	Z	2.4 13							Japan (h = 50 km).
		Ki	iP	11 30 41.5 C			"	23	Up	iP	22 45 08.7 C
				micr sec						ipP	22 45 42.1
		P	Z'	0.3 1.1					Ki	iP	22 45 18.6
		Mx	E	4.1 15					Sk	iP	22 45 34.8
		Mx	N	3.9 16					Um	iP	22 45 07.5 C
		Mx	Z	4.3 13					Ud	iP	22 45 25.2
		Sk	iP	11 30 40.6 C					De	iP	22 45 21.6
		Um	iP	11 30 18.6 C							Hindu Kush. h = 160 km (Up).
		Ud	iP	11 30 21.4 C	"	23	Um	iP	23 00 32.4		
			i	11 34 03.0							Japan (h = 70 km).
		De	iP	11 30 05.4 C			"	24	Ki	iPKP	00 55 35.9
				Iran (h = 20 km).					Ud	iPKP	00 55 46.0
				m = 6.0, M = 5.6 (Up, Ki).					De	iPKP	00 55 57.7
"	23	Up	iP	13 00 09.7						i	00 56 11.2
		Ki	iP	12 59 16.0							Tonga Islands (h = 50 km).
				micr sec	"	24	Ki	iP	01 42 51.4		
		P	Z'	0.1 0.9							Pacific Ocean, off coast of Mexico (h = N).
		Sk	iP	12 59 44.1			"	24	Ki	iP	01 50 54.0
		Um	iP	12 59 43.4 C					Ud	iP	01 49 57.8
			i	12 59 51.0					De	iP	01 49 27.4
		Ud	iP	13 00 06.8 C							Dodecanese Islands (h = 100 km).
		De	iP	13 00 29.7 C			"	24	Up	iP	02 17 53.5 C
			i	13 00 40.6							(cont.)
				South of Alaska (h = N).							
"	23	Up	i(Sg)	14 31 00.5							
"	23	Up	iSKP	18 02 13.0							
		Ki	iSKP	18 01 48.7							
		Sk	iSKP	18 02 06.2							
				(cont.)							

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

1970				1970			
Feb.	24	(cont.)		Feb.	24		
		Up	micr sec			Um	iP 12 02 30.7
						Ud	iP 12 02 00.8
		P	Z' 0.4 0.7	"	24	Up	iPKP 15 27 19.2
		Mx	E 3.3 16			Ki	iPKP 15 27 07.7
		Mx	N 4.9 20			Um	iPKP 15 27 12.2
		Mx	Z 8.4 20			Ud	iPKP 15 27 21.6
		Ki	iP 02 17 36.0 C			De	iPKP 15 27 26.9
			micr sec			Solomon Islands (h = 40 km).	
		P	Z' 1.0 1.5	"	24	Ki	iP 17 41 51.0
		Mx	E 7.8 13			Um	iP 17 42 21.1
		Mx	N 13 19			Ud	eP 17 42 43
		Mx	Z 7.7 12			Unimak Island (h = 25 km).	
		Sk	iP 02 18 03.3	"	24	Um	iPKP 23 37 12.1
			i 02 18 04.5			Chile (h = 25 km).	
		Um	iP 02 17 40.2 C	"	25	Up	iP 05 25 41.3
			i 02 17 41.3			Um	iP 05 25 39.6
		Ud	iP 02 18 05.8			Ud	iP 05 25 58.8
		De	iP 02 18 12.2			Karakorum (Pamir).	
		Szechwan, China (h = N).		"	25	Up	iP 08 08 10.5
		m = 6.7, M = 6.0 (Up,Ki).				Ki	iP 08 07 29.1 C
"	24	Ki	iP 04 16 13.6			Sk	iP 08 08 03.1
		Java (h = N).				Um	iP 08 07 47.4 C
"	24	Ki	iP 06 34 21.0	"	25	Ud	iP 08 08 17.7 C
		Um	iP 06 34 28.0 C			Japan (h = 60 km).	
		Ud	iP 06 34 50.8	"	25	Up	iP 10 32 44.9 C
		Luzon (h = 45 km).					iX 10 33 20.5
"	24	Up	iP 06 52 14.8			micr sec	
		Ki	iP 06 52 14.7			P	Z' 0.1 0.8
		Um	iP 06 52 10.8			Mx	E 6.8 18
		Ud	iP 06 52 27.1			Mx	N 3.4 19
		Andaman Islands (h = 35 km).				Mx	Z 8.6 18
"	24	Up	iP 08 15 52.9			Ki	iP 10 32 20.3 C
			micr sec				iX 10 32 55.8
		Mx	E 1.7 18			micr sec	
		Mx	N 2.7 19			P	Z' 0.1 1.0
		Mx	Z 3.2 20			Mx	E 2.7 15
		Ki	iP 08 14 59.5			Mx	N 2.5 16
			i 08 15 15.1			Mx	Z 3.2 15
			micr sec			Sk	iP 10 32 47.8 C
		P	Z' 0.2 1.7			Um	iP 10 32 28.9 C
		Mx	E 2.3 16				i 10 32 44.4
		Mx	N 3.3 20			Ud	iP 10 32 53.8 C
		Mx	Z 7.8 23				iX 10 33 30.0
		Sk	iP 08 15 17.3			De	iP 10 33 04.4
		Um	iP 08 15 21.3			Formosa (h = 50 km).	
		Ud	iP 08 15 42.4			m = 6.0, M = 5.9 (Up,Ki).	
		De	iP 08 16 07.0			The phase X may be P of an	
		Gulf of Alaska (h = 15 km).				aftershock, 35.8 sec later.	
		M = 5.5 (Up,Ki).					

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

1970				1970			
Feb.	25	Um	iP	13 00 17.0	Feb.	26	(cont.)
			i	13 00 28.8			Ki iP 09 03 20.1 C
"	25	Up	eSg	13 42 31			Um iP 09 03 09.7 C
		Ki	iSg	13 44 58.5			Ud iP 09 03 27.3
		Sk	iSg	13 44 20.6			Hindu Kush.
		Um	iSg	13 42 59.8	"	26	Um i(P) 12 10 42.1
			i	13 43 07.5			
		Ud	iLgl	13 43 34.4	"	26	Up iSg 12 27 20.5
							Um iSg 12 27 51.5
							De iLgl 12 28 48.2
							Esthonia.
							Origin time = 12 25 10.
							Explosion?
"	25	Up	iP	14 40 27.1	"	26	Sk eP 13 09 53
		Ki	iP	14 39 53.2			Ud iP 13 09 07.8
		Sk	iP	14 40 01.0	"	26	Um iSg 13 14 40.0
		Um	eP	14 40 12			Ud iSg 13 15 20.5
		Ud	iP	14 40 19.0 C			Probably Esthonia.
							Explosion?
"	25	Ud	iP	14 56 35.9	"	26	Ud iP 13 55 18.5
"	25	Up	ePP	15 15 23	"	26	Up iP 15 41 48.9
		Ki	iP	15 14 53.4			Ki iP 15 41 14.7
		Sk	iP	15 14 58.5			Sk iP 15 41 22.9
		Um	iP	15 14 32.9			Um iP 15 41 34.1 C
		Ud	iP	15 14 41.8 C			Ud iP 15 41 40.9
							Nevada.
							Underground explosion.
"	25	Um	iP	16 05 23.5	"	26	Up iP 16 02 37.3 C
			i	16 05 30.9			micr sec
		Ud	iP	16 04 56.3			P Z' 0.3 0.7
"	25	Up	i(P)	22 14 19.3			Mx E 1.5 20
		Ud	iP	22 14 06.0			Mx N 1.3 21
"	26	Up	iP	04 21 16.9			Mx Z 1.8 19
		Ki	iP	04 20 59.8			Ki iP 16 02 20.1 C
		Um	iP	04 21 05.0			micr sec
		Ud	iP	04 21 23.8			P Z' 0.1 1.0
							Mx E 3.0 20
							Mx N 0.9 16
							Mx Z 4.4 20
"	26	Ki	iP	06 08 30.0			Sk iP 16 02 43.0 C
			ipP	06 08 41.3			Um iP 16 02 25.5 C
		Um	epP	06 09 03			Ud iP 16 02 46.3 C
		Ud	iP	06 09 22.5			De iP 16 02 51.7 C
			ipP	06 09 33.2			Mindoro (h = 70 km).
		De	epP	06 09 57			m = 6.3, M = 5.6 (Up.Ki).
"	26	Up	iP	09 03 10.4	"	26	Ki iSg 16 18 04.9
		(cont.)					(cont.)

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

1970				1970			
Feb.	26	(cont.)		Feb.	26	(cont.)	
		Sk e	16 17 40			Ki ipP	23 16 25.8
		iSg	16 18 09.3			iX	23 16 38.4
		Um iSg	16 18 31.7				micr sec
		Ud iSg	16 19 59.1			P	Z' 0.1 1.0
		Nordland, Norway,				pP	Z' 0.3 1.0
		66.4°N, 14.8°E.				Mx	E 4.4 19
		Origin time = 16 16 36.				Mx	N 3.7 20
		Explosion?				Mx	Z 6.8 19
"	26	Up iP	19 39 41.8 C			Sk iP	23 16 52.7 C
		ipP	19 39 46.4			ipP	23 17 00.7
			micr sec			Um iP	23 16 37.9 C
		P	Z' 0.1 0.5			ipP	23 16 44.4
		Ki iP	19 39 40.8 C			iX	23 16 57.4
		ipP	19 39 45.3			Ud iP	23 17 09.2 C
			micr sec			ipP	23 17 15.1
		P	Z' 0.1 0.8			De iP	23 17 27.0 C
		Sk iP	19 40 00.6 C			ipP	23 17 34.6
		ipP	19 40 06.1			iX	23 17 47.1
		Um iP	19 39 36.2			Kurile Islands. h = 25 km	
		ipP	19 39 41.0			(Up,Ki,Sk,Um,Ud,De).	
		Ud iP	19 39 56.4 C			m = 6.2, M = 5.7 (Up,Ki).	
		De iP	19 39 55.4			An alternative and slightly	
		Nepal. h = 20 km (Up,Ki,Sk,				more likely interpretation is	
		Um).				that pP instead is the P of	
		m = 6.0 (Up,Ki).				another Kurile Islands shock,	
"	26	Up iP	19 57 34.6			7.2 sec after the first one,	
		Sk eP	19 58 15			and that X is pP to the	
		Um iP	19 58 14.8			second shock, giving a focal	
		Ud iP	19 57 44.8			depth of 45 km.	
		Greece.		"	26	Up iP	23 30 59.1
"	26	Ki iP	20 37 21.5			Ki iP	23 30 55.5
		i	20 37 52.9			Sk eP	23 31 17
		Ud iP	20 37 43.3			Um iP	23 30 54.0
"	26	Up iP	21 29 16.1			Ud iP	23 31 12.2
		Ud iP	21 29 05.4			De eP	23 31 13
"	26	Up iP	21 31 38.0			"	26
		Ud iP	21 31 24.3			Up iP	23 40 08.2 C
"	26	Up iP	23 17 03.2 C				micr sec
		ipP	23 17 09.4			P	Z' 0.4 1.0
			micr sec			Mx	E 1.8 16
		P	Z' 0.2 1.0			Mx	N 3.2 20
		pP	Z' 0.4 1.1			Mx	Z 3.7 19
		Mx	E 1.5 16			Ki iP	23 39 22.2 C
		Mx	N 2.6 21			ipP	23 39 31.6
		Mx	Z 2.0 21				micr sec
		Ki iP	23 16 17.1			P	Z' 0.4 1.0
		(cont.)				Mx	E 7.4 19
						Mx	N 5.0 20
						Mx	Z 10 18
						Sk iP	23 39 58.4
						Um iP	23 39 42.9 C
						ipP	23 39 50.3
						(cont.)	

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

1970				1970			
Feb. 26	(cont.)			Feb. 27	Up	iP	01 56 17.8
	Ud	iP	23 40 14.4 C			i	01 56 19.6
		ipP	23 40 21.4				micr sec
	De	iP	23 40 32.0 C			P	Z' 0.2 1.0
	Kurile Islands. h = 30 km (Ki,Um,Ud).					Mx	E 1.4 15
	m = 6.5, M = 5.9 (Up,Ki).					Mx	N 1.7 17
" 26	Up	iP	23 40 27.5 C			Mx	Z 2.0 16
			micr sec		Ki	iP	01 55 32.5
		P	Z' 0.5 1.0				micr sec
	Ki	iP	23 39 41.4			P	Z' 0.1 1.0
			micr sec			Mx	E 2.4 18
		P	Z' 0.3 1.0			Mx	N 1.5 19
	Sk	iP	23 40 18.7			Mx	Z 2.5 18
	Um	iP	23 40 02.4		Sk	iP	01 56 07.4
		ipP	23 40 10.9		Um	iP	01 55 52.4
	Ud	iP	23 40 33.5 C		Ud	iP	01 56 23.1
	De	iP	23 40 50.6 C		De	eP	01 56 42
	Kurile Islands. h = 30 km (Um).				Kurile Islands (h = 15 km).		
	Origin time = 23 29 22.				m = 6.1, M = 5.5 (Up,Ki).		
	m = 6.5 (Up,Ki).			" 27	Up	iP	02 05 45.6
" 26	Up	iPKP	23 44 19.5		Ki	iP	02 05 00.6
	Um	iPKP	23 44 07.9		Um	iP	02 05 21.1
	Fiji Islands (h = 20 km).				Ud	iP	02 05 51.6
" 26	Up	iP	00 00 21.2			ipP	02 06 03.2
-27	Ki	iP	23 59 34.9		Kurile Islands. h = 45 km (Ud).		
	Um	iP	23 59 56.3	" 27	Up	iP	02 10 50.6
	Ud	iP	00 00 27.2		Ki	iP	02 10 05.9
	De	iP	00 00 45.1		Um	iP	02 10 25.7
	Kurile Islands (h = 35 km).				Ud	iP	02 10 56.6 C
" 27	Up	iP	01 28 03.2			i	02 11 12.9
	Um	iP	01 27 38.7		De	eP	02 11 14
	Ud	iP	01 28 09.6		Kurile Islands (h = 25 km).		
	Kurile Islands.			" 27	Up	iP	02 11 34.1
	Origin time = 01 17 00.				Ki	iP	02 10 48.6
" 27	Up	iP	01 46 13.9				micr sec
	Ki	iP	01 45 28.9			P	Z' 0.1 1.0
	Sk	iP	01 46 03.3		Um	iP	02 11 08.8
	Um	iP	01 45 48.9		Ud	iP	02 11 40.7
	Ud	iP	01 46 20.1 C		De	eP	02 11 58
	De	iP	01 46 37.7		Kurile Islands.		
	Kurile Islands (h = 20 km).				Origin time = 02 00 29.		
" 27	Up	iP	01 53 56.7	" 27	Up	iP	02 25 12.9
	Ki	eP	01 53 10		Um	iP	02 24 47.9
	Um	iP	01 53 31.8		Ud	iP	02 25 18.9
	Ud	iP	01 54 03.1		Kurile Islands (h = 30 km).		
	Kurile Islands (h = N).			" 27	Up	iP	03 01 59.5 C
					(cont.)		

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

1970					1970						
Feb.	27	(cont.)			Feb.	27	Up	iP	07 17 44.4		
		Up		micr sec			Ki	iP	07 16 59.0		
		P	Z'	0.1 0.6			Um	iP	07 17 20.0		
		Mx	E	1.0 17			Ud	iP	07 17 50.3		
		Mx	N	1.2 15			Kurile Islands.				
		Mx	Z	1.2 15			Origin time = 07 06 40.				
		Ki	iP	03 01 14.1		"	27	Up	iP	07 19 05.6	
		ipP		03 01 24.7				i	07 19 19.3		
				micr sec				iS	07 28 14.9		
		P	Z'	0.1 1.0				iP'P'	07 47 08.2		
		Mx	E	2.0 19					micr sec		
		Mx	N	1.7 20				P	Z' 0.6 0.7		
		Mx	Z	2.4 16				P'P'	Z' 0.1 1.0		
		Sk	iP	03 01 49.7				Mx	E 4.6 20		
		Um	iP	03 01 35.2 C				Mx	N 5.3 20		
		ipP		03 01 46.2				Mx	Z 6.8 23		
		Ud	iP	03 02 05.7 C			Ki	iP	07 18 13.6		
		ipP		03 02 19.2				i	07 18 17.6		
		De	iP	03 02 22.5				iS	07 26 33		
		Kurile Islands. h = 45 km (Ki,Um,Ud).						eP'P'	07 47 23		
		m = 6.0, M = 5.4 (Up,Ki).							micr sec		
	"	27	Up	iPKP	03 26 58.5			P	Z' 1.7 0.8		
			Ki	iSKP	03 29 31.3			Mx	E 5.1 19		
			Um	iPKP	03 26 53.9			Mx	N 4.3 20		
				iSKP	03 29 41.8			Mx	Z 5.1 20		
			Ud	iPKP	03 27 01.3 C			Sk	iP	07 18 45.6	
				iSKP	03 29 54.7				i	07 18 49.6	
			De	iPKP	03 27 12.0				eP'P'	07 47 18	
		Tonga-Kermadec Islands (h = 550 km).							i	07 47 22.6	
	"	27	Up	iP	03 52 19.2			Um	iP	07 18 38.4	
			Ki	iP	03 51 34.0				i	07 18 42.8	
			Um	iP	03 51 53.6				iS	07 27 17	
			Ud	iP	03 52 25.5				eP'P'	07 47 11	
			De	eP	03 52 43			Ud	iP	07 19 06.6 D	
		Kurile Islands (h = 35 km).							iS	07 28 16.8	
	"	27	Ud	iP	04 56 41.2				iP'P'	07 47 10.5	
	"	27	Ud	iPKP	05 04 34.0			De	iP	07 19 28.6	
			De	iPKP	05 04 46.3 C				i	07 19 31.6	
		Tonga Islands (h = 40 km).						Aleutian Islands (h = 20 km). m = 7.1, M = 5.9 (Up,Ki). Double P, small and large, average interval = 3.8 sec.			
	"	27	Up	iP	06 04 32.7		"	27	Up	iP	07 28 59.0
			Ki	iP	06 03 48.2				ipP	07 29 08.2	
			Sk	iP	06 04 23.8					micr sec	
			Um	iP	06 04 08.3				P	Z' 0.1 0.7	
			ipP		06 04 20.0			Ki	iP	07 28 06.8	
			Ud	iP	06 04 39.6 C					micr sec	
		Kurile Islands. h = 45 km (Um).							P	Z' 0.1 0.8	
								Sk	iP	07 28 39.0	
								Um	iP	07 28 32.5 C	
								(cont.)			

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

1970				1970			
Feb.	27	(cont.)		Feb.	27	(cont.)	
		Ud	iP 07 29 00.0 C			Um	iSg 09 21 33.4
		Aleutian Islands. h = 35 km (Up).				Ud	iPg 09 18 37.1
		m = 6.2 (Up,Ki).					i 09 19 25.0
"	27	Up	iP 08 00 38.8				iSg 09 19 41.9
		Ki	iP 07 59 47.8			De	ePX 09 18 57
		Ud	iP 08 00 40.0				iSn 09 19 55.9
		Aleutian Islands (h = 40 km).					iS ^X 09 20 30.0
"	27	Up	iP 08 01 35.7				iSg 09 20 45.9
			ipP 08 01 45.4			Off west coast of Norway, 61.0°N, 4.0°E.	
		Ki	iP 08 00 43.7			Origin time = 09 17 01.	
		Sk	eP 08 01 16			Solution checked with Norwegian and Finnish readings.	
		Um	iP 08 01 08.9	"	27	Up	iP 09 47 09.6
		Ud	iP 08 01 35.7				ipP 09 47 22.5
		Aleutian Islands. h = 35 km (Up).				Ki	iP 09 46 24.4
"	27	Up	iP 08 29 10.7				ipP 09 46 37.9
			i 08 29 14.5				micr sec
		Ki	iP 08 28 18.1			P	Z' 0.1 1.3
			micr sec			Mx	E 0.8 17
			P Z' 0.1 0.9			Mx	N 0.6 17
		Sk	eP 08 28 50			Mx	Z 0.6 14
		Um	iP 08 28 44.1 C			Um	iP 09 46 44.5
		Ud	iP 08 29 10.9				ipP 09 46 57.8
		Aleutian Islands (h = 20 km).				Ud	iP 09 47 15.2 C
"	27	Up	iP 08 37 57.5				ipP 09 47 26.8
		Ud	iP 08 38 08.2				i(PcP) 09 47 36.7
"	27	Up	iP 09 05 31.6			Kurile Islands. h = 45 km (Up,Ki,Um,Ud).	
		Ki	iP 09 04 39.6	"	27	Up	iP 09 50 23.3
		Um	iP 09 05 04.9				iPcP 09 50 56.1
		Ud	iP 09 05 32.5 C			Ki	iP 09 49 32.7
		Aleutian Islands (h = N).					iPcP 09 50 27.0
"	27	Um	iP 09 07 21.8				micr sec
		Ud	iP 09 07 52.1			P	Z' 0.1 1.3
"	27	Up	iS ^X 09 20 28.2			Sk	iP 09 50 10.1
			i 09 20 42.2				iPcP 09 50 48.0
			iSg 09 20 46.4			Um	iP 09 49 57.5
			micr sec				iPcP 09 50 40.0
			Sg 0.1 0.5			Ud	iP 09 50 27.6
		Ki	iRg 09 22 52.0				iPcP 09 50 59.4
		Sk	iPn 09 18 09.8			De	iP 09 50 51.0
			ip ^X 09 18 16.3				iPcP 09 51 13.3
			iS ^X 09 19 15.5	"	27	Up	iP 10 00 26.6
			iRg 09 19 48.1			Ki	iP 09 59 41.4
		Um	iSn 09 20 39.8				micr sec
		(cont.)				P	Z' 0.1 1.0
						(cont.)	

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

1970					1970				
Feb. 27	(cont.)				Feb. 27	(cont.)			
	Sk	eP	10 00 16			Ki	iPP	11 05 37.1	
	Um	iP	10 00 02.0					micr sec	
		ipP	10 00 14.3				PP	Z' 0.1 1.3	
	Ud	iP	10 00 32.1 C				Mx	E 0.5 13	
	Kurile Islands. h = 45 km (Um).						Mx	N 0.8 20	
							Mx	Z 0.9 17	
"	27	Up	iP	10 02 09.4		Sk	e	11 04 52	
		Ki	iP	10 01 23.8			iPP	11 06 03.7	
				micr sec		Um	iP	11 01 23.5	
			P	Z' 0.1 1.0			i	11 04 44.8	
		Sk	eP	10 01 59			i	11 05 31.8	
		Um	iP	10 01 44.7			iPP	11 05 41.6	
		Ud	iP	10 02 15.5 C		Ud	iP	11 01 40.2	
		De	eP	10 02 34			e	11 04 49	
	Kurile Islands (h = 35 km).						iPP	11 06 05.0	
						Flores Sea (h = 170 km). M = 5.6 (Up,Ki). M uncorrected for focal depth. Early PP-arrivals precede PP, as reported above.			
"	27	Up	iP	10 02 28.5		"	27	Ki	iPn 11 01 42.1
		Um	iP	10 02 04.8				iSn	11 02 40.6
		Ud	iP	10 02 35.1				iSg	11 03 04.5
		De	iP	10 02 54.6				D = 540 km = 4.9°.	
	Kurile Islands. Origin time = 09 51 25.						Sk	iLgl	11 05 26.1
"	27	Up	iP	10 16 53.6			Um	iS ^x	11 03 37.4
		Ki	iP	10 16 01.5				iSg	11 03 54.4
		Um	iP	10 16 27.3		Northwest Russia, 67.4°N, 33.2°E. Origin time = 11 00 25. Explosion?			
		Ud	iP	10 16 54.8 C		"	27	Up	iP 11 42 14.2
	Aleutian Islands (h = 25 km).						Um	iP 11 42 41.8	
"	27	Ki	iP	10 24 23.4		"	27	Um	iPKP 12 02 21.0
				micr sec		New Hebrides Islands (h = 130 km).			
		Mx	E	0.6 15		"	27	Ud	iP 12 15 17.6
		Mx	N	0.5 14		"	27	Up	iP 13 11 54.4
		Sk	eP	10 24 57				micr sec	
		Um	iP	10 24 39.4 C			Mx	E 0.7 12	
		Ud	iP	10 25 09.0			Mx	N 0.8 14	
	Japan (h = 25 km).						Mx	Z 0.9 15	
"	27	Up	iP	10 28 50.9		Ki	iP	13 11 18.6	
		Ki	iP	10 28 05.6			Mx	E 1.3 16	
		Um	iP	10 28 25.9			Mx	N 1.2 15	
		Ud	iP	10 28 56.9			Mx	Z 1.4 15	
	Kurile Islands (h = N).					(cont.)			
"	27	Up	iP	11 01 31.6					
			i	11 05 34.7					
			iPP	11 05 47.9					
				micr sec					
		Mx	E	0.8 21					
		Mx	N	1.2 23					
		Ki	iP	11 01 22.4					
	(cont.)								

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

1970				1970			
Feb.	27	(cont.)		Feb.	27	(cont.)	
		Sk	iP	13	11	54.9	
		Um	iP	13	11	33.8	
			i	13	11	37.3	
			iS	13	21	07	
		Ud	iP	13	12	01.4	
			i	13	14	38.8	
		De	iP	13	12	18.5	
		South of Japan (h = 15 km).					
		M = 5.3 (Up,Ki).					
"	27	Up	iP	13	40	27.5	
			i	13	41	09.0	
"	27	Up	eP	15	03	38	
			iS	15	06	49.0	
		Ki	iP	15	04	53.2	
		Sk	eS	15	08	39	
		Um	iP	15	04	07.6	
			iS	15	07	53.8	
		Ud	eP	15	03	55	
			iS	15	07	29.9	
			iLgl	15	09	37.6	
		De	iP	15	03	28.3	
			iS	15	06	31.5	
		Black Sea, 45°N, 32°E.					
		Origin time = 14 59 33.					
"	27	Up	iSn	16	45	30.7	
			i(S ^x)	16	45	49.9	
			iSg	16	46	18.8	
		Ki	iLgl	16	47	51.9	
		Sk	ePn	16	43	52	
			iSn	16	44	45.9	
			iSg	16	45	16.8	
		Um	iSn	16	46	04.8	
			i	16	46	22.8	
			i(Lgl)	16	47	05.8	
		Ud	iPn	16	43	50.9	
			iP ^x	16	43	57.4	
			iSn	16	44	48.0	
			iSg	16	45	18.4	
		De	eSn	16	45	32	
			iSg	16	46	14.7	
		Off west coast of Norway,					
		60.6°N, 3.6°E.					
		Origin time = 16 42 33.					
"	27	Up	iP	17	12	55.6	
			ipP	17	13	07.4	
		Ki	iP	17	12	10.4	
			ipP	17	12	21.6	
		Sk	iP	17	12	46.4	
		(cont.)					
		Sk	ipP	17	12	58.0	
		Um	iP	17	12	31.2	
			ipP	17	12	42.8	
		Ud	iP	17	13	01.8	
			ipP	17	13	13.7	
		De	ipP	17	13	32.5	
		Kurile Islands. h = 45 km					
		(Up,Ki,Sk,Um,Ud).					
"	27	Up	iP	19	03	13.3	
		Ki	iP	19	02	21.0	
		Sk	eP	19	02	51	
		Um	iP	19	02	47.1	
		Ud	iP	19	03	14.6	
		Aleutian Islands (h = 25 km).					
"	27	Ki	iP	21	39	40.9	
		Um	iP	21	40	01.3	
		Ud	iP	21	40	32.5	
		Kurile Islands.					
		Origin time = 21 29 22.					
"	28	Up	iP	00	26	40.2	
		Ki	eP	00	25	55	
		Um	iP	00	26	16.2 C	
		Ud	iP	00	26	47.2 C	
		Japan (h = 60 km).					
"	28	Up	iP	00	30	00.6	
		Ki	iP	00	29	07.5	
		Um	iP	00	29	32.9	
		Ud	iP	00	30	00.3	
		Aleutian Islands (h = 45 km).					
"	28	Up	eP	02	00	36	
		Ki	iP	01	59	46.2	
		Ud	iP	02	00	39.1	
		Aleutian Islands (h = 30 km).					
"	28	Up	iP	02	57	46.4	
		Um	iP	02	57	21.8	
		Ud	iP	02	57	51.9 C	
		Kurile Islands (h = N).					
"	28	Up	iP	04	07	06.2	
		Ki	iP	04	06	13.9	
		Ud	iP	04	07	07.0	
		Aleutian Islands (h = N).					
"	28	Up	iP	04	08	15.7	
		Ud	iP	04	08	21.7	
"	28	Ud	iP	06	06	59.2	
		Aleutian Islands (h = N).					

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

1970				1970				
Feb. 28	Up	iP	11 03 09.8 D	Feb. 28	(cont.)	Um	iSg	12 53 16.3
		iS	11 11 54.2			Ud	iSg	12 54 43.3
		iP'P'	11 31 23.2			Nordland, Norway, 66.4°N, 14.5°E. Origin time = 12 51 19.		
			micr sec					
		P	Z' 1.7 0.6					
		P'P'	Z' 0.2 0.7					
		Mx	E 12 21					
		Mx	N 15 18	"	28	Up	iP	20 06 32.3 C
		Mx	Z 18 19				i	20 06 36.8
	Ki	iP	11 02 16.6				iS	20 12 43.8
		i	11 02 21.0					micr sec
		iS	11 10 16				P	Z' 0.2 0.8
		iP'P'	11 31 33.9				Mx	N 1.1 18
			micr sec			Ki	iP	20 07 04.8
		P	Z' 3.3 1.0				i	20 07 09.4
		P'P'	Z' 1.2 2.0					micr sec
		Mx	E 15 17				P	Z' 0.2 1.0
		Mx	N 15 20				Mx	E 1.9 12
	Sk	iP	11 02 47.7				Mx	N 1.5 11
		i	11 02 52.2			Sk	iP	20 07 05.7
		ipP	11 03 32.1				i	20 07 10.6
		i	11 31 29.8			Um	iP	20 06 43.5 C
		iP'P'	11 31 42.7				i	20 06 48.2
	Um	iP	11 02 42.8 D			Ud	iP	20 06 47.6 C
		i	11 02 47.3				i	20 06 52.2
		ipP	11 03 22.2				iS	20 13 13.0
		iS	11 11 01				i	20 13 19.3
		iP'P'	11 31 30.3			De	iP	20 06 32.0 C
	Ud	iP	11 03 09.7 D			Iran (h = 35 km). m = 6.0, M = 5.1 (Up,Ki). Double P, average interval = 4.7 sec.		
		iS	11 11 55.1					
		iP'P'	11 31 17.1					
		i	11 31 28.5					
		i	11 32 14.8					
	De	iP	11 03 32.0 D					
		i	11 03 36.6					
		iP'P'	11 31 20.2					
			Aleutian Islands. h = 170 km (Sk,Um). m = 7.1, M = 6.4 (Up,Ki). M uncorrected for focal depth. Double P, average interval = 4.5 sec.					
"	28	Ud	iP	11 34 58.7				
"	28	Up	iP	11 40 00.9				
		Um	eP	11 39 41				
"	28	Up	eSg	12 54 58				
		Ki	ePg	12 52 14				
			iSg	12 52 47.8				
		Um	iPg	12 52 26.7				
			iSn	12 53 01.2				
			(cont.)					

Markus Båth
February 1, 1971

SEISMOLOGICAL INSTITUTE
BOX 517
S-751 20 UPPSALA 1
SWEDEN

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

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

MARCH 1 - 31, 1970
:.....

1970					1970				
Mar.	1	Up	iP	01 43 41.9	Mar.	1	Ki	iP	21 36 33.0
		Um	iP	01 43 29.9			Um	iP	21 36 37.4
		Ud	eP	01 43 58			Talaud Islands (h = 80 km).		
		Luzon (h = N).							
"	1	Up	iP	04 31 00.6	"	2	Up	iPKP	01 16 06.1
		Ud	iP	04 31 06.6			Ki	iPKP	01 15 52.1 C
							Sk	ePKP	01 16 02
							Um	iPKP	01 15 58.2
"	1	Up	iPKP	05 40 25.1			Ud	iPKP	01 16 08.6
			iSKP	05 42 49.7			De	iPKP	01 16 15.6
		Um	iPKP	05 40 17.1			New Hebrides Islands		
		Ud	iSKP	05 42 53.8			(h = 150 km).		
		De	ePKP	05 40 33					
		Santa Cruz Islands			"	2	Up	iPKP	02 10 21.5
		(h = 620 km).					Ki	ePKP	02 10 12
"	1	Up	iP	08 16 31.6			Ud	iPKP	02 10 20.7
			ipP	08 16 43.0			De	iPKP	02 10 33.2
		Ki	eP	08 15 47			Tonga Islands (h = N).		
		Um	iP	08 16 07.2	"	2	Ki	iP	02 18 59.8
		Ud	iP	08 16 38.5			De	iP	02 18 07.9
			ipP	08 16 48.7	"	2	Up	iP	03 14 48.2
		Kurile Islands.					Ki	iP	03 13 56.5
		h = 40 km (Up,Ud).					Aleutian Islands (h = N).		
"	1	Um	iP	20 18 42.3 D	"	2	Up	iP	03 31 17.6
"	1	Up	iP	20 19 53.6			Um	iP	03 30 58.3
			i	20 20 11.9			South of Japan (h = 40 km).		
		Ki	iP	20 20 20.1	"	2	Up	iP	05 08 36.7
		Um	iP	20 20 01.3			Ki	iP	05 07 45.2
		Ud	iP	20 20 10.9			Um	iP	05 08 10.5 C
		Iran (h = 40 km).					Ud	iP	05 08 35.8
"	1	Up	iP	21 27 52.1			De	iP	05 08 59.5
		Ki	eP	21 28 32			Aleutian Islands (h = N).		
		Um	iP	21 28 23.8					
		Atlantic Ocean (h = N).							

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

1970				1970			
Mar.	2	Um iP	10 28 18.6	Mar.	3	(cont.)	
		Hindu Kush.				De iP	16 40 03.9
						i	16 40 07.2
"	2	Ki eP	11 18 25			Greece (h = 40 km).	
		Um iP	11 18 01.7	"	3	Um iP	16 52 43.8
		Ud iP	11 17 30.2			Ceram Sea (h = N).	
		North of Ascension Island		"	3	Sk iP	20 36 21.9
		(h = N).				Mexico (h = 110 km).	
"	2	Um iP	13 57 33.9	"	3	Up i(P)	21 32 07.6
		Japan (h = 50 km).				Ki e(P)	21 30 23
"	2	Up iPKP	15 44 43.5			Ud i(P)	21 30 53.5
		Ki iPKP	15 44 37.6	"	4	Up iPKP	01 05 25.8 C
		Um iPKP	15 44 39.7			PKP Z'	0.1 0.7
		i	15 44 45.5			Um iPKP	01 05 14.9
		Ud iPKP	15 44 46.6			Ud iPKP	01 05 27.2
		De iPKP	15 44 58.6			ipPKP	01 05 52.0
		Tonga-Kermadec Islands				De iPKP	01 05 37.5
		(h = 620 km).				Tonga-Kermadec Islands.	
"	3	Up iPKP	04 22 11.3			h = 90 km (Ud).	
		Um iPKP	04 21 58.7	"	4	Up iP	01 30 12.9 C
		Ud iPKP	04 22 13.2			i	01 31 43.3
		De iPKP	04 22 22.4			PKP Z'	0.3 0.6
"	3	Ki eP	11 54 21			Ki iP	01 29 55.6 C
		iS	11 55 36.5			i	01 30 32.6
		Sk iP	11 54 47.2			PKP Z'	0.1 0.8
		iS	11 56 19.9			Sk iP	01 30 18.5
		Um eP	11 54 58			Um iP	01 30 01.1 C
		iS	11 56 52.1			i	01 30 14.2
		i	11 57 22.2			Ud iP	01 30 22.0 C
		Norwegian Sea, 71° 1/2N, 5° E.				i	01 30 41.2
		Origin time = 11 52 47.				De iP	01 30 27.5
"	3	Up iP	15 02 45.4			Mindoro (h = 60 km).	
		Ki iP	15 02 09.3			m = 6.3 (Up, Ki).	
		Um iP	15 02 25.0	"	4	Up iP	01 56 59.8
		ipP	15 02 44.4			Ki iP	01 58 07.3 D
		Ud iP	15 02 52.6			Mx E	1.5 18
		South of Japan.				Mx N	1.1 18
		h = 70 km (Um).				Mx Z	1.5 18
"	3	Up i(P)	15 18 42.3			Sk iP	01 57 39.0
		Ki e(P)	15 18 51			Um iP	01 57 31.6
"	3	Up iP	16 40 33.2			Ud iP	01 57 08.0
		micr sec				De iP	01 56 36.5
		P Z'	0.1 0.7			Crete (h = 40 km).	
		Sk iP	16 41 13.5	"	4	Up iP	03 44 00.4
		Um iP	16 41 13.3			(cont.)	
		i	16 41 23.4				
		Ud iP	16 40 39.9				
		i	16 40 49.4				
		(cont.)					

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

Year	Month	Day	Station	Phase	Time	Unit	Location										
1970	Mar.	4	(cont.)	Up	ipP	03 44 12.1	Northwest Russia. Origin time = 11 18 17. Explosion?										
								micr sec									
					P	Z'		0.1	0.8								
					Mx	E		4.6	20								
					Mx	N		4.7	18								
					Mx	Z		6.5	20								
				Ki	iP			03 43 35.1									
					ipP			03 43 46.5									
								micr sec									
					P	Z'		0.3	1.0								
					Mx	E		6.9	23								
					Mx	N		4.0	22								
					Mx	Z		5.1	18								
				Sk	iP			03 44 00.6									
					ipP			03 44 10.8									
				Um	iP			03 43 45.2	D								
					ipP			03 43 56.2									
					iSKS			03 54 15									
				Ud	iP			03 44 06.9	D								
					ipP			03 44 18.3									
				De	iP			03 44 18.5									
				Mariana Islands. h = 40 km (Up,Ki,Sk,Um,Ud). m = 6.5, M = 6.1 (Up,Ki).													
				"	4	Up		iPKP	06 50 02.8								
									iSKP	06 52 49.6							
		micr sec															
	SKP	Z'	0.2				0.8										
	Mx	N	2.3				22										
Ki	iSKP		06 52 25.5														
			micr sec														
	SKP	Z'	0.6				1.3										
Sk	iPKP		06 49 56.4														
	i		06 50 09.6														
	iSKP		06 52 42.8														
Um	iPKP		06 49 50.4														
	i		06 49 56.8														
	i		06 50 05.4														
	iSKP		06 52 37.5														
	i		06 58 36.2														
	e		07 02 24														
Ud	iPKP		06 50 04.1														
	i		06 51 14.1														
	iSKP		06 52 50.9														
	iSKKP		07 01 31.4														
De	iPKP		06 50 15.2														
	iSKP		06 52 59.3														
Fiji Islands (h = 620 km).																	
"	4	Ki	iPn	11 19 16.9													
				iSn	11 20 03.3												
				iLgl	11 20 18.4												
				Sk	e(Lgl)	11 23 08											
				(cont.)													
				"	4	Um	iSg	11 21 50.7									
								Northwest Russia. Origin time = 11 18 17. Explosion?									
								"	4	Ki	iPn	13 55 51.7					
												iSn	13 56 40.0				
												iLgl	13 56 54.4				
												Um	iSg	13 58 23.2			
												Northwest Russia. Origin time = 13 54 48. Explosion?					
"	4	Up	iP									14 40 56.2					
														micr sec			
													Mx	E	4.0	19	
													Mx	N	2.2	18	
													Mx	Z	4.6	18	
				Ki	iP		14 40 39.6					C					
							micr sec										
					Mx	E	3.7	18									
					Mx	N	2.5	18									
					Mx	Z	4.6	18									
				Um	iP		14 40 46.8										
				Ud	iP		14 41 05.3										
Mindanao (h = 55 km). M = 6.1 (Up,Ki).																	
"	4	Ki	e(P)	19 11 35													
				Ud	iP	19 12 06.5											
"	4	Ki	iP	21 23 34.4	C												
"	4	Ud	iP	21 26 12.6													
				Mindanao (h = 80 km).													
"	5	Um	iPKP	02 04 20.6													
				i	02 04 30.1												
Chile (h = N).																	
"	5	Up	iP	02 26 35.4													
				Ki	iP	02 26 17.9											
				Um	iP	02 26 23.7											
				Ud	iP	02 26 43.6	C										
Mindanao (h = 200 km).																	
"	5	Ud	iP	02 43 03.1													
"	5	Up	iP	04 33 47.6													
				Ki	iP	04 33 30.7											
				Um	iP	04 33 34.2											
				Ud	iP	04 34 00.0											
Szechwan, China (h = N).																	
"	5	Up	iP	04 42 16.4													
				(cont.)													

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

1970				1970					
Mar.	5	(cont.)		Mar.	5	Up	i(P)	15 10 45.1	
		Up	ipP	04 42 29.3			i	15 10 56.6	
				micr sec					
		Mx	E	0.9 19	"	5	Um	iP	18 16 16.7
		Mx	N	1.0 20					
		Mx	Z	1.2 19					
		Ki	eP	04 41 58	"	5	Up	iP	18 42 51.6
			ipP	04 42 09.9			Ki	iP	18 42 58.2
				micr sec			Sk	iP	18 43 16.1
		Mx	E	0.9 18			Um	iP	18 42 48.7
		Mx	N	0.6 15			Ud	iP	18 43 07.1
		Sk	eP	04 42 21			Kashmir-India (h = N).		
		Um	iP	04 42 04.2	"	5	Ud	iP	22 57 13.9
			ipP	04 42 16.9					
		Ud	iP	04 42 23.7	"	6	Ki	iP	05 03 52.8
			ipP	04 42 36.8					
		Mindanao.			"	6	Up	iP	05 26 34.2
		h = 45 km (Up,Ki,Um,Ud).					Um	iP	05 26 09.2
		M = 5.4 (Up,Ki).					Ud	iP	05 26 40.4
							Okhotsk Sea (h = 390 km).		
"	5	Up	iP	05 01 06.8	"	6	Ki	iP	07 22 00.0
			i	05 01 11.0			Sk	iP	07 23 15.4
				micr sec					
		P	Z'	0.1 0.8	"	6	Sk	eP	08 30 23
		Mx	E	0.8 14			Ud	i(P)	08 29 22.8 D
		Mx	N	0.7 18					
		Mx	Z	1.0 13	"	6	Um	iP	10 09 35.9
		Ki	iP	05 01 33.3			Ud	eP	10 10 09
				micr sec					
		Mx	E	1.1 15	"	6	Ki	iPn	10 52 40.1
		Mx	N	0.6 15				iSn	10 53 38.5
		Sk	iP	05 00 51.7				iSg	10 54 02.5
		Um	iP	05 01 24.2			Sk	e	10 55 49
		Ud	eP	05 00 46				iLgl	10 56 27.7
			i	05 00 52.4			Um	iSn	10 54 19.0
		De	iP	05 00 52.6				iSg	10 54 53.0
		North Atlantic Ocean (h = N).					Ud	iLgl	10 57 24.6
		M = 4.4 (Up,Ki).					Northwest Russia, 67.7°N, 33.4°E. Origin time = 10 51 23. Explosion?		
"	5	Up	iSg	12 02 51.6					
		Um	iSg	12 03 22.1					
		Ud	iLgl	12 03 44.2					
		Esthonia. Explosion?							
"	5	Ki	iPn	12 51 19.8	"	6	Up	iP	11 49 59.1
			iP ^x	12 51 27.8	"	6	Ki	iP	13 35 04.3
			iSn	12 52 06.0				i	13 35 26.3
			iLgl	12 52 21.1					
		Um	eSg	12 53 59	"	6	Ki	iPn	14 25 02.1
			i	12 54 27.2				iP ^x	14 25 10.6
		Northwest Russia.						iSn	14 25 49.1
		Origin time = 12 50 20.						iLgl	14 26 01.7
		Explosion?					Sk	iSn	14 27 55.1
								iSg	14 28 59.0
"	5	Ki	i(P)	14 37 24.4			Um	iSg	14 27 35.0
		Ud	iP	14 36 16.1				i	14 27 42.1
							(cont.)		

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

Year	Month	Day	Station	Time	Location	Depth (km)
1970	Mar.	6	(cont.)			
			Ud	i(Lgl)	14 30 05.7	
					Northwest Russia,	
					68.9°N, 30.8°E.	
					Origin time = 14 24 00.	
					Explosion?	
	"	6	Ud	iP	14 35 41.2	
					Nevada.	
					Underground explosion.	
	"	6	Up	iP	16 54 38.3	
			Ud	iP	16 54 49.6	
	"	6	Up	iPKP	19 31 28.5	
			Um	e(PKP)	19 31 24	
			Ud	iPKP	19 31 28.4	
			De	iPKP	19 31 39.7	
					Tonga-Kermadec Islands	
					(h = 70 km).	
	"	6	Ki	iP	19 48 19.5	
			Ud	eP	19 48 04	
			De	eP	19 47 50	
					Iran (h = 70 km).	
	"	7	Um	iP	01 05 04.8	
					Chagos Islands (h = N).	
	"	7	Up	iP	12 08 09.9	
			Sk	iP	12 08 19.1	
			Um	iP	12 08 22.6	
			Ud	iP	12 07 52.2	
					Atlantic Ocean (h = N).	
	"	7	Up	iP	13 07 17.8	
			Ki	iP	13 07 26.2 C	
				ipP	13 08 11.3	
			Um	iP	13 07 16.0 C	
			Ud	iP	13 07 34.2	
			De	iP	13 07 30.8	
					Hindu Kush.	
					h = 220 km (Ki).	
	"	7	Up	iP	15 47 48.9 D	
			Ki	iP	15 46 59.7	
			Um	iP	15 47 22.6 D	
			Ud	iP	15 47 53.9	
					Okhotsk Sea (h = 390 km).	
	"	7	Um	iP	16 16 25.8	
				i	16 16 44.7	
	"	7	Up	ePKP	17 19 19	
				ipPKP	17 19 32.1	
			Um	iPKP	17 19 18.9	
					(cont.)	
1970	Mar.	7	(cont.)			
			Ud	ePKP	17 19 21	
			De	iPKP	17 19 31.9 C	
					Tonga Islands.	
					h = 50 km (Up).	
	"	7	Up	iPKP	17 31 16.1	
				ipPKP	17 31 29.5	
			Um	iPKP	17 31 14.6	
			Ud	iPKP	17 31 15.7 C	
				ipPKP	17 31 28.3	
			De	iPKP	17 31 27.7	
				ipPKP	17 31 40.0	
					Tonga Islands.	
					h = 45 km (Up,Ud,De).	
	"	7	Up	iP	19 03 47.5 D	
			Ki	iP	19 03 08.0	
			Sk	iP	19 03 41.5	
			Um	iP	19 03 25.5	
				ipP	19 03 37.2	
			Ud	iP	19 03 54.5	
			De	iP	19 04 09.2	
					Japan.	
					h = 45 km (Um).	
	"	7	Ki	iP	20 03 35.7	
	"	7	Up	iPKP	20 10 02.4	
			Ud	iPKP	20 10 04.5	
			De	ePKP	20 10 14	
	"	7	Up	iLgl	21 04 25.5	
			Sk	eSg	21 06 21	
			Um	iSg	21 05 09.5	
			Ud	iLgl	21 05 30.5	
			De	iLgl	21 05 59.8	
					Esthonia.	
					Explosion?	
	"	7	Up	iP	22 43 29.9	
			Ki	iP	22 43 16.2	
			Um	iP	22 43 20.0	
			Ud	iP	22 43 38.2 C	
					Celebes (h = 120 km).	
	"	8	Up	iP	01 22 47.9	
			Ki	eP	01 21 55	
			Ud	iP	01 22 48.1	
					Aleutian Islands (h = 25 km).	
	"	8	Up	iP	01 39 07.0	
	"	8	Up	iP	02 10 56.6	
			Um	iP	02 10 31.8	
			Ud	iP	02 11 02.7 C	
					Kurile Islands (h = N).	

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

1970						1970						
Mar.	8	Up	iLgl	03 28 56.4		Mar.	9	(cont.)				
		Ki	ePn	03 24 56				Sk	eP	01 01 15		
			iSn	03 25 52.0				Um	iP	01 01 00.1 C		
		Sk	iLgl	03 28 33.3					iPP	01 03 32.5		
		Um	i	03 26 46.9				Ud	iP	01 01 30.1 C		
			iSg	03 27 10.6				De	iP	01 01 46.6		
		Ud	iLgl	03 29 35.5				Japan.				
			Northwest Russia,					h = 35 km (Up).				
			67.6°N, 32.8°E.					m = 6.0, M = 5.7 (Up, Ki).				
			Origin time = 03 23 42.									
			Explosion?				"	9	Up	ipP	01 34 58.1	
	"	8	Up	iP	12 04 51.9				Ki	ipP	01 34 16.2	
				i	12 04 56.9				Um	iP	01 34 25.0	
			Ki	iP	12 04 36.5 C					ipP	01 34 35.7	
				ipP	12 04 47.4				Ud	iP	01 34 54.8	
										ipP	01 35 05.1	
									Japan.	h = 40 km (Um, Ud).		
								"	9	Ud	iP	01 40 20.7
			P	Z'	0.1 1.0			"	9	Um	eP	03 24 41
			Sk	iP	12 04 57.1					Ud	iP	03 25 11.5
			Um	iP	12 04 41.6				Japan (h = N).			
			Ud	iP	12 05 00.4			"	9	Um	iP	13 50 45.5
				i	12 08 08.9			"	9	Ki	i(P)	15 16 46.0
			Molucca Passage.					"	9	Ud	iP	15 17 46.4
			h = 40 km (Ki).					"	9	Ki	iP	15 24 58.2
	"	8	Ki	iP	17 02 08.8			"	9	Um	iP	15 24 38.5
			Um	iP	17 02 03.0			"	9	Ki	eSg	16 05 29
				i	17 02 10.5					Sk	eSg	16 05 33
	"	8	Up	iP	19 02 21.1					Um	iSg	16 05 57.4
			Ki	iP	19 01 36.0					Nordland, Norway.		
			Sk	iP	19 01 49.6					Origin time = 16 04 00.		
			Um	iP	19 02 00.4					Explosion?		
			Ud	iP	19 02 13.0			"	9	Up	i(PKP)	16 20 21.0
			Alberta, Canada (h = 9 km).							iPKP	16 20 24.2	
	"	8	Ki	iP	19 10 35.6					iPKS	16 23 55.7	
			Sk	eP	19 11 08					e	16 32 43	
			Um	iP	19 11 01.9						micr sec	
			Ud	iP	19 11 28.2					PKP	Z' 0.1 0.6	
			Aleutian Islands (h = 30 km).							Mx	E 11 20	
	"	9	Up	iP	01 01 23.6					Mx	N 20 20	
				ipP	01 01 32.7					Mx	Z 22 20	
										Ki	i(PKP)	16 20 03.3
										iPKP	16 20 10.3	
										e	16 33 08	
											micr sec	
										PKP	Z' 0.4 1.2	
										Mx	E 17 20	
										Mx	N 16 22	
										Mx	Z 36 21	
										(cont.)		
										(cont.)		

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

1970				1970						
Mar.	9	(cont.)		Mar.	10	Up	eP	02 24 06		
		Sk	i(PKP)			Ki	iP	02 23 49.6		
			iPKP			Sk	iP	02 24 11.1		
			e			Um	iP	02 23 55.1		
		Um	i(PKP)			Ud	iP	02 24 15.6		
			i			De	eP	02 24 22		
			iPKP			Mindanao (h = 100 km).				
			iPKS			"	10	Up	iP	05 09 23.7 C
		Ud	i(PKP)					iX	05 09 43.2	
			i					iS	05 18 15.0	
			iPKP					iP'P'	05 37 35.9	
			i(PP)						micr sec	
			i					P	Z' 0.8 0.9	
		De	i(PKP)					Mx	E 9.3 21	
			i					Mx	N 13 23	
			iPKP					Mx	Z 12 21	
		New Hebrides Islands				Ki	iP	05 08 37.1 C		
		(h = 40 km).					iX	05 08 55.4		
		M = 6.9 (Up,Ki).					i	05 10 14.8		
"	9	Up	iPKP	16 46 17.7					micr sec	
		Ki	iPKP	16 46 03.7 C				P	Z' 0.3 1.0	
		Sk	iPKP	16 46 14.2				i	Z' 0.1 1.0	
		Um	iPKP	16 46 09.6				Mx	E 10 20	
			iPKS	16 49 33.6				Mx	N 10 20	
		Ud	iPKP	16 46 19.9				Mx	Z 20 22	
		New Hebrides Islands.				Sk	iP	05 09 13.3		
		Origin time = 16 27 03.					iPcP	05 09 42.9		
"	9	Um	iP	17 33 47.4		Um	iP	05 08 58.4 C		
		Ud	iP	17 33 23.2			iPcP	05 09 33.5		
		Turkey.					iS	05 17 29		
"	9	Ki	eSg	18 04 54		Ud	iP	05 09 29.5 C		
		Sk	iSg	18 04 58.3			iP'P'	05 37 33.2		
		Um	eSg	18 05 23		De	iP	05 09 48.3		
			i	18 05 27.5		Kurile Islands (h = 40 km).				
		Nordland, Norway.				m = 6.7, M = 6.2 (Up,Ki).				
		Origin time = 18 03 26.				X (Up,Ki) may be P of another shock.				
		Explosion?				"	10	Um	iP	05 26 33.5
"	9	Ki	iPKP	18 49 56.5		Panama (h = 8 km).				
		Sk	iPKP	18 50 06.9		"	10	Up	iP	05 30 28.5
		Um	iPKP	18 50 03.3				iPcP	05 31 08.8	
			i	18 50 06.5					micr sec	
		Ud	iPKP	18 50 13.2				P	Z' 0.3 0.8	
		New Hebrides Islands				Ki	iP	05 30 17.9 C		
		(h = 30 km).					i	05 30 23.9		
"	9	Up	iPKP	20 07 44.2			iPcP	05 31 02.4		
		Ud	iPKP	20 07 45.3		Sk	iP	05 30 42.3 C		
"	9	Up	i(P)	22 59 37.5			iPcP	05 31 17.5		
		Ud	iP	22 59 20.0		Um	iP	05 30 18.7 C		
							iPcP	05 31 02.8		
						(cont.)				

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

1970				1970					
Mar.	10	(cont.)		Mar.	10	Sk	iSg	11 30 31.3	
		Ud	iP			Um	iSg	11 29 14.9	
		De	iP			Ud	iLgl	11 29 44.3	
						De	eLgl	11 30 09	
		Burma (h = N).				Esthonia.			
"	10	Up	iP	05 46 04.3		Origin time = 11 26 32.			
		Um	iP	05 45 55.4		Explosion?			
		Ud	iP	05 46 15.3	"	10	Um	iP	12 17 59.0
"	10	Up	iPKP	06 19 17.2		Ud	e(P)	12 16 19	
			i	06 19 38.8	"	10	Ki	eSg	13 04 04
		Ki	iPKP	06 18 57.7		Sk	iLgl	13 03 08.7	
		Sk	iPKP	06 19 12.3 C		Um	iSg	13 02 01.2	
		Um	e(PKP)	06 19 05		Esthonia.			
			iPKP	06 19 07.9		Origin time = 12 59 19.			
			i	06 19 21.0		Explosion?			
		Ud	iPKP	06 19 19.2	"	10	Ud	iP	13 14 06.7
		De	iPKP	06 19 27.0		De	iP	13 14 03.6	
			i	06 19 43.3		Hindu Kush.			
		South of Kermadec Islands			"	10	Up	iP	14 49 32.4
		(h = 45 km).				Ki	iP	14 49 07.3	
"	10	Up	iP	06 24 36.3 D		Um	iP	14 49 16.4	
				micr sec		Ud	iP	14 49 42.1 C	
		P	Z'	0.2 1.0	"	10	Ud	eP	16 11 56
		Mx	E	1.2 25		Talaud Islands (h = 100 km).			
		Mx	N	1.4 18	"	10	De	iPg	17 05 32.7
		Mx	Z	2.0 24			eSg	17 06 15	
		Ki	iP	06 24 18.6		Probably explosion in the			
				micr sec		South Baltic area.			
		P	Z'	0.3 1.0	"	10	Ki	iPKP	17 34 01.7
		Mx	E	2.1 21		Um	iPKP	17 34 00.4	
		Mx	N	0.8 18			i	17 34 17.9	
		Mx	Z	2.1 21		De	i(PKP)	17 33 53.9	
		Sk	iP	06 24 42.2		Australia (h = 5 km).			
		Um	iP	06 24 24.4	"	10	Ud	iP	22 14 19.6
		Ud	iP	06 24 45.0 D		De	iP	22 14 07.3	
		De	iP	06 24 50.8		Iran (h = 70 km).			
		Luzon (h = 30 km).			"	10	Up	iPKP	23 39 34.6
		m = 6.4, M = 5.5 (Up, Ki).					ipPKP	23 39 53.0	
"	10	Up	iP	08 31 26.5		Ud	iPKP	23 39 36.2 C	
		Um	eP	08 31 37		De	iPKP	23 39 45.8	
		Ud	iP	08 31 34.4		Tonga-Kermadec Islands.			
		Indian Ocean (h = N).				h = 60 km (Up).			
"	10	Ki	iPn	11 01 40.3	"	11	Up	eP	01 48 15
			iSn	11 02 38.7		Ki	eP	01 48 01	
			iSg	11 03 04.1		(cont.)			
		Sk	e(Lgl)	11 05 28					
			iSg	11 05 35.6					
		Um	iSg	11 03 54.5					
		Northwest Russia,							
		67.5° N, 33.4° E.							
		Origin time = 11 00 23.							
		Explosion?							

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

1970					1970				
Mar.	11	(cont.)			Mar.	11	Ki	iP	23 01 58.6
		Ki		micr sec			Um	iP	23 02 26.5
		Mx	E	0.3 12			Ud	iP	23 02 51.1
		Mx	N	0.6 17			Kodiak Island.		
		Um	eP	01 48 00			Origin time = 22 52 31.		
		Ud	eP	01 48 25					
		Yunnan, China (h = 50 km).			"	12	Up	iP	01 34 05.6 C
"	11	Ki	iP	10 32 56.1				P	Z' 0.1 0.7
		Ud	iP	10 33 51.8			Ud	iP	01 34 06.6
		Aleutian Islands (h = 35 km).					De	iP	01 34 17.3
"	11	Ki	iPn	14 22 20.4	"	12	Ki	iP	09 30 46.8
			iSn	14 23 23.8			Um	iP	09 31 01.6
			iLgl	14 23 42.4			Ud	iP	09 31 29.1
		Probably northwest Russia.							
		Origin time = 14 20 55.			"	12	Um	eP	12 48 09
		Explosion?						i	12 48 15.9
"	11	Um	iP	15 19 43.8			Ud	e(P)	12 48 52
			i	15 20 02.5	"	12	Up	iPKP2	13 05 31.0 C
"	11	Up	iP	22 48 58.3 C			Ki	iPKP	13 04 58.5 C
			ipP	22 49 10.4			Sk	iPKP	13 05 11.5 C
			iS	22 57 23.9			Um	iPKP	13 05 06.3 C
			i(P'P')	23 17 52.2			Ud	iPKP2	13 05 37.2
			iP'P'	23 18 01.2			De	iPKP2	13 05 47.9
				micr sec			New Zealand (h = 80 km).		
		P	Z'	0.8 1.0	"	12	Up	iSg	14 41 36.7
		P'P'	Z'	0.6 2.0			Sk	eSg	14 43 25
		Mx	E	2.2 19			Um	iSg	14 42 08.3
		Mx	N	5.2 23			Esthonia.		
		Mx	Z	4.3 22			Origin time = 14 39 26.		
		Ki	iP	22 48 03.6			Explosion?		
			iS	22 55 42	"	12	Up	iP	14 44 06.5
				micr sec			Ki	iP	14 44 10.1
		P	Z'	2.3 1.4			Ud	iP	14 44 23.2 C
		Mx	E	3.7 20			Kirghiz SSR (h = 40 km).		
		Mx	N	4.8 22	"	12	Sk	iP	15 24 09.4
		Mx	Z	12 22	"	12	Up	iSn	16 08 03.4
		Um	iP	22 48 31.4 C				iS ^X	16 08 21.2
			ipP	22 48 42.9				iLgl	16 08 27.1
			iS	22 56 34					micr sec
			i(P'P')	23 17 58.2				Lgl	Z' 0.1 0.5
			iP'P'	23 18 09.7			Ki	iLgl	16 12 25.3
		Ud	iP	22 48 55.3			Sk	iSn	16 09 08.6
			ipP	22 49 07.2				iSg	16 09 54.9
			iP'P'	23 17 59.5			Um	i	16 10 07.8
		De	iP	22 49 19.0 C				iLgl	16 10 28.8
			ipP	22 49 30.6			Ud	iPn	16 06 55.4
			iP'P'	23 17 53.5				iSn	16 07 44.7
		Kodiak Island.					(cont.)		
		h = 45 km (Up,Um,Ud,De).							
		m = 7.0, M = 5.8 (Up,Ki).							

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

1970				1970			
Mar.	12	(cont.)		Mar.	12	(cont.)	
		Ud	iSg 16 08 05.6			Up	i 22 17 47.0
		De	iPg 16 06 14.4 C			Um	iP 22 17 27.2 C
			iSg 16 06 32.7			Ud	iP 22 17 53.0
		Denmark, 55.9°N, 11.5°E.				Ryukyu Islands (h = N).	
		Origin time = 16 05 46.					
		Solution checked with Danish (COP) and Norwegian (KON) readings.		"	13	Up	iP 00 16 25.3
						Um	eP 00 16 21
						Ud	iP 00 16 26.9 D
"	12	Um	ePKP 16 48 40	"	13	Um	iP 00 57 45.1
			i 16 48 45.0				
		De	iPKP 16 49 02.0 D	"	13	Up	iPKP 05 12 03.3
		Fiji Islands (h = 620 km).				Sk	ePKP 05 11 57
						Um	iPKP 05 11 52.1
"	12	Up	iPKP 17 22 45.3 D			Ud	iPKP 05 12 04.9
			micr sec			Kermadec Islands (h = 60 km).	
			PKP Z' 0.1 0.7				
		Um	ePKP 17 22 35	"	13	Up	iSn 10 54 09.8
		Ud	iPKP 17 22 47.7 D				i 10 54 23.7
		De	iPKP 17 22 57.9				iSg 10 55 07.4
						Ki	iPn 10 50 53.1
"	12	Up	iP 18 12 34.4				iSn 10 51 52.1
			micr sec				iSg 10 52 16.4
		Mx	E 1.0 18			Sk	eSn 10 53 50
		Mx	N 3.3 18				iLgl 10 54 40.0
		Mx	Z 1.5 19			Um	iSn 10 52 31.1
		Ki	micr sec				iSg 10 53 06.2
		Mx	E 1.4 11			Ud	iSn 10 54 29.0
		Mx	N 1.6 16				iLgl 10 55 37.6
		Mx	Z 1.6 14			De	iLgl 10 57 07.8
		Um	iP 18 12 16.6			Northwest Russia, 67.5°N, 33.3°E.	
		Ud	iP 18 12 42.5			Origin time = 10 49 36.	
		Ryukyu Islands (h = 40 km).				Explosion? Unusually strong.	
		M = 5.6 (Up,Ki).					
"	12	Ki	iP 18 18 25.7	"	13	Ud	i(P) 12 50 43.8
		Um	iP 18 18 14.4				i 12 51 01.9
"	12	Ki	iP 18 18 53.4			De	i(P) 12 52 16.5
		Ud	iP 18 19 15.9	"	13	Ki	iP 14 23 10.6
		De	iP 18 19 16.7			Um	iP 14 23 21.2
		Tien-Shan.				Ud	iP 14 23 49.8
"	12	Up	iP 18 20 44.1	"	13	Ki	iPn 14 33 54.1
		Ki	eP 18 20 31				iSn 14 34 53.3
		Sk	iP 18 20 56.3				iLgl 14 35 13.9
		Um	iP 18 20 32.9			Probably northwest Russia.	
			i 18 20 37.2			Origin time = 14 32 38.	
		Ud	iP 18 20 56.7			Explosion?	
		De	iP 18 21 02.3	"	13	Ki	ePn 15 16 52
		Yunnan, China (h = N).					iSn 15 17 49.5
"	12	Up	iP 22 17 44.5				iLgl 15 18 07.1
		(cont.)				Probably northwest Russia.	
						Origin time = 15 15 37.	
						Explosion?	

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

1970				1970									
Mar.	13	Ud	i(Sg)	15 45	30.3	Mar.	14	(cont.)					
		De	i(Sg)	15 44	45.4			Um	iP	01 12	26.0		
"	13	Up	iP	15 50	41.9	"	14	Ud	iP	01 12	56.8		
		Ki	iP	15 50	21.0			Up	iP	01 23	21.3		
		Um	iP	15 50	29.0			Ud	iP	01 23	10.5		
		Ud	iP	15 50	51.7			De	iP	01 23	08.8		
		Luzon (h = 45 km).						Windward Islands (h = 70 km).					
"	13	Up	iP	17 09	14.1	"	14	Up	iP	01 57	28.4		
		Um	iP	17 08	50.4				iPP	01 58	06.8		
		Ud	iP	17 09	21.2						micr sec		
		De	eP	17 09	40			Mx	E	4.9	23		
		Kurile Islands.						Mx	N	8.1	22		
"	13	Up	iP	17 39	14.7			Mx	Z	5.1	16		
		Ki	iP	17 38	21.0			Ki	iP	01 58	11.8 C		
		Um	iP	17 38	47.4						micr sec		
		Ud	iP	17 39	16.6			P	Z'	0.2	1.2		
		Aleutian Islands (h = 60 km).						Mx	E	3.7	15		
"	13	Ki	iPKP	18 29	34.0			Mx	N	3.8	13		
		Sk	iPKP	18 29	47.6			Mx	Z	6.3	13		
		New Hebrides Islands (h = 15 km).						Sk	i	01 58	52.1		
"	13	Up	iP	18 35	08.5 C			Um	iP	01 57	45.2		
		Ki	iP	18 35	02.1	"	14	Ud	iP	01 57	44.3 C		
		Sk	iP	18 35	24.7			De	iP	01 57	26.4		
		Um	iP	18 35	00.7 C			Turkey-Iran (h = 25 km).					
		Ud	iP	18 35	22.1			M = 5.4 (Up,Ki).					
		De	iP	18 35	24.1			Ki	iP	02 48	49.7		
		Burma-India (h = 60 km).						Um	iP	02 48	54.5		
"	13	Up	iLgl	20 36	13.8			Ud	iP	02 49	11.7		
			i	20 36	19.7			De	iP	02 49	17.3		
		Ki	iP ^x	20 32	57.4			Celebes (h = 280 km).					
			iSn	20 33	25.7			Up	iP	03 01	02.7		
			iSg	20 33	31.2			Ki	iP	03 00	21.7		
		Sk	iPn	20 33	15.0			Um	iP	03 00	39.7		
			iP ^x	20 33	23.4			Ud	iP	03 01	11.4		
			iLgl	20 34	13.7			De	iP	03 01	27.1		
		Um	iPn	20 33	21.2			Sikhota Alin (h = 330 km).					
			iSn	20 34	11.6			"	14	Um	iP	05 31	39.7
			iLgl	20 34	30.2			Ud	iP	05 31	57.7		
		Ud	iSn	20 35	21.4			Hindu Kush.					
			iLgl	20 36	03.4			"	14	Ud	iP	07 42	39.9
		De	eLgl	20 37	50			De	iP	07 42	36.9		
			i	20 37	59.1			North Atlantic Ocean (h = N).					
		Off coast of Nordland, Norway, 67.4°N, 14.2°E.					"	14	Up	iRg	08 13	03.0	
		Origin time = 20 32 14.						Ud	iPg	08 12	31.5		
"	14	Up	iP	01 12	44.9				iSg	08 12	59.2		
		Ki	iP	01 12	05.2			De	iPg	08 12	24.7		
		(cont.)							iSg	08 12	48.0		
									iRg	08 12	55.5		
								(cont.)					

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

1970				1970			
Mar.	14	(cont.) Östergötland, Sweden, 58.1°N, 15.6°E. Origin time = 08 11 49. Explosion?		Mar.	14	Up iP	22 16 38.5
						Ki iP	22 16 21.7
						Um iP	22 16 25.2
						Ud iP	22 16 51.5
						Szechwan, China (h = 40 km).	
"	14	Ki iSg	12 32 40.8	"	15	Up iP	05 41 50.7
		Sk eSg	12 32 44			ipP	05 42 00.9
		Um iSg	12 33 07.7			Ki iP	05 41 21.4
		Ud eLgl	12 34 32			ipP	05 41 32.3
		Nordland, Norway.				Sk iP	05 41 50.1
		Origin time = 12 31 12.				Um iP	05 41 33.1 C
		Explosion?				ipP	05 41 43.1
"	14	Up iP	13 02 24.2			Ud iP	05 41 58.6 C
		ipP	13 02 37.0			ipP	05 42 09.7
		Ki iP	13 01 38.2			De iP	05 42 08.8
		Um iP	13 01 59.2			ipP	05 42 20.0
		Ud iP	13 02 29.8			Ryukyu Islands.	
		De iP	13 02 48.1			h = 40 km (Up,Ki,Um,Ud,De).	
		Kurile Islands.		"	15	Up iP	06 17 52.3
		h = 45 km (Up).				Um e(P)	06 17 26
"	14	Ki iPn	13 28 51.2	"	15	Um eP	08 29 39
		iSn	13 29 40.2			Japan (h = 50 km).	
		Um iSn	13 30 48.0	"	15	Up iP	09 15 27.5
		iSg	13 31 25.3			Ki iP	09 14 43.6
		Probably northwest Russia.				Um iP	09 15 02.8 C
		Origin time = 13 27 46.				Ud iP	09 15 34.3 C
		Explosion?				De iP	09 15 51.5 C
"	14	Up iP	13 56 19.8			Japan (h = 260 km).	
		Ki iP	13 56 28.7	"	15	Ki iPKP	12 57 49.1
		Ud iP	13 56 08.9			ipPKP	12 58 25.7
		De iP	13 56 07.6			Um iPKP	12 57 47.1
		Venezuela (h = 100 km).				Ud iPKP	12 57 38.3 C
"	14	Up iP	14 22 36.0			ipPKP	12 58 13.1
		Ud iP	14 22 35.9			i	12 58 22.7
		Aleutian Islands (h = 100 km).				De ePKP	12 57 38
"	14	Up iP	19 29 58.2			Chile-Argentina.	
		Ud eP	19 30 05			h = 140 km (Ki,Ud).	
"	14	Um iP	19 35 05.1	"	15	Ki eP	13 07 05
"	14	Um eP	21 02 09			Um e(pP)	13 07 58
"	14	Up iPKP	21 07 53.2			Ud e(pP)	13 08 27
		i	21 07 55.6			i	13 08 36.8
		Ki iPKP	21 07 45.8			i	13 09 09.8
		Um ePKP	21 07 47			Alaska (h = 100 km).	
		Ud iPKP	21 07 55.1	"	15	Up iP	15 17 30.2
		De iPKP	21 08 06.4			Um iP	15 17 39.7
		Fiji Islands (h = 610 km).				Ud iP	15 17 38.6
						Iran (h = 70 km).	

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

1970				1970					
Mar.	15	Up	iP	18 21 12.2	Mar.	16	Ki	iPg	18 10 30.3 C
		Um	i(P)	18 21 14.2				iSg	18 10 35.1
		Ud	iP	18 21 20.7				iRg	18 10 37.3
"	15	Up	iP	18 41 31.9			Sk	eSg	18 13 10
		Ki	iP	18 41 40.7 C			Um	iSg	18 12 22.2
		Sk	iP	18 41 57.0			Swedish Lapland, 67.5°N, 20.1°E. Origin time = 18 10 22. Probably explosion.		
		Um	eP	18 41 30 C					
		Ud	iP	18 41 48.5					
		De	iP	18 41 45.0					
		Hindu Kush (h = 220 km).			"	16	Ki	iP	19 16 29.6
							Um	iP	19 16 34.2
"	16	Up	iP	03 56 03.0	"	16	Sk	e(P)	20 30 57
			i	03 56 05.9					
		Um	iP	03 55 54.6	"	17	Up	iPKP	01 37 12.1
		Ud	iP	03 56 17.9					micr sec
			i	03 56 20.8				PKP	Z' 0.2 0.7
		De	iP	03 56 20.3			Sk	iPKP	01 37 06.7
		Tibet (h = 50 km).					Um	iPKP	01 37 00.9
								iPP	01 40 06.0
"	16	Up	iP	07 52 43.2			Ud	iPKP	01 37 14.8
		Um	iP	07 52 24.2			De	iPKP	01 37 24.9
			i	07 52 31.6			Tonga-Kermadec Islands (h = 90 km).		
		Ud	iP	07 52 50.4					
		De	eP	07 53 05	"	17	Up	iP	03 31 32.9 C
		South of Japan (h = 35 km).			"	17	Sk	eSg	11 01 45
							Um	eSg	11 00 16
"	16	Ud	iP	11 35 54.4	"	17	Up	i(P)	12 50 54.7
		De	iP	11 36 05.6 C			De	iP	12 51 30.5
"	16	Up	eLgl	13 24 38	"	17	Sk	iSg	15 30 00.0
		Ki	iSg	13 27 15.1			Ud	iPg	15 28 27.0
		Um	eSg	13 25 15				iSg	15 28 51.5
		Ud	iLgl	13 25 45.1			De	eSg	15 29 57
		De	eLgl	13 26 07			South Norway, 59.8°N, 9.9°E. Origin time = 15 27 50.		
		Esthonia. Origin time = 13 22 33. Explosion?			"	17	Up	iPP	17 05 36.8
"	16	Up	iPKS	16 48 13.6			Sk	iP	17 05 58.8
			i	16 48 23.1			Um	eP	17 05 53
				micr sec			Ud	iP	17 05 19.1
		Mx	E	0.8 20			De	eP	17 04 46
		Mx	N	1.1 22			Yugoslavia (h = N).		
		Mx	Z	1.3 20	"	17	Up	iP	17 18 34.2 C
		Ki		micr sec			Ki	iP	17 18 02.0 C
		Mx	E	1.2 18			Sk	iP	17 18 33.3
		Mx	N	1.2 19			Um	iP	17 18 15.0 C
		Mx	Z	2.8 21			Ud	iP	17 18 42.5 C
		Um	iPKS	16 48 00.6	"	17	Japan (h = 130 km).		
		New Hebrides Islands (h = 8 km). M = 5.7 (Up,Ki).							
"	16	Up	iP	17 44 21.2					
		Um	iP	17 44 03.1					
		Ud	iP	17 44 29.7 C					

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

1970				1970			
Mar.	17	Ki	iPKP	17 40 26.7	Mar.	18	(cont.)
			South Sandwich Islands				Um iSg 12 28 38.5
			(h = N).				Ud iLgl 12 29 07.1
"	17	Up	iS ^x	18 06 47.2			De eLgl 12 29 36
			iSg	18 07 04.6			Esthonia.
		Ki	ePg	18 04 26			Origin time = 12 25 57.
			iSg	18 05 02.0			Explosion?
		Sk	ePg	18 04 27	"	18	Ud iSg 12 45 15.9
			iSg	18 05 06.0			De iPg 12 44 38.9
		Um	iPg	18 04 41.0			iSg 12 45 04.1
			iSn	18 05 14.5	"	18	Up i(P) 14 40 51.8
			iSg	18 05 28.5			micr sec
		Ud	eSg	18 06 55			(P) Z' 0.1 0.8
			Nordland, Norway,		"	18	Up iP 14 56 40.2
			66.3°N, 14.6°E.				Ki e(P) 14 57 05
			Origin time = 18 03 33.		"	18	Up iP 17 24 03.5
"	17	Up	iP	21 48 00.2			Ki iP 17 25 11.4
			Aleutian Islands (h = 20 km).		"	18	Um eP 17 24 44
"	17	Up	ipP	22 10 32.9			Ud eP 17 24 20
		Ki	iP	22 09 35.8			Cyprus (h = 30 km).
		Sk	eP	22 10 00	"	18	Ki eP 21 41 54
		Um	iP	22 09 54.5			Um iP 21 40 45.3
			ipP	22 10 08.2	"	18	Um iP 23 30 38.2
		Ud	iP	22 10 18.5			Nicaragua (h = 55 km).
			ipP	22 10 29.1	"	19	Up iP 03 32 44.1
		De	ipP	22 10 53.4			Um iP 03 32 32.1
			Gulf of Alaska.		"	19	Up iLgl 08 28 23.9
			h = 50 km (Um,Ud).				Ud iPg 08 26 59.4
			The phase interpreted as pP				iSg 08 27 33.1
			is much more pronounced				De iPg 08 27 07.1
			than P.				iS ^x 08 27 44.5
"	17	Up	iP	23 26 59.2			iSg 08 27 50.6
			iPP	23 28 22.9			Off south coast of Norway,
		Ki	iP	23 27 21.6			58.5°N, 9.4°E.
			micr sec				Origin time = 08 26 07.
			Mx N 2.0 20		"	19	Up iLgl 09 05 18.2
		Sk	eP	23 27 32			Ud iSg 09 04 25.6
		Um	iP	23 27 06.4			De iS ^x 09 04 34.8
			iPP	23 28 33.0			iSg 09 04 43.4
		Ud	iP	23 27 12.6			Off south coast of Norway.
			i	23 27 16.0	"	19	Um e(Sg) 12 04 33
			iPP	23 28 41.3	"	19	Up i(P) 13 29 03.0
		De	iP	23 27 06.3	"	19	Um i(P) 14 38 28.2 C
			Iran (h = 20 km).				Ud i(P) 14 39 57.9
"	18	Up	iP	00 21 30.0			
		Um	iP	00 21 05.0			
		Ud	iP	00 21 36.1			
			i	00 21 47.8			
"	18	Up	iSg	12 28 07.6			
			(cont.)				

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

1970				1970							
Mar.	19	Up	iP	15 32 04.0	D	Mar.	20	Um	ePKP	01 38 17	
			ipP	15 32 14.1				Ud	iPKP	01 38 30.4	
				micr sec				De	iPKP	01 38 41.8	
			P	Z' 0.2	0.8						
		Ki	iP	15 31 11.5	D	"	20	Ki	iP	06 15 34.6	
				micr sec				Halmahera (h = 100 km).			
			P	Z' 0.3	0.9						
		Sk	iP	15 31 43.0		"	20	Ki	iPn	06 18 51.3	
		Um	iP	15 31 37.2	D				iSn	06 19 50.0	
		Ud	iP	15 32 04.7	D			Probably northwest Russia.			
		De	iP	15 32 25.9				Origin time = 06 17 34.			
		Aleutian Islands.						Explosion?			
		h = 35 km (Up).									
		m = 6.4 (Up,Ki).					"	20	Ki	iPn	10 50 35.6
"	19	Up	iP	16 42 19.1					iSn	10 51 33.6	
		Um	i(P)	16 41 52.4					iSg	10 51 56.8	
		Ud	iP	16 42 30.6				Sk	eLgl	10 54 23	
"	19	Up	ePKP	19 32 55				Um	iSn	10 52 13.5	
		Ud	iPKP	19 32 56.3					iLgl	10 52 43.4	
		Kermadec Islands (h = 8 km).						Ud	iLgl	10 55 22.5	
"	19	Up	iP	23 44 24.8				Northwest Russia,			
			iPcP	23 44 48.9				67.6°N, 33.2°E.			
			iP'P'	00 12 43.2				Origin time = 10 49 21.			
				micr sec		"	20	Up	iP	11 20 47.2	
			P	Z' 0.6	1.0				i	11 21 34.6	
			P'P'	Z' 0.2	1.4			Ki	iP	11 20 31.6	
		Mx	E	9.4	23					micr sec	
		Mx	N	15	23				P	Z' 0.1	
		Mx	Z	9.5	24				Mx	E 1.5	
									Mx	N 0.4	
		Ki	iP	23 43 32.2	C				Mx	Z 1.4	
			i	23 43 38.8				Sk	iP	11 20 53.5	
			iP'P'	00 13 00.1				Um	iP	11 20 37.0	
				micr sec					i	11 20 46.6	
			P	Z' 0.4	1.0			Ud	iP	11 20 56.0	
			P'P'	Z' 0.5	2.0				ipP	11 21 11.9	
		Mx	E	14	22			De	iP	11 21 02.3	
		Mx	N	12	20			Mindanao.			
		Mx	Z	21	20			h = 60 km (Ud).			
		Sk	iP	23 44 08.1		"	20	Um	iPKP	11 37 02.4	
		Um	iP	23 43 57.7	C			Ud	iPKP	11 37 05.1	
			iPcP	23 44 39.1				New Hebrides Islands			
			iS	23 52 30				(h = 250 km).			
			iP'P'	00 12 48.0		"	20	Up	iP	15 00 20.5	
		Ud	iP	23 44 26.6	C			Ud	iP	15 00 14.4	
			i	23 44 30.6		"	20	Up	iPg	15 42 23.7	
			iP'P'	00 12 39.9					iSg	15 42 55.4	
		De	iP	23 44 48.8		"	20	Um	iLgl	15 44 52.5	
			iPcP	23 45 12.2				(cont.)			
		Aleutian Islands (h = 15 km).									
		m = 6.6, M = 6.3 (Up,Ki).									

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

1970				1970			
Mar.	21	(cont.)		Mar.	22	(cont.)	
		Ud	iP 13 31 06.5			Ki	iP 10 10 30.3
			i 13 31 26.1			Um	eP 10 09 57
		De	eP 13 30 53			Ud	eP 10 09 15
		Iran (h = 40 km).				Morocco.	
"	21	Up	iP 17 44 55.5	"	22	Up	iP 10 52 21.4
		Ki	iP 17 44 10.2			Ki	iP 10 52 02.9
		Um	iP 17 44 30.3			Sk	iP 10 52 30.5
		Ud	iP 17 45 01.6			Um	iP 10 52 07.0
		De	iP 17 45 19.4			Ud	iP 10 52 34.2
		Kurile Islands (h = 45 km).				Szechwan, China (h = 15 km).	
"	21	Um	e 20 48 32	"	22	Ki	ePn 13 08 06
		Ud	eS 20 45 36				iSn 13 09 07.9
			e(Sg) 20 47 06			Sk	iPn 13 09 06.8
		De	iRg 20 45 07.9			Um	iSn 13 09 37.3
		Germany (h = 15 km).					iSg 13 10 12.6
						Northwest Russia.	
"	21	Up	iPKP 22 51 44.4			Origin time = 13 06 45.	
		Um	ePKP 22 51 43			Explosion?	
		Ud	iPKP 22 51 43.2	"	22	Up	iP 20 27 39.1
		De	iPKP 22 51 54.7 C			Um	iP 20 27 36.8
		Tonga Islands (h = N).				Ud	iP 20 27 55.5 C
						Hindu Kush.	
"	22	Up	eSg 00 44 09	"	22	Um	iPKP 22 50 09.3
		Ki	ePn 00 39 27			Santa Cruz Islands (h = 20 km).	
			iSn 00 40 13.2	"	22	Up	ePKP 23 21 13
			iSg 00 40 28.5			i	23 21 26.5
		Sk	e 00 42 40			Ki	iPKP 23 21 13.9
			iSg 00 43 23.2			Sk	iPKP 23 21 22.8 C
		Um	iSn 00 41 19.9			Um	iPKP 23 21 12.8
			iSg 00 41 59.3			Ud	ePKP 23 21 27
		Ud	i(Lgl) 00 44 32.4			West of Macquarie Islands	
		Northwest Russia,				(h = N).	
		69.0°N, 30.3°E.		"	23	Up	iP 00 31 48.8
		Origin time = 00 38 26.				iPP	00 34 24.5
		Explosion?					micr sec
"	22	Up	iP 03 03 34.8			P	Z' 0.2 0.9
		Um	iP 03 03 23.4			PP	Z' 0.1 1.0
			i 03 03 25.0			Mx	E 1.0 17
		Ud	iP 03 03 36.5			Mx	N 1.4 22
"	22	Up	iPKP 08 43 55.4			Ki	iP 00 31 07.9
		Ud	iPKP 08 43 55.6				iS 00 39 28.1
			i 08 43 58.7				micr sec
		De	iPKP 08 44 05.8			P	Z' 0.2 1.0
		Fiji Islands (h = 190 km).				Mx	E 1.0 16
"	22	Ud	iPKP 09 51 57.7			Mx	N 0.8 17
		Easter Island (h = N).				Mx	Z 1.1 17
"	22	Up	iP 10 09 26.5			Sk	iP 00 31 42.7
		(cont.)				(cont.)	

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

1970				1970				
Mar.	23	(cont.)		Mar.	23	Up	iP	12 26 16.7 C
		Sk	iPP 00 34 15.2				ipP	12 26 55.5
			i 00 35 52.7					micr sec
		Um	iP 00 31 26.1				P	Z' 0.3 0.9
			iS 00 40 01.9			Ki	iP	12 25 45.8 C
		Ud	iP 00 31 56.5					micr sec
		De	iP 00 32 12.5				P	Z' 0.3 1.3
			iPP 00 34 54.4				Mx	E 0.4 12
		Japan (h = 150 km).					Mx	N 0.4 13
		m = 6.0, M = 5.2 (Up,Ki).					Mx	Z 1.1 17
"	23	Up	iP 02 02 28.1			Sk	iP	12 26 16.3 C
			i 02 02 33.7			Um	iP	12 25 58.0 C
			micr sec				ipP	12 26 37.4
			P Z' 0.1 1.0			Ud	iP	12 26 25.1 C
			Mx E 1.0 17				ipP	12 27 05.4
			Mx N 1.3 21			De	iP	12 26 36.9 C
			Mx Z 1.6 17			Ryukyu Islands.		
		Ki	iP 02 02 43.3			h = 160 km (Up,Um,Ud).		
			i 02 02 49.2			m = 6.0 (Up,Ki).		
			micr sec	"	23	Up	iP	13 37 17.5 C
			Mx E 0.8 14	"	23	Ki	iP	13 56 47.6
			Mx N 0.9 16	"	23	Up	iP	21 00 43.8 C
			Mx Z 0.9 15				i	21 00 47.0
		Sk	iP 02 02 53.2					micr sec
			i 02 02 59.5				P	Z' 0.1 0.5
		Um	iP 02 02 30.9				Mx	E 1.6 10
			i 02 02 36.7				Mx	N 1.4 14
		Ud	iP 02 02 42.4 C				Mx	Z 1.2 13
			i 02 02 48.0			Ki	iP	21 01 59.9
		De	iP 02 02 35.2 C					micr sec
			i 02 02 41.3				Mx	E 2.7 15
		India (h = 3 km).					Mx	N 0.8 12
		M = 5.1 (Up,Ki).					Mx	Z 1.3 12
		Double P, average interval = 5.9 sec.				Sk	iP	21 01 25.8
"	23	Up	iP 04 23 39.4			Um	iP	21 01 24.2
		Ki	iP 04 22 46.7				i	21 01 33.4
		Um	iP 04 23 11.3			Ud	iP	21 00 50.1
		Ud	iP 04 23 42.6				i	21 00 54.3
		Kamchatka (h = 60 km).				De	iP	21 00 14.0
"	23	Ki	iP 06 15 30.0				i	21 00 23.9
		Kamchatka (h = N).				Greece-Albania (h = 10 km).		
"	23	Um	iP 08 01 33.4			M = 4.9 (Up,Ki).		
		Turkey.		"	23	Ki	iP	21 41 50.4
"	23	Ki	iP 09 21 01.1			Um	iP	21 41 47.0
		Um	iP 09 21 06.7				i	21 42 04.1
		Ud	iP 09 21 26.6			Sumatra (h = 110 km).		
		Mindanao (h = 20 km).		"	23	Sk	iP	22 10 43.2
"	23	Um	iP 09 49 26.7			Ud	i(P)	22 10 58.9
				"	23	Up	iP	22 25 45.2 D
						(cont.)		

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

1970				1970							
Mar.	23	(cont.)		Mar.	24	(cont.)					
		Ki	iP	22 24	51.4	Ud	iPP	10 55	41.7		
		Aleutian Islands (h = 45 km).							iPKKP	11 04	19.2
							i	11 04	23.3		
"	23	Up	iP	23 16	48.8 C	De	iPKP	10 54	11.4		
					micr sec	Australia (h = N).					
			P	Z'	0.1 0.9	M = 5.7 (Up,Ki).					
		Ki	iP	23 16	14.5 C	(PP) denotes early arrivals of PP.					
					micr sec						
			P	Z'	0.1 1.1	"	24	Up	iSg	11 35	17.6
		Sk	iP	23 16	22.8 C			Ud	iPg	11 34	28.8
		Um	iP	23 16	34.1 C				iSg	11 34	50.6
		Ud	iP	23 16	40.7 C			De	iPg	11 34	38.8
		De	iP	23 16	56.7				iSg	11 35	07.5
		Nevada.									
		m = 5.9 (Up,Ki).									
		Underground explosion.									
						"	24	Ki	eP	11 36	08
"	24	Um	iP	02 28	45.0			Um	iP	11 36	14.8
		Ud	iP	02 29	11.5			Ud	iP	11 36	35.0
		Aleutian Islands (h = 10 km).									
"	24	Ki	iP	04 04	42.7 C	"	24	Up	iLg1	11 40	13.5
"	24	Um	ePKP	04 38	26			Sk	iSg	11 40	06.7
			i	04 38	34.7				i	11 40	16.3
		New Hebrides Islands (h = 60 km).									
		Ud	iSn					Ud	iSg	11 38	55.6
										11 39	14.7
		Southwest Norway, 59.0°N, 6.3°E.									
"	24	Up	iPKP	10 54	05.6			Origin time = 11 37 08.			
			i(PP)	10 55	06.9			Solution checked with Kongsberg readings.			
			iPP	10 55	26.2						
					micr sec	"	24	Sk	iLg1	13 05	51.2
		Mx	E	0.8	18			Um	iSg	13 04	44.3
		Mx	N	1.2	20			Ud	iLg1	13 05	09.5
		Mx	Z	2.0	21			Esthonia.			
		Ki	iPKP	10 54	02.5 C			Origin time = 13 02 00.			
			iPP	10 55	11.9			Explosion?			
			iPKKP	11 04	38.7						
					micr sec	"	24	De	iSg	13 05	27.1
		PKP	Z'	0.1	1.0						
		Mx	E	2.1	21	"	24	Ud	iPKP	13 23	55.7
		Mx	N	1.5	21			De	iPKP	13 24	07.2 C
		Mx	Z	2.3	19			Fiji Islands (h = 610 km).			
		Sk	iPKP	10 54	11.1 C	"	24	Up	iSg	14 05	43.8
			ePP	10 55	42					micr sec	
			i(PKKP)	11 04	28.5			Sg	Z'	0.1 0.5	
		Um	iPKP	10 54	03.3			Sk	eLg1	14 06	50
			i(PP)	10 55	00.3			Ud	iPg	14 04	47.0
			iPP	10 55	16.3				i	14 04	51.1
			iPKKP	11 04	30.3				iSg	14 05	00.8
			i	11 04	34.3			De	iPg	14 05	12.5
		Ud	e(P)	10 50	48				iSg	14 05	41.4
			iPKP	10 54	10.1			(cont.)			
			i(PP)	10 55	28.1			(cont.)			
		(cont.)									

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

1970				1970		
Mar.	24	(cont.) Lake Vener, Sweden, 58.9°N, 13.5°E. Origin time = 14 04 24.		Mar.	25	(cont.) Sk iSg 15 17 21.2 Um iSn 15 17 31.2 iSg 15 17 44.8 Ud e(Lg1) 15 19 12 Nordland, Norway. Origin time = 15 15 48.
"	24	Ud iP 14 39 33.9 Leeward Islands (h = 20 km).		"	25	Up iP 16 16 59.4 Um iP 16 17 33.8
"	24	Up iP 15 53 27.5 Um iP 15 53 30.4 C Ud iP 15 53 48.2 Hindu Kush (h = 55 km).		"	25	Up iP 17 20 17.3 Um iP 17 20 50.9 i 17 21 01.7 Ud iP 17 20 23.7 D De iP 17 19 50.4 Crete.
"	24	Up iSg 15 59 51.6 Ud iSg 15 59 07.6 De iSg 15 59 48.3 Lake Vener, Sweden, 58.9°N, 13.5°E. Origin time = 15 58 31.		"	26	Um iP 05 55 45.0
"	24	Up iP 23 57 50.9 micr sec P Z' 0.1 0.8 Ki iP 23 57 34.9 Sk iP 23 58 01.9 Um iP 23 57 38.6 Ud iP 23 58 03.5 De eP 23 58 08 China (h = 8 km).		"	26	Up iP 15 32 03.3 i 15 32 07.5 Ki eP 15 31 11 Sk iP 15 31 40.8 Um iP 15 31 36.8 Ud iP 15 32 03.5 De iP 15 32 25.9 Aleutian Islands (h = 4 km).
"	25	Um iP 06 57 00.1 Ud i(P) 06 56 41.0		"	26	Up iP 19 11 48.1 C iX 19 12 16.6 iPP 19 14 37.4 micr sec P Z' 0.7 1.0 PP Z' 0.4 1.7 Mx E 1.7 18 Mx N 2.5 18 Mx Z 2.9 18 Ki iP 19 11 13.8 C iPP 19 13 45.0 iP'P' 19 39 10.8 micr sec P Z' 0.8 1.4 PP Z' 0.7 2.0 P'P' Z' 0.5 1.7 Mx E 3.4 19 Mx N 2.3 16 Mx Z 4.5 17 Sk iP 19 11 22.1 C iPP 19 13 53.7 Um iP 19 11 33.2 C iX 19 12 03.5 i 19 14 08.7 iPP 19 14 15.7 Ud iP 19 11 40.2 C (cont.)
"	25	Ki iPn 10 57 11.2 iSn 10 58 09.7 iLg1 10 58 30.0 Sk i(Lg1) 11 00 57.6 iSg 11 01 05.2 Um iSg 10 59 19.1 Ud i(Lg1) 11 01 55.6 Northwest Russia, 67.2°N, 33.2°E. Origin time = 10 55 55. Explosion?				
"	25	Up iP 12 31 43.0 C i 12 31 49.1 Ki iP 12 30 48.9 Sk iP 12 31 15.9 Um iP 12 31 16.9 C i 12 31 28.7 Ud iP 12 31 40.9 De iP 12 32 03.4 Kodiak Island (h = 10 km).				
"	25	Ki eSg 15 17 16 (cont.)				

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

1970				1970					
Mar.	26	(cont.)		Mar.	27	Up	iP	05 09 52.3	
		Ud	iPP	19 14 16.5			i	05 09 56.2	
		De	iP	19 11 57.0 C		Ki	iP	05 09 37.0 C	
		Nevada.				Sk	iP	05 10 07.8	
		m = 6.7, M = 5.8 (Up,Ki).				Um	iP	05 09 37.4	
		Underground explosion.				Ud	iP	05 10 08.8 C	
		The PP arrivals are early,				De	iP	05 10 15.7	
		by about 6 sec in average.				Kazakh SSR.			
						Underground explosion.			
"	26	Um	iP	21 25 48.6	"	27	Um	iPKP	08 36 09.5
		Japan (h = 40 km).					i	08 36 19.9	
"	27	Up	iP	00 30 11.9		Fiji Islands (h = 590 km).			
		Ki	eP	00 30 12	"	27	Ki	eP	08 55 14
		Um	iP	00 30 08.7		Ud	eP	08 56 10	
		Ud	iP	00 30 21.9		Kurile Islands (h = 45 km).			
"	27	Up	iP	03 17 35.5	"	27	Up	iP	09 47 52.4
			iSS	03 20 36.9		Ki	iP	09 48 00.7	
		Ki	eP	03 16 04		Sk	iP	09 48 17.9	
			i	03 16 16.0		Um	iP	09 47 50.5	
			iS	03 17 23.9		Ud	iP	09 48 08.7 C	
		Sk	iP	03 16 39.2		De	iP	09 48 05.6	
			iS	03 18 22.0		Hindu Kush (h = 210 km).			
		Um	eP	03 17 04	"	27	Up	e	13 03 00
			i	03 18 44.3			iSg	13 03 12.9	
			iS	03 19 09.3		Ki	eLgl	13 05 26	
		Ud	eP	03 17 27			iSg	13 05 48.3	
			i	03 17 41.5		Sk	iSg	13 05 05.9	
			iSS	03 20 14.8		Um	iSg	13 03 45.9	
		Northeast of Jan Mayen,				Ud	iLgl	13 04 19.5	
		near 72.1/2°N, 4°E.				Esthonia.			
		Origin time = 03 14 24.				Origin time = 13 01 06.			
"	27	Up	iP	04 39 30.3 C		Explosion?			
			i	04 39 34.7	"	27	Up	iP	13 44 42.5
		Ki	iP	04 39 31.4 C			i	13 44 56.4	
			i	04 39 36.5		Um	iP	13 45 30.7	
				micr sec	"	27	Up	iP	18 50 12.3
		P	Z'	0.1 1.0			iPP	18 54 07.7	
		Sk	iP	04 39 17.2 C				micr sec	
			i	04 39 22.2		P	Z'	0.1 1.0	
		Um	iP	04 39 33.6		Mx	E	24 21	
			i	04 39 37.9		Mx	N	69 23	
		Ud	iP	04 39 20.5 C		Mx	Z	22 24	
		De	iP	04 39 23.3 C		Ki	iP	18 50 00.5	
			i	04 39 27.7			ipP	18 50 10.5	
		Colombia (h = 30 km).					iSKS	19 00 32	
		Double P.						micr sec	
"	27	Ki	iPKP	04 53 07.3		P	Z'	0.5 1.5	
		Um	iPKP	04 53 13.3		pP	Z'	0.7 1.5	
		New Hebrides Islands				(cont.)			
		(h = 15 km).							

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

Year	Date	Station	Phase	Time	Location	Year	Date	Station	Phase	Time	Location
1970	Mar. 27	(cont.)				1970	Mar. 28	Up	iP	07 44 57.7	
		Ki	Mx	E 45 20				Ki	iP	07 44 15.8	
			Mx	N 36 18				Sk	eP	07 44 50	
			Mx	Z 41 19				Um	iP	07 44 34.7	
		Sk	iP	18 50 17.9				Ud	iP	07 45 05.2	
			ipP	18 50 29.0				Japan (h = 70 km).			
			iPP	18 54 15.9			"	28	Up	ePKP	08 04 41
		Um	iP	18 50 02.6					iPKKP	08 14 59.8	
			iSKS	19 00 36						micr sec	
		Ud	iP	18 50 20.4					Mx	E 2.3 20	
			iPP	18 54 14.5					Mx	N 1.9 23	
		De	iP	18 50 24.8					Mx	Z 2.6 20	
			iPP	18 54 31.2				Ki	iPKKP	08 15 34.5	
		Celebes.								micr sec	
		h = 40 km (Ki,Sk).							Mx	E 3.5 23	
		m = 6.4, M = 7.1 (Up,Ki).							Mx	N 0.9 19	
"	27	Up	ipP	18 52 24.2					Mx	Z 2.8 19	
			i	18 52 35.3				Sk	iPKP	08 04 42.5	
		Sk	ipP	18 52 08.9				Um	iPKP	08 04 31.1	
		Um	ipP	18 52 21.2					ePKKP	08 15 21	
		Ud	ipP	18 52 27.6				Ud	iPKP	08 04 41.3	
		Nicaragua (h = 180 km).						De	iPKP	08 04 52.3	
"	27	Sk	e	19 55 40				Solomon Islands (h = 60 km).			
		Um	iPg	19 53 58.6				M = 6.0 (Up,Ki).			
			iSg	19 54 13.5			"	28	Up	iP	09 50 21.5
"	28	Ki	iPKP	03 41 32.2					Ki	iP	09 49 48.4 C
		New Hebrides Islands							Ud	iP	09 50 15.4 C
		(h = 3 km).						Nevada (h = 5 km).			
"	28	Up	iP	03 47 35.3			"	28	Up	iP	09 53 21.6
		Um	iP	03 47 29.8					ipP	09 53 31.3	
		Ud	iP	03 47 09.9					i	09 54 25.8	
		North Atlantic Ocean							iPP	09 55 19.0	
		(h = N).							micr sec		
"	28	Up	iSg	07 04 56.4					Mx	E 3.2 17	
		Ki	eSg	07 08 25					Mx	N 2.9 18	
		Sk	eSg	07 07 14					Mx	Z 5.4 17	
		Um	e	07 06 03				Ki	iP	09 52 45.1	
			iSg	07 06 19.1					iPP	09 54 23.7	
		Ud	iSg	07 05 40.5					micr sec		
		Latvia, near Riga.							Mx	E 2.3 14	
		Origin time = 07 02 24.							Mx	N 1.8 16	
		Explosion?							Mx	Z 3.2 16	
"	28	Ki	iPg	07 28 29.9				Sk	iP	09 53 22.9	
			iSg	07 28 46.9					ipP	09 53 32.3	
		Sk	iSg	07 31 15.1					iPP	09 55 19.8	
		Um	iSg	07 30 03.8				Um	iP	09 52 58.1	
		Sweden-Finland border region,							ipP	09 53 06.9	
		67.3°N, 23.4°E.							Ud	iP	09 53 32.2
		Origin time = 07 28 04.							iPP	09 55 31.6	
								De	iP	09 53 57.4	
								Lake Baikal.			
								h = 40 km (Up,Sk,Um).			
								M = 5.4 (Up,Ki).			

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

1970					1970				
Mar.	28	Up	iP	22 10 30.1	Mar.	28	(cont.)		
		Um	iP	22 11 00.6			De	iP	23 16 14.7
		Ud	iP	22 10 40.6			Turkey (h = 35 km).		
		Turkey (h = 7 km).					M = 5.5 (Up,Ki).		
"	28	Up	iP	22 12 45.2	"	28	Up	iP	23 33 16.9
		Um	iP	22 13 13.2			Ki	iP	23 34 24.2
		Ud	iP	22 12 52.9			Sk	iP	23 34 02.3
		Turkey.					Um	iP	23 33 48.9
		Origin time = 22 07 48.						iPP	23 34 17.6
"	28	Up	eP	22 41 09			Ud	iP	23 33 30.5
		Um	iP	22 41 39.3				i	23 33 47.9
		Turkey.					De	iP	23 32 56.5
		Origin time = 22 36 14.					Turkey (h = 40 km).		
"	28	Up	iP	22 45 07.5	"	28	Sk	iP	23 36 39.4
		Ki	eP	22 46 15			Um	iP	23 36 25.7
		Um	iP	22 45 40.3			Ud	iP	23 36 04.2
		Ud	iP	22 45 20.8			Turkey.		
		De	iP	22 44 49.3			Origin time = 23 31 00.		
		Turkey (h = N).			"	28	Up	iP	23 48 53.1
"	28	Up	iP	22 54 39.3				iPP	23 49 20.8
		Um	iP	22 55 09.9					micr sec
		Turkey.					P	Z'	0.2 1.5
		Origin time = 22 49 45.					Mx	E	3.3 12
"	28	Up	iP	23 04 29.5			Mx	N	5.6 14
		Um	iP	23 05 02.8			Mx	Z	3.2 13
		Ud	iP	23 04 43.0			Ki	iP	23 50 00.3
		Turkey.							micr sec
		Origin time = 22 59 37.					Mx	E	4.9 13
"	28	Um	iP	23 06 57.2			Mx	N	2.1 15
		Ud	eP	23 06 34			Mx	Z	5.3 16
		Turkey.					Sk	iP	23 49 39.5
		Origin time = 23 01 30.					Um	iP	23 49 24.7
"	28	Up	iP	23 16 36.1				iPn	23 49 36.5
				micr sec			Ud	iP	23 49 07.3
		P	Z'	0.3 1.5			De	iP	23 48 33.2
		Mx	E	3.5 12			Turkey (h = 20 km).		
		Mx	N	6.8 17			M = 5.5 (Up,Ki).		
		Mx	Z	3.5 14	"	28	Up	iP	23 52 21.6
		Ki	iP	23 17 47.0				i	23 52 45.6
			iPn	23 18 10.4				i	23 53 15.6
				micr sec			Ki	iP	23 52 38.8
		Mx	E	5.1 13				i	23 53 18.6
		Mx	N	2.5 16			Um	iP	23 53 16.9
		Mx	Z	3.4 13			These are probably all		
		Sk	iP	23 17 20.9			P-phases of different shocks,		
		Um	iP	23 17 07.7 D	"	28	Ki	iP	23 54 44.4
			iPn	23 17 20.2			Um	eP	23 54 05
		Ud	iP	23 16 49.3			Turkey.		
		(cont.)					Origin time = 23 48 42.		

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

1970				1970					
Mar.	28	Ud	iP	23 54 13.3	Mar.	29	Up	iP	02 10 16.1
"	28	Up	iP	23 54 53.9				i	02 10 29.8
		Ki	iP	23 56 04.9					micr sec
		Sk	iP	23 55 40.7				Mx	E 0.6 11
		Turkey.						Mx	N 0.8 14
		Origin time = 23 50 03.						Mx	Z 1.1 14
"	28	Ki	iP	23 58 42.7			Ki	eP	02 11 27
"	29	Um	iP	00 48 57.1				iPP	02 12 19.2
			i	00 49 08.2					micr sec
"	29	Um	iP	00 53 30.7				Mx	E 0.7 12
"	29	Up	iP	01 08 44.6				Mx	N 0.3 9
		Um	eP	01 09 09			Sk	eP	02 11 02
		(Turkey).					Um	eP	02 10 48
"	29	Up	iP	01 18 24.3				i	02 10 50.6
		Um	iP	01 18 52.9	"	29	Um	iP	02 10 29.9
		Ud	eP	01 18 32				De	02 09 58.8
		Turkey.						Turkey (h = 20 km).	
		Origin time = 01 13 28.						M = 4.6 (Up,Ki).	
"	29	Um	iP	01 24 51.2	"	29	Um	iP	02 16 00.1
		Ud	iP	01 24 32.9				i	02 16 10.2
		Turkey.			"	29	Up	iP	02 30 21.0 C
		Origin time = 01 19 26.							micr sec
"	29	Um	eP	01 27 37				P	Z' 0.1 0.6
"	29	Um	iP	01 34 07.5			Ki	iP	02 30 03.5 C
		Ud	iP	01 33 43.7					micr sec
		Turkey.						P	Z' 0.1 1.2
		Origin time = 01 28 40.					Sk	iP	02 30 26.4
"	29	Up	eP	01 33 46			Um	iP	02 30 09.1 C
		Sk	iP	01 34 32.5			Ud	iP	02 30 29.7 C
		Um	iP	01 34 20.3			De	iP	02 30 36.7 C
		Ud	iP	01 34 01.7			Mindoro (h = 120 km).		
		Turkey (h = N).					m = 5.7 (Up,Ki).		
"	29	Up	eP	01 33 46	"	29	Ki	i(P)	02 33 39.0
		Sk	iP	01 34 32.5			Ud	eP	02 33 45
		Um	iP	01 34 20.3	"	29	Up	iP	02 45 29.5
		Ud	iP	01 34 01.7					micr sec
		Turkey (h = N).						Mx	N 0.8 16
"	29	Up	iP	01 52 09.9			Sk	eP	02 46 15
		Ki	eP	01 53 18			Um	iP	02 46 02.6
		Um	iP	01 52 44.3			Ud	eP	02 45 41
		Ud	eP	01 52 22			De	eP	02 45 09
		Turkey.					Turkey (h = N).		
		Origin time = 01 47 17.		"	29	Up	iP	02 50 41.2	
"	29	Up	iP	01 56 32.7			Um	iP	02 51 14.4
			i	01 56 38.8			Ud	iP	02 50 54.7
		Um	iP	01 56 52.1			De	iP	02 50 21.1
		Ud	iP	01 56 35.4			Turkey (h = N).		
			i	01 57 11.7	"	29	Up	iP	02 59 47.5
							(cont.)		

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

1970				1970				
Mar.	29	(cont.)		Mar.	29	Up	iP	07 01 17.9
		Ki	micr sec				i	07 01 22.0
		Mx	E 0.5 15				i	07 01 30.8
		Sk	iP 03 00 31.3					micr sec
		Um	iP 03 00 16.9				P	Z' 0.1 0.7
		Ud	iP 02 59 59.8				Mx	E 4.2 12
		De	iP 02 59 27.1 C				Mx	N 6.2 12
		Turkey (h = 25 km).					Mx	Z 4.8 12
"	29	Up	iP 03 15 38.5			Ki	iP	07 02 25.2
		Ki	eP 03 16 45				i	07 02 30.3
		Um	iP 03 16 11.0					micr sec
		Ud	iP 03 15 52.0				P	Z' 0.1 1.0
		Turkey (h = N).					Mx	E 5.7 13
"	29	Up	iP 03 39 42.4				Mx	N 1.6 12
		Um	eP 03 40 10				Mx	Z 3.6 15
		Turkey.				Sk	iP	07 02 02.5
		Origin time = 03 34 46.				Um	iP	07 01 49.8
"	29	Up	iP 03 56 27.1			Ud	eP	07 01 30 C
			micr sec				i	07 01 40.0
		Mx	E 1.2 13			De	iP	07 00 56.3
		Mx	N 1.7 17				i	07 01 00.6
		Mx	Z 2.0 13			Turkey (h = 15 km).		
		Ki	iP 03 56 27.4 C	"	29	Up	iP	07 15 36.2 C
			micr sec			Ki	iP	07 14 50.8
		Mx	E 1.7 13			Um	iP	07 15 11.3
		Mx	N 2.2 13			Ud	iP	07 15 41.7 C
		Mx	Z 1.8 12			De	i(P)	07 16 09.2
		Sk	iP 03 56 49.6			Kurile Islands.		
		Um	iP 03 56 20.8 C	"	29	Up	iP	08 03 24.1
			i 03 56 28.1			Sk	eP	08 04 09
		Ud	iP 03 56 43.5 C			Um	iP	08 03 58.0
		De	iP 03 56 43.5 C			Ud	iP	08 03 36.8
		Sinkiang, China (h = N).				Turkey (h = 10 km).		
		M = 5.3 (Up,Ki).		"	29	Um	iP	09 02 15.1
"	29	Up	iP 04 00 30.2				i	09 02 23.6
		Um	iP 04 01 02.3	"	29	Up	iP	09 05 30.8
		Ud	iP 04 00 43.6			Ki	eP	09 06 34
		De	iP 04 00 11.4			Um	iP	09 05 59.1
		Turkey.					iPn	09 06 10.8
		Origin time = 03 55 37.				Ud	iP	09 05 43.9
"	29	Up	iP 05 10 47.3			Turkey.		
		Um	e(P) 05 11 08			Origin time = 09 00 36.		
			iP 05 11 14.8	"	29	Up	i(P)	09 25 21.9
		Ud	iP 05 10 59.3				i	09 25 36.1
		Turkey.				Ud	iP	09 25 18.9
		Origin time = 05 05 52.					i	09 25 31.4
"	29	Up	eP 05 19 39	"	29	Ki	iP	09 30 17.8
		Um	iP 05 20 09.6			Um	iP	09 29 40.7
		Ud	iP 05 19 50.4				i	09 29 59.7
		Turkey.				(cont.)		
		Origin time = 05 14 44.						

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

1970				1970				
Mar.	29	(cont.)		Mar.	29	Up	iLgl	11 49 25.1
		Ud	eP 09 29 23				iSg	11 49 33.4
		Turkey.				Ki	iPn	11 45 16.2
		Origin time = 09 24 16.					iSn	11 46 13.9
"	29	Um	iP 09 37 02.1 C				iSg	11 46 37.8
		Ud	iP 09 36 46.5			Sk	iLgl	11 48 59.7
		Turkey.				Um	eSn	11 46 54
		Origin time = 09 31 38.					iSg	11 47 28.2
"	29	Up	iP 09 45 08.1			Ud	iLgl	11 49 49.5
			i 09 45 15.0			Northwest Russia, 67.6°N, 33.1°E.		
			i 09 45 24.2			Origin time = 11 44 00.		
		Ki	eP 09 46 17			Explosion?		
		Um	iP 09 45 44.7	"	29	Up	iP	12 13 37.5
		Ud	eP 09 45 23			Ki	iP	12 13 27.6 C
		Turkey.				Um	iP	12 13 29.6
		Origin time = 09 40 17.				Ud	iP	12 13 46.8
"	29	Up	iP 09 57 08.9			Flores Sea (h = 480 km).		
		Ki	iP 09 58 15.0	"	29	Up	iP	13 14 51.9
		Um	iP 09 57 40.2			Um	iP	13 14 17.4
		Ud	iP 09 57 18.4			Ud	i(P)	13 14 57.0
		Turkey (h = 25 km).		"	29	Ud	iP	13 32 19.9
"	29	Up	e(PKP) 10 26 51	"	29	Ki	iP	14 12 53.3
			iPKP 10 27 07.7			Um	iP	14 12 45.7
			iSKP 10 30 12.7			Ud	iP	14 13 06.1
			i(SKSP) 10 39 18.9			Tadzhik SSR.		
			micr sec	"	29	Up	iP	14 42 07.6
		PKP	Z' 0.1 0.6					micr sec
		SKP	Z' 1.1 0.8			Mx	E	2.0 18
		Mx	E 1.5 20			Mx	N	1.2 12
		Mx	N 2.3 22			Mx	Z	1.1 14
		Mx	Z 2.2 22			Ki	iP	14 43 17.6
		Ki	iPKP 10 26 53.5 C					micr sec
			iSKP 10 29 49.1			Mx	E	1.1 13
			micr sec			Mx	N	0.6 12
		PKP	Z' 0.3 0.8			Mx	Z	1.0 16
		SKP	Z' 0.1 1.3			Sk	iP	14 42 52.6
		Mx	E 2.2 20			Um	iP	14 42 43.3 C
		Mx	N 1.3 20			Ud	iP	14 42 21.6
		Mx	Z 2.8 21				i	14 42 24.3
		Sk	iPKP 10 27 04.1 C			Turkey (h = 25 km).		
			iSKP 10 30 07.3			M = 4.8 (Up,Ki).		
		Um	e(PKP) 10 26 47	"	29	Up	iP	14 45 22.1
			iPKP 10 26 59.6				i	14 45 28.9
			iSKP 10 29 58.5			Ki	iP	14 46 26.5
		Ud	i(PKP) 10 26 54.5			Um	iP	14 45 52.1
			iPKP 10 27 08.6			Ud	iP	14 45 32.8
			iSKP 10 30 16.1			Turkey.		
		De	i(PKP) 10 27 03.3			Origin time = 14 40 27.		
			iPKP 10 27 15.0					
			iSKP 10 30 25.7					
		New Hebrides Islands						
		(h = 230 km).						
		M = 6.0 (Up,Ki).						

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

1970				1970				
Mar.	29	Up	iP	15 26 03.4	Mar.	29	(cont.)	
		Ki	iP	15 25 44.0			Ki iP	19 42 04.5
		Um	iP	15 25 48.9				micr sec
		China.					Mx E	2.0 19
							Mx N	1.3 20
"	29	Ki	iP	16 29 10.0			Mx Z	4.1 18
		Sk	iP	16 29 11.1			Sk iP	19 42 34.9
		Um	iP	16 28 59.9			Um eP	19 42 17
							Ud iP	19 42 44.6
"	29	Up	iPKP	17 27 37.4			De iP	19 42 58.2
		Sk	iPKP	17 27 29.2			Ryukyu Islands (h = 25 km).	
		Um	ePKP	17 27 26			M = 5.6 (Up,Ki).	
		Ud	iPKP	17 27 38.9				
		De	iPKP	17 27 48.2	"	29	Up iP	21 54 06.2
		Kermadec Islands (h = 70 km).					Um iP	21 54 39.1
							Ud eP	21 54 19
"	29	Up	iP	17 34 04.2			Turkey. Origin time = 21 49 13.	
		Ki	iP	17 33 34.8				
		Sk	eP	17 34 04	"	29	Up iP	22 15 40.6
		Um	i	17 33 59.6				micr sec
		Ud	iP	17 34 13.0			Mx N	1.4 22
		Ryukyu Islands (h = N).					Ki iP	22 15 21.4 C
								micr sec
"	29	Up	iP	18 11 16.1			P Z'	0.2 1.8
		Ki	iP	18 12 34.6			Sk iP	22 15 46.7
		Sk	eP	18 11 56			Um iP	22 15 27.6
		Um	iP	18 11 59.1			Ud iP	22 15 46.8
		Ud	eP	18 11 22			Taland Islands (h = 100 km).	
			i	18 11 31.4				
		Ionian Sea (h = 40 km).			"	30	Up iP	00 20 38.0
"	29	Up	iP	19 16 35.4			Sk iP	00 21 23.1
				micr sec			Um eP	00 21 07
		P	Z'	0.1 1.1			i	00 21 10.3
		Mx	E	1.0 11			Ud eP	00 20 50
		Mx	N	0.7 12			Turkey.	
		Mx	Z	1.1 12			Origin time = 00 15 44.	
		Ki	iP	19 17 44.8	"	30	Um iP	01 29 05.1
				micr sec			Ud eP	01 28 45
		P	Z'	0.1 1.3			Turkey.	
		Mx	E	1.0 13			Origin time = 01 23 39.	
		Mx	N	0.6 11				
		Mx	Z	1.1 13	"	30	Up iP	01 29 09.8
		Sk	iP	19 17 21.0			Ki iP	01 30 16.7
		Um	iP	19 17 07.3			Sk iP	01 29 56.1
		Ud	eP	19 16 47			Um iP	01 29 42.8
		De	iP	19 16 18.3			Ud iP	01 29 23.2 C
		Turkey (h = 6 km).					De iP	01 28 50.4
		m = 5.4, M = 4.7 (Up,Ki).					Turkey.	
"	29	Up	iP	19 42 35.9			Origin time = 01 24 17.	
				micr sec				
		Mx	E	1.7 15	"	30	Up iP	02 27 25.2
		Mx	N	1.3 13			Um iP	02 27 57.1
		Mx	Z	1.4 15			Ud iP	02 27 40.8
		(cont.)					Turkey.	
							Origin time = 02 22 32.	

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

1970				1970					
Mar.	30	Ud	iP	03 35 19.8	Mar.	30	Up	iP	07 02 45.9
"	30	Up	iP	04 45 23.0			Um	iP	07 03 16.6
		Um	iP	04 45 06.6			Ud	iP	07 02 53.6
									Turkey.
									Origin time = 06 57 50.
"	30	Up	iP	04 54 14.0	"	30	Up	iP	08 04 42.8
		Ki	iP	04 53 58.1			i		08 04 46.3
		Sk	iP	04 54 22.2					micr sec
		Um	iP	04 54 05.1			P	Z'	0.2 1.0
		Ud	iP	04 54 22.6			Mx	E	4.2 11
		ipP		04 54 45.6			Mx	N	5.4 13
							Mx	Z	3.9 14
							Ki	iP	08 05 51.4 C
									micr sec
							P	Z'	0.2 1.4
"	30	Sk	eP	05 08 21			Mx	E	5.2 12
		Um	iP	05 07 59.0			Mx	N	2.6 13
"	30	Up	iP	05 11 20.2			Mx	Z	4.3 13
		Um	iP	05 11 47.0			Sk	iP	08 05 29.1 C
		Ud	eP	05 11 23			Um	iP	08 05 15.6
"	30	Um	iPP	05 43 10.7			iS		08 09 42
				Chile-Bolivia (h = 120 km).			Ud	iP	08 04 55.8
"	30	Up	iP	06 12 06.6			De	iP	08 04 22.4
		Um	iP	06 12 11.6					Turkey (h = 15 km).
"	30	Up	iP	06 51 17.6					m = 5.7, M = 5.5 (Up,Ki).
		i		06 51 29.0	"	30	Up	iP	08 13 57.3
		i(PP)		06 51 37.8			Ud	eP	08 14 06
		Ki	iP	06 52 28.0 C					Turkey.
		Sk	iP	06 52 02.2	"	30	Up	iP	08 33 56.0 C
		Um	iP	06 51 50.7			Ki	iP	08 33 11.6
		Ud	iP	06 51 32.2			Um	iP	08 33 31.7
		De	iP	06 50 57.2			Ud	iP	08 34 02.5 C
				Turkey (h = 25 km).			De	iP	08 34 22.2
"	30	Up	iP	06 53 54.7 C					Japan (h = 60 km).
		i(PP)		06 54 15.0	"	30	Up	iP	08 40 07.7
				micr sec			i(PP)		08 40 28.1
		Mx	E	1.0 11			Ki	iP	08 41 15.9
		Mx	N	0.9 12			iPn		08 41 42.4
		Mx	Z	1.6 13			Sk	iP	08 40 56.0 C
		Ki	iP	06 55 01.9			Um	iP	08 40 39.9
		iPn		06 55 27.4			i		08 40 45.3
				micr sec			Ud	iP	08 40 21.0
		Mx	E	1.3 16			De	iP	08 39 48.3
		Mx	N	0.4 9					Turkey (h = 25 km).
		Mx	Z	0.8 12	"	30	Up	eP	09 31 12
		Sk	iP	06 54 38.6 C			Sk	eP	09 31 54
		Um	iP	06 54 27.3			Um	iP	09 31 40.3
		Ud	iP	06 54 04.6			iPn		09 31 54.1
		i		06 54 07.6					Turkey (h = 20 km).
		De	iP	06 53 34.0					
				Turkey (h = N).					
				M = 4.7 (Up,Ki).					

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

1970				1970			
Mar.	30	Up	iP	10	11	19.6	
		Um	iP	10	11	51.6	
		Turkey.					
		Origin time = 10 06 26.					
"	30	Up	iP	11	32	47.5	
			i	11	32	53.8	
		Um	iP	11	33	22.2	C
			iPn	11	33	34.7	
		Ud	iP	11	33	02.2	
		De	iP	11	32	31.6	
		Turkey (h = N).					
"	30	Um	iP	13	08	35.5	
"	30	Up	iP	13	29	18.5	
		Ud	iP	13	29	28.8	
		Turkey,					
		Origin time = 13 24 24.					
"	30	Up	iP	13	52	55.3	
		Sk	eP	13	53	43	
		Um	iP	13	53	28.5	C
		Ud	eP	13	53	09	
		De	eP	13	52	40	
		Turkey (h = N).					
"	30	Up	iPn	14	07	06.2	
			iSg	14	08	19.8	
		Ki	iSg	14	11	49.6	
		Um	iSg	14	09	41.3	
		Ud	eSn	14	08	42	
			iSg	14	09	13.7	
		De	iPg	14	07	39.4	
			iSg	14	08	53.0	
		Latvia, near Riga.					
		Origin time = 14 05 50.					
		Explosion?					
"	30	Up	iP	16	21	59.3	
"	30	Um	iP	16	26	56.1	
		Hindu Kush.					
"	30	Up	iP	16	37	29.1	D
			i	16	37	33.2	
							micr sec
		P		Z'	0.1	1.0	
		Mx		E	5.0	19	
		Mx		N	5.9	22	
		Mx		Z	4.8	21	
		Ki	iP	16	38	36.4	
			iPn	16	39	02.2	
							micr sec
		Mx		E	5.0	16	
		Mx		N	3.5	15	
		Mx		Z	5.7	16	
		(cont.)					
Mar.	30	(cont.)					
		Sk	iP	16	38	14.2	
		Um	iP	16	38	02.9	
		Ud	iP	16	37	43.1	
			i	16	37	46.9	
		De	iP	16	37	09.3	
			i	16	37	12.6	
		Turkey (h = 10 km).					
		M = 5.3 (Up,Ki).					
		In this series of shocks,					
		some clear Pn have been					
		recorded, but only at Ki and					
		Um, these two stations having					
		the most homogeneous paths					
		among our stations. The					
		greater distances to these					
		stations also permit a clear					
		separation of Pn from P.					
"	30	Up	iP	16	59	54.5	
			i	16	59	56.5	
			ipP	17	00	08.8	
			iPKKP	17	17	04.5	
							micr sec
		P		Z'	0.6	0.9	
		Mx		E	40	28	
		Mx		N	44	26	
		Mx		Z	63	30	
		Ki	iP	16	59	35.3	
			i	16	59	39.8	
			iSKS	17	10	00	
			e(PKKP)	17	17	04	
							micr sec
		P		Z'	1.0	0.8	
		Mx		E	28	20	
		Mx		N	17	22	
		Mx		Z	43	24	
		Sk	iP	16	59	56.6	
			i	16	59	59.0	
			iPKKP	17	16	57.6	
		Um	iP	16	59	41.8	
			i	16	59	44.8	
			ipP	16	59	56.4	
			iPKKP	17	17	14.7	
		Ud	iP	17	00	01.0	C
			i	17	00	04.9	
			iPKKP	17	16	54.8	
		De	iP	17	00	09.6	
			i	17	00	18.1	
		Mindanao.					
		h = 55 km (Up,Um).					
		m = 7.1, M = 6.9 (Up,Ki).					
		Double P.					
"	30	Ki	iP	17	07	50.8	
		Um	iP	17	08	02.5	
		(cont.)					

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

1970				1970				
Mar.	30	(cont.)		Mar.	31	Up	iP	00 23 19.5
		Ud	iP			Ki	iP	00 22 55.0
		Mindanao (h = 120 km).				Sk	iP	00 23 22.6
"	30	Up	iP			Um	iP	00 23 03.5 C
		Sk	eP			Ud	iP	00 23 28.7 C
		Um	iP			De	iP	00 23 38.3
		Turkey.				Ryukyu Islands (h = 70 km).		
		Origin time = 19 59 52.		"	31	Up	iP	00 56 28.2
"	30	Up	iP			Ki	eP	00 57 36
		Ki	iP				iPn	00 58 00.0
		Um	iP					micr sec
		Ud	iP				Mx	E 0.8 14
		Japan (h = 55 km).				Sk	eP	00 57 14
"	30	Up	eP			Um	iP	00 57 01.3
		Ki				Ud	iP	00 56 41.6 C
							i	00 56 56.7
						De	iP	00 56 11.9
						Turkey (h = 15 km).		
				"	31	Um	iP	01 02 34.2
				"	31	Up	iP	01 12 44.6 C
						Ki		micr sec
							Mx	E 0.5 13
							Mx	N 0.4 12
							Mx	Z 0.6 12
						Um	iP	01 13 17.3
						Ud	iP	01 12 53.3
						De	eP	01 12 23
						Turkey (h = N).		
"	30	Up	iPKP			Up	iP	03 51 44.2
		Ki	iPKP					micr sec
							Mx	E 1.2 13
							Mx	N 1.3 13
						Ki	iP	03 52 51.4
								micr sec
							Mx	E 1.7 14
							Mx	N 0.8 14
							Mx	Z 1.3 14
						Sk	iP	03 52 30.2
						Um	iP	03 52 16.8
						Ud	iP	03 51 58.0
						De	eP	03 51 25
							i	03 51 28.9
						Turkey (h = 15 km).		
						M = 4.8 (Up,Ki).		
"	30	Um	iP			Sk	iP	03 57 27.3
		Ud	iP			Um	eP	03 57 14
		Turkey.					i	03 57 30.6
		Origin time = 21 42 34.		"	31	Turkey.		
"	30	Um	iP			Ud	iP	03 57 33.2
		Ud	iP					
		De	iP					
		Turkey.		"	31	Ki	i(P)	03 59 06.1
		Origin time = 21 43 09.				Um	iP	03 59 02.5

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

1970				1970					
Mar.	31	Up	eP	04 15 04	Mar.	31	Up	iPKP	15 45 27.5
		Ki		micr sec			Ki	iPKP	15 45 20.3
			Mx	E 0.7 12			Um	i(PKP)	15 45 19.4
		Sk	eP	04 15 48				iPKP	15 45 26.4
		Um	iP	04 15 35.4 C				iSKP	15 48 09.0
		Ud	iP	04 15 12.9			Ud	iPKP	15 45 28.2 C
		De	iP	04 14 41.6			De	iPKP	15 45 39.4
		Turkey (h = N).					Fiji Islands (h = 550 km).		
"	31	Um	iP	04 51 27.1	"	31	Up	i(P)	16 13 29.6
		Turkey.					Um	iP	16 13 50.2
							Ud	iP	16 13 28.0
"	31	Up	eP	05 45 43			Turkey.		
		Um	eP	05 46 13			Origin time = 16 08 23.		
		De	iP	05 45 21.1					
		Turkey.			"	31	Sk	iP	18 12 32.0
		Origin time = 05 40 47.					Um	iP	18 11 44.1
"	31	Up	iP	05 53 03.1	"	31	Up	iP	18 30 05.7
		Ud	iP	05 53 03.2				micr sec	
		Aleutian Islands (h = 40 km).					P	Z' 0.1 0.7	
"	31	Um	eP	07 35 54			Mx	E 0.8 17	
"	31	Up	iP	08 35 40.5			Mx	N 1.5 19	
		Sk	iP	08 36 31.3			Ki	iP	18 30 28.6 D
		Um	iP	08 36 16.2				micr sec	
		Ud	eP	08 35 54			P	Z' 0.1 1.0	
			iPP	08 36 24.5			Mx	E 2.0 19	
		De	eP	08 35 24			Mx	N 1.5 19	
		Turkey (h = 15 km).					Mx	Z 2.5 18	
"	31	Up	iP	09 03 44.6			Sk	iP	18 30 29.6 D
		Ki	iP	09 03 47.3			Um	iP	18 30 13.9
		Sk	iP	09 03 33.1				iS	18 40 00
		Um	iP	09 03 48.7			Ud	iP	18 30 16.8 D
		Ud	iP	09 03 35.5 C			Chagos Islands (h = N).		
		De	iP	09 03 37.1 C			m = 5.9, M = 5.6 (Up,Ki).		
		Peru (h = 70 km).			"	31	Um	iP	21 02 12.0
"	31	Up	iP	12 02 56.8				i	21 02 16.9
		Sk	eP	12 03 39	"	31	Up	iP	21 25 30.4
		Um	iP	12 03 25.3			Um	iP	21 25 59.5
		Ud	iP	12 03 06.9			Ud	iP	21 25 40.9
		De	iP	12 02 33.4			Turkey (h = N).		
		Turkey (h = 25 km).							
"	31	Up	iP	13 09 23.2			Markus Båth		
		Ki	eP	13 08 31			February 19, 1971		
		Ud	iP	13 09 22.6					
		De	eP	13 09 47					
		Aleutian Islands (h = 80 km).							
"	31	Um	iP	14 06 48.9					
		Ud	iP	14 07 09.3					

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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

A P R I L 1 - 30, 1970
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1970					1970				
Apr.	1	Um	iP	03 03 24.6	Apr.	1	(cont.)		
"	1	Up	iP	03 31 03.3			Northwest Russia,		
		Ki	iP	03 30 09.5			67.4°N, 33.3°E.		
		Um	iP	03 30 37.7 C			Origin time = 11 49 14.		
				Alaska (h = N).			Explosion?		
"	1	Up	iPKP	05 44 33.0	"	1	Up	iP	14 34 32.6 C
		Ki	iPKP	05 44 16.9			i		14 34 36.8
		Sk	iPKP	05 44 26.8 C					micr sec
		Um	iPKP	05 44 22.0 C			P	Z'	0.3 1.0
			i	05 44 27.1			Mx	E	0.9 16
		Ud	iPKP	05 44 34.9 C			Mx	N	1.2 20
				Kermadec Islands (h = 7 km).			Mx	Z	1.6 20
							Ki	iP	14 33 51.3 C
"	1	Up	iP	07 54 29.7			i		14 33 55.4
		Um	i(P)	07 54 12.9					micr sec
"	1	Up	iSg	10 14 14.5			P	Z'	0.3 1.0
		Ki	iSg	10 16 49.4			Mx	E	2.3 22
		Sk	eSg	10 16 08			Mx	N	1.1 16
		Um	iSg	10 14 47.4			Mx	Z	1.8 15
		Ud	iSg	10 15 24.6			Sk	iP	14 34 25.4 C
				Esthonia,			i		14 34 29.9
				59.7°N, 25.6°E.			Um	iP	14 34 09.5 C
				Origin time = 10 12 05.			i		14 34 13.5
				Explosion?			Ud	iP	14 34 39.3 C
							i		14 34 44.3
"	1	Ki	iPn	11 50 29.9			De	iP	14 34 55.2 C
			iSn	11 51 28.8					Japan (h = 80 km).
			i(Lgl)	11 51 52.0					m = 6.5, M = 5.3 (Up,Ki).
		Sk	i(Lgl)	11 54 17.0					Double P, the first of slightly
			iSg	11 54 24.8					longer period than the second
		Um	iSn	11 52 07.0					on the Z'-records.
			iSg	11 52 42.4	"	1	Up	iP	15 21 53.4
		Ud	i(Lgl)	11 55 17.1	"	1	Up	iP	16 00 52.9
				(cont.)					(cont.)

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

1970					1970				
Apr.	1	(cont.)			Apr.	2	Up	iP	04 48 31.0
		Up		micr sec			Um	iP	04 48 27.0
		Mx	E	0.9 10			Ud	iP	04 48 40.2
		Mx	N	0.8 13	"	2	Ki		
		Mx	Z	1.1 12				micr sec	
		Ki	iP	16 02 01.9			Mx	E	0.8 17
				micr sec			Mx	N	0.7 20
		Mx	E	1.4 17			Mx	Z	1.6 20
		Mx	N	0.5 13			Um	ePKP	11 31 00
		Sk	eP	16 01 40			Ud	iPKP	11 31 04.9
		iPP		16 02 12.8			Tonga Islands (h = N).		
		Um	iP	16 01 26.2	"	2	Um	iP	13 10 45.5
		Ud	iP	16 01 07.8			Ud	iP	13 10 23.8
		De	iP	16 00 33.5			Turkey (h = N).		
		Turkey (h = 15 km).							
		M = 4.6 (Up,Ki).			"	2	Up	i(P)	15 14 42.4
"	1	Um	iP	18 00 40.1			Ki	i(P)	15 14 26.1
		Ud	iP	18 00 20.6			Um	iP	15 14 39.3
		Turkey (h = 25 km).					Ud	iP	15 14 23.2
"	1	Up	iP	20 10 42.5	"	2	Sk	eP	16 05 42
		Um	iP	20 10 00.5			Ud	iP	16 05 29.4
"	1	Up	iP	20 58 41.0	"	2	Ud	iP	16 14 45.3
		Um	iP	20 58 31.5	"	2	Up	iP	20 40 02.6
		Ud	i(P)	20 58 08.8				micr sec	
"	1	Ud	iP	23 13 26.8			Mx	E	0.9 12
"	1	Ud	iP	23 30 10.6 C			Mx	N	0.6 13
"	2	Up	iP	00 01 47.1			Mx	Z	1.2 18
		Ki	iP	00 02 19.3			Ki	eP	20 41 09
		Sk	iP	00 02 20.5				micr sec	
		Um	iP	00 01 58.1			Mx	E	1.0 14
		Ud	iP	00 02 02.0			Mx	N	0.6 15
		De	iP	00 01 48.1 C			Mx	Z	0.9 15
		Iran (h = 60 km).					Sk	iP	20 40 48.3
"	2	Up	iP	00 33 24.9			Um	iP	20 40 34.7
		Um	iP	00 33 57.4			Ud	iP	20 40 16.2 C
		Ud	iP	00 33 37.7			De	iP	20 39 41.8
		De	iP	00 33 05.6			Turkey (h = 25 km).		
		i		00 33 09.6			M = 4.6 (Up,Ki).		
		Turkey (h = 30 km).			"	2	Up	iP	20 51 09.8
"	2	Sk	iP	01 17 52.9			Ki	iP	20 50 55.4
"	2	Up	iP	02 50 38.6			Sk	iP	20 51 07.1
		Um	iP	02 51 18.5			Um	iP	20 51 02.1
		i		02 51 35.0			Ud	iP	20 51 12.2
		Ud	iP	02 50 59.5			These phases may be PKP instead of P.		
		i		02 51 15.9	"	2	Up	iP	21 31 11.6
		Turkey.					Ki	iP	21 32 25.4
							Sk	iP	21 31 45.7
							(cont.)		

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

1970				1970			
Apr.		(cont.)		Apr.		(cont.)	
	2	Um iP	21 31 51.4		3	De eP	12 23 42
		i	21 31 59.9			Turkey.	
		Ud iP	21 31 12.6 C			Origin time = 12 19 05.	
		De iP	21 30 36.7				
"	3	Um eP	00 01 45	"	3	Ki iP	12 36 16.7 C
"	3	Up	micr sec	"	3	Ki iSn	13 30 45.6
		Mx E	1.0 18			iLgl	13 31 04.9
		Mx N	0.9 17			Sk iLgl	13 33 34.4
		Mx Z	1.4 18			Um iSg	13 31 59.1
		Ki ePKP	07 11 43			Ud iLgl	13 34 34.3
		iPKKP	07 21 36.6			Northwest Russia,	
			micr sec			67.4°N, 33.3°E.	
		Mx E	1.3 16			Origin time = 13 28 31.	
		Mx N	0.6 17			Explosion?	
		Mx Z	1.5 18	"	3	Up iP	14 09 57.3
		Um i(PKP)	07 11 56.8				micr sec
		Ud iPKP	07 11 52.5			P	Z' 0.1 0.9
		De iPKP	07 12 01.7			Ki iP	14 09 04.8
		Tonga Islands (h = 40 km).				Sk eP	14 09 36
		M = 5.7 (Up,Ki).				Um iP	14 09 30.6
"	3	Um iP	07 34 39.5			Ud iP	14 09 56.8
		Ud iP	07 35 11.2			De iP	14 10 12.9
		Mongolia (h = N).				i	14 10 16.6
"	3	Up iP	08 37 27.7			Aleutian Islands (h = 60 km).	
		Ki iP	08 37 10.2	"	3	Ud i(Sg)	14 30 30.6
		Sk iP	08 37 27.8			De i(Sg)	14 30 37.0
		Um iP	08 37 15.6			i(Rg)	14 30 49.1
		iPP	08 41 00.4	"	3	Up iP	15 43 14.9
		Ud iP	08 37 35.5 C			Ud iP	15 43 22.0
		i	08 37 39.3			Greece.	
		e(PP)	08 41 18	"	3	Ud iPg	15 57 30.9
		De eP	08 37 38			iSg	15 58 04.9
		i	08 37 44.9			De iPg	15 57 27.3
		ePP	08 41 45			iSg	15 57 52.7
		Talaud Islands (h = 70 km).				Probably off west coast of	
"	3	Um iP	08 49 12.5			Sweden.	
		i	08 49 19.8			Origin time = 15 56 43.	
		Ud iP	08 48 46.4	"	3	Up iP	17 27 42.6
"	3	Sk iP	12 22 25.5			Um iP	17 27 25.5
		Um iP	12 22 15.3			Ud iP	17 27 51.7
		Ud iP	12 22 00.4			i	17 28 02.1
		De iP	12 21 25.1			Ryukyu Islands (h = 20 km).	
		Turkey.		"	3	Ud iPg	17 35 03.0
"	3	Um iP	12 24 28.6			iSg	17 35 25.5
		i	12 24 30.1			iRg	17 35 33.6
		Ud iP	12 24 09.5			De iSg	17 36 08.5
		(cont.)				iRg	17 36 21.7
						(cont.)	

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

1970				1970					
Apr.	3	(cont.) Oslo Fjord, 59.1°N, 10.7°E. Origin time = 17 34 30. Solution obtained by combination with Kongsberg readings.		Apr.	4	Um	iP	07 23	46.9
"	"			"	4	Up	iPP	11 06	07.5
							Mx	E	0.7 18
							Mx	N	1.3 16
						Ki	iP	11 05	26.8
							iSn	11 13	35.0
								micr	sec
"	3	Up	iP				Mx	E	1.5 18
		Ki	iP				Mx	N	1.3 17
		Um	iP				Mx	Z	1.0 16
		Ud	iP			Sk	iP	11 05	38.6
		De	iP				iPP	11 06	55.9
		Volcano Islands (h = 150 km).					i	11 13	23.7
"	3	Up	iP				i(Sn)	11 14	45.8
		i				Um	iP	11 05	07.0
		i					i	11 05	12.6
		iPn					iPn	11 06	10.1
		i				Ud	iP	11 05	20.2 C
		iSn					iPP	11 06	49.3
							i(Sn)	11 14	00.5
		Mx	E	0.7	15				
		Mx	N	1.0	19				
		Mx	Z	0.9	15				
		Ki	iP	21 00	54.8	"	4	Um	iP
		i		21 01	01.4				12 09 43.2
		iPn		21 02	00.8				12 12 13.0
				micr	sec	"	4	Um	iP
		Mx	E	0.9	12				13 03 11.4
		Mx	N	0.8	12				13 03 22.0
		Mx	Z	1.0	12		Ud	i(P)	13 04 31.7
		Sk	eP	21 00	58	"	4	Up	iP
		i		21 01	05.2				13 11 17.1
		iPn		21 02	10.8			Ki	iP
		Um	iP	21 00	33.0				13 11 19.8
		i		21 00	39.3			ipP	13 11 28.1
		Ud	iP	21 00	41.3			Sk	iP
		i		21 00	49.0				13 11 32.9
		De	iP	21 00	31.0			Um	iP
		i		21 00	37.0				13 11 15.0
		Iran-USSR (h = 45 km).						ipP	13 11 24.1
		M = 4.7 (Up,Ki).						Ud	iP
		Double P, small and large, in average 7.0 sec apart. Clear Pn and Sn arrivals.							13 11 28.2 C
								ipP	13 11 36.8
"	3	Um	iP	22 42	20.0			Sumatra.	
"	3	Um	iP	23 25	08.9			h = 30 km (Ki,Um,Ud).	
		Ud	iP	23 24	48.8	"	4	Ki	iP
		Turkey (h = 15 km).							13 32 43.8
"	4	Um	iP	07 21	42.3			Banda Sea (h = 510 km).	
		i		07 21	45.8	"	4	Up	i(PKP)
		Ud	iP	07 21	26.2				23 05 19.8
								ipPKP	23 05 26.1
								Ki	ipPKP
									23 05 10.5 C
								Sk	ipPKP
									23 05 21.1 C
								Um	i(PKP)
									23 05 10.9
									ipPKP
									23 05 17.4
									iSKP
									23 08 07.5
								Ud	i(PKP)
									23 05 19.8
									ipPKP
									23 05 27.6

(cont.)

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

1970				1970				
Apr.	4	(cont.)		Apr.	5	Ki	iPn	15 39 45.5
		De	i(PKP) 23 05 24.9				iSn	15 40 32.2
			iPKP 23 05 32.6				iSg	15 40 47.7
			Fiji Islands (h = 390 km).			Um	eSg	15 42 11
							i	15 42 20.0
"	4	Up	iP 23 28 47.2 C					Probably northwest Russia.
		Ud	iP 23 28 49.8 C					Origin time = 15 38 45.
								Explosion?
"	5	Um	iP 04 36 18.1	"	5	Up	i(P)	21 59 21.4
			Japan (h = 70 km).			Um	iP	22 00 33.5
"	5	Up	iP 05 01 03.8	"	6	Up	iP	01 06 55.3 C
		Ki	iP 05 02 13.0				i	01 07 00.3
		Sk	eP 05 01 45					micr sec
		Um	iP 05 01 42.6				P	Z' 0.3 1.0
			i 05 02 09.0			Ki	iP	01 06 38.1 C
		Ud	iP 05 01 12.3					micr sec
		De	iP 05 00 39.9				P	Z' 0.2 1.0
			i 05 01 24.6				Mx	E 1.1 17
			Crete (h = 55 km).				Mx	N 0.5 20
"	5	Up	iP 05 52 20.1				Mx	Z 2.0 22
		Um	iP 05 52 55.5			Sk	iP	01 07 00.5 C
		Ud	iP 05 52 33.9			Um	iP	01 06 43.6 C
			Turkey (h = 15 km).				i	01 06 48.7
"	5	Up	iLi 06 02 20.2			Ud	iP	01 07 04.4 C
		Ki	ePn 05 58 36				i	01 07 09.1
			iSn 05 59 32.3				i	01 07 25.3
			iSg 05 59 54.1			De	eP	01 07 14
		Sk	iLgl 06 02 20.3					Mindoro (h = 80 km).
		Um	iSn 06 00 12.5					m = 6.3 (Up,Ki).
			iSg 06 00 44.6	"	6	Up	iP	01 57 17.9
		Ud	iLi 06 02 49.8			Sk	iP	01 57 14.4
			iLgl 06 03 18.5			Um	iP	01 57 04.5 C
			Northwest Russia,					Bonin Islands (h = N).
			67.7°N, 32.8°E.	"	6	Up	iP	05 18 10.4 D
			Origin time = 05 57 22.				ipP	05 18 30.6
			Explosion?			Ki	iP	05 18 00.9
"	5	Ki	iPKP 11 29 30.8 C				ipP	05 18 20.9
			ipPKP 11 29 40.1			Sk	iP	05 18 25.0
		Sk	iPKP 11 29 42.5				ipP	05 18 45.0
		Um	iPKP 11 29 37.5			Um	iP	05 18 00.9
			ipPKP 11 29 46.9				ipP	05 18 21.5
		Ud	iPKP 11 29 47.7			Ud	iP	05 18 23.5
			ipPKP 11 29 55.7				ipP	05 18 44.1
		De	iPKP 11 29 52.0			De	iP	05 18 26.8
			New Hebrides Islands.					Burma.
			h = 35 km (Ki,Um,Ud).					h = 80 km (Up,Ki,Sk,Um,Ud).
"	5	Ki	iP 12 25 19.1 C	"	6	Up	iP	06 29 59.1
			Java (h = 130 km).			Ki	eP	06 29 38
"	5	Up	iP 12 34 45.1			Ud	iP	06 30 11.2
		Um	iP 12 35 13.7					Mindanao (h = N).
			Turkey.					

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

1970				1970					
Apr.	6	Ki	iP	12 09 35.0	Apr.	7	(cont.)		
			i	12 09 41.6			Ud	iP	04 17 39.7
"	6	Up	iP	13 31 15.6 C				i	04 17 43.0
		Ki	iP	13 30 29.6			De	iP	04 17 06.0
		Um	iP	13 30 50.4 C			Turkey (h = N).		
		Ud	iP	13 31 21.4	"	7	Up	iSg	05 11 47.4
		De	iP	13 31 38.8			Ki	iPg	05 10 42.8
		Okhotsk Sea (h = 370 km).						iSg	05 11 44.9
"	6	Up	iSg	13 35 51.8			Sk	iPg	05 09 19.7 D
		Ki	iS ^x	13 37 47.1				i	05 09 30.8
			iSg	13 38 19.2				iSg	05 09 32.1
		Sk	eLgl	13 37 23			Um	i(Pg)	05 10 21.5
			iSg	13 37 41.9				iSg	05 11 05.1
		Um	iSg	13 36 23.3			Ud	eSn	05 10 55
		Ud	i	13 36 40.1				iSg	05 11 14.8
			iLgl	13 36 52.9				i	05 11 24.9
		De	iLgl	13 37 20.1			De	iSg	05 13 12.1
		Esthonia, 59.7°N, 25.6°E. Origin time = 13 33 41. Explosion?					Central Norway, 64.2°N, 11.9°E. Origin time = 05 09 01.		
"	6	Up	i(Lgl)	13 52 00.7	"	7	Up	iP	05 46 29.6 C
		Ki	eSg	13 54 40				i	05 46 33.0
		Sk	eLgl	13 53 52				iS	05 56 45
		Um	iSg	13 52 45.0					micr sec
		Ud	eLgl	13 53 18			P	Z'	1.2 0.9
		Esthonia. Origin time = 13 50 03. Explosion?					Mx	E	170 17
"	6	Up	iP	15 37 00.1			Mx	N	240 17
		Ki	iP	15 37 38.5			Mx	Z	200 17
		Ud	iP	15 37 01.9 C			Ki	iP	05 46 10.5 C
			i	15 37 02.9				i	05 46 12.4
"	6	Up	iP	18 01 36.6				iS	05 56 12
		Um	iP	18 01 25.6					micr sec
		Ud	iP	18 01 54.6			P	Z'	2.3 1.3
"	6	Up	iP	19 54 38.8			Mx	E	190 18
		Um	ePKP	19 54 36			Mx	N	110 15
		New Hebrides Islands (h = 110 km).					Mx	Z	170 14
"	7	Up	iP	04 17 23.9	"	7	Up	iP	05 59 41.0
		Ki	iP	04 18 35.0	"	7	Up	iP	06 02 51.7
				micr sec			Um	iP	06 02 37.0
		Mx	E	0.6 13			Ud	iP	06 02 59.1
		Mx	N	0.3 11			Luzon.		
		Mx	Z	0.5 11			Origin time = 05 50 24.		
		Sk	iP	04 18 10.6			Approximate origin times are		
		Um	iP	04 17 56.4			given for aftershocks not		
		(cont.)					reported by the USCGS.		

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

1970									1970									
Apr.	7	Up	iP	06 03 57.3					Apr.	7	Up	iP	06 17 03.1					
		Ki	iP	06 03 34.3							Ki	iP	06 16 43.9					
		Um	iP	06 03 38.3							Sk	iP	06 17 08.7					
		Ud	iP	06 04 06.7							Um	iP	06 16 51.7 C					
		Luzon.									Ud	iP	06 17 12.5 C					
		Origin time = 05 51 29.									Luzon (h = N).							
"	7	Um	iP	06 04 56.4					"	7	Ki	iP	06 17 45.9					
"	7	Up	iP	06 06 04.6					"	7	Ki	eP	06 20 38					
		Ki	iP	06 05 45.3							Ud	iP	06 21 05.2					
		Sk	iP	06 06 10.2							Luzon.							
		Um	iP	06 05 51.5							Origin time = 06 08 31.							
		Ud	iP	06 06 13.6														
		De	iP	06 06 19.1					"	7	Ki	iP	06 23 07.8					
		Luzon (h = 35 km).									Um	iP	06 23 15.7					
"	7	Up	iP	06 06 19.9							Ud	iP	06 23 37.7					
				micr sec							Luzon.							
			P	Z' 0.2 1.0							Origin time = 06 11 02.							
		Ki	iP	06 06 00.6					"	7	Ud	iP	06 23 16.8					
				micr sec														
			P	Z' 0.4 1.3					"	7	Up	iP	06 24 19.3					
		Sk	iP	06 06 24.6								micr sec						
		Um	iP	06 06 07.0								P	Z' 0.1 1.0					
		Ud	iP	06 06 27.5							Ki	iP	06 24 00.1					
		De	iP	06 06 35.1 C								micr sec						
		Luzon.										P	Z' 0.3 1.3					
		Origin time = 05 53 55.									Sk	iP	06 24 23.9 C					
		m = 6.3 (Up,Ki).									Um	iP	06 24 06.4 C					
"	7	Up	iP	06 09 22.2							Ud	iP	06 24 28.1 C					
"	7	Up	iP	06 12 42.6							De	iP	06 24 34.3					
		Ud	iP	06 12 50.0							Luzon (h = 20 km).							
		Luzon.									m = 6.1 (Up,Ki).							
		Origin time = 06 00 16.							"	7	Ki	iP	06 25 46.6					
"	7	Ud	iP	06 14 42.1							Um	iP	06 25 43.5					
"	7	Um	iP	06 15 08.5					"	7	Ki	eP	06 36 33					
		Ud	iP	06 15 30.0							Ud	i(P)	06 36 50.6					
		Luzon.							"	7	Ki	eP	06 38 37					
		Origin time = 06 02 56.									Um	eP	06 38 44					
"	7	Ud	iP	06 15 16.9							Ud	iP	06 38 56.3 C					
"	7	Um	iP	06 15 23.7					"	7	Ki	iP	06 41 15.8					
		Ud	iP	06 15 45.5							Ud	iP	06 41 44.2					
		Luzon.									Luzon.							
		Origin time = 06 03 11.									Origin time = 06 29 09.							
"	7	Up	iP	06 16 22.5					"	7	Up	iP	06 46 44.2					
		Ud	iP	06 16 30.3								micr sec						
		Luzon.										P	Z' 0.1 0.8					
		Origin time = 06 03 56.									Ki	iP	06 46 25.2					
												i	06 46 27.4					
												micr sec						
												P	Z' 0.2 1.3					
											(cont.)							

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

1970					1970				
Apr.	7	(cont.)			Apr.	7	(cont.)		
		Sk	iP	06 46 49.7			Ud	iP	07 29 25.3
			i	06 46 50.8			Luzon.		
		Um	iP	06 46 31.9			Origin time =	07 16 50.	
			i	06 46 33.6					
		Ud	iP	06 46 52.8 C	"	7	Ki	eP	07 33 33
			i	06 46 55.3			Um	eP	07 33 10
		De	iP	06 47 01.4			Ud	iP	07 33 00.0
		Luzon (h = N).					De	iP	07 32 47.2
		m = 6.1 (Up, Ki).							
"	7	Up	iP	06 49 52.8	"	7	Ki	iP	07 40 50.8
		Um	iP	06 49 35.7			Ud	iP	07 41 14.9
		Ud	iP	06 50 03.2	"	7	Ki	eP	07 43 53
		Luzon.					Ud	iP	07 44 22.8
		Origin time =	06 37 26.				i		07 44 30.4
							Luzon.		
"	7	Up	iP	06 52 00.0			Origin time =	07 31 47.	
		Ki	iP	06 51 35.7	"	7	Ud	iP	07 54 50.5
			i	06 51 47.4	"	7	Sk	iP	07 57 53.0
		Um	iP	06 51 48.6			Um	iP	07 57 32.5
			i	06 51 52.4			Ud	iP	07 57 52.4
		Ud	iP	06 52 09.3 C			i		07 57 57.4
			i	06 52 15.8			Luzon (h = N).		
		Luzon.							
		Origin time =	06 39 33.						
"	7	Um	iP	06 54 56.5	"	7	Ud	iP	08 11 28.5
		Ud	iP	06 55 14.5			ipP		08 11 39.8
		Luzon.					Luzon.		
		Origin time =	06 42 42.				h = 40 km (Ud).		
"	7	Up	iP	06 55 34.7	"	7	Up	iP	08 12 23.5
		Ki	iP	06 55 19.2			Ki	iP	08 12 04.1
		Sk	eP	06 55 46			Sk	iP	08 12 28.0
		Um	iP	06 55 25.9			ipP		08 12 39.3
		Ud	iP	06 55 45.2			Um	iP	08 12 10.0
			i	06 55 57.1			Ud	iP	08 12 31.8
		Luzon.					De	iP	08 12 34.2
		Origin time =	06 43 12.				Luzon.		
"	7	Ud	iP	06 57 04.0			h = 40 km (Sk).		
"	7	Ud	iP	07 05 40.1	"	7	Sk	eP	08 16 16
"	7	Ud	iP	07 08 59.9			Ud	eP	08 16 07
		De	i(P)	07 08 53.1	"	7	Ud	iP	08 16 35.0
"	7	Um	iP	07 10 20.8	"	7	Ud	iP	08 18 20.4
		Ud	iP	07 10 27.7			De	iP	08 18 27.6
"	7	Ud	iP	07 12 07.9			Luzon.		
"	7	Ud	iP	07 21 59.0			Origin time =	08 05 47.	
"	7	Um	iP	07 29 02.9	"	7	Um	i(P)	08 20 03.1
		(cont.)					Ud	e(P)	08 20 13
					"	7	Sk	iP	08 24 20.8
							(cont.)		

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

1970				1970					
Apr.	7	(cont.)		Apr.	7	(cont.)			
		Um	iP 08 24 05.1			Ki	iP 09 40 16.5		
		Ud	iP 08 24 27.3			Sk	iP 09 39 44.5		
		Luzon.				Um	iP 09 40 00.1		
		Origin time = 08 11 51.				Ud	iP 09 39 30.5		
	"	Up	iP 08 37 58.1		"	Atlantic Ocean (h = N).			
		Ki	iP 08 37 38.2		7	Ki	i(P) 09 51 09.3		
		Um	iP 08 37 45.6			Um	iP 09 51 24.0		
		Ud	iP 08 38 06.5			Ud	iP 09 51 44.2		
		Luzon (h = N).				Luzon (h = N).			
	"	Um	iP 08 54 58.1		"	7	Ki	iP 09 58 23.7	
		Ud	iP 08 55 23.2				Ud	iP 09 58 58.4	
		Luzon.				"	7	Sk	e(P) 10 04 22
		Origin time = 08 42 47.						Ud	iP 10 04 18.9
	"	Ud	iP 09 07 35.8					i	10 04 24.0
		Luzon.				"	7	Ud	iP 10 12 40.9
	"	Um	iP 09 22 53.7						
			i 09 23 01.5			"	7	Um	iP 10 31 12.4
		Ud	iP 09 22 04.7					Ud	eP 10 31 40
		Morocco (h = N).						i	10 33 21.2
	"	Up	iP 09 24 13.9			"	7	Up	iSg 10 36 30.7
			i 09 24 21.2					Sk	iSg 10 38 20.2
			micr sec					Um	iSg 10 36 59.2
		P	Z' 0.1 0.7					Ud	iLgl 10 37 31.3
		Mx	E 1.2 21					Esthonia.	
		Mx	N 1.2 19					Origin time = 10 34 19.	
		Mx	Z 2.3 23					Explosion?	
		Ki	iP 09 25 20.9		"	7	Up	iP 10 44 04.4	
			micr sec				Ki	iP 10 43 43.7	
		P	Z' 0.1 1.0				Sk	iP 10 44 06.4	
		Mx	E 1.8 16				Um	iP 10 43 50.3	
		Mx	N 0.8 15				Ud	iP 10 44 11.8	
		Mx	Z 1.4 11					ipP 10 44 19.1	
		Sk	iP 09 24 52.3 C				Luzon.		
		Um	iP 09 24 45.4				h = 25 km (Ud).		
		Ud	iP 09 24 21.2 C		"	7	Up	e(P) 10 52 23	
		De	iP 09 23 49.6 C				Ki	e(P) 10 52 50	
		Crete (h = N).					Ud	iP 10 52 30.7	
		m = 5.7, M = 4.7 (Up,Ki).			"	7	Ki	eP 10 55 37	
	"	7	Ki	i(P) 09 28 57.9			Um	eP 10 55 46	
			Ud	iP 09 28 12.9			Ud	iP 10 56 06.8	
			De	iP 09 28 04.2			Luzon (h = 20 km).		
	"	7	Up	iP 09 36 54.9		"	7	Um	iP 11 00 22.8 C
			Ki	eP 09 36 38				Ud	iP 11 00 08.7
			Um	eP 09 36 42			Turkey.		
			Ud	iP 09 37 03.9					
		Luzon (h = 20 km).							
	"	7	Up	iP 09 39 37.5					
			(cont.)						

1970				1970			
Apr.	7	Ki eP Ud iP Luzon.	11 06 37 11 07 00.2	Apr.	7	(cont.) Um eP Ud iP i Luzon (h = N).	13 41 08 13 41 29.8 C 13 41 49.9
"	7	Up eP Ud iP Luzon. Origin time = 11 05 44.	11 18 09 11 18 20.0	"	7	Ud iP	14 10 15.3
"	7	Up iP Ud iP i Luzon. Origin time = 11 08 34.	11 20 59.3 11 21 11.0 11 21 15.6	"	7	Ki i(P) Ud iP	14 14 35.3 14 13 50.0
"	7	Ud i(Sg)	11 49 41.8	"	7	Up i(P) Ud iP	14 22 52.0 14 22 46.3
"	7	Um eP Ud iP Luzon. Origin time = 12 00 00.	12 12 13 12 12 34.6	"	7	Ud iP	14 41 26.2
"	7	Ki iP Ud eP	12 31 42.0 12 32 33	"	7	Up iP P Ki iP Sk iP Um iP Ud iP Okhotsk Sea (h = 560 km).	14 57 04.0 micr sec Z' 0.1 0.5 14 56 16.9 14 56 53.0 14 56 38.5 14 57 09.9
"	7	Up iP Ud iP Luzon. Origin time = 12 27 00.	12 39 29.4 12 39 34.3	"	7	Ud iP	15 08 00.3
"	7	Ki iP	12 54 24.9	"	7	Up i(P) Ki iP Um eP Ud iP Luzon (h = 20 km).	15 18 24.7 15 18 00.2 15 18 07 15 18 28.2 C
"	7	Ki iP Ud iP	13 05 01.5 13 05 38.0	"	7	Up iP i Ki iP i Sk iP i Um iP i Ud iP i Atlantic Ocean (h = N). Double P.	15 47 19.1 15 47 25.5 15 47 58.1 15 48 04.8 15 47 25.7 15 47 31.7 15 47 41.6 15 47 48.1 15 47 12.1 15 47 17.4
"	7	Sk i(Sg) Ud i(Sg) De e(Sg)	13 11 01.1 13 10 31.7 13 10 55	"	7	Up iP i Ki iP Um iP Ud iP Luzon (h = 35 km).	16 08 52.3 16 08 59.4 16 08 30.6 16 08 38.6 16 08 59.3
"	7	Up iP Ud iP Luzon (h = N).	13 15 57.1 13 16 06.7	"	7	Ud iP	16 12 57.2
"	7	Up eP Ki eP Sk eP Um iP Ud iP Luzon (h = N).	13 22 47 13 22 25 13 22 48 13 22 29.2 13 22 48.2	"	7	Ud iP	16 20 47.0
"	7	Um iP Mona Passage (h = 90 km).	13 32 35.3				
"	7	Ud iP	13 33 16.3				
"	7	Up iP (cont.)	13 41 21.2				

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

1970				1970					
Apr.	7	Um	iP	16 22 40.1	Apr.	7	Up	iP	18 18 48.4
		Ud	iP	16 23 02.0			Ud	iP	18 18 57.6
		Luzon.					Luzon (h = N).		
		Origin time = 16 10 27.							
"	7	Ki	iP	16 23 02.3	"	7	De	iP	18 23 37.9
		Sk	eP	16 23 28			Up	iP	18 33 00.5
		De	iP	16 24 28.8			Ud	iP	18 33 00.1
		Kodiak Island (h = 55 km).							
"	7	Ud	iP	16 24 04.5	"	7	Ud	iP	18 34 41.7
"	7	Ud	i(Sg)	16 42 18.3	"	7	Um	iP	18 43 31.1
							Ud	iP	18 43 43.2
"	7	Up	iP	17 10 01.5	"	7	Up	iP	19 04 59.2
			i	17 10 07.9			Ud	iP	19 05 06.9
			iS	17 14 00					
				micr sec			Up	iP	19 23 42.6
		P	Z'	0.2 1.0			Ki	iP	19 23 23.7
		Mx	E	5.4 11			Ud	iP	19 23 51.6 C
		Mx	N	6.4 13			Luzon (h = N).		
		Mx	Z	4.5 12					
		Ki	iP	17 11 09.9	"	7	Up	iP	20 10 47.1
			iPn	17 11 33.6			Ud	iP	20 10 55.6
				micr sec			Luzon (h = N).		
		Mx	E	6.1 12	"	7	Um	iP	20 12 17.7
		Mx	N	2.4 12			Ud	i(P)	20 12 19.2
		Mx	Z	4.6 13			De	iP	20 12 43.5
		Sk	iP	17 10 45.6	"	7	Ud	iP	20 20 55.0
		Um	iP	17 10 33.8	"	7	Ki	iP	21 26 26.0
			i	17 10 35.7			Ud	iP	21 27 04.3
			iPn	17 10 47.0	"	7	Up	iP	21 31 38.0
			iS	17 14 58			Ud	iP	21 31 46.4
		Ud	iP	17 10 14.5	"	7	Up	iP	22 35 26.5
			i	17 10 23.2			Ud	iP	22 35 34.5
		De	iP	17 09 42.3	"	7	Ud	iP	22 40 25.1
			i	17 09 45.2			Luzon (h = 30 km).		
			i	17 09 56.5	"	7	Um	iP	23 04 24.8 C
		Turkey (h = 30 km).					Ud	iP	23 04 04.0
		M = 5.4 (Up,Ki).					De	iP	23 03 31.7
"	7	Ud	iP	17 23 17.7	"	7	Turkey (h = 50 km).		
"	7	Um	e(P)	18 00 57	"	8	Up	iP	00 52 20.3
		Ud	e(P)	18 03 04			Ki	iP	00 51 26.7
"	7	Sk	e	18 12 41			Sk	iP	00 52 03.0
		Ud	i(Sg)	18 12 20.6			Um	iP	00 51 52.0 D
			i	18 13 57.5			Ud	iP	00 52 24.3
		De	i	18 13 30.4			De	iP	00 52 46.1
"	7	Um	iP	18 17 07.6			Kamchatka (h = 60 km).		
		Ud	iP	18 17 27.8					
		Luzon.							
		Origin time = 18 04 54.							

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

1970				1970			
Apr.	8	Ud	iP	00 55 18.2	Apr.	8	(cont.)
		De	i(P)	00 55 26.7			Sk iP 09 01 48.0
"	8	Ud	iP	01 05 13.7			ipP 09 02 01.8
		De	iP	01 05 21.2		Um	iP 09 01 30.5 C
"	8	Up	iP	02 04 12.5			ipP 09 01 44.4
			i	02 04 19.7		Ud	iP 09 01 52.3 C
"	8	Up	iP	02 33 55.3			i 09 02 37.6
		Ud	iP	02 34 05.1		De	iP 09 01 58.5
"	8	Ud	iP	03 11 50.6 C			Luzon.
"	8	Up	iPKP	03 16 02.4			h = 50 km (Sk,Um).
			PKP	0.1 0.7			M = 5.2 (Up,Ki).
		Sk	iPKP	03 15 55.2 C	"	8	Ud iP 09 39 14.9
		Um	iPKP	03 15 49.5	"	8	Up iP 10 05 26.9
			i	03 15 52.0			Ki iP 10 05 08.5
		Ud	iPKP	03 16 04.3			Sk iP 10 05 32.0
		De	iPKP	03 16 13.9 C			Um iP 10 05 16.5
			Kermadec Islands (h = 80 km).				Ud iP 10 05 36.8
"	8	Ud	iP	03 43 17.4			i 10 05 43.0
"	8	Up	iP	05 26 07.3			Luzon (h = 15 km).
		Ki	iP	05 25 48.4	"	8	Um iP 10 10 44.0
		Sk	iP	05 26 11.9			Ud iP 10 11 05.9
		Um	iP	05 25 54.5			Luzon (h = N).
		Ud	iP	05 26 16.2 C	"	8	Up iPKP 10 29 56.6
			Luzon (h = 35 km).				Ki ePKP 10 29 35
"	8	Ud	iP	06 48 05.0			Sk iPKP 10 29 50.9
"	8	Ud	iP	06 56 58.5			Um iPKP 10 29 44.9
"	8	Sk	i(P)	07 03 58.3			Ud iPKP 10 29 58.5 C
		Ud	iP	07 04 34.3			i 10 30 05.6
"	8	Ud	iP	07 35 21.8			De iPKP 10 30 06.8
			Luzon (h = N).				Kermadec Islands (h = 110 km).
"	8	Ki	iP	08 42 16.9	"	8	Ki iPn 10 33 29.4
		Um	iP	08 42 22.5			iSn 10 34 21.4
		Ud	iP	08 42 44.1			iLg1 10 34 34.9
			Luzon (h = 30 km).				Probably northwest Russia.
"	8	Up	iP	09 01 43.1			Origin time = 10 32 18.
			Mx E 0.5 17				Explosion?
			Mx N 0.9 18				
		Ki	iP	09 01 24.3	"	8	Ki i(P) 10 44 29.0
			Mx E 0.5 13				Ud iP 10 43 57.9
			Mx N 0.5 15				
			Mx Z 0.9 13				
			(cont.)				
"	8	Ud	iP	11 05 01.6	"	8	Ud iP 10 52 17.7
			eP	11 04 26			
"	8	Ki	iPn	11 07 19.9	"	8	Ud iP 11 05 01.6
			iSn	11 08 07.8			De eP 11 04 26
			iSg	11 08 25.5			
		Um	i	11 09 00.3			
			iSg	11 09 20.9			
			Probably northwest Russia.				
			Origin time = 11 06 15.				
			Explosion?				

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

1970				1970			
Apr.	8	Up	iP	11 11 04.4	Apr.	8	(cont.)
			ipP	11 11 11.7			Ki ipKP 14 59 54.8 C
		Ki	iP	11 11 27.0			micr sec
			ipP	11 11 35.5			Mx E 0.8 18
		Um	iP	11 11 13.6			Mx N 0.8 19
			ipP	11 11 21.4			Mx Z 1.6 20
		Ud	iP	11 11 13.1			Sk ePKP 15 00 06 C
			ipP	11 11 21.0			Um ipKP 15 00 00.8
		Indian Ocean.					Ud ipKP 15 00 10.2
		h = 30 km (Up,Ki,Um,Ud).					ipKS 15 03 35.5
"	8	Ki	eP	12 58 10			De ipKP 15 00 16.9
		Sk	iP	12 57 53.6			ipKS 15 03 43.2
		Colombia (h = 45 km).					New Hebrides Islands (h = 60 km)
"	8	Ud	i(P)	13 34 54.5	"	8	Ki ePKP 15 20 25
							Auckland Islands (h = 20 km).
"	8	Up	iP	13 55 18.3 C	"	8	Ud iP 16 27 06.9
			iS	13 59 17			Luzon (h = N).
				micr sec			
			P	Z' 0.9 0.8	"	8	Um iP 16 40 40.8
			Mx	E 110 15	"	8	Up
			Mx	N 43 11			micr sec
			Mx	Z 51 11			Mx E 1.0 20
		Ki	iP	13 56 32.0			Mx N 1.0 16
			i	13 56 45.0			Ki eP 16 54 54
			iS	14 01 30			micr sec
				micr sec			Mx E 1.3 16
			P	Z' 0.6 1.7			Mx N 1.3 17
			Mx	E 70 13			Mx Z 1.1 17
			Mx	N 30 14			Um iP 16 55 06.8
			Mx	Z 29 10			Ud eP 16 55 38
		Sk	iP	13 55 58.6			Japan (h = 8 km).
		Um	iP	13 55 55.3 C			M = 5.3 (Up,Ki).
		Ud	iP	13 55 25.4 C	"	8	Up iP 17 11 22.7 C
		De	iP	13 54 50.2			Ki iP 17 11 09.8
		Greece (h = 15 km).					Ud iP 17 11 25.3
		m = 6.3, M = 6.4 (Up,Ki).					
"	8	Up	iP	14 02 56.3	"	8	Ki ePg 18 03 16
		Sk	iP	14 03 10.0			iSg 18 03 54.7
"	8	Up	iP	14 50 47.0			Sk iSg 18 04 00.6
		Ki	iP	14 50 27.9			Um iSn 18 04 08.1
		Um	iP	14 50 34.0			iSg 18 04 21.0
		Ud	iP	14 50 55.8 C			Ud iSg 18 05 48.0
		Luzon (h = N).					Nordland, Norway.
"	8	Um	iP	14 54 05.8			Origin time = 18 02 26.
"	8	Up	iPKP	15 00 08.2	"	8	Up iP 18 06 57.5
				micr sec			Ki iP 18 06 37.9
				micr sec			micr sec
			Mx	E 1.0 21			P Z' 0.1 1.4
			Mx	N 1.8 22			Sk iP 18 07 01.6
			Mx	Z 1.9 23			Um iP 18 06 44.0
		(cont.)					(cont.)

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

1970				1970			
Apr.	8	(cont.)		Apr.	8	(cont.)	
		Ud	iP 18 07 06.1 D			Ud	iP 21 40 12.5
			i 18 07 09.4			De	iP 21 40 15.7
		De	iP 18 07 11.9			Luzon.	
		Luzon (h = 20 km).				Origin time = 21 27 37.	
"	8	Ki	e(P) 18 23 11	"	8	Up	iP 21 43 31.5
			i(Sg) 18 23 41.7			Ki	iP 21 43 12.6
"	8	Ud	iP 18 58 02.3			Sk	iP 21 43 36.3
"	8	Up	iP 20 02 04.5			Um	iP 21 43 18.9
		Ki	iP 20 01 10.4			Ud	iP 21 43 40.8 C
		Sk	iP 20 01 39.0			Luzon.	
		Um	iP 20 01 38.1			Origin time = 21 31 06.	
		Ud	iP 20 02 02.3	"	8	Up	iP 21 46 18.3
		De	iP 20 02 25.5 D				ipP 21 46 26.9
		Alaska (h = 25 km).				Ki	iP 21 46 00.0
"	8	Um	iP 20 07 11.3			Um	iP 21 46 06.0
		Ud	iP 20 07 33.8				ipP 21 46 14.8
"	8	Ud	iP 20 25 53.7			Ud	iP 21 46 27.4
			i 20 25 59.9			Luzon.	
		Luzon (h = N).				h = 30 km (Up,Um).	
"	8	Up	iP 21 36 22.6	"	8	Ki	iP 21 46 40.6
			i 21 36 27.7			Ud	iP 21 46 00.7
			micr sec	"	8	Um	iP 21 50 01.3
		P	Z' 0.2 0.7			Ud	iP 21 50 22.0 C
		Mx	E 13 25			Luzon.	
		Mx	N 39 23			Origin time = 21 37 48.	
		Mx	Z 17 15	"	8	Up	iP 21 58 51.9
		Ki	iP 21 36 03.8 C			Ki	iP 21 58 32.2
			iS 21 46 12			Ud	iP 21 59 00.1 C
			micr sec			Luzon.	
		P	Z' 0.5 1.3			Origin time = 21 46 25.	
		Mx	E 21 14	"	8	Up	iP 21 59 05.4
		Mx	N 15 15				i 21 59 08.0
		Mx	Z 26 14			Ki	iP 21 58 47.4 C
		Sk	iP 21 36 27.8 C			Sk	iP 21 59 12.4
			i 21 36 31.2			Um	iP 21 58 53.4
			ipP 21 36 45.2			Ud	iP 21 59 14.7
		Um	iP 21 36 09.8			De	iP 21 59 21.7
			iS 21 46 18			Luzon (h = 35 km).	
		Ud	iP 21 36 31.9	"	8	Up	iP 22 01 41.6
			ipP 21 36 49.1			Um	iP 22 01 28.5
		De	iP 21 36 39.6			Ud	iP 22 01 50.0
		Luzon.				Luzon.	
		h = 60 km (Sk,Ud).				Origin time = 21 49 15.	
		m = 6.5, M = 6.6 (Up,Ki).		"	8	Ud	iP 22 15 32.1
"	8	Up	iP 21 40 06.4	"	8	Up	iP 22 20 06.5
		Sk	iP 21 40 08.7			(cont.)	
		(cont.)					

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

1970				1970										
Apr.	9	Ud	iP	08 00	56.8	Apr.	9	Ki	iP	12 33	08.8			
"	9	Ud	iP	08 18	21.1			Sk	iP	12 33	32.8			
"	9	Up	iP	08 55	54.4			Um	iP	12 33	39.9			
		Ki	iP	08 55	37.1			Ud	iP	12 34	01.3			
		Ud	iP	08 56	03.5			Yukon (h = N).						
		Luzon (h = 25 km).					"	9	Um	iP	16 29	32.4		
"	9	Um	iP	09 28	43.1			Ud	iP	16 29	52.0			
		Ud	iP	09 28	18.2			i		16 29	57.5			
"	9	Ki	iP	09 52	29.8			Luzon.						
		Ud	iP	09 52	28.1			Origin time = 16 17 18.						
"	9	Up	iSg	10 11	44.1			Up	iP	16 37	20.4			
		Sk	eSn	10 10	40			i		16 37	28.9			
			iSg	10 11	10.9			micr sec						
		Ud	eSn	10 10	14			Mx	E	1.0	21			
			iSg	10 10	41.5			Mx	N	0.9	21			
		De	eSg	10 11	21			Mx	Z	1.8	22			
		Southwest coast of Norway,							Ki	eP	16 37	10		
		59.6°N, 5.6°E.							i		16 37	13.5		
		Origin time = 10 08 24.							micr sec					
"	9	Up	iP	10 17	23.3			P	Z'	0.4	2.0			
								Mx	E	1.5	20			
								Mx	N	1.1	21			
								Mx	Z	2.5	20			
								Sk	iP	16 37	03.2 D			
								Um	iP	16 37	17.3			
								Ud	iP	16 37	11.7			
								De	iP	16 37	20.0			
								i		16 37	22.7			
								Mexico (h = 40 km).						
								M = 5.4 (Up,Ki).						
"	9	Up	eP	18 12	18			Up	eP	18 12	18			
								Ki	iP	18 12	02.1			
								Um	iP	18 12	06.9			
								Ud	iP	18 12	27.0 C			
								ipP		18 12	35.3			
								Luzon.						
								h = 30 km (Ud).						
"	9	Um	eP	20 48	47			Um	eP	20 48	47			
		Ud	eP	20 48	26			Turkey (h = 30 km).						
"	9	Ud	iP	10 25	47.4			"	10	Up	iP	00 13	39.6	
"	9	Up	iP	10 31	15.8					Ki	iP	00 13	21.0	
		Um	iP	10 31	03.0					Sk	iP	00 13	44.9	
		Ud	iP	10 31	24.5 C					Um	iP	00 13	26.9	
		Luzon (h = N).									ipP	00 13	38.3	
"	9	Ud	iP	11 52	10.2 C					Ud	iP	00 13	49.0	
		Luzon (h = N).									ipP	00 13	59.5	
									Luzon.					
									h = 40 km (Um,Ud).					
"	9	Ud	i(Sg)	12 05	17.3			"	10	Sk	i(P)	00 20	31.1	
											Ud	iP	00 20	40.0

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

1970				1970			
Apr.	10	Ud	iP	00 35 49.8	Apr.	10	(cont.)
		Luzon (h = N).				Ki	iSn 11 13 23.0
"	10	Up	iP	01 19 35.4			iSg 11 13 46.8
		Sk	iP	01 20 20.5		Sk	iLgl 11 16 11.1
		Um	iP	01 20 04.4		Um	iSg 11 14 37.9
			i	01 20 08.3		Northwest Russia, 67.5°N, 33.4°E.	
		Ud	iP	01 19 44.1		Origin time = 11 11 07.	
			i	01 19 48.8		Explosion?	
		Turkey.			"	10	Sk iP 11 32 27.5
		The readings at Up,Sk probably correspond to the second, larger-amplitude readings at Um,Ud.				10	Ud iP 11 32 27.7
"	10	Up	iP	08 30 32.7	"	10	Up iP 13 30 22.1
		Ki	iP	08 30 41.3			Ki iP 13 30 02.9 C
		Sk	iP	08 30 58.5			Sk iP 13 30 27.1
		Um	iP	08 30 31.0			Um iP 13 30 11.2
			i	08 30 32.9			Ud iP 13 30 31.2 C
		Ud	iP	08 30 49.6			Luzon (h = 30 km).
		De	iP	08 30 47.3	"	10	Up i(P) 13 34 55.7
		Hindu Kush (h = 130 km).				10	De iP 13 34 54.8
"	10	Ki	iP	09 19 33.3	"	10	Up iPKP 14 28 35.2
		Um	iP	09 19 49.0 C			micr sec
			ipP	09 20 28.0			PKP Z' 0.8 0.8
		Ud	iP	09 20 31.4		Ki	iPKP 14 28 12.9
		Kurile Islands.					i 14 28 23.7
		h = 150 km (Um).				Sk	iPKP 14 28 28.0 C
"	10	Ud	iPg	09 59 21.8		Um	iPKP 14 28 24.0
			iSg	09 59 45.3			ipPKP 14 29 09.3
		De	iPg	09 59 33.5		Ud	iPKP 14 28 36.1 C
			iSg	10 00 02.2			i 14 28 37.6
		Probably southwest Sweden,				De	iPKP 14 28 46.9
		58.5°N, 11.8°E.				Tonga-Kermadec Islands.	
		Origin time = 09 58 48.				h = 180 km (Um).	
"	10	Up	iP	10 32 34.9	"	10	Sk iP 15 09 18.9
		Ki	iP	10 32 57.3			Ud eP 15 09 29
				micr sec	"	10	Ki ePg 17 49 18
		Mx	E	0.6 15			iSg 17 49 52.1
		Mx	N	0.5 15		Sk	ePg 17 49 19
		Mx	Z	0.7 13			iSg 17 49 56.3
		Sk	iP	10 33 05.1		Um	iSg 17 50 18.8
		Um	iP	10 32 40.1		Nordland, Norway, 66.4°N, 14.8°E.	
		Ud	iP	10 32 51.7		Origin time = 17 48 23.	
		De	iP	10 32 42.8		Explosion?	
		West Pakistan (h = N).			"	10	Ki iP 22 16 32.9
"	10	Sk	iP	10 51 55.4			Sk iP 22 16 57.1
		Ud	iP	10 51 19.6			Um iP 22 16 39.2
"	10	Ki	iPn	11 12 24.0			Ud iP 22 17 00.8 C
		(cont.)				Luzon (h = 35 km).	

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

1970				1970					
Apr.	12	Up	iP	05 17 04.3	Apr.	12	Up	iP	05 33 47.1
			i	05 17 25.4			Um	iP	05 33 32.7
		Ud	iP	05 17 10.9			Ud	iP	05 33 55.3
"	12	Up	iP	05 20 58.8			Luzon.		
		Ud	iP	05 21 07.0			Origin time = 05 21 17.		
			i	05 21 28.3	"	12	Up	iP	05 36 19.2
		Luzon.					Ud	iP	05 36 18.7
		Origin time = 05 08 30.						i	05 36 27.9
"	12	Up	iP	05 23 05.1	"	12	Up	iP	05 37 10.0
			ipP	05 23 11.6			Ud	iP	05 37 18.3
		Ki	epP	05 22 51			Luzon.		
		Um	ipP	05 22 59.4			Origin time = 05 24 40.		
		Ud	iP	05 23 16.3	"	12	Um	iP	05 38 26.1
			ipP	05 23 21.4			Ud	iP	05 38 43.0
		Luzon.			"	12	Up	iP	05 40 20.2
		h = 20 km (Up,Ud).					Ki	iP	05 40 01.9
"	12	Up	iP	05 24 51.7			Sk	iP	05 40 28.0
		Ki	eP	05 24 33			Um	iP	05 40 07.2
		Ud	iP	05 25 01.0			Ud	iP	05 40 29.4
		Luzon.					Luzon (h = N).		
		Origin time = 05 12 23.		"	12	Up	iP	05 44 59.6	
"	12	Up	iP	05 30 12.3			Ud	iP	05 45 08.2
		Ud	iP	05 30 20.6			Luzon.		
		Luzon.				Origin time = 05 32 30.			
		Origin time = 05 17 43.		"	12	Up	iP	05 47 22.6	
"	12	Up	iP1	05 30 35.7			Ki	ipP	05 47 12.2
			iP2	05 30 38.3			Um	ipP	05 47 20.3
				micr sec			Ud	iP	05 47 31.1
			P2	Z' 0.2 0.7				ipP	05 47 41.9
		Ki	iP1	05 30 16.5			Luzon.		
			iP2	05 30 19.3			h = 40 km (Ud).		
			iP3	05 30 28.2			In many of the Luzon after-		
				micr sec			shocks, pP is larger than P.		
			P2	Z' 0.2 1.0			This may cause confusion be-		
		Sk	iP1	05 30 41.3			tween P and pP, especially		
			iP2	05 30 44.3			for the smaller shocks.		
			iP3	05 30 51.7	"	12	Up	iP	05 49 28.8
		Um	iP1	05 30 23.1			Um	iP	05 49 17.5
			iP2	05 30 26.1			Ud	iP	05 49 37.9
			iP3	05 30 33.6			Luzon.		
		Ud	iP1	05 30 45.2			Origin time = 05 37 00.		
			iP2	05 30 47.9	"	12	Up	iP	05 59 30.2
			iP3	05 30 55.8			Um	iP	05 59 18.2
		De	iP2	05 30 54.7			Ud	iP	05 59 38.6
			iP3	05 31 02.1			Luzon.		
		Luzon (h = N).				Origin time = 05 47 01.			
		m = 6.3 (Up,Ki).		"	12	Up	iP	06 12 10.5	
		Three phases (P1,P2,P3) are				Ki	i(P)	06 11 22.0	
		recorded, of which P1 is							
		the smallest. P3 could be							
		pP to P2, corresponding to							
		a focal depth of 30 km.							

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

1970						1970				
Apr.	12	Up	iP	06 16 17.2		Apr.	12	Up	iP	07 00 48.2
		Ki	iP	06 16 00.0				Ud	iP	07 00 57.3
			ipP	06 16 08.2				Luzon.		
		Um	iP	06 16 05.2				Origin time = 06 48 19.		
		Ud	iP	06 16 26.6 D		"	12	Up	iP	07 01 39.0
			ipP	06 16 35.1				Ud	iP	07 01 48.0 C
		Luzon.						Luzon.		
		h = 30 km (Ki,Ud).						Origin time = 06 49 10.		
"	12	Up	iP	06 35 59.6		"	12	Up	iP	07 03 31.3
		Ki	iP	06 35 41.6				Sk	eP	07 03 32
		Sk	iP	06 36 06.3				Um	iP	07 03 19.3
		Um	iP	06 35 47.8				Ud	iP	07 03 40.4
		Ud	iP	06 36 09.3				ipP		07 03 47.5
		Luzon (h = N).						Luzon.		
"	12	Up	iP	06 42 25.1		"	12	Up	iP	07 10 54.0
		i		06 42 44.5				i		07 10 58.4
				micr sec				Ki	iP	07 10 36.8
		Mx	E	1.0 17				Um	iP	07 10 42.9
		Mx	N	2.3 22				ipP		07 10 49.7
		Mx	Z	1.6 20				Ud	iP	07 11 03.1
		Ki	iP	06 42 05.8				ipP		07 11 10.2
				micr sec				Luzon.		
		P	Z'	0.1 1.0				h = 25 km (Um,Ud).		
		Mx	E	0.8 13				"	12	Ud
		Mx	N	1.3 17				eP		07 14 47
		Mx	Z	0.9 13				i		07 14 54.1
		Sk	iP	06 42 31.3 C		"	12	Up	iP	07 16 15.9
		Um	iP	06 42 13.7				Um	eP	07 16 03
			ipP	06 42 24.8				Ud	iP	07 16 24.4
		Ud	iP	06 42 33.7				i		07 16 27.1
			i	06 42 35.4				Luzon (h = N).		
		Luzon.						"	12	Up
		h = 40 km (Um).						eP		07 28 32.8
		M = 5.6 (Up,Ki).						ipP		07 28 39.9
"	12	Up	eP	06 46 48		"	12	Ki	iP	07 28 14.1
		Ki	eP	06 46 27				Sk	eP	07 28 37
		Ud	iP	06 46 57.5				Um	iP	07 28 19.9
		Luzon.						ipP		07 28 27.1
		Origin time = 06 34 19.						Ud	iP	07 28 42.0 C
"	12	Up	iP	06 49 21.2				ipP		07 28 49.1
		Ki	iP	06 49 02.5				Luzon.		
		Sk	epP	06 49 35				h = 25 km (Up,Um,Ud).		
		Um	iP	06 49 08.5				"	12	Up
		Ud	iP	06 49 30.3 C				i(Sn)		07 39 30.6
			ipP	06 49 37.2				iSg		07 39 45.7
		Luzon.						Sk	iSg	07 40 31.4
		h = 25 km (Ud).						Ud	iPg	07 38 23.1
"	12	Ki	iP	06 51 26.3				iSg		07 38 52.5
		Um	iP	06 51 34.0				De	eSg	07 39 06
		Ud	iP	06 51 54.4 C				iRg		07 39 11.8
		Luzon.						Off west coast of Sweden,		
		Origin time = 06 39 16.						58.5°N, 10.4°E.		
								Origin time = 07 37 37.		
								Explosion?		

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

1970					1970				
Apr.	12	Up	iP	07 41 58.3	Apr.	12	(cont.)		
			ipP	07 42 05.0			Off west coast of Sweden,		
		Ud	iP	07 42 05.8			58.5°N, 10.4°E.		
			ipP	07 42 13.3			Origin time = 08 24 46.		
				Luzon.			Explosion?		
				h = 25 km (Up,Ud).					
				Origin time = 07 29 28.	"	12	Up	iP	08 27 49.5
"	12	Up	eP	07 47 17			Um	eP	08 27 37
		Ud	iP	07 47 26.9			Ud	iP	08 27 58.2
			ipP	07 47 34.1					Luzon.
				Luzon.					Origin time = 08 15 20.
				h = 25 km (Ud).	"	12	Up	iP	08 38 05.7
				Origin time = 07 34 49.			Um	eP	08 37 55
"	12	Up	i(Sn)	07 51 29.7			Ud	iP	08 38 14.8
			iSg	07 51 44.8				ipP	08 38 25.6
		Ud	iPg	07 50 23.9					Luzon.
			iSg	07 50 53.4					h = 40 km (Ud).
		De	eSg	07 51 07					Origin time = 08 25 37.
			iRg	07 51 13.3	"	12	Up	iP	08 45 47.2
				Off west coast of Sweden,				ipP	08 45 54.4
				58.5°N, 10.4°E.			Ki	iP	08 45 28.4
				Origin time = 07 49 38.			Um	iP	08 45 34.3
				Explosion?				ipP	08 45 41.8
"	12	Up	iP	07 58 12.6			Ud	iP	08 45 56.3 C
			ipP	07 58 19.3				ipP	08 46 03.5
		Um	iP	07 58 00.2					Luzon.
		Ud	iP	07 58 21.5					h = 25 km (Up,Um,Ud).
			ipP	07 58 28.3	"	12	Up	iP	08 52 49.2
				Luzon.			Ud	iP	08 52 57.7
				h = 25 km (Up,Ud).					Luzon.
				Origin time = 07 45 44.					Origin time = 08 40 20.
"	12	Up	iP	07 59 06.8	"	12	Up	iP	09 05 21.0
			ipP	07 59 14.7			Sk	iP	09 05 15.3
		Um	iP	07 58 58.4			Um	iP	09 04 58.7
		Ud	iP	07 59 15.6 C			Ud	iP	09 05 28.9
				Luzon.			De	iP	09 05 43.9
				h = 30 km (Up).					Japan (h = 130 km).
				Origin time = 07 46 38.	"	12	Up	iP	09 14 14.7
"	12	Um	iP	08 00 11.2			Ki	iP	09 13 55.0
		Ud	iP	08 00 04.7			Sk	iP	09 14 20.2
"	12	Up	iP	08 21 26.7			Um	iP	09 14 01.7
		Ud	iP	08 21 34.4				i	09 14 13.9
				Luzon.			Ud	iP	09 14 23.7
				Origin time = 08 08 57.					Luzon (h = 40 km).
"	12	Up	i	08 26 15.4	"	12	Up	eP	09 18 25
			iSg	08 26 54.3			Um	iP	09 18 12.2
		Ud	iPg	08 25 32.4			Ud	iP	09 18 33.9 D
			iSg	08 26 02.3					Luzon.
		De	iSg	08 26 16.4					Origin time = 09 05 56.
			iRg	08 26 23.0					
				(cont.)					

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

1970				1970			
Apr.	12	(cont.)		Apr.	12	Ki e(P)	16 40 34
		Um ipP	14 08 06.7			Ud iP	16 40 11.1
		Ud iP	14 08 20.1 D				
		ipP	14 08 28.8	"	12	Ki eP	16 48 25
		De eP	14 08 25			Ud iP	16 48 35.7 C
		Luzon.					
		h = 35 km (Up,Um,Ud).		"	12	Up iP	17 00 31.2
"	12	Up iP	14 35 08.3			Um iP	17 00 18.5
		ipP	14 35 16.7			Ud iP	17 00 40.1 D
			micr sec			Luzon.	
		P Z'	0.2 0.5			Origin time = 16 48 02.	
		Mx E	1.0 17	"	12	Up iP	17 04 59.5
		Mx N	1.5 18			ipP	17 05 06.7
		Mx Z	1.4 17			Um iP	17 04 46.7
		Ki iP	14 34 49.4			Ud iP	17 05 08.3
			micr sec			ipP	17 05 15.7
		Mx E	0.7 17			Luzon.	
		Mx N	0.7 16			h = 25 km (Up,Ud).	
		Mx Z	1.0 16			Origin time = 16 52 30.	
		Sk iP	14 35 13.6	"	12	Up iP	17 14 29.9
		Um iP	14 34 56.2			Ki iP	17 14 10.7
		Ud iP	14 35 17.8 D			Um iP	17 14 17.6
		i	14 35 21.7			Ud iP	17 14 39.4
		iPP	14 38 38.4			Luzon (h = N).	
		De iP	14 35 24.6				
		Luzon.		"	12	Up iP	17 35 08.5
		h = 30 km (Up).				ipP	17 35 15.7
		M = 5.4 (Up,Ki).				Ud iP	17 35 16.8 C
"	12	Ud iP	14 40 51.1			ipP	17 35 24.2
						Luzon.	
"	12	Um iP	15 06 16.7			h = 25 km (Up,Ud).	
		Ud iP	15 06 38.4 D			Origin time = 17 22 39.	
		ipP	15 06 43.1	"	12	Up iP	18 20 30.4
		Luzon.				Ud iP	18 20 39.2
		h = 15 km (Ud).				ipP	18 20 46.3
		Origin time = 14 54 00.				Luzon.	
"	12	Up iP	15 18 17.3			h = 25 km (Ud).	
		Ud iP	15 18 29.2			Origin time = 18 08 01.	
"	12	Um iP	15 20 08.2	"	12	Up eP	18 54 35
		Ud iP	15 20 31.0			Ud iP	18 54 46.2
		Luzon.					
		Origin time = 15 07 52.		"	12	Ki iP	19 17 35.2
"	12	Up iP	15 46 16.4			Ud iP	19 18 01.6
		ipP	15 46 24.0			Luzon.	
		Um eP	15 46 05			Origin time = 19 05 24.	
		Ud iP	15 46 25.5 C	"	12	Ud iP	19 18 47.5
		ipP	15 46 33.9			i	19 18 55.7
		Luzon.		"	12	Up eP	20 00 20
		h = 30 km (Up,Ud).				Um iP	20 00 57.6
"	12	Ki eP	16 13 39			Ud iP	20 00 34.5
		Ud iP	16 13 14.1			Turkey (h = 15 km).	

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

1970				1970			
Apr.	12	Ud	iP	20 28 31.4	Apr.	13	(cont.)
"	12	Up	iP	20 29 37.1 C			Sk iP 00 04 42.6
		Ki	eP	20 29 34			ipP 00 04 47.3
"	12	Up	eP	20 41 41			Um iP 00 04 24.7
			ipP	20 41 49.6			ipP 00 04 30.3
		Um	iP	20 41 28.8			Ud iP 00 04 46.1 C
		Ud	iP	20 41 50.1 C			ipP 00 04 51.8
			ipP	20 41 57.9			De iP 00 04 52.9
							ipP 00 04 57.7
		Luzon.				Luzon.	
		h = 30 km (Up,Ud).				h = 20 km (Ki,Sk,Um,Ud,De).	
		Origin time = 20 29 12.				M = 5.3 (Up,Ki).	
"	12	Up	iP	21 17 34.0	"	13	Ud iP 00 08 11.5
			i	21 17 43.9	"	13	Ud iP 00 32 54.1
		Um	eP	21 17 18	"	13	Ud iP 01 19 30.5
"	12	Up	iP	22 50 21.2	"	13	Ki e(P) 01 20 09
		Um	iP	22 50 08.2			Ud iP 01 20 33.7
		Ud	iP	22 50 30.0	"	13	Ud iP 01 27 42.2
		Luzon (h = N).				Hindu Kush.	
"	12	Up	iP	23 01 51.7	"	13	Up iP 01 33 17.7
		Um	iP	23 01 39.5			Ud iP 01 33 26.8
		Ud	iP	23 02 01.1 C			Luzon.
			ipP	23 02 10.1			Origin time = 01 20 49.
		Luzon.					
		h = 35 km (Ud).					
		Origin time = 22 49 23.		"	13	Ud iP 01 37 46.1	
"	12	Um	eP	23 07 12	"	13	Ud iP 01 40 20.8
		Ud	iP	23 07 34.6			i 01 40 26.3
		Luzon.					
		Origin time = 22 54 56.		"	13	Ud iP 01 44 56.2	
"	12	Up	iP	23 09 26.0	"	13	Ud iP 02 18 48.5
		Ki	iP	23 09 47.6	"	13	Ud eP 02 19 45
			i	23 09 53.7	"	13	Up iP 02 30 03.1
		Um	iP	23 09 44.2 C			Ud iP 02 30 33.5
		Ud	iP	23 09 10.9	"	13	Ud iP 02 39 25.5
		Azores Islands (h = N).					
"	12	Ud	iP	23 16 11.6	"	13	Ud iP 03 13 03.4
"	13	Up	iP	00 04 36.8	"	13	Up iP 03 38 11.0
				micr sec			Ud iP 03 38 20.2
		Mx	E	0.6 20			Luzon.
		Mx	N	1.1 18			Origin time = 03 25 42.
		Ki	iP	00 04 18.3	"	13	Sk i(P) 03 59 19.5
			ipP	00 04 23.3			Ud iP 03 59 51.4
				micr sec			
		Mx	E	0.5 16			
		Mx	N	0.8 19			
		Mx	Z	0.6 13			
		(cont.)					

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

1970				1970				
Apr.	13	Ud	iP	04 10 50.4	Apr.	13	(cont.)	
"	13	Ud	iP	04 30 30.0			Um	iP 08 40 41.2
"	13	Ud	iP	04 45 24.1				ipP 08 40 49.6
"	13	Ud	iP	04 59 28.9			Ud	iP 08 41 03.3
"	13	Ud	iP	05 19 41.3				ipP 08 41 11.4
"	13	Ud	i	05 19 47.9			De	ipP 08 41 17.5
"	13	Up	iP	05 20 51.6			Luzon.	
			i	05 20 55.8			h = 30 km (Ki,Sk,Um,Ud).	
				micr sec			M = 5.5 (Up,Ki).	
		Mx	E	0.6 11	"	13	Ud	iP 08 59 10.5
		Mx	N	0.7 12	"	13	Ud	ePg 10 37 21
		Mx	Z	0.9 11				iSg 10 37 51.9
		Ki	iP	05 21 59.9	"	13	Ud	ePg 10 43 22
				micr sec				iSg 10 43 53.0
		Mx	E	0.8 11	"	13	Ud	iP 11 24 58.0
		Mx	N	0.4 11	"	13	Up	iP 12 00 14.6
		Mx	Z	0.6 11			Ud	iP 12 00 22.8
		Sk	eP	05 21 36			Luzon.	
		Um	iP	05 21 24.7			Origin time = 11 47 45.	
		Ud	iP	05 21 04.2	"	13	Up	eP 13 04 25
			i	05 21 11.5			Sk	eP 13 04 32
		De	iP	05 20 29.5			Um	iP 13 04 14.8
			i	05 20 34.0			Ud	iP 13 04 34.2
		Turkey (h = 8 km).					ipP	13 04 40.8
		M = 4.5 (Up,Ki).					Luzon.	
"	13	Ud	eP	05 26 17			h = 25 km (Ud).	
"	13	Um	iP	05 29 19.7	"	13	Ki	ePn 13 32 45
		Ud	iP	05 29 40.7				iSn 13 33 40.8
			ipP	05 29 47.9			Sk	ePg 13 32 49
		Luzon.						iSg 13 33 35.2
		h = 25 km (Ud).					Um	iSn 13 34 08.7
		Origin time = 05 17 03.						iSg 13 34 42.4
"	13	Ud	iP	05 30 25.6			Norwegian Sea,	
"	13	Up	iP	08 40 53.8			67.0°N, 8.6°E.	
				micr sec			Origin time = 13 31 31.	
		Mx	E	1.0 20	"	13	Ud	iP 13 46 04.9
		Mx	N	1.8 22	"	13	Up	iP 13 50 34.4
		Mx	Z	1.4 18			Ud	iP 13 50 43.9 C
		Ki	iP	08 40 35.9			Luzon.	
			ipP	08 40 43.0			Origin time = 13 38 06.	
				micr sec	"	13	Ki	iP 13 50 58.4
		pP	Z'	0.1 1.0			Ud	iP 13 51 39.8
		Mx	E	1.4 19	"	13	Um	iP 14 09 32.4
		Mx	N	1.0 17	"	13	Ud	iP 14 36 24.6
		Mx	Z	1.4 17				i 14 36 31.3
		Sk	iP	08 40 59.4 C				
			ipP	08 41 06.7				
		(cont.)						

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

1970				1970					
Apr.	13	De	iP	14 56 09.2	Apr.	14	Ud	iP	07 31 08.3
"	13	Ud	iP	15 57 24.6	"	14	Up	iP	08 00 49.5
"	13	Ud	iP	16 09 15.8			Ud	iP	08 00 59.6
"	13	Ki	eP	18 34 23	"	14	Sunda Strait (h = 50 km).		
"	13	Up	eP	18 48 23	"	14	Up	iP	08 41 07.7
		Um	iP	18 48 32.9			Ud	iP	08 41 15.1
		Ud	iP	18 48 34.8	"	14	Sunda Strait (h = 60 km).		
"	13	Ud	iP	18 54 31.6 C	"	14	Ud	iP	08 45 13.7
			i	18 54 41.0	"	14	Ud	iP	09 52 08.6
"	13	Ud	iP	19 24 47.3				i	09 52 13.7
"	13	Um	iP	19 37 20.6	"	14	Um	iPKP	14 05 47.3
			i	19 37 26.6			Ud	iPKP	14 05 49.2
		Ud	iP	19 37 28.7			De	iPKP	14 06 01.1
"	13	Ud	iP	19 47 27.5 C	"	14	Tonga Islands (h = 70 km).		
"	13	Ud	iP	21 11 37.3	"	14	Ud	iP	14 26 59.9
"	13	Ud	i(P)	21 19 57.1	"	14	Ud	eP	15 08 07
"	13	Ud	iP	21 40 25.4	"	14	Ud	eP	15 24 47
			i	21 40 39.2			De	i(P)	15 24 26.9
"	13	Ud	iP	23 45 35.7	"	14	Um	iP	17 48 43.8
"	14	Um	iP	01 09 57.7	"	14	Ud	iP	17 48 55.3
		Ud	iP	01 10 11.2	"	14	Up	iP	19 18 33.0
			i	01 10 19.1	"	14	Um	iP	19 18 33.4
"	14	Ud	iP	03 32 04.4					
"	14	Up	iP	04 24 51.2			Mx	E	1.0 18
		Ud	iP	04 25 00.1			Mx	N	1.7 17
		De	iP	04 25 19.8			Mx	Z	1.6 20
"	14	Up	iP	05 31 16.8			Ki		micr sec
		Ud	iP	05 31 25.2			Mx	E	2.6 20
		ipP		05 31 33.7			Mx	N	1.1 18
							Mx	Z	1.2 16
							Ud	iP	19 21 40.4
							De	eP	19 21 16
							South Africa (h = N).		
							M = 5.8 (Up,Ki).		
"	14	Up	iP	06 40 05.9	"	14	Ki	iP _n	20 47 57.6
		Ki	eP	06 39 26				iP ^x	20 48 06.2
		Um	iP	06 39 42.3 C				iSn	20 48 44.2
			i	06 39 50.9				iLg1	20 48 57.1
		Ud	iP	06 40 13.0 C			Sk	i	20 51 41.9
			i	06 40 19.5				iLg1	20 51 47.1
		De	eP	06 40 28			Um	iSn	20 49 56.6
								iLg1	20 50 28.4
								iSg	20 50 37.6
							(cont.)		
							Japan (h = 60 km).		

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

1970				1970			
Apr.	14	(cont.)		Apr.	15	(cont.)	
		Northwest Russia-Norway border region, 69.5°N, 30.0°E. Origin time = 20 46 57. Explosion?				Ud iSg 10 56 12.8 De iPg 10 55 36.9 iSg 10 56 00.1 iRg 10 56 07.7 Origin time = 10 55 00. Probably explosion.	
"	14	Up iP 23 41 40.5 i 23 41 47.8 Ud iP 23 41 57.0 Tadzhik SSR.		"	15	Ki iPn 11 20 46.7 iSn 11 21 46.8 iSg 11 22 12.0 Sk e(Lgl) 11 24 34 iSg 11 24 41.9 Um iSg 11 22 59.1 Ud i(Lgl) 11 25 33.7 De iSg 11 27 08.7 Northwest Russia, 67.3°N, 33.5°E. Origin time = 11 19 29. Explosion?	
"	15	Up iP 00 01 47.9 P Z' 0.1 0.6 Ki iP 00 01 22.0 Sk iP 00 01 50.3 Um iP 00 01 31.4 Ud iP 00 01 56.9 C De iP 00 02 06.2 Ryukyu Islands (h = 80 km).		"	15	Up iP 12 14 53.7 Ud iP 12 15 03.3 Luzon (h = 80 km).	
"	15	Up iP 00 40 56.0 Um iP 00 41 29.4 i 00 41 38.4 Ud iP 00 41 10.2 De iP 00 40 36.0 Turkey (h = N).		"	15	Ki iSn 12 41 38.4 iLgl 12 41 52.1 Um iSn 12 42 19.6 iSg 12 42 50.2 Probably northwest Russia. Explosion?	
"	15	Ud iP 01 29 21.0		"	15	Ki iPn 13 22 10.7 iSn 13 22 58.9 iLgl 13 23 12.1 Probably northwest Russia. Origin time = 13 21 07. Explosion?	
"	15	Up iP 02 47 32.0 Ud eP 02 47 44		"	15	Up iP 13 26 54.6 ipP 13 27 03.7 micr sec P Z' 0.4 0.5 Mx E 6.1 21 Mx N 17 24 Mx Z 9.0 20 Ki iP 13 26 35.1 micr sec P Z' 0.6 1.5 Mx E 9.3 20 Mx N 12 23 Mx Z 14 23 Sk iP 13 26 59.0 C Um iP 13 26 41.7 iS 13 36 52 Ud iP 13 27 03.3	
"	15	Up iP 03 15 52.2 Ud iP 03 15 53.7					
"	15	Ud iP 03 20 49.8					
"	15	Ud iP 03 31 49.9					
"	15	Up iP 04 02 39.7 Ud iP 04 02 44.6 Greece.					
"	15	Up iP 05 52 44.3 Um iP 05 52 39.8 Ud iP 05 53 00.6 C Tadzhik SSR (h = N).					
"	15	Ud iP 07 01 25.5					
"	15	Up i(P) 07 52 47.9 i 07 52 54.6					
"	15	Ud iPg 10 55 44.4 (cont.)					

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

1970

Apr. 15 (cont.)
Ud ipP 13 27 12.8
De iP 13 27 09.9 C
Luzon.
h = 35 km (Up,Ud).
m = 6.7, M = 6.2 (Up,Ki).

" 15 Up iP 13 37 01.0
ipP 13 37 07.1
Ki ipP 13 36 47.7
Sk eP 13 37 06
Um eP 13 36 48
ipP 13 36 54.2
Ud iP 13 37 09.0 C
ipP 13 37 16.4
Luzon.
h = 25 km (Up,Um,Ud).

" 15 Up iP 13 43 23.3 D
Ki iP 13 43 03.9
Um iP 13 43 10.2
Ud iP 13 43 32.1
i 13 44 05.9
Luzon (h = N).

" 15 Sk iP 14 14 14.6 C
Mexico (h = 70 km).

" 15 Ud iP 14 29 20.5 C

" 15 Um iP 16 33 16.7
Ud iP 16 32 53.2
Turkey (h = N).

" 15 Up iP 16 34 47.2
i 16 34 50.9
micr sec
Mx E 1.5 10
Mx N 2.1 13
Mx Z 2.0 13
Ki micr sec
Mx E 1.1 11
Mx N 1.4 12
Mx Z 1.8 12
Sk iP 16 35 35.7 C
Um iP 16 35 20.6
Ud iP 16 35 01.3
De iP 16 34 27.1
Turkey (h = 20 km).
M = 4.9 (Up,Ki).

" 15 Ki iP 16 36 21.5
i 16 36 44.3

" 15 Up iP 16 39 10.7
Sk i(P) 16 39 17.0

1970

Apr. 15 Up eSg 17 20 34
Ki eSg 17 23 05
Sk eSg 17 22 24
Um iSg 17 21 08.2
Ud iSn 17 21 09.7
iLgl 17 21 37.2
De iLgl 17 22 04.7

Esthonia,
59.7°N, 25.6°E.
Origin time = 17 18 25.
Explosion?

" 15 Up iP 17 22 27.9
Um iP 17 22 13.3
Ud iP 17 22 26.3
i 17 22 35.9

" 15 Up iP 17 33 38.1
Um ipP 17 33 32.3
Ud iP 17 33 46.7 C
ipP 17 33 53.8
Luzon.
h = 25 km (Ud).

" 15 Up iP 17 46 16.9
ipP 17 46 24.2
micr sec
Z' 0.1 0.6
Ki eP 17 46 01
Um iP 17 46 04.6
ipP 17 46 11.1
Ud iP 17 46 26.1 C
ipP 17 46 33.4
Luzon.

h = 25 km (Up,Um,Ud).

" 15 Ud i(Sg) 17 57 23.7
De i(Sg) 17 55 26.9

" 15 Up iP 18 27 32.3
Ud iP 18 27 41.3
Luzon.
Origin time = 18 15 03.

" 16 Up iP 01 11 57.3
Um iP 01 12 27.9
Ud iP 01 12 07.2
De iP 01 11 36.4
Turkey (h = 15 km).

" 16 Um iP 01 33 08.6
Ud iP 01 32 59.5
i 01 33 11.8
De iP 01 32 45.4
i 01 32 57.7
Iran-USSR (h = 80 km).
(cont.)

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

1970

Apr. 16

(cont.)

The second phases at Ud,
De may be the correct P,
and the first P may be-
long to another shock in
the same place 12.3 sec
earlier.

" 16 Up iP 02 07 36.9
ipP 02 07 49.8
micr sec
Mx E 1.7 18
Mx N 1.8 18
Mx Z 2.2 17
Ki iP 02 06 59.1
micr sec
Mx E 3.3 17
Mx N 2.5 17
Mx Z 5.3 16
Sk iP 02 07 29.9
Um iP 02 07 15.2 C
ipP 02 07 28.7
Ud iP 02 07 43.7 C
De iP 02 08 05.9

Japan.
h = 50 km (Up,Um).
M = 5.7 (Up,Ki).

" 16 Ud i(P) 04 01 46.0
i 04 01 57.3

" 16 Um iP 04 16 27.2
Ud eP 04 15 30
i 04 15 36.6

" 16 Up iPKP 04 33 01.7
Sk ePKP 04 33 01
Um iPKP 04 32 52.2
Ud iPKP 04 33 05.7
i 04 33 17.8

" 16 Up iP 05 43 21.7
i 05 43 23.6
micr sec
P Z' 0.1 1.0
Mx E 22 19
Mx N 36 19
Mx Z 39 18
Ki iP 05 42 29.4
iX 05 42 47.4
micr sec
P Z' 0.2 1.0
Mx E 36 16
Mx N 28 16
Mx Z 34 16

(cont.)

1970

Apr. 16

(cont.)

Sk iP 05 42 54.2 C
iX 05 43 13.5
Um iP 05 42 57.1
iX 05 43 17.6
Ud iP 05 43 19.0
iX 05 43 38.5
De iP 05 43 42.7
i 05 43 44.8

Alaska (h = 7 km).
m = 5.9, M = 6.7 (Up,Ki).
The phase X appearing in
average 19.3 sec after P,
may be P of another shock
in the same place.

" 16 Ki iP 06 16 57.9
Sk iP 06 17 25.4
Um iP 06 17 26.0

Alaska.
Origin time = 06 07 48.

" 16 Up iPKP 08 08 24.0 C
Sk iPKP 08 08 19.3 C
Um iPKP 08 08 13.5
Ud iPKP 08 08 25.5
i 08 08 36.1

South of Kermadec Islands
(h = 80 km).

" 16 Up iP 10 47 16.2
i 10 47 17.2
iS 10 51 19
micr sec

P Z' 0.5 1.3
Mx E 4.2 11
Mx N 6.4 12
Mx Z 6.1 13

Ki iP 10 48 23.8
iPP 10 49 02.1
micr sec

P Z' 0.1 1.2
PP Z' 0.2 1.3
Mx E 6.9 15
Mx N 4.4 18
Mx Z 6.8 17

Sk iP 10 48 00.1 C
Um iP 10 47 47.9
i 10 47 48.7
iS 10 52 21
Ud iP 10 47 28.9 C
i 10 47 30.5
De iP 10 46 57.2

Turkey (h = 9 km).
m = 5.6, M = 5.4 (Up,Ki).
Double P.

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

1970				1970			
Apr.	16	Up	iP	11 48 15.1	Apr.	16	(cont.)
				micr sec			Sk iP 22 44 43.9
		Mx	E	1.0 13			Um iP 22 44 36.5
		Mx	N	0.9 11			Ud iP 22 44 06.8
		Ki	iP	11 49 22.3			De iP 22 43 30.1
				micr sec			Greece (h = 4 km).
		Mx	E	1.0 14			M = 5.3 (Up,Ki).
		Mx	N	1.0 15			
		Mx	Z	0.9 13	"	16	Sk iP 23 16 59.4
		Sk	iP	11 49 00.2			Um iP 23 16 58.1
		Um	iP	11 48 47.3			Ud eP 23 16 28
			i	11 49 01.7			Greece (h = N).
		Ud	iP	11 48 29.2			
			i	11 48 36.0	"	17	Ki eP 01 37 55
		De	iP	11 47 55.6			Um iP 01 37 14.3
				Turkey (h = 20 km).			Ud iP 01 36 55.9
				M = 4.6 (Up,Ki).			De iP 01 36 22.2
							Turkey (h = N).
"	16	Up	eP	13 04 09	"	17	Ud iP 06 44 27.7
		Um	iP	13 04 41.5			
		Ud	iP	13 04 20.0	"	17	Sk e(Sg) 08 13 21
		De	iP	13 03 48.9			Um i(Sg) 08 13 01.6
				Turkey.			
"	16	Um	iP	15 15 04.5	"	17	Up iP 08 43 35.1
		Ud	iP	15 15 07.9			Ki iP 08 43 15.8
			i	15 15 10.9			Um iP 08 43 22.1
			i	15 15 33.6			Ud iP 08 43 44.0 C
							Luzon (h = 50 km).
"	16	Ki	iP	15 29 53.3	"	17	Up iSn 10 57 34.3
		Um	iP	15 30 10.7			iSg 10 57 52.3
		Ud	iP	15 30 40.7			Um iSg 10 58 20.8
				Japan (h = 70 km).			i 10 58 26.1
"	16	Um	iP	16 01 49.8			Ud iLgl 10 58 53.1
			i	16 01 59.1			De iLgl 10 59 17.0
"	16	Um	i(P)	16 19 49.1			Esthonia.
"	16	Um	iP	17 02 10.1			Origin time = 10 55 40.
"	16	Um	iP	17 02 10.1			Explosion?
"	16	Up	i(P)	18 29 44.3	"	17	De i(Sg) 11 09 21.0
				Gulf of Alaska (h = 15 km).	"	17	Um iP 11 16 03.7
"	16	Up	iP	22 43 57.4			De eP 11 16 35
			i	22 44 11.3	"	17	Ki iPg 11 22 28.8 D
				micr sec			iSg 11 22 51.8
		Mx	E	2.4 10			Sk iSg 11 24 34.8
		Mx	N	3.0 10			Um iSg 11 24 29.8
		Mx	Z	3.7 12			West coast of Norway, near
		Ki	iP	22 45 14.3 C			Lofoten,
				micr sec			68.3°N, 15.9°E.
		Mx	E	2.9 11			Origin time = 11 21 53.
		Mx	N	3.6 9	"	17	Up iP 11 52 51.5
		Mx	Z	5.4 9			i 11 52 56.1
				(cont.)			(cont.)

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

1970				1970				
Apr.	17	(cont.)		Apr.	17	Up	iP	20 32 13.4
		Ki	iP			Um	iP	20 32 47.2
		Um	iP			Ud	iP	20 32 27.3
		Ud	iP				i	20 32 36.7
						De	iP	20 31 53.3
"	17	Up	iP			Turkey (h = N).		
		Um	iP					
		Ud	iP					
		De	iP					
"	17	Ud	iP		17	Sk	eP	21 59 59
		Luzon (h = 45 km).				Um	iP	21 59 55.6
"	17	Up	iP			Ud	iP	22 00 09.8
			ipP			De	iP	22 00 18.6
		Ki	iP		"	Ud	iP	00 05 34.1
		Sk	iP					
		Um	iP		"	Up	iP	05 42 17.1
		Ud	iP				ipP	05 42 43.1
			ipP			Sk	iP	05 43 04.9
		Luzon.				Um	iP	05 42 51.4
		h = 30 km (Up,Ud).				Ud	iP	05 42 30.9
"	17	Ud	iSg			De	iP	05 41 57.0
			iRg			Turkey (h = N).		
		De	iPg		"	Up	iP	05 57 49.7
			iSg				i	05 57 59.3
		Probably off west coast of				Sk	iP	05 58 32.2
		Sweden.				Um	iP	05 58 23.7
		Origin time = 14 33 45.				Ud	iP	05 58 03.9 C
		Probably explosion.				De	iP	05 57 27.5
"	17	Up	eP			Turkey.		
		Ki	iP		"	Up	iP	07 43 47.9
		Um	iP			Ki	iP	07 43 46.8
		Ud	iP			Sk	iP	07 44 00.8
		Luzon (h = N).				Um	iP	07 43 44.5
"	17	De	iP			Ud	iP	07 43 56.4
		Gulf of Alaska (h = 15 km).				Sumatra (h = 90 km).		
"	17	Sk	iP		"	Up	iP	09 00 39.8
		Um	iP				ipP	09 01 03.7
		Ud	iP				iPcS	09 05 15.8
		Mexico (h = N).						micr sec
"	17	Ud	i(P)				P	Z' 0.1 0.6
"	17	Up	iP			Ki	iP	08 59 44.4 C
		Um	iP					micr sec
"	17	Ki	iPKP				P	Z' 0.1 1.2
		Um	iPKP			Sk	iP	09 00 12.8 C
		Ud	iPKP			Um	iP	09 00 13.3
		New Hebrides Islands					ipP	09 00 35.6
		(h = 130 km).				Ud	iP	09 00 36.7
"	17						isP	09 01 11.9
							iPcS	09 05 13.3
						De	iP	09 01 01.6
							i	09 01 02.2
							ipP	09 01 24.2

(cont.)

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

1970					1970				
Apr.	18	(cont.)			Apr.	18	(cont.)		
		De	isP	09 01 36.8			Ud	ipP	20 32 28.1
		Alaska.					De	iP	20 32 35.0
		h = 90 km (Up,Um,De).					Japan.		
		m = 5.8 (Up,Ki).					h = 40 km (Up,Um,Ud).		
"	18	Up	eP	09 30 05	"	18	Up	iP	23 11 26.8
		Um	i(P)	09 30 16.2			Um	eP	23 11 57
		Ud	e(P)	09 30 23				i	23 12 00.0
"	18	Up	iP	12 36 03.0			Ud	iP	23 11 44.3
			i	12 36 20.5			Turkey (h = N).		
		Sk	eP	12 36 50	"	18	Up	iP	23 36 38.9
		Um	iP	12 36 40.4				ipP	23 36 50.9
		Ud	iP	12 36 18.0					micr sec
		De	iP	12 35 44.5			P	Z'	0.1 0.5
		Turkey (h = N).					pP	Z'	0.1 0.6
"	18	Ki	iPn	12 43 07.2			Mx	E	2.4 16
			iSn	12 43 56.1			Mx	N	5.1 17
			iLgl	12 44 11.7			Mx	Z	5.2 18
		Sk	eLgl	12 46 55			Ki	iP	23 35 53.7
		Um	iSn	12 45 03.4				ipP	23 36 05.9
			iS ^x	12 45 18.5					micr sec
			iSg	12 45 39.4			pP	Z'	0.1 1.3
		Northwest Russia,					Mx	E	9.5 17
		68.8°N, 31.3°E.					Mx	N	6.1 16
		Origin time = 12 42 02.					Mx	Z	14 16
		Explosion?					Sk	iP	23 36 30.6
"	18	Ki	iPn	12 49 30.8			Um	iP	23 36 13.8
			iSn	12 50 16.6				ipP	23 36 25.6
			iLgl	12 50 31.8			Ud	iP	23 36 45.2
		Probably northwest Russia.					De	iP	23 37 04.2
		Origin time = 12 48 30.					Kurile Islands.		
		Explosion?					h = 45 km (Up,Ki,Um).		
"	18	Um	iP	16 59 41.6			m = 6.1, M = 6.0 (Up,Ki).		
		Mariana Islands (h = N).			"	18	Up	iP	23 46 34.4
"	18	Up	iP	19 33 49.1				ipP	23 46 46.0
		Ki	iP	19 32 55.3			Ki	eP	23 45 50
		Sk	iP	19 33 25.3			Um	iP	23 46 10.0
		Um	iP	19 33 22.4				ipP	23 46 20.3
		Ud	iP	19 33 47.5 D			Ud	iP	23 46 40.8
			i	19 33 52.2				ipP	23 46 52.2
		De	iP	19 34 10.1			Kurile Islands.		
		Aleutian Islands (h = 50 km).					h = 40 km (Up,Um,Ud).		
"	18	Up	iP	20 32 10.1	"	19	Up	iP	01 25 51.7
			ipP	20 32 21.3					micr sec
		Ki	iP	20 31 25.2 C			P	Z'	0.1 1.0
		Sk	iP	20 32 00.6			Mx	E	1.5 16
		Um	iP	20 31 45.6 C			Mx	N	2.7 19
			ipP	20 31 56.9			Mx	Z	3.7 19
		Ud	iP	20 32 16.4 C			Ki	iP	01 24 57.5 D
		(cont.)							micr sec
							P	Z'	0.4 1.5
							Mx	E	4.6 18
							Mx	N	3.2 16
							Mx	Z	6.1 16
							(cont.)		

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

1970				1970						
Apr.	19	(cont.)		Apr.	19	Up	iP	08 57 21.9		
		Sk	iP			Ki	iP	08 57 23.0		
		Um	iP			Ud	iP	08 57 38.4		
			i			De	iP	08 57 37.8		
			iS			Sinkiang (h = N).				
		Ud	iP							
			i	"	19	Up	iP	10 22 28.0		
		De	iP			Ki	iP	10 21 42.5		
		Gulf of Alaska (h = 20 km).				Sk	iP	10 22 17.9		
		m = 6.0, M = 5.7 (Up,Ki).				Um	iP	10 22 02.7		
"	19	Up	i(P)			Ud	iP	10 22 34.1		
			i			De	iP	10 22 51.9		
		Um	i(P)			Kurile Islands (h = 40 km).				
"	19	Up	iP		19	Up	iP	11 08 26.2		
		Ki	iP			"	19	Ki	iP	11 39 51.9
		Um	iP				19	Ud	iP	11 39 15.6 C
			ipP			Atlantic Ocean (h = N).				
		Ud	iP			"	19	Up	iP	13 34 31.9 C
			ipP					i		13 34 38.8
		Kurile Islands.						iS		13 38 35
		h = 40 km (Um,Ud).								micr sec
"	19	Ki	iPn					P	Z'	3.8 2.0
			iSn					Mx	E	14 13
			iLgl					Mx	N	22 13
		Sk	iLgl					Mx	Z	13 14
		Um	iSn			Ki	iP			13 35 38.9
			iSg				i(PP)			13 36 11.5
		Northwest Russia,								micr sec
		67.6°N, 33.1°E.						P	Z'	0.3 1.5
		Origin time = 04 35 41.						(PP)	Z'	0.7 1.5
		Explosion?						Mx	E	17 13
"	19	Up	iP					Mx	N	10 14
			iPcP					Mx	Z	15 14
						Sk	iP			13 35 16.8
							i			13 35 22.3
						Um	iP			13 35 03.7
							iS			13 39 32
		Ki	iP			Ud	iP			13 34 43.6 C
		Sk	iP				i			13 34 51.9
			iPcP				i(S)			13 39 10.0
		Um	iP			De	iP			13 34 12.2 C
			i				i			13 34 18.6
			iPcP			Turkey (h = 20 km).				
		Ud	iP			m = 6.3, M = 5.7 (Up,Ki).				
			i			Double P.				
			iPcP			"	19	Ki	eSn	13 51 34
		De	iP						iLgl	13 51 59.5
			iPcP					Um	iSg	13 52 47.7
		Kamchatka (h = 110 km).				Probably northwest Russia.				
"	19	Up	iP			Explosion?				
			iPP			"	19	Up	iP	13 52 29.6
		Um	iP			(cont.)				
		Ud	iP							
		Tadzhik SSR (h = N).								

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

1970	Apr. 19	(cont.)			1970	Apr. 20	Up	iPKP	02 28 03.9			
		Up	iS	13 56 31				i	02 28 06.5			
				micr sec				PKP	Z' 0.1 0.5			
			P	Z' 0.7 1.3			Ki	iPKP	02 27 46.7			
			Mx	E 9.2 12			Sk	iPKP	02 27 58.7			
			Mx	N 20 13				i	02 28 03.6			
			Mx	Z 16 13			Um	iPKP	02 27 53.8			
		Ki	iP	13 53 37.7 C				ipPKP	02 28 36.7			
				micr sec			Ud	iPKP	02 28 04.5			
			P	Z' 0.2 1.3				i	02 28 07.7			
			Mx	E 32 18			De	iPKP	02 28 07.7			
			Mx	N 8.0 17				i	02 28 16.6			
			Mx	Z 11 14					South of Kermadec Islands.			
		Sk	iP	13 53 14.3 C					h = 160 km (Um).			
			i	13 53 23.6			"	20	Up	micr sec		
		Um	iP	13 53 01.8					Mx	E 0.7 15		
		Ud	iP	13 52 42.7 C					Mx	N 0.8 20		
		De	iP	13 52 10.9					Ki	micr sec		
				Turkey (h = 25 km).					Mx	E 0.7 15		
				m = 5.9, M = 5.9 (Up,Ki).					Mx	N 0.4 13		
	"	19	Up	iPKP	17 21 07.8				Mx	Z 0.8 16		
				i	17 21 10.3			De	iP	02 28 01.2		
				iSKP	17 23 58.9					Turkey (h = N).		
		Ki	iPKP	17 21 02.5						M = 4.4 (Up,Ki).		
				iSKP	17 23 33.0			"	20	Up	iP	02 38 36.1
		Sk	iPKP	17 21 06.4					Ud	eP	02 38 10	
				i	17 21 12.7			"	20	Up	iP	03 52 32.6
				iSKP	17 23 56.3				Sk	eP	03 53 21	
		Um	iPKP	17 20 59.5					Um	iP	03 53 09.0	
				i	17 21 08.3				Ud	i(P)	03 52 58.8 C	
				iSKP	17 23 46.0						Turkey.	
		Ud	iPKP	17 21 08.8				"	20	Ki	e(P)	06 22 11
				iSKP	17 24 00.3				Um	i(P)	06 22 17.2	
		De	iPKP	17 21 20.2				"	20	Sk	eP	07 24 42
				iSKP	17 24 08.8				Um	iP	07 24 31.0 C	
				Fiji Islands (h = 610 km).					Ud	iP	07 24 11.2	
	"	19	Ki	iP	18 02 27.5				De	iP	07 23 38.0	
			Ud	eP	18 02 10						Turkey (h = N).	
			De	iP	18 01 58.2			"	20	Ki	eP	10 05 37
	"	19	Sk	iP	18 20 44.6				Um	iP	10 05 30.7	
			Um	iP	18 21 00.8				Ud	iP	10 06 22.1	
			Ud	iP	18 20 05.3			"	20	Up	iPKP	10 57 49.6
				Italy.						i	10 58 01.8	
	"	19	Up	iP	22 10 51.5					iSKP	11 01 08.2	
			Sk	eP	22 11 38					eSKKP	11 10 24	
			Um	iP	22 11 24.6						micr sec	
			Ud	iP	22 11 04.6					PKP	Z' 0.1 0.8	
			De	iP	22 10 29.1					SKP	Z' 0.2 1.0	
				Turkey (h = N).							(cont.)	
	"	19	Up	iP	22 14 34.3							
			Um	iP	22 14 51.6							
			Ud	iP	22 14 30.0							

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

1970					1970					
Apr.	20	(cont.)	micr	sec	Apr.	20				
		Up Mx	E	1.4 18			Ki	iLgl	14 13 42.0	
		Mx	N	3.1 19			Um	iSg	14 11 48.7	
		Mx	Z	1.9 20			De	iLgl	14 12 46.6	
		Ki iPKP		10 57 40.4			Esthonia.			
		i		10 57 46.8			Origin time = 14 09 07.			
		i		10 59 04.2			Explosion?			
		iSKKP		11 10 41.6		"	20	Sk eSn	15 20 08	
								iSg	15 20 32.5	
		PKP	Z'	0.3 1.0				Ud iSg	15 20 16.3	
		Mx	E	2.4 18				De iLgl	15 21 08.0	
		Mx	N	2.8 22			West coast of Norway,			
		Mx	Z	3.1 22			60.4°N, 5.9°E.			
		Sk iPKP		10 57 45.7			Origin time = 15 18 08.			
		i		10 57 56.6		"	20	Up iP	15 44 19.6	
		iSKP		11 01 01.3				iS	15 48 21.6	
		iSKKP		11 10 39.7					micr sec	
		Um iPKP		10 57 44.0				P	Z' 0.2 0.5	
		i		10 57 53.3				Mx	E 7.0 14	
		iSKP		11 00 54.4				Mx	N 2.8 13	
		Ud ePKP		10 57 50				Mx	Z 4.1 13	
		i		10 57 55.6				Ki iP	15 45 32.9	
		i		10 58 02.6					micr sec	
		iPP		11 00 38.0				Mx	E 4.9 13	
		iSKP		11 01 10.2				Mx	N 3.4 11	
		De iPKP		10 57 59.3				Mx	Z 4.8 11	
		iPP		11 01 04.6				Sk iP	15 45 00.9	
		iSKP		11 01 19.9				i	15 45 06.0	
		iSKKP		11 10 07.8				Um iP	15 44 58.2	
		New Hebrides Islands						iS	15 49 26	
		(h = 250 km).						Ud iP	15 44 26.6	
		M = 6.2 (Up,Ki).						i	15 44 31.4	
"	20	Um iP		11 26 25.8				iS	15 48 34.8	
"	20	Ki eP		12 19 27				De iP	15 43 51.2	
"	20	Ki iPg		12 27 33.8				i	15 43 52.6	
		iSg		12 28 00.1			Greece (h = 20 km).			
		Sk eSg		12 30 36			M = 5.5 (Up,Ki).			
		Um iSg		12 30 03.7		"	20	Up eP	15 51 56	
		Northwest coast of Norway,				"	20	Ud iP	16 05 29.0	
		69.8°N, 20.0°E.				"	20	Up iP	17 19 50.0	
		Origin time = 12 26 54.						Ki iP	17 19 18.6	
"	20	Ud iPg		12 31 29.8				Sk iP	17 19 46.1	
		iSg		12 31 49.4				Um iP	17 19 32.4	
		De iPg		12 31 40.8				Ud iP	17 19 57.2 D	
		iSg		12 32 09.6				De iP	17 20 09.2	
		Origin time = 12 30 59.						Bonin Islands (h = 480 km).		
"	20	Ud iP		13 01 50.4		"	20	Up eP	18 05 30	
"	20	Up iP		13 34 16.9				Um iP	18 06 02.2 C	
		Um iP		13 34 11.8				Ud eP	18 05 41	
		Ud eP		13 34 26				De eP	18 05 10	
		De eP		13 34 25			Turkey (h = N).			

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

1970				1970									
Apr.	20	Up	iP	18	38	10.1	Apr.	21	(cont.)				
		Ki	iP	18	39	12.7			Um	iP	01	58 40.2	
		Sk	e(P)	18	38	58			Turkey.				
		Um	iP	18	38	42.0							
			i	18	38	46.3		"	21	Up	iPKP	03 38 52.6	
		Ud	iP	18	38	22.7			Um	iPKP	03 38 47.4		
			i	18	38	26.3			Ud	iPKP	03 38 54.2		
		De	iP	18	37	51.3			De	iPKP	03 39 06.3		
		Turkey (h = N). Double P.								Fiji Islands (h = 550 km).			
"	20	Um	iP	18	41	29.9		"	21	Up	iP	04 54 42.1	
		Turkey.									ipP	04 54 54.4	
											P	Z' 0.1 0.7	
									Ki	iP	04 53 56.5		
												micr sec	
"	20	Up	iP	21	34	41.4					P	Z' 0.1 1.0	
		Ki	iP	21	34	26.0					Mx	E 0.6 15	
		Um	iP	21	34	34.1					Mx	N 0.7 18	
		Ud	iP	21	34	56.0 D					Mx	Z 1.0 16	
"	20	Up	iP	21	57	06.7			Sk	iP	04 54 31.9		
			iPP	22	01	30.8			Um	iP	04 54 16.7		
						micr sec			Ud	iP	04 54 47.8 C		
		Mx	E	0.9	19				De	iP	04 55 05.6 C		
		Mx	N	0.7	18				Kurile Islands.				
		Mx	Z	1.5	19				h = 45 km (Up).				
		Ki	iP	21	56	53.4			m = 6.1 (Up,Ki).				
			e(PP)	22	00	50		"	21	Ki	e(P)	05 33 37	
						micr sec				Um	iP	05 33 45.7	
		P	Z'	0.1	1.5						ipP	05 33 57.3	
		Mx	E	1.2	21					Ud	iP	05 34 14.4	
		Mx	N	0.7	18					Japan.			
		Mx	Z	1.8	21					h = 45 km (Um).			
		Sk	iP	21	57	12.2		"	21	Ki	iP	06 53 38.4	
			i(PP)	22	01	10.7				Sk	eP	06 54 04	
		Um	iP	21	56	55.9				Um	iP	06 54 06.5	
			i(PP)	22	00	57.9				Gulf of Alaska (h = 1 km).			
		Ud	iP	21	57	11.2		"	21	Up	iPKP	07 23 19.6	
			i(PP)	22	01	31.7					i	07 24 03.6	
		De	i(PP)	22	01	24.5					PKP	Z' 0.1 0.7	
		Sumba Island (h = N). M = 5.4 (Up,Ki). (PP) denotes early arrivals of PP.								Ki	ePKP	07 23 04	
"	20	Up	iP	23	12	52.8			Um	iPKP	07 23 08.0		
		Um	iP	23	13	25.1			Ud	iPKP	07 23 20.8		
"	21	De	iP	00	08	49.5			Tonga-Kermadec Islands (h = 90 km).				
"	21	Up	iP	01	37	58.5		"	21	Up	iP	07 41 52.7	
		Um	iP	01	38	31.9						micr sec	
		Ud	iP	01	38	15.2				Mx	E	0.6 13	
		De	iP	01	37	39.1				Mx	N	0.6 13	
		Turkey (h = N).								Ki	iP	07 42 59.6	
"	21	Up	iP	01	58	09.0			(cont.)				
		(cont.)											

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

1970				1970			
Apr.	21	(cont.)		Apr.	21		
		Ki	micr sec			Ki	iPg 14 48 02.4
		Mx	E 0.8 14				iSg 14 48 34.6
		Mx	N 0.6 16			Sk	iSg 14 51 16.6
		Mx	Z 1.0 16			Um	iSg 14 50 42.6
		Sk	iP 07 42 38.6 C			Off north coast of Norway, 70.4°N, 21.1°E.	
		Um	iP 07 42 26.1			Origin time = 14 47 14.	
		Ud	iP 07 42 06.5			"	21 Up iP 14 57 21.0
		De	iP 07 41 33.8				Ki iP 14 58 06.7
		Turkey (h = 25 km).					i 14 58 12.7
		M = 4.4 (Up,Ki).					Um iP 14 57 43.8
"	21	Um	iP 07 49 00.0			Turkey.	
"	21	Um	iP 08 35 19.8	"	21	Um	iP 15 11 34.3
"	21	Ud	iP 11 14 54.2			Ud	iP 15 11 40.5
"	21	Ud	iP 12 10 10.3			Nevada.	
		Unimak Island (h = 25 km).				Underground explosion.	
"	21	Ki	iSg 13 03 52.1	"	21	Up	iP 15 37 59.9
		Sk	iSg 13 02 56.7			Um	iP 15 38 36.4
		Um	iSg 13 01 48.5	"	21	Um	eP 17 18 02
		De	eSg 13 02 26			Turkey.	
		Esthonia, 59.3°N, 24.2°E.		"	21	Ki	iSg 17 30 59.9
		Origin time = 12 59 03.				Sk	iSg 17 31 03.9
		Explosion?				Um	iSn 17 31 14.3
"	21	Up	iP 14 25 51.5				iSg 17 31 28.3
		Ki	iP 14 26 36.1			Nordland, Norway, 66.4°N, 14.8°E.	
			micr sec			Origin time = 17 29 31.	
		P	Z' 0.1 1.5			Explosion?	
		Sk	eP 14 26 01	"	21	Up	iP 18 09 08.7
		Um	iP 14 26 13.1			Sk	eP 18 09 51
			i 14 26 20.6			Um	iP 18 09 37.5
		Ud	iP 14 25 44.1				i 18 11 59.7
			i 14 25 49.7			Ud	iP 18 09 20.5
		De	iP 14 25 26.6			Turkey (h = N).	
		North of Ascension Island (h = N).		"	21	Ki	iPKP 21 30 05.0
"	21	Ki	iP 14 41 15.0			Ud	iPKP 21 30 26.7
		Um	iP 14 41 34.3			Solomon Islands (h = 90 km).	
		Nevada.		"	21	Up	iP 22 34 12.1
		Underground explosion.					i 22 34 21.1
"	21	Ki	iPg 14 44 34.5			Um	eP 22 33 58
			iSg 14 45 09.1			Ud	iP 22 34 20.9 C
		Sk	eSg 14 47 46	"	22	Um	iP 04 56 28.2
		Um	iLgl 14 47 16.0			Turkey.	
		Off north coast of Norway, 70.6°N, 19.3°E.		"	22	Up	iP 05 28 59.2
		Origin time = 14 43 45.					micr sec
						P	Z' 0.1 1.0
						(cont.)	

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

1970						1970					
Apr.	22	(cont.)				Apr.	22	Um	iP	12 20 00.0	
		Up		micr	sec			Banda Sea (h = 300 km).			
		Mx	E	1.1	12	"	22	Up	iPKP	12 29 44.0	
		Mx	N	1.7	12			Ud	iPKP	12 29 46.1	C
		Mx	Z	1.9	15			De	iPKP	12 29 56.6	C
		Ki	iP	05 30	06.0						
		i		05 30	44.3						
				micr	sec	"	22	Ki	iPg	13 06 07.9	
		Mx	E	1.5	13				iSg	13 06 53.3	
		Mx	N	0.9	13			Sk	iSg	13 09 33.7	
		Mx	Z	1.4	13			Um	iSn	13 07 35.5	
		Sk	iP	05 29	44.8				iSg	13 08 01.6	
		Um	iP	05 29	31.0	C		Northwest Russia, 68.2°N, 29.8°E. Origin time = 13 04 58. Explosion? The Ki record does not have exactly the same appearance as for explosions in this area, which might suggest that this is a natural event.			
		i		05 29	46.2						
		Ud	iP	05 29	11.3						
		i		05 29	21.8						
		De	iP	05 28	39.3						
		i		05 28	44.8						
		Turkey (h = N).									
		M = 4.8 (Up,Ki).									
"	22	Sk	iLgl	10 04	01.9	"	22	Up	iP	14 01 22.8	
		Ud	iSg	10 03	55.2			Ki	iP	14 01 02.2	
		De	iLgl	10 04	43.0						
		West coast of Norway, 60.4°N, 5.9°E. Origin time = 10 01 41.									
				micr	sec			Mx	E	0.7	15
								Mx	N	0.5	14
								Sk	eP	14 01 25	
								Um	iP	14 01 07.9	
								Ud	iP	14 01 30.2	
								Luzon (h = 30 km).			
"	22	Up	iPKP	10 10	14.0						
		Um	iPKP	10 10	00.9						
		New Hebrides Islands (h = 190 km).									
"	22	Ki	iPn	11 22	45.7	"	22	Up	iP	18 43 45.0	
			iSn	11 23	44.6						
			iLgl	11 24	03.5				P	Z'	0.1 1.0
		Sk	iLgl	11 26	10.5			Ki	iP	18 44 47.8	
		i		11 26	40.7			Sk	iP	18 44 26.1	
		Um	iSg	11 24	41.2			Um	iP	18 44 12.5	
		Northwest Russia, 66.6°N, 32.7°E. Origin time = 11 21 30. Explosion?						i		18 44 18.5	
								Ud	iP	18 43 53.9	
								De	eP	18 43 23	
								Turkey (h = 40 km).			
"	22	Ki	iP	11 52	04.3	"	22	Ud	iP	20 13 31.8	
		Um	iPP	11 56	23.7			Negros (h = 15 km).			
		Sumba Island (h = N).									
"	22	Up	iSg	11 58	37.9	"	23	Up	iP	01 02 26.9	
		Sk	eSg	11 58	37			i		01 02 35.0	
		Um	iSg	12 00	04.7						
		Ud	iPg	11 56	43.6			Mx	E	1.1	15
			iSg	11 57	38.0			Mx	N	1.3	16
		Southwest Norway, 58.5°N, 6.7°E. Origin time = 11 55 30.						Mx	Z	1.2	15
								Ki	iP	01 01 15.9	
								i		01 01 24.2	
								(cont.)			

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

1970				1970				
Apr.	23	(cont.)		Apr.	23	Up	iP	09 06 18.6
		Ki	micr sec				i	09 06 20.8
		P	Z' 0.2 1.0					micr sec
		Mx	E 1.3 14				P	Z' 0.3 1.3
		Mx	N 0.8 12				Mx	E 19 17
		Mx	Z 1.1 13				Mx	N 12 17
		Sk	iP 01 02 02.4				Mx	Z 8.6 12
		i	01 02 10.1			Ki	iP	09 07 27.7
		Um	iP 01 01 50.2					micr sec
		i	01 01 58.4				P	Z' 0.1 1.0
		Ud	iP 01 02 29.8				Mx	E 12 11
		i	01 02 37.3				Mx	N 6.2 13
		De	iP 01 02 58.9 D				Mx	Z 10 12
		i	01 03 07.7			Sk	iP	09 07 01.7
		Arctic Ocean (h = N).					i	09 07 19.4
		M = 4.7 (Up,Ki).				Um	iP	09 06 51.0
"	23	Ud	iP 02 09 53.5				iS	09 11 18
		Leeward Islands (h = 45 km).				Ud	iP	09 06 29.1
"	23	Up	iP 04 34 41.3				i	09 06 32.4
		i	04 34 45.6			De	iP	09 05 56.6
		iS	04 38 41.1				i	09 05 58.8
			micr sec			Turkey (h = 20 km).		
		P	Z' 0.1 0.6			m = 5.6, M = 5.8 (Up,Ki).		
		Ki	iP 04 35 54.2	"	23	Ki	iP	09 59 18.5
		i	04 36 23.5	"	23	Um	iP	11 11 32.1
		Sk	iP 04 35 21.3			Ud	i(P)	11 12 03.8
		Um	iP 04 35 17.8	"	23	Up	iP	11 54 28.6
		Ud	iP 04 34 49.3			Ki	i(P)	11 54 50.6
		i	04 34 54.0			Ud	iP	11 54 17.7
		iS	04 38 56.8				i	11 54 21.8
		De	iP 04 34 13.6			Leeward Islands (h = N).		
		Greece (h = 90 km).		"	23	Up	iP	13 36 51.2
"	23	Ud	iP 05 43 39.3			Um	iP	13 36 39.3
"	23	Up	iP 07 23 28.4 C			Ud	iP	13 37 00.2
			micr sec			Luzon (h = 60 km).		
		Mx	E 1.1 12	"	23	Sk	eP	15 48 58
		Mx	N 1.7 14			Ud	iP	15 49 11.6
		Mx	Z 1.5 16			North Atlantic Ocean (h = N).		
		Ki	iP 07 24 34.7	"	23	Up	iP	18 09 59.6 C
			micr sec					micr sec
		Mx	E 1.3 16				Mx	N 0.8 15
		Mx	N 0.8 15			Ki	iP	18 10 04.6
		Mx	Z 2.0 18				i(PP)	18 11 50.7
		Sk	iP 07 24 12.7					micr sec
		Um	iP 07 23 58.5			P	Z' 0.1 0.8	
		Ud	iP 07 23 40.2			Sk	iP	18 10 23.9
		De	iP 07 23 07.1				iPP	18 12 02.4
		Turkey (h = 15 km).				Um	iP	18 09 56.0
		M = 4.8 (Up,Ki).				Ud	iP	18 10 15.6
"	23	Ki	iP 07 26 09.0			De	iP	18 10 13.4
		New Guinea (h = 120 km).				Tadzhik SSR (h = 45 km).		

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

1970				1970								
Apr.	24	Up	iP	00 29 58.4	D	Apr.	24	(cont.)				
		Ki	iP	00 29 40.5				De	iP	01 28 54.9		
		Sk	iP	00 30 02.2				North Atlantic Ocean (h = 10 km m = 5.8, M = 5.2 (Up,Ki)).				
		Um	iP	00 29 46.4	D							
			ipP	00 30 09.4								
		Ud	iP	00 30 06.4	D	"	24	Sk	iP	01 30 08.0		
			ipP	00 30 32.2				Um	iP	01 30 40.7		
		De	iP	00 30 12.8				Ud	iP	01 30 17.5		
		Leyte.						North Atlantic Ocean.				
		h = 90 km (Um,Ud).						Origin time = 01 24 46.				
"	24	Up	iP	00 44 56.0	C	"	24	Up	iP	01 53 05.2		
			i	00 44 59.1				Sk	iP	01 52 34.3		
				micr	sec			Um	iP	01 53 05.0		
			P	Z'	0.2 1.2				i	01 53 25.0		
			Mx	E	1.1 12			Ud	iP	01 52 44.4		
			Mx	N	2.2 14			De	iP	01 52 58.5		
			Mx	Z	1.1 14			North Atlantic Ocean (h = N).				
		Ki	iP	00 46 04.9		"	24	Sk	iP	01 56 41.1		
			iPP	00 46 40.6				Um	iP	01 57 13.1		
				micr	sec			Ud	iP	01 56 47.8		
			Mx	E	1.3 14			North Atlantic Ocean (h = N).				
			Mx	N	0.7 13							
			Mx	Z	1.4 13			"	24	Up	iP	02 45 08.7
		Sk	iP	00 45 42.6					iPP	02 45 29.9		
		Um	iP	00 45 28.0	C			Ki	iP	02 46 13.8		
		Ud	iP	00 45 09.0				Sk	iP	02 45 50.7		
			i	00 45 19.0				Um	iP	02 45 40.3		
		De	iP	00 44 36.6				Ud	iP	02 45 18.0		
			i	00 44 41.8				De	iP	02 44 47.6		
		Turkey (h = 40 km).						Turkey (h = 5 km).				
		M = 4.8 (Up,Ki).										
"	24	Sk	iP	01 26 39.0		"	24	Um	iP	03 00 07.4		
		Um	iP	01 27 09.0					i	03 00 18.7		
		Ud	iP	01 26 47.7				Ud	eP	03 00 27		
		North Atlantic Ocean						Negros (h = 90 km).				
		(h = N).										
"	24	Up	iP	01 29 03.2		"	24	Ki	eP	03 36 43		
				micr	sec			Um	eP	03 36 36		
			P	Z'	0.2 1.5			Ud	iP	03 36 54.5		
			Mx	E	3.4 20				iPP	03 38 31.8		
			Mx	N	1.8 18			Tadzhik SSR (h = 30 km).				
			Mx	Z	3.9 20			"	24	Um	iP	03 39 05.5
		Ki	iP	01 29 02.9				Turkey.				
				micr	sec			"	24	Sk	iP	05 34 25.1
			P	Z'	0.2 1.5			North Atlantic Ocean (h = N).				
			Mx	E	2.1 13							
			Mx	N	1.7 15			"	24	Um	iP	05 57 27.2
			Mx	Z	4.6 18			Turkey.				
		Sk	iP	01 28 34.7	C							
		Um	iP	01 29 05.0	C			"	24	Ki	iP	06 13 53.1
		Ud	iP	01 28 44.5				Um	eP	06 14 07		
		(cont.)						Banda Sea (h = 35 km).				

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

1970				1970						
Apr.	25	Um	iP	12 11 33.8	Apr.	26	Ki	iPn	10 07 51.5	
		Ud	iP	12 11 59.6				iSn	10 08 44.0	
		Japan (h = 80 km).						iLgl	10 08 58.4	
"	25	Up	iP	12 38 52.2			Um	iSg	10 10 29.8	
		Sk	eP	12 38 32			Probably northwest Russia.			
		Um	iP	12 38 29.2			Origin time = 10 06 42.			
		Ud	iP	12 38 43.2			Explosion?			
"	25	Up	iP	18 05 55.1	"	26	Up	iP	14 31 11.0 C	
		Ud	iP	18 06 04.1				P	Z' 0.5 1.0	
			ipP	18 06 13.2				Mx	E 2.2 17	
		Luzon.						Mx	N 3.1 19	
		h = 35 km (Ud).						Mx	Z 3.1 19	
"	25	Up	iPKP	20 49 04.6			Ki	iP	14 30 17.0 C	
		Um	iPKP	20 49 03.0				P	Z' 0.4 1.2	
		Ud	iPKP	20 49 04.9				Mx	E 2.9 21	
		De	iPKP	20 49 16.2				Mx	N 2.3 17	
		Fiji Islands (h = 600 km).						Mx	Z 3.6 17	
"	26	Up	e(P)	06 45 37			Sk	iP	14 30 51.7 C	
			iP	06 45 43.0				ipP	14 30 59.8	
				micr sec			Um	iP	14 30 43.2 C	
		Mx	E	1.5 20			Ud	iP	14 31 13.0 C	
		Mx	N	1.3 21			De	iP	14 31 35.1 C	
		Mx	Z	1.6 20			Aleutian Islands.			
		Ki		micr sec			h = 30 km (Sk).			
		Mx	E	1.0 14			m = 6.6, M = 5.6 (Up,Ki).			
		Mx	N	0.6 14	"	26	Up	iPKP	15 59 13.1	
		Mx	Z	1.6 16			Ki	iPKP	15 59 06.5	
		Sk	e(P)	06 45 08			Um	iPKP	15 59 12.9	
			iP	06 45 15.6				iPKS	16 02 35.0	
		Um	iP	06 45 43.5			Ud	iPKP	15 59 14.0	
		North Atlantic Ocean (h = N).					De	iPKP	15 59 26.6	
		M = 4.8 (Up,Ki).					Tonga Islands (h = 130 km).			
		(P) denotes a small-amplitude precursor.				"	26	Up	iPKP	17 39 51.2
"	26	Up	iLgl	07 23 35.6			Ki	iPKP	17 39 37.5	
			iSg	07 23 41.0			Sk	iPKP	17 39 48.1	
		Ki	iPn	07 19 28.1			Um	iPKP	17 39 43.2	
			iSn	07 20 28.1			Ud	iPKP	17 39 53.4 C	
			iSg	07 20 53.4			De	iPKP	17 39 59.4	
		Sk	iLgl	07 23 15.6			Santa Cruz Islands (h = 290 km)			
		Um	iSn	07 21 05.0	"	26	Up	iP	21 27 22.1 C	
			iSg	07 21 41.6			Ki	eP	21 27 03	
		Ud	iLgl	07 24 12.6				ipP	21 27 10.7	
		Northwest Russia,					Sk	epP	21 27 35	
		67.4°N, 33.5°E.					Um	iP	21 27 08.8	
		Origin time = 07 18 10.					Ud	iP	21 27 31.1 C	
		Explosion?						ipP	21 27 38.5	
"	26	Ud	iP	08 12 41.8			Luzon.			
		De	iP	08 12 52.8 C			h = 30 km (Ki,Ud).			

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

1970				1970			
Apr.	27	(cont.) De iP Turkey (h = N). M = 4.6 (Up,Ki).	22 29 18.4 C	Apr.	28	Sk iSg Um iSg Probably Esthonia. Explosion?	14 16 55.5 14 15 43.0
"	28	Up iPKP Mx E Mx N Mx Z Ki iPKP Mx E Mx N Mx Z Sk iPKP Um iPKP iPP Ud iPKP De iPKP i Solomon Islands (h = 3 km). M = 5.5 (Up,Ki).	00 48 13.5 micr sec 0.6 15 0.7 18 1.2 19 00 48 01.1 micr sec 0.6 14 0.6 17 1.1 17 00 48 11.9 00 48 06.8 00 49 11.2 00 48 14.5 00 48 20.1 00 48 22.0	"	28	Up iP ipP Ki eP Um iP Ud iP ipP Luzon. h = 30 km (Up,Ud).	14 41 38.2 14 41 46.4 14 41 21 14 41 26.1 14 41 47.0 14 41 55.1
"	28	Um iP Ud iP Afghanistan-USSR (h = 40 km).	18 50 36.0 18 50 56.5	"	28	Ud iP Halmahera (h = 45 km).	20 24 53.9
"	28	Um iP De i(P)	20 58 57.3 20 58 46.5	"	28	Up iP Ki iPKP Sk iPKP Um iPKP Ud iPKP De iPKP Solomon Islands (h = 5 km).	06 06 02.3 micr sec P Z' 0.1 0.5 Mx N 1.1 18 Mx Z 1.7 18 06 05 16.9 micr sec P Z' 0.1 1.0 Mx E 1.4 17 Mx N 1.4 18 Mx Z 2.6 18
"	28	Up iP Ud iP De iP Greece.	02 35 46.0 02 35 50.5 02 35 15.7	"	28	Sk eP iPcP Um iP Ud iP De iP Kurile Islands (h = 50 km). m = 6.1, M = 5.3 (Up,Ki).	06 05 53 06 06 19.1 06 05 37.4 06 06 08.7 D 06 06 25.7
"	28	Up iP Ki iP Sk iP Um iP Ud iP De iP Red Sea (h = 5 km).	03 27 20.5 03 28 18.8 C 03 27 58.8 C 03 27 47.4 C 03 27 31.0 C 03 27 03.8	"	29	Up iP i Mx E Mx N Mx Z Ki iP Mx E Mx N Mx Z (cont).	11 35 21.3 11 35 58.9 micr sec 17 21 8.9 20 27 21 11 35 09.3 micr sec 27 20 12 21 34 21
"	28	Up iP Ud iP Luzon (h = 60 km).	04 24 59.8 04 25 04.0	"	28	Um iP i Ud iP	08 40 27.6 08 40 37.9 08 40 39.4 C
"	28	Um e(P) Ud iP	12 56 27 12 56 31.3				

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

1970

Apr. 29 (cont.)
 Sk iP 11 35 02.1
 Um iP 11 35 17.1
 i 11 35 32.8
 Ud iP 11 35 10.2
 i 11 35 15.2
 De iP 11 35 21.0
 Mexico (h = 40 km).
 M = 6.6 (Up,Ki).

" 29 Sk iP 11 55 05.0
 Um iP 11 55 21.7
 Ud iP 11 55 14.3
 Mexico (h = N).

" 29 Up iP 12 11 30.8 C
 P Z' 0.1 1.0
 Ki iP 12 10 37.8 C
 Sk iP 12 11 26.5
 i 12 11 34.5
 Um iP 12 11 03.6 C
 i 12 11 17.4
 Ud iP 12 11 32.2
 Aleutian Islands (h = 50 km).

" 29 Sk iP 12 19 59.4
 Um iP 12 20 14.3
 Mexico (h = N).

" 29 Ki iPn 12 54 23.8
 iSn 12 55 11.5
 iSg 12 55 30.2
 Sk iLgl 12 58 06.7
 Um iSg 12 56 58.0
 Northwest Russia,
 69.1°N, 31.0°E.
 Origin time = 12 53 20.
 Explosion?

" 29 Up iP 14 14 04.0
 Sk iP 14 13 45.6 C
 Um iP 14 14 01.2
 Ud iP 14 13 54.0
 Mexico (h = N).

" 29 Up iP 14 14 18.2
 i 14 14 35.2
 P Z' 0.1 0.8
 Mx E 90 20
 Mx N 63 20
 Mx Z 130 20
 Ki iP 14 14 07.3 C
 i 14 14 24.4
 (cont.)

1970

Apr. 29 (cont.)
 Ki micr sec
 Mx E 160 19
 Mx N 64 17
 Mx Z 230 20
 Sk iP 14 13 59.0
 i 14 14 16.8
 Um iP 14 14 13.4
 i 14 14 30.9
 Ud iP 14 14 09.1
 i 14 14 25.6
 De iP 14 14 14.2
 i 14 14 33.7
 Mexico (h = N).
 M = 7.4 (Up,Ki).
 The phase appearing in average
 17.6 sec after P may be the
 P of another shock in the same
 place.
 These Mexican shocks are
 characterized by exceptionally
 long periods of P on our Z'
 records.

" 29 Ud iP 14 53 30.6
 De iP 14 53 07.4
 Dodecanese Islands.

" 29 Sk iP 15 00 49.0
 Um iP 15 01 04.5
 Mexico.
 Origin time = 14 48 24.

" 29 Sk iP 15 04 25.3
 Mexico (h = N).

" 29 Up iP 15 12 49.7

" 29 Up iP 16 21 01.5
 Sk eP 16 20 43
 Um iP 16 20 58.4
 Ud iP 16 20 51.4
 Mexico.
 Origin time = 16 08 17.

" 29 Up iP 16 48 59.0
 Ki iP 16 48 42.8
 Sk iP 16 49 03.6
 Um iP 16 48 47.8
 Ud iP 16 49 07.1
 Mindanao (h = 650 km).

" 29 Sk iP 17 08 52.5
 Um iP 17 09 09.9
 Mexico (h = N).

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

1970				1970				
Apr.	30	(cont.)		Apr.	30	Up	iP	13 04 25.3
		Ki	iP					micr sec
		Sk	iP			Mx	E	2.3 20
		Um	iP			Mx	N	1.7 21
			i			Mx	Z	3.2 20
		Ud	iP			Ki	iP	13 04 13.9
		West Pakistan (h = 40 km).						micr sec
"	30	Ki				P	Z'	0.4 2.0
			Mx			Mx	E	4.1 20
		Um	iP			Mx	N	2.3 20
		Mexico (h = N).				Mx	Z	5.7 21
"	30	Ki				Sk	iP	13 04 07.4
			Mx			Um	iP	13 04 22.2
		Sk	iP			Ud	iP	13 04 16.1
			i			De	iP	13 04 25.0
		Um	iP			Mexico (h = 25 km).		
		Ud	iP			M = 5.9 (Up,Ki).		
		De	iP	"	30	Up	i(P)	13 33 46.6
		Mexico (h = N).					iP	13 33 51.8
"	30	Um	iP					micr sec
						Mx	E	1.6 21
"	30	Up	eP			Mx	N	1.7 21
			i			Mx	Z	1.9 20
			iS			Ki	iP	13 33 40.4
								micr sec
			Mx			P	Z'	0.3 2.0
			E			Mx	E	2.6 20
			N			Mx	N	1.2 19
			Z			Mx	Z	4.0 19
		Ki	iP			Sk	iP	13 33 34.0
							ipP	13 33 43.9
						Um	iP	13 33 48.8
						Ud	iP	13 33 43.2
						De	iP	13 33 49.4
						Mexico.		
						h = 35 km (Sk).		
						M = 5.7 (Up,Ki).		
"	30	Up	iP	"	30	Up	iP	14 51 52.6 D
							ipP	14 52 49.8
								micr sec
						P	Z'	0.2 0.7
						Ki	iP	14 51 25.0 D
								micr sec
						P	Z'	0.1 1.0
						Sk	iP	14 51 54.2
						Um	iP	14 51 35.4 D
							i	14 51 51.0
						Ud	iP	14 52 01.3 D
						De	iP	14 52 11.3 D
							i	14 52 23.9
						East Chinese Sea.		
						h = 240 km (Up).		
						m = 5.8 (Up,Ki).		
"	30	Sk	iP					
			i					
		Um	iP					
		Ud	iP					
		Mexico (h = N).						
"	30	Ki	iPKP					
		Solomon Islands (h = 90 km).						

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

1970						1970					
Apr.	30	Up	eP	15 01 51		Apr.	30	Up	iP	18 34 33.5	
"	30	Up	iP	15 03 14.6				Ki		micr sec	
				micr sec				Mx	E	0.8 18	
			Mx	E 0.7 10				Mx	N	0.5 16	
			Mx	N 0.8 13				Mx	Z	1.0 18	
			Mx	Z 0.9 15				Sk	iP	18 34 15.5	
		Ki	eP	15 04 22				Um	iP	18 34 31.0 C	
			iPn	15 04 45.4				Ud	iP	18 34 23.6	
				micr sec				Mexico (h = 20 km).			
			Mx	E 0.6 14		"	30	Ki	iP	19 43 06.1	
		Sk	iP	15 03 59.2				Sk	eP	19 42 57	
		Um	iP	15 03 45.5 C				Ud	iP	19 43 08.4	
		Ud	iP	15 03 27.3				Mexico (h = 25 km).			
			i	15 03 29.6		"	30	Sk	iP	21 24 37.8 C	
		De	iP	15 02 52.4				Um	iP	21 24 54.1	
		Turkey (h = 25 km).						Ud	iP	21 24 47.5	
		M = 4.4 (Up,Ki).						Mexico (h = 20 km).			
"	30	Sk	iP	15 57 44.0		"	30	Up	iP	22 05 58.0	
		Mexico (h = N).						Ki	iP	22 05 49.4	
"	30	Up	iP	16 49 36.6						micr sec	
				micr sec				Mx	E	0.9 19	
			Mx	E 1.2 11				Sk	iP	22 05 38.8 C	
			Mx	N 1.3 13				Um	iP	22 05 55.3	
			Mx	Z 1.2 13					i	22 06 03.5	
		Ki	iP	16 50 42.6				Ud	iP	22 05 47.8	
			iPn	16 51 05.8				Mexico (h = 40 km).			
				micr sec		"	30	Up	iP	22 09 14.9	
			Mx	E 1.3 16				Ki	iP	22 09 01.5	
			Mx	N 0.8 14				Sk	iP	22 08 56.6	
			Mx	Z 1.3 14				Um	iP	22 09 12.4 C	
		Sk	iP	16 50 23.0				Ud	iP	22 09 04.3	
		Um	iP	16 50 09.1				Mexico (h = N).			
		Ud	iP	16 49 49.3							
			i	16 49 54.4							
		De	iP	16 49 17.4							
		Turkey (h = 25 km).									
		M = 4.7 (Up,Ki).									
"	30	Up	eP	18 21 50							
			ipP	18 22 10.6							
		Ki	eP	18 21 27							
		Um	eP	18 21 34							
			ipP	18 21 53.8							
		Ud	iP	18 22 00.8							
			i(pP)	18 22 17.0							
		De	e(pP)	18 22 28							
		Formosa.									
		h = 80 km (Up,Um).									

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March 19, 1971

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SEISMOLOGICAL BULLETIN

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

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

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

M A Y 1 - 31, 1970
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1970				1970			
May	1	Up	iP	00 04 02.9	May	1	(cont.)
		Ki	iP	00 05 09.7			De iP
			iPn	00 05 34.0			03 34 56.4
		Sk	iP	00 04 47.5			Luzon.
		Um	iP	00 04 34.8 C			h = 35 km (Up,Ud).
			i	00 04 36.1			m = 5.9, M = 5.7 (Up,Ki).
		Ud	iP	00 04 14.2 C	"	1	Up iP
			i	00 04 16.2			03 54 37.6 C
		De	iP	00 03 42.2			Ki iP
		Turkey (h = N).					03 54 25.8
							Sk iP
							03 54 51.8
							Um iP
							03 54 22.4 C
"	1	Up	iP	01 12 14.6			i
		Ki	iP	01 12 01.2			03 54 39.8
		Um	iP	01 12 03.9			Ud iP
		Ud	iP	01 12 26.7 C			03 54 53.4 C
							De iP
							03 55 01.3
							Kazakh-Sinkiang (h = N).
"	1	Ud	iP	02 10 42.2	"	1	Up iP
		Venezuela (h = 25 km).					04 20 54.3
							Ki iP
							04 20 43.6
							Sk iP
							04 20 36.3 C
"	1	Up	iP	03 34 38.8			Um iP
			ipP	03 34 49.4			04 20 51.2
				micr sec			Ud iP
							04 20 43.0
		P	Z'	0.1 0.9			De iP
		Mx	E	2.1 22			04 20 52.0
		Mx	N	2.2 18			Mexico (h = 35 km).
		Mx	Z	2.9 18	"	1	Up eP
		Ki	iP	03 34 19.7			04 59 47
				micr sec			Um iP
							04 59 46.4
							i
							04 59 54.1
							Ud iP
							04 59 39.2
							i
							04 59 48.3
							Mexico.
							Origin time = 04 47 05.
		Sk	iP	03 34 44.4	"	1	Up iP
		Um	iP	03 34 25.6			06 02 38.2
			iS	03 44 30			i
							06 02 47.4
		Ud	iP	03 34 47.6 C	"	1	Up iP
			ipP	03 34 55.6			06 46 38.6
							Ki iP
							06 46 27.4
		(cont.)				(cont.)	

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

1970				1970				
May	1	(cont.)		May	1	Up	iP	11 15 15.6
		Sk	iP			Sk	iP	11 14 54.9
		Um	iP			Um	iP	11 15 10.3
		Ud	iP			Ud	iP	11 15 03.3
		Mexico (h = 70 km).				Mexico (h = N).		
"	1	Ki	iPn	"	1	Um	iP	11 44 17.2
			iSn			Mexico (h = 70 km).		
			iSg					
		Um	iSn	"	1	Ud	iP	12 28 49.0
			iSg			Mindanao (h = 90 km).		
		Probably northwest Russia- Finland border region. Origin time = 07 53 14. Explosion?		"	1	Ud	iP	14 24 41.1
						Nevada. Underground explosion.		
"	1	Up	iP	"	1	Up	iP	17 37 05.5
		Ki	iP			Sk	iP	17 36 47.0
		Sk	iP			Um	iP	17 37 02.2
		Um	iP			Ud	iP	17 36 55.8
		Ud	iP			Mexico (h = 45 km).		
		De	eP					
		Mexico (h = 50 km).		"	1	Up	iP	20 16 15.7
"	1	Up	iP					micr sec
						Mx	E	1.1 20
		Mx	E			Mx	N	1.2 20
		Mx	N			Mx	Z	1.9 20
		Mx	Z			Ki	eP	20 16 02
		Ki	iP					micr sec
						Mx	E	2.2 20
						Mx	N	1.3 20
		P	Z'			Mx	Z	2.8 19
		Mx	E			Sk	iP	20 15 56.0
		Mx	N			Um	iP	20 16 12.8
		Mx	Z				iS	20 26 45
		Sk	iP			Ud	iP	20 16 06.7
		Um	iP			De	iP	20 16 13.5
			iS			Mexico (h = 40 km).		
		Ud	iP			M = 5.5 (Up,Ki).		
		De	eP					
		Mexico (h = 45 km).		"	1	Up	iP	20 46 47.5 C
		M = 5.6 (Up,Ki).					ipP	20 46 58.4
"	1	Um	i(P)					micr sec
						P	Z'	0.1 0.8
"	1	Ki	iPKP			Ki	iP	20 46 02.1
		Um	iPKP				ipP	20 46 13.8
		New Hebrides Islands (h = 45 km).						micr sec
						P	Z'	0.1 1.2
"	1	Ud	iP			Sk	iP	20 46 37.8
							ipP	20 46 48.6
"	1	Up	iP			Um	iP	20 46 22.9 C
		Um	iP				ipP	20 46 34.3
		Ud	iP			Ud	iP	20 46 53.2 C
							ipP	20 47 04.4
		Ud	iP			De	iP	20 47 10.9
						(cont.)		

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

1970				1970					
May	1	(cont.)		May	2	Um	iP	05 21	59.8
		De	ipP			Ud	iP	05 22	30.0
			20 47 22.1						
		Japan.							
		h = 40 km (Up,Ki,Sk,Um,Ud,De). "			2	Up	iP	05 28	29.0
		m = 6.0 (Up,Ki).				Ki	eP	05 28	17
"	1	Ki	iP				i	05 28	32.9
		Alaska (h = 30 km).							micr sec
						Mx	E	0.8	19
						Mx	Z	1.8	21
"	1	Up	iP			Sk	iP	05 28	10.9
			i			Um	iP	05 28	26.1
			21 11 34.2			Ud	iP	05 28	16.9
			21 11 45.0			De	iP	05 28	27.1
"	1	Um	iP			Mexico (h = N).			
		Ud	iP						
		Indian Ocean (h = N).							
			21 37 52.4						
			21 37 54.1						
"	1	Up	iP		"	2	Up	iP	05 36 42.7
			21 41 10.8				Um	iP	05 36 35.8
						Mexico (h = N).			
"	1	Up	iP						
		Um	iP						
		Ud	iP		"	2	Um	iP	06 19 04.9
		De	iP						
		USSR-Mongolia.							
			22 07 49.4						
			22 07 28.3						
			22 08 03.2 C						
			22 08 15.5 C		"	2	Ud	iP	06 55 45.6
"	1	Up	iP						
		Sk	eP						
		Um	iP						
		Mexico (h = 30 km).			"	2	Um	i(P)	11 59 05.2
			22 53 51.1						
			22 53 32						
			22 53 48.1		"	2	Up	iP	18 01 33.3
"	1	Ki	iPKP				ipP	18 01 41.8	
		Um	iPKP						micr sec
		De	iPKP				P	Z'	0.1 0.6
		Solomon Islands (h = 70 km).				Ki	iP	18 01 13.9 C	
			23 51 11.0			Um	iP	18 01 20.7	
			23 51 17.1				ipP	18 01 29.5	
			23 51 32.0			Ud	iP	18 01 42.6 C	
"	2	Up	iP				ipP	18 01 50.8	
		Um	eP			Luzon.			
			i			h = 30 km (Up,Um,Ud).			
		Mexico (h = N).							
			00 16 46.8		"	2	Up	iP	20 05 02.7
			00 16 40				Um	iP	20 04 40.4
			00 16 43.2			Sea of Japan (h = 280 km).			
"	2	Up	iP						
			02 19 44.4						
			micr sec						
		Mx	E		"	2	Um	iPKP	23 36 33.8
		Mx	N			South Sandwich Islands			
		Mx	Z			(h = 80 km).			
		Ki	iP						
			02 19 30.5 C		"	3	De	iPKP	01 45 33.0
			micr sec			Tonga-Kermadec Islands			
						(h = 160 km).			
		Mx	E						
		Mx	N		"	3	Up	iP	04 21 22.8
		Mx	Z				Sk	iP	04 21 58.5 C
		Sk	iP				Um	iP	04 22 09.7
		Um	iP				Ud	iP	04 21 20.0
			02 19 24.8 C			Italy.			
			02 19 41.3						
			02 30 11						
		Ud	iP						
		De	iP						
		Mexico (h = 30 km).							
		M = 5.5 (Up,Ki).							

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

1970				1970			
May	3	Up	iP	04 30 39.2	May	3	(cont.)
			iPcP	04 31 03.9			Sk iP 09 19 36.9
		Ki	iP	04 29 54.4			Um iP 09 19 52.0
		Sk	iP	04 30 29.1			Mexico (h = N).
		Um	iP	04 30 14.6			
		Ud	iP	04 30 45.8	"	3	Ki iP 11 01 05.6
			iPcP	04 31 10.4			Sk iP 11 01 56.3
		De	iP	04 31 02.9			Um iP 11 01 58.7
		Kurile Islands (h = 60 km).					i 11 02 07.3
"	3	Up	iP	04 47 50.6			Ud iP 11 02 44.6
		Um	iP	04 48 22.6			Greenland Sea (h = N).
		Ud	iP	04 48 08.3	"	3	Up iPKP 14 35 43.7
"	3	Um	iP	05 27 36.2			Ki iPKP 14 35 27.2
		Banda Sea (h = 530 km).					Sk iPKP 14 35 38.3
"	3	Up	iPKP	06 49 44.3 C			Um iPKP 14 35 33.9
			ipPKP	06 50 11.6			Ud iPKP 14 35 45.5
				micr sec	"	3	Sk eP 19 04 28
			PKP	Z' 0.1 0.5			Um iP 19 04 22.2
		Um	iPKP	06 49 32.9	"	4	Up iSg 04 43 59.0
		Ud	iPKP	06 49 45.8 C			Sk iPg 04 42 49.8
			ipPKP	06 50 12.2			e 04 43 14
		De	iPKP	06 49 55.8			iSg 04 43 15.8
		Tonga-Kermadec Islands.					Um iSg 04 44 33.9
		h = 100 km (Up,Ud).					Ud i(Pg) 04 42 47.8
"	3	Up	iP	07 22 01.0			iSg 04 43 06.2
		Ki	iP	07 21 51.8			De eSg 04 44 52
		Sk	iP	07 21 43.2			Norway,
		Um	iP	07 21 58.7			61.6°N, 11.6°E.
		Mexico (h = N).					Origin time = 04 42 07.
"	3	Ki	iP	07 51 58.3	"	4	Um iP 05 57 24.4
		Mexico (h = N).					Ud iP 05 57 54.1
"	3	Up	iP	09 07 45.2			Japan (h = 50 km).
		Ki	iP	09 07 10.8	"	4	Sk iP 07 11 59.4
			i	09 07 13.8			i 07 12 07.7
		Sk	iP	09 07 40.7			Um iP 07 12 14.9
		Um	iP	09 07 25.6			i 07 12 22.7
		Ud	iP	09 07 52.2			Mexico (h = N).
			ipP	09 08 17.8	"	4	Up iP 07 18 05.4
		South of Japan.					micr sec
		h = 90 km (Ud).					P Z' 0.1 1.3
"	3	Ki	iP	09 16 44.8			Ki iP 07 17 12.7
		Sk	iP	09 16 37.1			ipP 07 17 26.4
		Um	iP	09 16 53.7			Um iP 07 17 38.3
		Mexico (h = 60 km).					Ud iP 07 18 06.0
"	3	Up	iP	09 19 55.3			De iP 07 18 27.8
		Ki	eP	09 19 42			Aleutian Islands.
		(cont.)					h = 50 km (Ki).

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

1970				1970						
May	4	Up	Mx	08 56	May	4	Up	iP	14 38 11.7	
				micr sec						
			Mx	E 1.0 21	"	4	Up	ePP	19 12 53	
			Mx	N 1.3 21					micr sec	
			Mx	Z 1.4 18			Mx	E 1.3 17		
		Ki	Mx	08 52			Mx	N 2.9 18		
				micr sec			Mx	Z 2.3 18		
			Mx	E 1.0 21		Ki	ePKP	19 12 06		
			Mx	N 0.7 20			i	19 12 15.2		
			Mx	Z 1.8 21				micr sec		
		New Hebrides Islands					Mx	E 3.1 18		
		(h = 15 km).					Mx	N 2.5 17		
		M = 5.7 (Up,Ki).					Mx	Z 4.1 18		
"	4	Up	iPKP	11 43 50.9		Um	iPKP	19 12 01.0		
		Ki	iPKP	11 43 36.7			i	19 12 10.1		
			iSKP	11 46 46.9			iPKKP	19 22 36		
				micr sec			Indian Ocean (h = N).			
			SKP	Z' 0.1 1.3			M = 6.0 (Up,Ki).			
		Sk	e(PKP)	11 43 39	"	4	Up	iPKP	20 40 04.7	
			iPKP	11 43 46.6			Um	iPKP	20 39 56.5	
		Um	iPKP	11 43 42.3				i	20 40 04.6	
			iSKP	11 46 58.6			Ud	iPKP	20 40 04.6	
		Ud	i(PKP)	11 43 42.9			De	ePKP	20 40 13	
			iPKP	11 43 51.6				i	20 40 15.5	
			iSKP	11 47 13.6			Fiji Islands (h = 440 km).			
		De	iPKP	11 43 52.9	"	4	Ki	iPg	21 27 34.3	
			iSKP	11 47 22.3				iSg	21 27 38.2	
		Loyalty Islands (h = 140 km).					Sk	e	21 30 26	
"	4	Up	iP	12 21 33.1	"	4	Up	iP	21 29 30.6	
				micr sec			Ki	i(P)	21 29 21.7	
			P	Z' 0.1 1.0				i	21 29 35.5	
		Ki	iP	12 21 13.7 C		"	4	Up	iP	22 21 30.0
			ipP	12 21 19.7			Ki	iP	22 20 47.1	
				micr sec			Um	iP	22 21 05.1	
			P	Z' 0.1 1.2				ipP	22 21 16.7	
		Sk	eP	12 21 38			Ud	iP	22 21 35.7 C	
		Um	iP	12 21 20.2 C			Japan.			
			ipP	12 21 27.2			h = 45 km (Um).			
		Ud	iP	12 21 41.5	"	4	Up	iP	22 40 24.9	
			ipP	12 21 48.9				i	22 40 31.8	
		De	iP	12 21 48.3 C			Ud	iP	22 40 14.8	
			ipP	12 21 54.8			De	i(P)	22 41 29.5	
		Luzon.				"	5	Up	iP	01 33 52.4
		h = 25 km (Ki,Um,Ud,De).					Ki	iP	01 33 15.7	
		m = 5.9 (Up,Ki).						i	01 33 36.4	
"	4	Um	iP	12 33 48.6			Um	iP	01 33 31.6	
		South of Japan.					Ud	iP	01 33 59.1 C	
"	4	Ki	iP	13 53 15.6				i	01 34 12.1	
		Um	iP	13 52 42.2			De	eP	01 34 13	
		Ud	iP	13 52 28.2			South of Japan (h = N).			
			i	13 52 57.1						
		De	iP	13 52 01.5						

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

1970				1970							
May	6	Ki	iPn	13 14	21.8	May	7	Ki	iP	04 44	05.7
			iSn	13 15	09.1			Um	eP	04 44	18
			iLgl	13 15	23.3				i	04 44	28.5
Probably northwest Russia. Origin time = 13 13 20. Explosion?				Volcano Islands (h = N).							
"	6	Ki	iPn	13 49	37.3	"	7	Up	ePP	10 30	28
			iP ^x	13 49	45.2			Ecuador (h = 80 km).			
			iSn	13 50	22.4	"	7	Um	iP	10 53	35.8
			iSg	13 50	36.7	"	7	Sk	iP	15 57	59.2
		Sk	iLgl	13 53	03.7				i	15 58	09.4
		Um	iSn	13 51	04.7	Mexico (h = N).					
			iSg	13 51	34.7	"	7	Ki	iP	18 56	49.4
Northwest Russia-Finland border region, 67.5°N, 30.1°E. Origin time = 13 48 37. Explosion?				Sk iP 18 56 43.5							
								Um	iP	18 56	58.6
								Ud	iP	18 56	52.1
				Mexico (h = 50 km).							
"	6	Up	iP	15 33	29.3	"	7	Up	iP	19 30	32.4
			i	15 33	38.1				i	19 30	50.2
								Ki	iP	19 30	09.6
			P	Z'	0.2 0.9			Sk	eP	19 30	31
			Mx	E	0.8 20			Um	iP	19 30	14.7
			Mx	N	1.5 24	Halmahera (h = 110 km).					
			Mx	Z	1.4 21	"	7	Up	iP	20 42	25.5 C
		Ki	iP	15 33	31.1			Sk	eP	20 43	08
			i	15 33	39.5			Um	iP	20 43	04.9
								Ud	iP	20 42	35.7 C
						Ionian Islands.					
			Mx	E	0.6 15	"	8	Up	iP	01 49	16.8
			Mx	N	1.2 19	"	8	Up	iP	02 16	25.6
			Mx	Z	1.1 17			Um	iP	02 16	00.4
		Sk	iP	15 33	46.9			Ud	iP	02 16	31.6 C
			i	15 33	55.5	Kurile Islands (h = 60 km).					
		Um	iP	15 33	26.4	"	8	Up	iP	02 54	11.3
			i	15 33	35.0						
		Ud	iP	15 33	40.5			Mx	E	0.5 10	
			i	15 33	49.5			Mx	N	0.7 12	
		De	iP	15 33	38.7 C			Mx	Z	0.7 12	
			i	15 33	47.8			Ki	iP	02 55	17.7
Nicobar Islands (h = N). M = 5.3 (Up,Ki). The second phase exhibits much higher frequency than the first one and is probably P of another shock in nearly the same place.											
"	6	Up	iP	19 59	31.3						
		Sk	i(P)	19 59	30.0						
"	6	Um	iP	21 07	34.7						
		De	iP	21 06	42.0						
Turkey (h = 40 km).				Turkey (h = 30 km). M = 4.5 (Up,Ki).							

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

Year	Month	Day	Time	Station	Phase	Time	Year	Month	Day	Time	Station	Phase	Time	
1970	May	8	05 26 32.1	Um	i(P)		1970	May	8	12 34 56.7	Up	iSg		
"	"	8	07 03 58.0	Up	iP		"	"	8	12 37 19	Ki	eSg		
"	"	8	07 05 01.0	Ki	iP		"	"	8	12 36 39.4	Sk	iSg		
"	"	8	07 04 42.1	Sk	iP		"	"	8	12 35 21.8	Um	iSg		
"	"	8	07 04 27.4	Um	iP		"	"	8				Esthonia.	
"	"	8	07 04 10.3	Ud	iP		"	"	8				Origin time = 12 32 41.	
"	"	8	07 03 34.7	De	iP		"	"	8				Explosion?	
"	"	8				Turkey (h = 35 km).	"	"	8	13 32 46.1	Up	i(PP)		
"	"	8	10 11 42.6	Um	iP		"	"	8	13 31 44.8	Ki	iPKP		
"	"	8	10 11 47.5	i		Turkey.	"	"	8	13 32 25.6	Um	i(PP)		
"	"	8	10 15 22.8	Up	iP		"	"	8				D'Entrecasteaux Islands	
"	"	8	10 15 55.7	Um	iP		"	"	8				(h = 5 km).	
"	"	8				Turkey.	"	"	8				(PP) denotes early arrivals	
"	"	8	11 17 48.5	Up	iP		"	"	8	14 06 21.5	Sk	iP		of PP.
"	"	8	11 18 01.7	Sk	iP		"	"	8	14 06 08.9	Um	iP		
"	"	8				Tibet (h = 35 km).	"	"	8	15 53 50.8	Um	iP		Turkey (h = 25 km).
"	"	8	11 22 21.2	Ki	iPg		"	"	8	15 54 21.4	Ud	iP		
"	"	8	11 22 44.4	iSg			"	"	8				Kurile Islands (h = 100 km).	
"	"	8	11 24 20.4	Um	iSg		"	"	8	17 52 42.3	Ki	iP		
"	"	8				Northwest coast of Norway,	"	"	8	17 52 42.4	Um	iP		Virgin Islands (h = N).
"	"	8				near Lofoten,	"	"	8	18 35 24.6	Up	iP		
"	"	8				68.1°N, 15.4°E.	"	"	8	18 36 44	Ki	eP		
"	"	8				Origin time = 11 21 44.	"	"	8	18 36 52.0	i			
"	"	8	11 22 33.3	Ki	iPg		"	"	8	18 36 06.1	Sk	iP		
"	"	8	11 22 56.2	iSg			"	"	8	18 36 04.6 C	Um	iP		
"	"	8	11 24 28.9	Sk	iSg		"	"	8	18 35 34.6 C	Ud	iP		
"	"	8	11 24 31.6	Um	iSg		"	"	8				Greece (h = 45 km).	
"	"	8				Northwest coast of Norway,	"	"	8	19 33 40.3	Up	iP		
"	"	8				near Lofoten,	"	"	8	19 32 55.2 C	Ki	iP		
"	"	8				68.1°N, 15.4°E.	"	"	8	19 33 30.5	Sk	iP		
"	"	8				Origin time = 11 21 56.	"	"	8	19 33 15.6 C	Um	iP		
"	"	8	11 38 47.9	Ki	iPn		"	"	8	19 33 46.6 C	Ud	iP		
"	"	8	11 39 47.1	iSn			"	"	8				Kurile Islands (h = 15 km).	
"	"	8	11 40 05.7	iLgl			"	"	8	20 55 12.6	Ki	iPn		
"	"	8	11 42 01.8	Sk	i		"	"	8	20 55 58.8	iSn			
"	"	8	11 42 34.9	iLgl			"	"	8	20 56 15.6	iSg			
"	"	8	11 40 26.9	Um	iSn		"	"	8	20 56 15.6	Sk	iSg		
"	"	8	11 41 01.8	iSg			"	"	8	20 59 02.4	Um	i		
"	"	8	11 43 29.9	Ud	iLgl		"	"	8	20 56 46.6	iSg			
"	"	8				Northwest Russia,	"	"	8	20 57 33.5				Northwest Russia,
"	"	8				67.5°N, 33.6°E.	"	"	8					68.6°N, 30.5°E.
"	"	8				Origin time = 11 37 29.	"	"	8					Origin time = 20 54 11.
"	"	8				Explosion?	"	"	8					Explosion?
"	"	8	12 20 48.2	Ki	iP		"	"	8	23 22 28.6	Um	iP		
"	"	8	12 21 02.1	i			"	"	8					Celebes (h = 80 km).
"	"	8				Sunda Strait (h = N).	"	"	8					

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

1970				1970					
May	9	Up	iP	00 16 26.2	May	9	Ud	iP	13 26 23.2
		Sk	e(P)	00 16 21					
		Um	iP	00 16 15.1	"	9	Ki	eP	13 30 19
"	9	Ki	iP	00 30 07.3 C			Um	iP	13 30 22.6
		Um	iP	00 30 08.8			Ud	iP	13 30 40.9
"	9	Up	iP	01 20 51.1			i		13 30 44.3
		Ki	iP	01 20 39.1			New Guinea-Halmahera (h = N).		
		Sk	iP	01 21 09.7	"	9	Up	iPKP	18 19 06.6
		Um	iP	01 20 44.2				ipPKP	18 20 08.3
		Ud	iP	01 21 04.2				iPKKP	18 29 45.8
		Burma.					Ki	iP	18 14 49.9
"	9	Up	iP	01 29 38.8				i(PP)	18 18 29.9
		Ki	iP	01 29 15.6				i	18 18 55.3
		Um	iP	01 29 24.5				iPKKP	18 30 05.1
		Ud	iP	01 29 43.6			Sk	iPKP	18 19 06.1
		Luzon (h = N).						i(PP)	18 19 35.3
"	9	Um	iP	02 29 28.1				ipPKP	18 20 04.0
"	9	Up	iP	05 18 02.5				iPKKP	18 29 47.6
"	9	Up	iPKP	06 03 24.2			Um	iP	18 15 01.5
		Ki	iPKP	06 03 39.6				iPKP	18 18 53.5
		Sk	ePKP	06 03 28				i(PP)	18 19 00.6
		Um	iPKP	06 03 32.2				iPP	18 19 44.8
			i	06 03 53.5				iS	18 26 53
		Ud	iPKP	06 03 22.5				iss	18 28 21
		South Sandwich Islands (h = 110 km).						iPKKP	18 29 57.1
"	9	Ki	iPKP	08 00 03.5 C				i	18 30 07.5
			i	08 00 13.8			Ud	eP	18 15 24
		South Sandwich Islands (h = 60 km).						iPKP	18 19 09.7
"	9	Um	eP	10 09 31				ipPKP	18 20 08.4
		Ud	iP	10 09 43.5				iPKKP	18 29 46.3
		Pamir.					De	iPKP	18 19 15.1
"	9	Sk	iP	11 08 53.3				iPKKP	18 29 38.0
"	9	Up	iP	11 15 55.0			New Britain. h = 250 km (Up,Sk,Ud). (PP) denotes early arrivals of PP.		
		Ki	iP	11 15 02.9	"	9	Up	iPKP	18 22 22.5
		Um	eP	11 15 29			Ki	iPKP	18 22 11.6
		Ud	iP	11 15 55.2			Sk	iPKP	18 22 22.5
		Aleutian Islands (h = 10 km).					Um	iPKP	18 22 16.6 C
"	9	Um	iP	11 55 58.2			Ud	iPKP	18 22 25.7
"	9	Sk	eSn	13 20 42			De	iPKP	18 22 30.9 C
			iSg	13 21 38.7			New Britain. Origin time = 18 04 06.		
		Um	iSg	13 20 24.3	"	10	Up	iP	04 07 38.7
		Probably Esthonia. Explosion?					Ki	eP	04 09 03
							Sk	iP	04 08 18.4
							Um	iP	04 08 19.1
							Ud	iP	04 07 45.2
								i	04 07 51.6
							De	iP	04 07 09.6
								i	04 07 15.9
							Ionian Sea (h = 50 km).		

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

1970				1970				
May	10	Up	i	04 13 40.8	May	10	(cont.)	
		Ki	e	04 11 39			Um	iSg 13 45 19.2
		Sk	i	04 13 39.8			Probably northwest Russia.	
		Um	i	04 12 12.4			Explosion?	
				Probably Kola Peninsula.				
"	10	Up	i	04 14 40.7	"	10	Up	iP 14 57 10.7
		Ki	iSg	04 12 39.4			Ud	iP 14 57 13.3 C
		Sk	iSg	04 14 59.9			De	iP 14 57 23.6
		Um	iSg	04 13 12.9	"	10	Um	iP 16 13 24.8
		Ud	iLgl	04 15 33.1			Ud	iP 16 13 07.4
				Kola Peninsula.				
"	10	Um	iPKP	04 20 17.9	"	10	Ki	iP 17 19 39.6 C
				New Hebrides Islands				
				(h = 20 km).				
"	10	Ki	iP	04 43 30.7				
		Sk	iP	04 43 55.5			Ki	iP 20 16 48.7 D
		Um	iP	04 43 40.9 C			iPP	20 20 19.6
				Mariana Islands (h = N).				
"	10	Up	iP	05 57 42.8				
		Ki	iP	05 56 10.6			P	Z' 0.2 0.7
		Sk	eP	05 56 55			Sk	iP 20 17 13.4
		Um	iP	05 56 58.8			iPP	20 20 59.4
		Ud	iP	05 57 36.3			Um	iP 20 17 00.4 D
				Greenland Sea (h = N).				
"	10	Um	i(P)	08 43 07.5			iPP	20 20 36.1
							Ud	iP 20 17 22.3 D
							iPP	20 21 13.9
							De	iP 20 17 33.9 D
							Mariana Islands (h = 600 km).	
"	10	Up	iSKP	11 00 34.0			m = 6.0 (Up,Ki).	
		Ud	iPKP	10 57 38.8	"	10	Um	iP 20 52 39.1
			iSKP	11 00 35.4	"	10	Up	iP 21 58 04.0
		De	iPKP	10 57 50.2 C			Sk	eP 21 58 00
				Fiji Islands (h = 520 km).				
"	10	Up	iP	12 40 07.8			Um	iP 21 57 43.1
							Ud	iP 21 58 11.4
							Japan (h = 45 km).	
			P	Z' 0.1 0.5	"	11	Up	iP 03 19 45.9 C
		Ki	iP	12 40 16.7 C				
		Sk	iP	12 40 33.9			P	Z' 0.1 0.5
			iPP	12 42 17.9			Mx	E 0.8 20
		Um	iP	12 40 06.2 C			Mx	N 1.1 22
			ipP	12 40 30.8			Mx	Z 0.9 15
		Ud	iP	12 40 24.3 C			Ki	iP 03 20 24.1 C
			ipP	12 40 50.9				
		De	iP	12 40 21.4			P	Z' 0.1 0.7
				Hindu Kush.				
				h = 120 km (Um,Ud).				
"	10	Ki	iSn	13 44 03.2			Sk	iP 03 20 21.8 C
			iLgl	13 44 28.2			Um	iP 03 20 00.0
		Sk	eSg	13 46 47			Ud	iP 03 20 01.5 C
		Um	i	13 44 51.1			De	iP 03 19 45.3
				(cont.)				
							Iran (h = 20 km).	
							m = 5.7 (Up,Ki).	

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

1970				1970			
May	11	Ki eP	03 54 44	May	11	(cont.)	
		Um eP	03 54 52			Um iSKP	15 27 20.7
		Ud iP	03 54 39.8			Ud ePKP	15 24 37
		Mexico.				iSKP	15 27 34.9
"	11	Sk iP	03 58 33.7			De iPKP	15 24 47.1
		Um iP	03 58 28.0			Fiji Islands (h = 480 km).	
		Ud iP	03 58 42.1	"	11	Up eP	16 01 16
"	11	Ki eP	05 57 08			Ki iP	15 59 58.9
		Sk eP	05 56 24			Sk iP	16 00 27.8
		Um iP	05 56 25.0			Um eP	16 00 31
		Yugoslavia.				Ud iP	16 01 11.2
"	11	Ki iP	06 13 12.9			Arctic Ocean (h = N).	
		Sk eP	06 13 49	"	11	Up iP	16 33 21.0
		Um iP	06 13 36.5			Ki eP	16 34 34
		Ud iP	06 14 08.6				micr sec
"	11	Ki iP	09 21 21.5			Mx E	0.3 12
		iPn	09 21 44.8			Um iP	16 33 59.6
		Sk iP	09 20 58.2			Ud iP	16 33 41.3
		Um iP	09 20 44.1			De iP	16 33 07.3
		i	09 20 47.4			Turkey (h = N).	
		iS	09 25 18	"	11	Up iP	20 40 29.0
		Ud iP	09 20 24.3			i	20 40 36.2
		i	09 20 31.5			Sk i(P)	20 40 35.9
		De iP	09 19 54.4			Um iP	20 40 06.6
		Turkey.				Ud iP	20 40 31.9
		Origin time = 09 15 19.				Bonin Islands (h = 50 km).	
"	11	Um iP	10 04 13.8	"	11	Sk iP	21 29 57.2
		Ud iP	10 03 59.7			Ud eP	21 29 25
		De iP	10 03 24.6	"	12	Up iPKP	01 21 07.1
		Turkey.				Ki iPKP	01 20 56.8
"	11	Up iP	10 20 44.3			iSKP	01 23 38.2
		Ki iP	10 19 50.5 C			Sk ePKP	01 21 05
		Sk iP	10 20 24.9			Um iPKP	01 21 01.4
		Um iP	10 20 16.5 C			i	01 21 05.9
		Ud iP	10 20 46.1 C			iSKP	01 23 49.0
		Aleutian Islands (h = 60 km).				Ud iPKP	01 21 09.6 C
"	11	Sk iP	13 37 34.0			iSKP	01 24 00.9
		Um iP	13 37 46.0			De iPKP	01 21 20.4 C
		Mexico (h = 60 km).				Tonga-Kermadec Islands	
"	11	Up ePKP	15 24 36			(h = 550 km).	
		iSKP	15 27 33.5	"	12	Ki eP	03 25 05
		Ki iSKP	15 27 08.2			Um iP	03 25 10.5
			micr sec			Molucca Passage (h = 70 km).	
		SKP	Z' 0.1 1.2	"	12	Ki iPKP	04 26 54.6
		Sk ePKP	15 24 34			Sk ePKP	04 27 05
		iSKP	15 27 25.4			Um iPKP	04 27 00.2
		Um iPKP	15 24 34.0			De iPKP	04 27 16.7
		(cont.)				Santa Cruz Islands (h = 30 km).	

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

1970				1970						
May	12	Up	i(P)	06 01 45.9	May	12	Up	iP	22 16 07.5 D	
			i	06 02 30.2			Sk	iP	22 16 39.0	
		Ki	e(P)	06 01 34			Um	iP	22 16 11.5	
		Um	iP	06 01 45.9			Ud	iP	22 16 22.8	
			i	06 02 51.7			West Pakistan (h = 25 km).			
"	12	Up	iP	07 55 38.5	"	12	Sk	iP	22 48 45.6	
			i(Sg)	07 56 48.0			Mexico (h = N).			
"	12	Up	iP	13 56 22.2	"	12	Up	iP	22 53 51.7	
			ipP	13 56 35.8			Ki	iP	22 55 05.4	
		Ki	iP	13 56 01.5			micr sec			
		Sk	ipP	13 56 41.2			Mx	E	1.0 16	
		Um	iP	13 56 09.3			Mx	N	0.3 10	
			ipP	13 56 22.0			Mx	Z	0.5 10	
		Ud	iP	13 56 32.7			Sk	iP	22 54 33.3	
			ipP	13 56 46.0			Um	iP	22 54 30.6	
		Luzon.						iS	22 59 08	
		h = 50 km (Up,Um,Ud).					Ud	iP	22 53 59.7	
"	12	Um	iP	14 02 39.6			De	iP	22 53 24.7	
								i	22 53 36.5	
"	12	Up	iPg	14 14 58.8			Greece (h = 35 km).			
			iSg	14 15 29.9	"	13	Um	iP	00 07 13.6	
				micr sec			Ud	iP	00 07 16.7	
			Sg	Z' 0.1 0.5				i	00 07 27.4	
		Ki	iSg	14 18 13.8			De	iP	00 07 09.6	
		Sk	iPg	14 14 58.3			Iran.			
			iSg	14 15 32.5	"	13	Up	iP	00 52 21.2	
		Um	iSg	14 16 28.6			Ud	iP	00 52 24.4	
		Ud	iPg	14 14 28.5	"	13	Um	eP	02 34 34	
			i	14 14 32.2				i	02 36 03.0	
			iSg	14 14 41.0	"	13	Ki	iP	10 09 23.2 C	
		De	iSg	14 16 30.4				i	10 09 30.3	
		Sweden-Norway border region,					Um	i(P)	10 09 49.7	
		61.1°N, 12.7°E.				"	13	Ki	i	12 14 37.2
		Origin time = 14 14 05.					Um	i	12 12 44.9	
"	12	Ud	iP	14 38 13.7				i(Sg)	12 13 42.4	
			i	14 38 32.2	"	13	Sk	eP	15 50 46	
		De	iP	14 37 34.0				i	15 50 50.3	
"	12	De	i(P)	16 35 29.9			Um	iP	15 49 46.0	
"	12	Up	ipPKP	17 17 40.6	"	13	Up	iP	15 57 34.7	
		Ki	iPKP	17 17 06.0			Ki	i(P)	15 57 50.2	
		Um	iPKP	17 17 12.6				i	15 59 21.1	
		Ud	iPKP	17 17 09.7			Ud	iP	15 57 25.7	
			i	17 17 13.8	"	13	Up	iPKP	16 03 08.8	
		De	iPKP	17 17 24.3			Ki	ePKP	16 02 55	
		Tonga Islands (h = 100 km).					Sk	iPKP	16 03 02.7 C	
"	12	Um	iP	18 14 56.5	"	13	(cont.)			
			i	18 16 40.3						
"	12	Um	i(P)	20 58 02.6						

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

1970				1970				
May	13	(cont.)		May	14	De	e	08 20 40
		Um	iPKP				i(Sg)	08 20 53.9
			i					
			16 02 58.4					
			16 03 52.0					
		Ud	iPKP	"	14	Up	ePP	08 51 56
			16 03 09.7 C					micr sec
			South of Kermadec Islands					
			(h = 60 km).					
"	13	Up	iP					
			16 52 50.3					
		Um	iP					
			16 53 29.6					
		Ud	i(P)					
			16 53 50.0					
"	13	Um	iP					
			17 22 06.1					
"	13	Um	i(Sg)					
			18 14 39.3					
		De	iPg					
			18 09 39.5					
			i					
			18 09 45.5					
			iSg					
			18 10 13.8					
"	13	Um	iP	"	14	De	e	09 13 36
			18 16 04.6				i(Sg)	09 13 41.2
"	13	Ki	iP					
			19 32 10.3					
		Um	iP					
			19 32 05.7					
		Ud	iP					
			19 32 17.3					
"	13	Ki	iSg					
			19 49 48.0					
		Sk	iSg					
			19 49 56.3					
		Um	iSg					
			19 50 16.4					
			Nordland, Norway.					
			Origin time = 19 48 21.					
"	13	Ud	iP					
			20 38 13.3					
			Molucca Passage (h = 130 km).					
"	13	Ki	iP					
			21 25 24.0					
		Sk	e(P)					
			21 25 32					
"	14	Up	iP					
			01 33 31.1					
		Sk	iP					
			01 33 49.0					
"	14	Ki	iPKP					
			01 59 34.1					
		Um	iPKP					
			01 59 40.5					
		Ud	ePKP					
			01 59 48					
			i					
			01 59 59.7					
		De	iPKP					
			01 59 56.9					
			New Hebrides Islands					
			(h = 200 km).					
"	14	Ud	iP	"	14	Ud	i(P)	10 27 00.1
			02 53 10.7					
"	14	Up	iP	"	14	Um	iPg	10 40 42.5
			03 47 25.6				iSg	10 41 46.0
			ipP					
			03 47 32.0					
		Ki	iP					
			03 46 43.8					
		Ud	iP	"	14	Ki	iPg	11 41 34.1
			03 47 19.6 C				iSg	11 41 57.3
			ipP					micr sec
			03 47 25.6					Z' 0.2 0.5
			Oregon.					(cont.)
			h = 25 km (Up,Ud).					

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

1970				1970			
May	14	(cont.)		May	14	(cont.)	
		Sk e	11 42 42			Up Mx	E 220 12
		iSg	11 43 34.7			Mx	N 250 12
		Um iSg	11 43 32.1			Mx	Z 82 12
		De eSg	11 47 20			Ki iP	18 18 20.6
		Northwest coast of Norway, near Lofoten, 68.2°N, 15.8°E. Origin time = 11 40 58.				i	18 18 26.4
						i	18 18 47.5
						iS	18 23 12
							micr sec
"	14	Up iP	12 18 58.7			P	Z' 1.8 1.5
		Ki iP	12 18 36.7 C			Mx	E 89 11
		Um iP	12 18 41.5			Mx	N 91 12
		Ud iP	12 19 13.1			Mx	Z 120 13
		De iP	12 19 22.2			Sk iP	18 18 20.4 C
		Sinkiang (h = N).				i	18 18 25.2
						i	18 18 55.1
						Um iP	18 17 54.9
"	14	Um iPg	12 37 42.8			i	18 17 58.0
		iSg	12 38 47.9			i	18 18 03.9
		i	12 39 01.8			iS	18 22 23
		Ud i	12 38 09.5			Ud iP	18 18 01.7 C
		Probably same origin as for May 14, 10 40.				De iP	18 17 48.0 C
						i	18 17 53.1
						i	18 17 57.1
"	14	Up iP	13 51 19.1			Caucasus (h = 45 km). m = 6.9, M = 6.9 (Up,Ki). Multiple P.	
"	14	Up iP	14 16 43.0				
		Um iP	14 16 26.9	"	14	Up iP	18 39 51.6
"	14	Ki iP	14 26 29.6			Ki iP	18 40 31.7
		i	14 26 37.7			iPn	18 41 07.9
		Um iP	14 26 11.4			iSn	18 45 57.2
"	14	Up iP	15 15 38.2			Sk iPn	18 41 00.2
"	14	Up iP	15 35 11.6			Um iP	18 40 02.9
		Ki iP	15 34 43.3			Ud iP	18 40 08.7
		Um iP	15 34 55.3			Caucasus (h = N).	
		iPp	15 35 04.6	"	14	Up iP	18 52 22.9
		Ud iP	15 35 19.7			Ki iPn	18 53 34.3
		De iP	15 35 29.1			Um iP	18 52 33.5
		Mariana Islands. h = 35 km (Um).				Ud iP	18 52 41.6
						De iP	18 52 28.3
"	14	Um iP	17 11 01.7			i	18 52 34.7
		Ud iP	17 11 04.7			Caucasus (h = N).	
		Caucasus.		"	14	Up iP	18 54 26.2
"	14	Um iP	17 24 42.8			i(Pn)	18 54 52.3
		Ud iP	17 24 49.3			Ki i	18 55 21.8
"	14	Up iP	18 17 44.2 C			i(Pn)	18 55 46.0
		iS	18 22 01			Um iP	18 54 37.3
		i	18 22 09			iPn	18 55 00.9
			micr sec			Ud iP	18 54 42.0
		P	Z' 3.4 1.0			Caucasus. Origin time = 18 49 06.	
		(cont.)					

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

1970				1970			
May	14	Ki	iP	19 01 06.4	May	14	(cont.)
				Nevada (h = 5 km)			Ki Mx N 0.4 8
							Mx Z 0.6 9
"	14	Ki	eP	19 21 30			Sk iPn 21 22 06.5
		Ud	iP	19 21 08.5			Um iP 21 21 20.7
		De	eP	19 20 57			Ud iP 21 21 26.2
				Caucasus.			De iP 21 21 13.5
				Origin time = 19 15 33.			Caucasus (h = N).
							M = 4.6 (Up,Ki).
"	14	Ud	iP	19 25 11.0	"	14	Up iP 21 25 36.9
"	14	Up	iP	19 25 45.8			Ki iP 21 26 11.9
			iPn	19 26 00.1			Caucasus.
		Ki	iP	19 26 22.6			Origin time = 21 20 17.
		Um	iP	19 25 56.3	"	14	Ki iP 21 29 33.5
			i	19 25 59.6			Um iP 21 29 07.3
		Ud	iP	19 26 00.9			Caucasus.
			i	19 26 05.9			Origin time = 21 23 37.
		De	iP	19 25 48.0	"	14	Ki iP 21 51 26.0
				Caucasus (h = N).			Um iP 21 51 00.8
"	14	Up	iP	19 36 57.8			Ud iP 21 51 04.9
		Ki	eP	19 37 33			Caucasus.
			i	19 37 50.2			Origin time = 21 45 30.
			iSn	19 43 05.5	"	14	Ud iP 23 15 36.8
		Um	iP	19 37 07.6			De iPn 23 15 38.2
			iPn	19 37 29.0			Caucasus (h = N).
		Ud	iP	19 37 14.6	"	15	Up iP 00 05 01.2
			i(Sn)	19 43 00.3			Ki iSn 00 11 09.3
		De	eP	19 37 09			Sk e(Sn) 00 11 31
				Caucasus (h = N).			Um iP 00 05 12.3
"	14	Um	iP	20 31 00.3			iSn 00 09 56.9
		Ud	iP	20 31 05.4			i 00 10 26.9
				Caucasus (h = N).			Ud eP 00 05 19
"	14	Up	iP	20 52 48.2			i 00 05 29.1
		Ki	iP	20 53 23.4			eSn 00 10 09
		Um	iP	20 52 59.3			De eP 00 05 04
		Ud	iP	20 53 04.5			Caucasus (h = N).
		De	eP	20 52 53	"	15	Ud iP 00 51 31.2
				Caucasus (h = N).			De eP 00 51 16
"	14	Ki	iP	21 16 00.4			Caucasus.
		Ud	iP	21 15 36.4			Origin time = 00 45 53.
				Caucasus.	"	15	Up eP 02 02 08
"	14	Up	iP	21 21 08.9			Ki iPn 02 03 02.8
				micr sec			Sk iPn 02 03 13.3
		Mx	E	0.6 12			Um iP 02 02 18.4
		Mx	N	0.8 10			iSn 02 07 29.3
		Mx	Z	0.8 10			Ud iP 02 02 25.0
		Ki	iP	21 21 45.5			De iP 02 02 13.7
				micr sec			Caucasus (h = N).
		Mx	E	0.6 10			
				(cont.)			

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

1970				1970						
May	15	Up	iP	02 13 22.3	May	15	Ud	iSg	09 50 32.0	
		Ki	iP	02 13 58.5			De	eSg	09 49 45	
			iSn	02 19 31.1		"	15	Up	iP	09 57 31.3
		Sk	ePn	02 14 22						micr sec
		Um	eP	02 13 33				Mx	E	1.1 22
			i	02 13 35.3				Mx	N	0.8 16
			iSn	02 18 43.4				Mx	Z	1.7 21
		Ud	iP	02 13 39.1 C			Ki	iP	09 57 19.5	
			iSn	02 18 39.2						micr sec
		De	iP	02 13 26.5				Mx	E	1.9 20
				Caucasus (h = N).				Mx	N	0.7 16
"	15	Um	iP	02 32 43.5				Mx	Z	1.9 20
"	15	Up	iPn	04 03 17.0			Sk	iP	09 57 12.6 C	
		Ki	ePn	04 04 03			Um	iP	09 57 27.9	
		Um	iP	04 03 12.4				iS	10 07 59	
		Ud	eP	04 03 21			Ud	iP	09 57 22.4	
			iPn	04 03 36.6					Mexico (h = N).	
				Caucasus.					M = 5.4 (Up,Ki).	
				Origin time = 03 57 43.	"	15	Up	iPKP	10 59 05.8	
				In these Caucasus earth-			Ki	iPKP	10 58 59.1	
				quakes, Pn and also Sn			Sk	ePKP	10 58 56	
				have often larger			Um	iPKP	10 58 59.2	
				amplitudes and sharper				i	10 59 04.6	
				onsets than P on short-			Ud	iPKP	10 59 07.4	
				period Z, which may				i	10 59 13.5	
				cause complications.			De	iPKP	10 59 17.8	
"	15	Up	eP	04 17 55				i	10 59 18.6	
		Ki	iP	04 18 27.8					Fiji Islands (h = 250 km).	
		Sk	iP	04 18 27.5	"	15	Up	iP	12 19 02.7	
		Um	iP	04 18 05.3			Um	iP	12 19 27.8	
			iSn	04 23 15.2			Ud	iP	12 19 32.7	
		Ud	iP	04 18 13.2				i	12 19 43.9	
			i	04 18 23.8	"	15	Um	i(Sg)	12 21 08.8	
			iSn	04 23 23.1			Ud	iSg	12 21 50.0	
		De	iP	04 17 59.6					Probably Esthonia.	
				Caucasus (h = N).					Explosion?	
"	15	De	e(P)	05 41 45	"	15	Up	iSg	12 50 25.9	
"	15	Up	eP	06 24 36			Sk	iSg	12 52 46	
		Ki	iP	06 25 10.9			Um	iS ^X	12 52 19.3	
		Sk	ePn	06 25 30				iSg	12 52 32.0	
			i	06 26 07.6			Ud	iSg	12 51 06.9	
		Um	iP	06 24 47.3			De	iSg	12 50 57.1	
			iSn	06 29 34.6					Baltic Sea, just north of	
		Ud	iP	06 24 52.0					Gotland,	
			iSn	06 30 12.9					58.0°N, 18.5°E.	
		De	iP	06 24 40.2					Origin time = 12 49 20.	
				Caucasus (h = N).					Probably underwater explosion.	
"	15	Sk	iP	07 56 42.3	"	15	Ki	iPn	13 10 10.9	
		Ud	iP	07 56 52.6				iSn	13 11 09.9	
				Mexico (h = 60 km).				iSg	13 11 34.2	

(cont.)

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

1970									1970										
May	15	(cont.)							May	15	(cont.)								
		Sk	eS ^x	13	13	39					Um	iP	17	35	28.6				
			iSg	13	14	03.0										USSR-Mongolia.			
		Um	iS ^x	13	11	59.2										Origin time = 17 28 06.			
			iSg	13	12	18.9					"	15	Up	iP	17	37	21.1		
		Northwest Russia,											Um	iP	17	37	00.7		
		67.2°N, 33.2°E.															USSR-Mongolia.		
		Origin time = 13 08 54.															Origin time = 17 29 39.		
		Explosion?											"	15	Up	iP	17	56	54.9
"	15	Up	iP	13	41	48.9							Um	iP	17	56	35.5		
		Ki	iP	13	41	14.2							Ud	iP	17	57	09.8		
		Sk	eP	13	41	23											USSR-Mongolia.		
		Um	iP	13	41	33.8 C											Origin time = 17 49 14.		
		Ud	iP	13	41	40.4 C							"	15	Up	iP	17	59	06.8
		Nevada.													Um	iP	17	58	47.6
		Underground explosion.													Ud	iP	17	59	21.5
"	15	Um	iP	14	23	07.7											USSR-Mongolia.		
		Ud	iP	14	22	43.9											Origin time = 17 51 26.		
		De	iP	14	22	27.5							"	15	Um	iP	18	04	13.5
		South Atlantic Ocean (h = N).											"	15	Up	iP	18	06	10.7
"	15	Up	i(P)	14	57	04.0									i	18	06	26.2	
		De	e(P)	14	57	13												micr sec	
"	15	De	i(P)	16	03	32.7									P	Z'	0.1	0.6	
"	15	Up	iP	17	20	57.0									Ki	iP	18	05	44.5 C
						micr sec												micr sec	
		P	Z'	0.5	0.8										P	Z'	0.1	1.0	
		Mx	E	39	10										Sk	iP	18	06	20.4
		Mx	N	160	15										Um	iP	18	05	51.5
		Mx	Z	47	10										Ud	iP	18	06	25.7 C
		Ki	iP	17	20	30.6 C									De	iP	18	06	36.6 C
			iS	17	26	24										i	18	06	39.5
						micr sec												USSR-Mongolia (h = N).	
		P	Z'	0.7	1.0													m = 5.6 (Up,Ki).	
		Mx	E	160	14								"	15	Up	iP	18	43	46.7
		Mx	N	240	16										i	18	43	49.2	
		Mx	Z	190	15										Ki	iP	18	43	21.7
		Sk	iP	17	21	05.7 C									Um	iP	18	43	26.9 C
		Um	iP	17	20	36.8 C									Ud	iP	18	44	01.3
			iS	17	26	31									De	iP	18	44	12.3
		Ud	iP	17	21	11.4 C										i	18	44	14.8
		De	iP	17	21	21.7 C												USSR-Mongolia (h = N).	
		USSR-Mongolia (h = N).																	
		m = 6.3, M = 7.2 (Up,Ki).																	
"	15	Up	iP	17	34	46.1						"	15	Ki	iP	18	49	03.7	
			i	17	34	50.4								Um	iP	18	48	59.1	
		Um	iP	17	34	27.9									i	18	49	01.7	
		USSR-Mongolia.																	
		Origin time = 17 27 05.																	
"	15	Up	iP	17	35	46.6						"	15	Um	iP	18	55	54.4	
		(cont.)												Ud	iP	18	56	28.6 C	
														De	iP	18	56	39.5	
																		USSR-Mongolia.	
																		Origin time = 18 48 33.	

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

1970				1970					
May	16	Up	iP	03 12 05.8	May	16	Sk	iP	08 12 47.8
		Um	iP	03 11 46.7			Um	iP	08 12 04.1
		USSR-Mongolia.							
		Origin time = 03 04 25.			"	16	Up	iP	10 48 42.9
"	16	Um	iP	03 19 00.7				iPn	10 48 51.1
									micr sec
"	16	Up	iP	03 29 33.2				Mx	N 0.4 9
			ipP	03 29 41.6			Ki	iP	10 49 18.6
		Ki	iP	03 29 15.7			Um	iP	10 48 54.5
			ipP	03 29 25.2			Ud	iP	10 48 58.7
		Um	iP	03 29 20.9			De	iP	10 48 46.2
		Ud	iP	03 29 42.5			Caucasus (h = N).		
		Luzon.			"	16	Ud	eP	12 05 07
		h = 35 km (Up,Ki).			"	16	Um	iP	12 45 25.3
"	16	Up	iP	04 46 17.4	"	16	Up	iSg	13 27 27.8
		Ki	iP	04 45 53.7			Ki	iPn	13 21 20.4
		Um	iP	04 45 57.2				iSn	13 22 46.7
		Ud	iP	04 46 32.1				iSg	13 23 36.2
		De	iP	04 46 43.3				iRg	13 24 05.3
		USSR-Mongolia.					Sk	ePg	13 23 44
		Origin time = 04 38 36.						iSg	13 26 35.8
"	16	Up	iP	05 16 00.0			Um	iLgl	13 24 57.7
			i	05 16 07.9				iSg	13 25 18.5
			iPn	05 16 18.4			Ud	i	13 26 24.7
			i(Sn)	05 21 02.0				iSg	13 27 46.4
		Ki	iP	05 16 36.1			De	iSg	13 29 34.7
			iSn	05 22 22.0			Barent Sea,		
		Um	iP	05 16 10.3			71°N, 40°E.		
			iSn	05 21 02.4			Origin time = 13 19 25.		
		Ud	iP	05 16 16.9	"	16	Ki	i(Pg)	13 28 21.8
			i(Sn)	05 21 48.7				iSg	13 28 58.8
		Caucasus (h = N).					Sk	iSg	13 31 39.1
"	16	Ud	iP	05 47 45.5			Um	iSn	13 29 39.3
"	16	Up	i(P)	06 00 52.0				iSg	13 30 10.5
		Um	e(P)	05 59 21			Northwest Russia,		
"	16	Um	iP	06 26 26.4			68.1°N, 29.6°E.		
"	16	Um	iP	06 31 18.9			Origin time = 13 27 06.		
"	16	Um	iP	06 58 39.6			Explosion?		
		Um	iP	06 58 20.3	"	16	Ud	i(P)	14 24 34.3
		Ud	iP	06 58 54.5	"	16	Um	iP	14 29 59.5
		De	iP	06 59 05.4			Ud	eP	14 30 29
		USSR-Mongolia.			"	16	Um	iP	15 26 43.4
		Origin time = 06 50 58.					Ud	iP	15 27 18.2
"	16	Um	iP	07 31 12.4			De	iP	15 27 29.1
"	16	Ki	i(P)	07 36 48.2	"	16	Um	iP	15 35 46.5
		Um	iP	07 36 35.8			Ud	iP	15 36 21.2
							De	iP	15 36 31.4
							i		15 36 36.1

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

1970						1970					
May	16	Ki	iPKP	16 55 51.1		May	17	(cont.)			
		Um	iPKP	16 55 56.8				Ud	iP	02 23 17.7	
		Ud	iPKP	16 56 07.3				De	eP	02 23 29	
		De	iPKP	16 56 15.4				USSR-Mongolia.			
		New Hebrides Islands						Origin time = 02 15 22.			
		(h = 50 km).					"	17	Um	iPKP	03 53 28.1
	"	16	Up	iPP	18 05 35.1			Ud	ePKP	03 53 28	
			Ud	iPP	18 05 43.2			De	iPKP	03 53 37.6	
		Solomon Islands (h = 60 km).						Fiji Islands (h = 610 km).			
	"	16	Um	iP	19 15 31.9		"	17	Up	iP	04 21 52.3
			Ud	iP	19 16 05.8				Ki	iP	04 21 32.5
			De	iP	19 16 17.4				Um	iP	04 21 39.1
	"	16	Um	iP	20 00 21.8				Ud	iP	04 22 01.2
		Luzon (h = 45 km).					"	17	Up	iP	05 07 35.0
	"	16	Up	iP	21 32 10.7				i	05 07 37.0	
					micr sec						
			Mx	E	0.5 11				Mx	E	0.4 9
			Mx	N	0.6 12				Mx	N	0.7 14
			Mx	Z	0.9 14				Mx	Z	0.7 12
		Ki	iP	21 32 49.0				Ki	iP	05 08 11.7	
			iSn	21 38 43.2					iPn	05 08 35.3	
					micr sec				eSn	05 13 39	
			Mx	E	0.6 10						
			Mx	N	0.3 10				Mx	E	0.4 10
			Mx	Z	0.5 9				Mx	N	0.4 12
		Sk	ePn	21 33 20					Mx	Z	0.5 10
			i	21 35 22.6				Sk	e(P)	05 08 22	
		Um	iP	21 32 24.3				Um	iP	05 07 45.9	
		Ud	iP	21 32 30.0					i	05 07 47.9	
		De	iP	21 32 18.9					iSn	05 12 30.7	
		Caucasus (h = N).							Ud	iP	05 07 52.6
		M = 4.5 (Up,Ki).								iSn	05 12 46.2
	"	16	Um	iP	22 33 04.2			De	iP	05 07 38.9	
			Ud	iP	22 32 50.1				iLg2	05 15 57.4	
	"	17	Um	iP	00 50 46.8			Caucasus (h = N).			
			Ud	i(P)	00 51 28.2			M = 4.4 (Up,Ki).			
	"	17	Up	iP	01 04 30.2		"	17	Ki	iPn	06 35 50.8
			Ki	iP	01 04 03.7					iSn	06 36 49.4
					micr sec					iSg	06 37 14.3
			Mx	N	0.8 14			Sk	eSg	06 39 42	
		Sk	iP	01 04 43.1				Um	iSg	06 38 03.9	
		Um	iP	01 04 11.0 C				Ud	iLg1	06 40 33.0	
		Ud	iP	01 04 45.1				Northwest Russia,			
		De	iP	01 04 56.1 C				67.4°N, 33.3°E.			
		USSR-Mongolia (h = N).						Origin time = 06 34 34.			
	"	17	Up	iP	02 23 03.2			Explosion?			
			Um	iP	02 22 43.6		"	17	Up	iP	06 54 23.1
		(cont.)								i	06 54 24.2
		(cont.)						(cont.)			

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

1970				1970			
May	17	(cont.)		May	17	(cont.)	
		Up	iSn 06 58 45.6			Ud	iPKP 09 31 20.1
			micr sec				iPKKP 09 42 02.6
		P	Z' 0.3 1.0			i	09 42 07.4
		Mx	E 2.9 12			Argentina (h = 15 km).	
		Mx	N 6.1 14				
		Mx	Z 4.4 14	"	17	Sk	eP 10 41 42
		Ki	iP 06 54 59.9			Mexico (h = 25 km).	
			i 06 55 01.3				
			iSn 07 00 23.3				
			micr sec	"	17	Um	iP 11 56 01.7
		P	Z' 0.1 1.0	"	17	Up	iP 12 25 26.3
		Mx	E 2.0 9			Um	iP 12 25 02.2
		Mx	N 2.5 10			Ud	iP 12 25 36.1
		Mx	Z 2.5 10			De	iP 12 25 47.5
		Sk	iP 06 55 00.0	"	17	Up	iP 15 03 27.9
			i 06 55 05.7			Ki	iP 15 02 50.5 C
			iPn 06 55 22.8			Sk	eP 15 03 21
			iSn 07 00 25.0			Um	iP 15 03 06.9 C
		Um	iP 06 54 34.6				i 15 03 13.2
			i 06 54 38.4			Ud	iP 15 03 35.7 C
			iS 06 59 01			De	iP 15 03 49.8
		Ud	iP 06 54 40.0			Japan (h = 70 km).	
			i 06 54 44.5				
			iSn 06 59 37.2	"	17	Up	iP 16 47 01.6
		De	iP 06 54 27.7	"	17	Um	eP 18 35 28
		Caucasus (h = N).				Ud	eP 18 35 16
		m = 5.8, M = 5.3 (Up,Ki).		"	17	Sk	iP 19 22 00.7
"	17	Up	iLgl 07 12 19.1	"	17	Um	iP 19 22 14.7
		Ki	iPn 07 08 12.2			Mexico (h = N).	
			iSn 07 09 10.7	"	17	Um	iP 22 39 38.6
			iSg 07 09 34.9			Ud	iP 22 39 42.4
		Sk	i(Lgl) 07 11 59.4	"	17	Up	iP 23 06 02.7 C
			iSg 07 12 06.6				micr sec
		Um	iSg 07 10 26.3			P	Z' 0.1 0.5
		Northwest Russia,				Ki	iP 23 05 08.7 C
		67.5°N, 33.3°E.				Sk	iP 23 05 43.7 C
		Origin time = 07 06 55.				Um	iP 23 05 34.5 C
		Explosion?				Ud	iP 23 06 04.7 C
"	17	Ki	iP 07 48 58.2			De	iP 23 06 26.7
		Sk	iP 07 49 20.8			Aleutian Islands (h = 40 km).	
		Um	iP 07 49 05.6	"	17	Um	iP 23 26 04.3
		Ud	iP 07 49 23.3 C			Ud	iP 23 26 38.7
		Mindanao (h = 80 km).				De	eP 23 26 50
"	17	Um	iP 08 51 40.6	"	17	Um	iP 00 33 09.7
		Ud	eP 08 51 45	"	18	Up	iP 01 07 10.0
"	17	Um	iP 09 18 45.5			Ud	iP 01 07 12.5 C
		Ud	iP 09 19 02.3				
"	17	Ki	iPKP 09 31 31.2				
		Um	iPKP 09 31 28.1				
			iPKKP 09 41 43.0				
		(cont.)					

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

1970				1970			
May	18	Up	iP	01 35	48.1	C	May 18 (cont.)
							Um i 07 39 41.8
		Mx	E	0.7	12		Ud iP 07 40 12.8 C
		Mx	N	0.7	14		De iP 07 40 23.8 C
		Mx	Z	1.3	20		i 07 40 27.0
		Ki	iP	01 35	56.1		USSR-Mongolia (h = N).
		Mx	E	0.8	13	" 18	Up iP 08 43 04.6
		Mx	N	0.5	13		Ki iP 08 44 02.2
		Mx	Z	0.8	14		Ud iP 08 43 15.4
		Sk	iP	01 35	26.3	C	De iP 08 42 49.2
		Um	iP	01 35	59.3		
			i	01 36	06.3	" 18	Up iP 09 03 22.2
		Ud	iP	01 35	29.4	C	Um iP 09 03 03.1
		De	iP	01 35	34.4	C	Ud iP 09 03 37.0
		North Atlantic Ocean (h = N).					De iP 09 03 48.3
		M = 4.6 (Up,Ki).					USSR-Mongolia.
"	18	Up	eP	03 17	45		Origin time = 08 55 41.
		Um	eP	03 17	57	" 18	Um i(P) 10 47 45.8
			i	03 18	00.1		Ud i(P) 10 48 24.5
		Ud	eP	03 18	03	" 18	Up iP 11 54 32.7
		Caucasus (h = N).					Sk iP 11 54 24.0
"	18	Up	iPKP	03 26	11.9		Um iP 11 54 16.2
		Sk	ipPKP	03 26	27.6		Ud iP 11 54 35.6 C
		Um	iPKP	03 26	03.7		De iP 11 54 49.2
			ipPKP	03 26	22.8		Kamchatka (h = 130 km).
		Ud	iPKP	03 26	15.1	" 18	Up iSn 12 37 05.2
		Santa Cruz Islands.					iLg1 12 37 19.7
		h = 70 km (Um).					iSg 12 37 22.3
"	18	Up	eP	05 42	05		Ki iLg1 12 39 27.2
		Ki	i(Pn)	05 43	17.5		iSg 12 39 56.3
		Um	iP	05 42	17.0		Sk e(Sg) 12 39 07
			i(Pn)	05 42	48.4		Um iSg 12 37 52.5
		Ud	iP	05 42	20.3		Ud iSn 12 37 53.5
			i	05 42	24.8		iLg1 12 38 24.6
		Caucasus (h = N).					De iLg1 12 38 48.1
"	18	Up	iP	07 02	58.9		Esthonia,
		Ki	iP	07 03	35.9		59.7°N, 25.6°E.
		Um	iP	07 03	12.3		Origin time = 12 35 12.
		Ud	iP	07 03	13.8		Explosion?
		De	iP	07 02	59.5	" 18	Ud i(P) 14 00 57.1
		Iran (h = 40 km).					i 14 01 09.2
"	18	Up	iP	07 39	58.1	C	" 18
		Ki	iP	07 39	31.5	C	Um iP 14 38 23.1
							Ud iP 14 38 56.5
							USSR-Mongolia.
		Mx	E	0.4	9		Origin time = 14 31 01.
		Mx	N	0.5	15	" 18	Up iP1 14 45 15.0
		Mx	Z	0.6	9		iP2 14 45 20.5
		Sk	iP	07 40	08.1		Ki iP1 14 44 27.8
		Um	iP	07 39	38.8		(cont.)
		(cont.)					

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

1970					1970					
May	18	(cont.)				May	19	(cont.)		
		Sk	iP2	14 45 14.6 C			Sk	iP	02 11 26.1 C	
			i	14 47 16.5			Um	iP	02 11 31.3	
		Um	iP1	14 44 47.4				i	02 11 39.8	
			iP2	14 44 52.7			Ud	iP	02 12 07.2 C	
		Ud	iP1	14 45 24.9				i	02 12 17.0	
		De	iP2	14 45 49.6			De	iP	02 12 50.6 C	
		Lake Baikal (h = N).					Greenland Sea (h = N).			
		Double P (P1 and P2).								
"	18	Up	iP	15 17 06.4	"	19	Up	iP	08 19 01.8	
		Sk	iP	15 17 13.6			Ki	iP	08 18 34.6	
		Um	iP	15 16 42.9			Um	iP	08 18 42.4	
		Ud	iP	15 17 13.7				i	08 18 45.9	
							Ud	iP	08 19 17.3 C	
							De	iP	08 19 30.9	
							USSR-Mongolia.			
							Origin time = 08 11 20.			
"	18	Up	iP	15 25 01.3	"	19	Ki	iP	10 35 06.7	
		Ud	iP	15 24 49.6			Sk	iP	10 34 52.4	
							Um	iP	10 35 08.0	
							Ud	iP	10 34 51.8	
"	18	Um	iP	15 36 22.2			De	iP	10 34 52.1	
							Venezuela (h = 15 km).			
"	18	Up	iP	16 49 57.2	"	19	Up	iP	16 19 21.7	
			i	16 50 01.3			Ud	iP	16 19 12.6	
		Ud	iP	16 49 45.8						
"	18	Um	iP	19 21 40.9	"	19	Up	iPKP	20 37 54.0	
		Ud	iP	19 21 55.8				i	20 37 59.4	
			ipP	19 22 08.3			Ki	iPKP	20 37 41.9	
		Aleutian Islands.					Sk	iPKP	20 37 48.2	
		h = 45 km (Ud).					Um	iPKP	20 37 43.0	
							Ud	iPKP	20 37 55.7	
"	18	Up	eP	20 14 11			Kermadec Islands (h = 40 km).			
		Ki	iP	20 13 45.3	"	19	Up	iP	22 33 18.3	
		Um	iP	20 13 52.3	"	19	Ki	iP	23 38 02.0	
		Ud	iP	20 14 26.5			Um	eP	23 38 10	
		De	iP	20 14 41.2			Ud	iP	23 38 26.4 C	
		USSR-Mongolia.					Luzon.			
		Origin time = 20 06 30.								
"	18	Up	iP	20 50 28.3	"	19	Ud	iP	23 47 08.3 C	
		Um	iP	20 50 12.8	"	20	Up	iPKP	00 38 38.0	
			i	20 50 25.9				i	00 38 44.2	
		South of Japan (h = N).					Sk	iPKP	00 38 35.4	
"	19	Um	iP	01 40 10.0			Um	iPKP	00 38 27.0	
			i	01 40 25.1			Ud	iPKP	00 38 39.5	
		Nicobar Islands (h = 70 km).						i	00 38 39.6	
"	19	Up	iP	02 12 11.7			Kermadec Islands (h = 400 km).			
		Ki	iP	02 10 38.1	"	20	Um	iP	02 37 20.8	
				micr sec				i	02 37 25.7	
		P	Z'	0.1 1.0						
		(cont.)								

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

1970				1970									
May	20	Ki	iPn	11 17	44.5	May	20	(cont.)					
			iSn	11 18	43.6			Um	iPKKS	20 35	36.2		
			iLgl	11 19	02.6			Ud	iPKP	20 22	23.1 C		
		Um	iSg	11 19	56.7				i	20 23	47.3		
			Probably northwest Russia.						iPP	20 24	12.3		
			Origin time = 11 16 29.						iPKKP	20 32	32.0		
			Explosion?					De	iPKP	20 22	19.9		
									iPKKP	20 32	43.0		
"	20	Ki	iP	11 48	14.8			South Sandwich Islands.					
		Ud	iP	11 47	05.7			h = 80 km (Up).					
								M = 6.1 (Up,Ki).					
"	20	Ud	iP	14 16	07.3								
"	20	Up	i(P)	16 04	42.3		"	20	Up	iP	20 41	51.0 C	
		De	iP	16 04	49.1					i	20 41	52.0	
			i	16 04	52.1					iPcP	20 42	16.4	
												micr sec	
									P	Z'	0.2	0.6	
"	20	Um	iP	16 16	08.5			Ki	iP	20 40	58.0 C		
		De	i(P)	16 16	11.2				iPcP	20 41	43.4		
			i	16 16	12.6							micr sec	
									P	Z'	0.1	0.7	
"	20	Um	iP	16 59	45.9			Sk	iP	20 41	30.5		
			Indian Ocean (h = N).						iPcP	20 42	03.2		
"	20	Ud	iP	17 55	05.4			Um	iP	20 41	23.9 C		
									iPcP	20 41	58.9		
"	20	Ki	iP	19 50	10.8 C			Ud	iP	20 41	51.6 C		
		Um	iP	19 50	32.4				iPcP	20 42	17.3		
		Ud	iP	19 51	07.3			De	iP	20 42	13.7 C		
			i	19 51	19.8				iPcP	20 42	32.1		
								Aleutian Islands (h = 50 km).					
								m = 6.3 (Up,Ki).					
"	20	Up	iPKP	20 22	24.6		"	20	Um	i(P)	21 01	22.3	
			ipPKP	20 22	48.3								
			iPKKP	20 32	30.6								
												micr sec	
			PKP	Z'	0.1 0.8			"	20	Up	iP	21 18	38.2
			Mx	E	2.0 18					Sk	eP	21 18	59
			Mx	N	2.6 21			"	20	Ud	iP	22 07	09.8
			Mx	Z	4.1 21			"	20	Up	iP	22 14	55.6 C
		Ki	iPKP	20 22	40.0					Ki	iP	22 14	56.7 C
			i	20 22	41.1								micr sec
			iPKS	20 25	51.4								
			iPKKS	20 35	29.4								
										P	Z'	0.1 1.0	
										Sk	iP	22 14	42.6 C
			PKP	Z'	0.9 1.4					Um	iP	22 14	59.0 C
			PKS	Z'	0.4 1.5					Ud	iP	22 14	45.8
			Mx	E	3.1 18					De	iP	22 14	48.7
			Mx	N	2.4 19					Colombia (h = N).			
			Mx	Z	4.1 18			"	20	Um	iP	23 58	18.9
		Sk	iPKP	20 22	30.3					Kodiak Island (h = N).			
			i(PP)	20 24	32.7			"	21	Up	iPKP	00 54	58.8
			iPKKP	20 32	20.7						iSKP	00 57	52.5
		Um	iPKP	20 22	33.5					Ki	iPKP	00 54	53.3
			i(PP)	20 24	53.2					(cont.)			
			iPKS	20 25	58.6					(cont.)			
			(cont.)							(cont.)			

U - Uppsala, Ni - Niruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1970				1970			
May	21	(cont.)		May	21	(cont.)	
		Ki	iSKP 00 57 28.5			Ud	iP 14 26 40.9 C
		Um	iPKP 00 54 53.1				Nevada.
			i 00 55 00.8				Underground explosion.
			iSKP 00 57 40.5		"	21	Ki iPKP 15 51 55.4
		Ud	iPKP 00 55 03.0				New Hebrides Islands (h = 20 km)
			iSKP 00 57 54.2		"	21	Sk iP 15 58 53.5
		De	iPKP 00 55 12.3 C				Um iP 15 59 08.5
			i 00 55 24.9				Mexico (h = 60 km).
			iSKP 00 58 03.3				
			Fiji Islands (h = 550 km).		"	21	Sk iP 20 15 03.4 C
	"	21	Um iP 02 03 05.9		"	21	Sk iP 20 15 03.4 C
			i 02 03 10.0		"	21	Up iP 20 28 59.1
	"	21	Up iP 04 48 06.6				Uzbek SSR (h = N).
			Ud iP 04 48 20.7		"	22	Up iP 01 58 12.2
	"	21	Up iP 05 04 10.3				i 01 58 15.1
			Um iP 05 03 53.7				Sk i(P) 01 57 17.0
			Ud iP 05 04 23.3 C		"	22	Up iP 07 12 12.8
	"	21	Um iP 08 20 19.7				Sk iP 07 12 56.8
			i 08 20 28.9				Um e(P) 07 13 01
			Ud iP 08 20 58.4				Ud iP 07 12 22.5
			Japan (h = 25 km).				De iP 07 11 42.5
	"	21	Ki iP 09 57 40.8				i 07 11 50.4
			micr sec				Greece.
			Z' 0.1 1.0		"	22	Ki iPn 10 45 41.8
			Ud iP 09 57 52.1				iSn 10 46 39.9
			Java (h = 90 km).				iSg 10 47 04.2
	"	21	Up iP 10 19 13.9				Sk iLgl 10 49 29.0
			Ki iP 10 18 14.8				Um iSn 10 47 19.7
			Um iP 10 18 37.2				iSg 10 47 57.6
			Ud iP 10 19 08.5				Northwest Russia,
			i 10 19 20.0				67.6°N, 33.2°E.
	"	21	Ki eP 10 20 41				Origin time = 10 44 27.
			Um iP 10 20 12.7		"	22	Um i(P) 12 07 33.3
			Ud iP 10 20 13.5 C		"	22	Ki iPn 13 01 53.1
			Caucasus.				iSn 13 02 39.5
	"	21	Up iSg 12 48 42.3				iSg 13 02 56.8
			Sk iSg 12 50 26.3				Sk iLgl 13 05 43.1
			Um iSg 12 49 06.5				Um iSg 13 04 29.2
			Ud iLgl 12 49 30.9				Ud i(Lgl) 13 07 02.6
			iSg 12 49 50.7				Northwest Russia,
			Esthonia.				69.2°N, 30.6°E.
			Origin time = 12 46 28.				Origin time = 13 00 50.
			Explosion?				Explosion?
	"	21	Up iP 14 26 48.9		"	22	De i(P) 13 07 22.9
			Ki iP 14 26 14.8				i 13 07 33.7
			Um iP 14 26 34.2		"	22	Up iP 20 37 42.6
			(cont.)				

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

1970				1970					
May	24	(cont.)		May	25	Ki	iP	16 26 16.0	
		Um	iPKP			Um	iP	16 26 34.8	
		Ud	iPKS			Japan (h = 50 km).			
		New Hebrides Islands (h = 180 km).		"	25	Up	i(PKP)	17 07 10.0	
"	24	Up	iP				iPKP	17 07 13.3 C	
		Ki	iP				i	17 07 16.8	
		Ud	iP					micr sec	
		Kurile Islands (h = 45 km).					PKP	Z' 0.4 0.7	
"	24	Sk	i(P)			Ki	iPKP	17 06 54.8	
		Um	i(P)			Sk	iPKP	17 07 05.9 C	
		Ud	iP			Um	iPKP	17 07 00.6	
			i				i	17 07 02.6	
		De	iP				i	17 07 04.6	
		Dodecanese Islands (h = 15 km).				Ud	i(PKP)	17 07 11.1 C	
"	24	Ki	iP				iPKP	17 07 15.0 C	
		Ud	iP				i	17 07 17.7	
		Kamchatka (h = N).				De	i(PKP)	17 07 17.3	
"	24	Um	iP				iPKP	17 07 24.0 C	
							i	17 07 27.4	
"	24	Um	iP			Kermadec Islands (h = 60 km). (PKP) is a small-amplitude precursor.			
"	24	Um	iP		25	De	iP	17 41 01.1	
"	24	Ud	iP		"	25	Ud	iP	18 18 31.5
"	24	Up	iP				De	iP	18 18 03.9
"	24	Up	eP				i	18 18 06.7	
		Um	iP			Dodecanese Islands (h = 30 km).			
		Nicobar Islands (h = N).		"	25	Ki	iP	18 21 11.8	
"	24	Um	iP			Sk	iP	18 20 43.7	
		Banda Sea (h = 45 km).		"	25	Up	iP	21 05 20.9	
"	25	Um	iP				i	21 05 32.5	
			i			Ki	iP	21 05 03.7	
		Ud	eP			Ud	iP	21 05 21.8	
			i				i	21 05 33.8	
"	25	Ud	iP		"	25	Ki	iP	21 28 08.7
			i			Um	eP	21 27 28	
"	25	De	iPg		"	25	Up	iP	22 07 34.1
			i			Ki	iP	22 08 08.5	
			iSg			Um	iP	22 07 45.1	
			iRg			Ud	iP	22 07 51.5 C	
		Origin time = 13 46 09. Probably explosion.				De	eP	22 07 39	
"	25	Ki	iP			Caucasus. Origin time = 22 02 14.			
		Ud	iP		"	25	Up	iPKP	23 04 21.9
							ipPKP	23 04 40.0	
							iPKKP	23 14 20.2	
						(cont.)			

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

1970				1970			
May	26	(cont.)		May	27	(cont.)	
		Ki	iP	16	36	22.3	
		Um	iP	16	36	26.1	C
		Ud	iP	16	36	59.8	
		De	iP	16	37	11.0	
			i	16	37	16.3	
		USSR-Mongolia.					
		Origin time = 16 29 04.					
"	27	Up	iPg	10	13	00.3	
			iSg	10	13	16.7	
			iRg	10	13	24.6	
							micr sec
			Pg	Z'	0.1	0.5	
		Sk	eS ^x	10	15	23	
			iSg	10	15	39.0	
		Um	iSg	10	15	18.6	
		Ud	iPg	10	13	25.4	
			iSg	10	14	01.5	
		De	eSn	10	14	07	
			iS ^x	10	14	15.3	
			iSg	10	14	22.6	
		Baltic Sea, off Swedish coast,					
		58.8°N, 18.3°E.					
		Origin time = 10 12 34.					
		Probably explosion.					
"	27	Up	iPg	10	19	54.6	
		Ud	iSg	10	20	57.7	
		De	iSg	10	21	18.0	
		Repetition of previous event.					
		Origin time = 10 19 29.					
"	27	Up	iPg	10	26	57.7	
		Ud	iSg	10	27	57.9	
		De	iSg	10	28	16.7	
		Repetition of the same event.					
		Origin time = 10 26 30.					
"	27	De	i(Sg)	11	17	35.9	
"	27	Up	iP	12	16	40.3	D
			iS	12	26	14	
			iPKKP	12	35	11.2	
			iP'P'	12	43	19.3	
			eSKPP'	12	45	52	
							micr sec
			P	Z'	1.2	0.5	
			SKPP'	Z'	0.2	1.4	
			Mx	E	22	16	
			Mx	N	27	16	
			Mx	Z	24	17	
		(cont.)					
		Ki	iP	12	16	08.6	D
			iS	12	25	15	
			isS	12	27	48	
			iP'P'	12	43	32.7	
			iSKPP'	12	46	19.7	
							micr sec
			P	Z'	3.5	0.6	
			SKPP'	Z'	0.6	2.0	
			Mx	E	28	17	
			Mx	N	20	17	
			Mx	Z	31	18	
		Sk	iP	12	16	37.4	
			iPP	12	19	48.9	
			iS	12	25	59.8	
			iPKKP	12	35	14.2	
			iP'P'	12	43	17.1	
			iSKPP'	12	46	01.8	
		Um	iP	12	16	22.7	D
			ipP	12	17	52.8	
			iS	12	25	29	
			iPKKP	12	35	19.7	
			iP'P'	12	43	22.0	
			i	12	45	48.7	
			iSKPP'	12	46	11.6	
		Ud	iP	12	16	47.2	D
			ipP	12	18	17.5	
			iS	12	26	29.9	
			iPKKP	12	35	07.9	
			iP'P'	12	43	10.9	
			i	12	45	48.8	
			iSKPP'	12	45	55.8	
		De	iP	12	16	58.8	D
			iPP	12	20	26.4	
			iS	12	26	45.5	
			iP'P'	12	43	08.9	
			iSKPP'	12	45	46.7	
		Bonin Islands.					
		h = 400 km (Um,Ud).					
		m = 7.1, M = 6.8 (Up,Ki).					
		M not corrected for focal depth					
"	27	Ki	iPn	12	59	30.3	
			iSn	13	00	17.7	
			iLg1	13	00	32.0	
		Um	iSg	13	02	04.2	
		Probably northwest Russia.					
		Origin time = 12 58 26.					
		Explosion?					
"	27	Ki	eSn	13	53	44	
			iLg1	13	54	06.5	
"	27	Um	iSg	14	36	12.2	
		Ud	eLg1	14	36	44	
		(cont.)					

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

1970				1970			
Month	Day	Station	Time	Month	Day	Station	Time
May	27	(cont.)		May	27	Um	iP 22 38 29.2
		De	iLgl 14 37 08.4				i 22 38 31.3
		Esthonia.					
		Origin time = 14 33 30.		"	27	Up	iP 22 47 01.4
		Explosion?					micr sec
"	27	Up	iP 19 16 51.3 C				P Z' 0.4 1.5
			iPP 19 19 29.9				Mx E 3.8 20
			micr sec				Mx N 6.0 21
			P Z' 0.8 1.5				Mx Z 6.8 21
			Mx E 25 18			Ki	iP 22 46 20.0 C
			Mx N 40 19				i 22 46 39.3
			Mx Z 42 20				micr sec
		Ki	iP 19 16 09.3				P Z' 0.6 2.0
			iPP 19 18 25.9				Mx E 7.0 18
			micr sec				Mx N 4.4 18
			P Z' 0.5 1.5				Mx Z 5.7 19
			PP Z' 0.7 2.0			Sk	iP 22 46 54.2 C
			Mx E 47 18			Um	iP 22 46 38.7 C
			Mx N 36 20				iS 22 55 29
			Mx Z 31 19			Ud	iP 22 47 08.6 C
		Sk	iP 19 16 45.6			De	iP 22 47 24.8 C
			iPP 19 19 16.7				iPP 22 50 12.2
		Um	iP 19 16 27.1			Japan (h = 15 km).	
			i 19 16 28.3			m = 6.4, M = 6.0 (Up,Ki).	
			i 19 16 49.2	"	27	Um	iP 23 19 35.0
			iS 19 25 20			Ud	iP 23 20 05.2
		Ud	iP 19 16 57.6			De	iP 23 20 21.5
		De	iP 19 17 15.1			Japan.	
			iPP 19 20 02.5			Origin time = 23 08 46.	
		Japan (h = 30 km).		"	28	Long-period microseisms	
		m = 6.6, M = 6.8 (Up,Ki).				(period around 15 sec), well	
"	27	Up	iP 20 14 51.3			developed especially on Umeå	
		Ki	iP 20 14 38.9			long-period N-component.	
		Sk	iP 20 14 33.0	"	28	Up	iP 00 07 51.6
		Um	iP 20 14 48.2				micr sec
		Ud	iP 20 14 42.0				P Z' 0.4 1.5
		De	iP 20 14 49.1				Mx E 2.9 19
		Mexico (h = 90 km).					Mx N 5.0 19
"	27	Ki	iP 21 22 59.0				Mx Z 4.8 21
		Um	iP 21 23 17.4			Ki	iP 00 07 10.1 C
		Ud	iP 21 23 48.1 D				iPP 00 09 30.3
			ipP 21 23 58.9				micr sec
		Japan.					P Z' 0.3 1.6
		h = 40 km (Ud).					Mx E 6.1 19
		Origin time = 21 12 29.					Mx N 3.6 19
"	27	Up	iP 21 28 56.4				Mx Z 5.1 18
		Um	e(P) 21 29 11			Sk	iP 00 07 44.6 C
		Ud	iP 21 29 11.4			Um	iP 00 07 28.5 C
"	27	Sk	eP 21 43 20				i 00 09 02.4
						Ud	iP 00 07 58.9 C
						De	iP 00 08 15.0 C
						(cont.)	

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

1970				1970			
May	28	(cont.) De iPP Japan (h = 40 km). m = 6.3, M = 5.9 (Up,Ki).	00 10 59.3	May	28	Ki iSg Sk e iSg Um iSn iSg	07 51 01.6 07 51 06 07 51 09.7 07 51 16.2 07 51 31.0
"	28	Ud iP Aleutian Islands (h = 55 km).	01 01 49.0			Nordland, Norway. Origin time = 07 49 35.	
"	28	Up iP Ki iP	01 47 33.7 01 48 36.5	"	28	Sk iPKP Um iPKP	11 52 40.4 11 52 38.2
"	28	Sk iP Ud iP West Pakistan (h = 35 km).	02 17 29.2 02 17 16.2 C			New Hebrides Islands (h = 140 km).	
"	28	Up iP Ki iP Um iP i Ud iP i De iP Turkey (h = 35 km).	02 57 14.4 02 58 21.4 02 57 46.6 02 57 48.6 02 57 31.3 02 57 39.4 02 56 54.8	"	28	Ki iPn iSn iLgl Um iSg	13 24 18.7 13 25 03.9 13 25 18.0 13 26 16.5
"	28	Um iP	03 10 34.9	"	28	Up iP P	15 12 30.6 micr sec Z' 0.1 0.8
"	28	Up iP Ki iP Sk eP Um iP Ud iP i De eP Kurile Islands. Origin time = 04 00 37.	04 11 39.9 D 04 10 51.1 04 11 27 04 11 13.7 04 11 44.9 04 11 58.8 04 12 04	"	28	Up iP P Ki iP P Sk iP Um iP Ud iP De iP	15 26 22.5 D micr sec Z' 0.1 0.7 15 25 51.2 D micr sec Z' 0.1 0.9 15 26 19.4 15 26 04.7 D 15 26 29.4 D 15 26 41.4 D
"	28	Up iPKP Ki ePKP Sk ePKP Um iPKP Ud iPKP De iPKP Santa Cruz Islands (h = N). These readings do not fit the origin time given by the USCGS.	04 33 13.4 04 32 57 04 33 02 04 32 57.3 04 33 10.6 C 04 33 19.5	"	28	Up iP	15 51 05.5 C
"	28	Ki iP	05 16 15.9	"	28	Up iPKP Um iPKP Ud iPKP De iPKP	16 14 42.0 16 14 37.7 16 14 46.2 16 14 56.1
"	28	Ud iP	06 31 26.8	"	28	Up iP Ki iP Sk eP i Um iP Ud iP i De iP	17 49 34.8 17 48 51.2 17 48 59 17 49 07.2 17 49 10.7 17 49 28.0 C 17 50 16.2 17 49 49.3 C
"	28	Up iP Ki iP Um iP Ud iP Kurile Islands (h = 30 km).	06 40 22.9 06 39 34.8 C 06 39 56.9 06 40 27.9 C			Vancouver Island (h = 3 km).	

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

1970				1970						
May	29			May	29	(cont.)				
		Sk	eP	00 22 40		Sk	iP1	10 44 35.9		
		Um	iP	00 22 43.7			iP3	10 44 52.2		
"	29	Up	iP	04 41 56.6			iP4	10 45 04.5		
			i	04 42 43.2		Um	iP1	10 44 12.6		
				micr sec			iP3	10 44 29.6		
			P	Z' 0.1 0.8			iP4	10 44 41.6		
		Ki	iP	04 41 11.1		Ud	iP1	10 44 33.3		
		Sk	iP	04 41 47.1			iP2	10 44 45.5		
		Um	iP	04 41 31.6			iP3	10 44 48.3		
		Ud	iP	04 42 02.9			iP4	10 45 01.5		
		De	iP	04 42 21.3 C		De	iP1	10 44 34.8		
		Kurile Islands (h = 70 km).					iP3	10 44 51.9		
							iP4	10 45 03.9		
"	29	Up	ePKS	05 37 26		Burma-India (h = 45 km).				
				micr sec		Several successive onsets,				
		Mx	E	0.8 21		of which P3 and P4 are very				
		Mx	N	1.2 20		clear, but P2 less clear.				
		Mx	Z	2.0 21		Average time differences are:				
		Ki	ePKP	05 33 41		P2 - P1 = 11.2 sec, P3 - P1 =				
				micr sec		16.3 sec, P4 - P1 = 28.6 sec.				
		Mx	E	2.2 20		"	29	Um	iP	11 10 27.4
		Mx	N	1.3 20				Ud	iP	11 10 48.3
		Mx	Z	2.8 21				De	iP	11 11 10.9
		Sk	iPKP	05 33 47.4		"	29	Sk	e(Sg)	11 28 45
			iPKS	05 37 17.9				Um	i	11 26 52.5
		Um	iPKP	05 33 47.2 C					i(Sg)	11 27 05.1
			iPKS	05 37 12.6		"	29	Ud	i(P)	12 04 35.6
		Ud	iPKP	05 33 53.2 C		"	29	Up	iSg	12 26 39.6
			iPKS	05 37 25.6				Sk	iSg	12 28 30.2
		De	iPKP	05 33 54.4				Um	iSg	12 27 08.1
			iPKS	05 37 35.8				Ud	iLg1	12 27 39.4
		Tonga Islands (h = N).						De	iLg1	12 28 03.7
		M = 5.8 (Up,Ki).						Esthonia.		
		PKS has a relatively long						Origin time = 12 24 27.		
		period (around 3 sec) on						Explosion?		
		all our Z'-records.								
"	29	Ud	iP	07 38 49.1		"	29	Sk	eLg1	13 39 22
		De	iP	07 38 52.2				Um	iSg	13 38 17.9
"	29	Up	iP	08 01 47.2				Ud	i(Lg1)	13 38 32.0
		Ki	iP	08 01 15.1 C				De	eLg1	13 39 08
"	29	Up	iP1	10 44 20.3 D				Probably Baltic States.		
			iP2	10 44 30.5				Explosion?		
			iP3	10 44 36.2		"	29	Sk	i(P)	14 28 20.1
			iP4	10 44 48.5				Ud	i(P)	14 28 23.3
				micr sec		"	29	Up	i(P)	14 34 09.6
			P3	Z' 0.1 0.8				Ud	i(P)	14 36 24.5
			P4	Z' 0.2 0.8		"	29	Um	i(P)	16 53 56.0
		Ki	iP1	10 44 13.6						
				micr sec						
		Mx	E	1.2 14						
		Mx	N	1.5 21						
		Mx	Z	1.6 14						

(cont.)

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

1970				1970					
May	29	Up	ePKP	19 21 17	May	30	Up	iP	04 27 20.9
				micr sec			Ki	iP	04 26 59.5
			Mx	E 2.0 21					micr sec
			Mx	N 5.2 23				Mx	E 0.9 12
			Mx	Z 5.5 21				Mx	N 0.5 13
		Ki		micr sec			Um	iP	04 27 07.1
			Mx	E 2.5 21			Ud	eP	04 27 29
			Mx	N 2.8 22				i	04 27 37.4
			Mx	Z 3.8 20			De	eP	04 27 41
		Sk	iPKP	19 21 17.3			Formosa (h = N).		
		Um	iPKP	19 21 09.0					
			i	19 21 12.1	"	30	Up	iP	08 19 36.3
		Ud	iPKP	19 21 20.3				i	08 19 39.8
			i	19 21 22.1			Ud	iP	08 19 23.3
		De	iPKP	19 21 25.8					
			i	19 21 28.4	"	30	Up	iSg	10 51 29.7
		Santa Cruz Islands					Ki	iSg	10 52 12.9
		(h = 50 km).					Um	iSg	10 50 50.5
		M = 6.2 (Up, Ki).						i	10 50 57.4
"	29	Um	iP	19 43 55.7				e(Rg)	10 51 24
		Ud	iP	19 44 25.0			Ud	iSg	10 52 20.6
		Kurile Islands (h = 45 km).					De	iSg	10 53 05.2
"	29	Up	iPKP	20 48 55.7			Lake Ladoga. Probably explosion.		
			iSKP	20 51 44.7	"	30	Up	iPKP	11 12 12.4
		Sk	iPKP	20 48 50.6			Um	iPKP	11 12 05.2
			i	20 48 58.9				i	11 12 11.2
			eSKP	20 51 38			Ud	iPKP	11 12 14.2
		Um	iPKP	20 48 45.3			De	iPKP	11 12 24.6 C
			i	20 48 51.6				i	11 12 30.8
			i	20 48 56.9			Fiji Islands (h = 620 km).		
			iSKP	20 51 32.4	"	30	Ud	iP	11 49 15.8
		Ud	iPKP	20 48 56.8	"	30	Up	iP	11 56 23.6
			iSKP	20 51 46.1				i	11 56 28.7
		De	iPKP	20 49 07.6 D			Um	eP	11 56 33
			iSKP	20 51 55.3			Ud	iP	11 56 14.7
		Fiji Islands (h = 610 km).			"	30	Um	iP	12 15 57.9
"	29	Um	iP	21 00 19.6			Ud	iP	12 16 26.5
		Ud	iP	21 00 24.4			Japan (h = 30 km).		
"	29	Up	eP	21 28 34	"	30	Up	iP	13 29 05.8
		Ud	iP	21 28 22.3				ipP	13 29 33.3
"	29	Um	iP	22 40 29.1				isP	13 29 45.4
"	29	Um	iP	23 44 17.2					micr sec
		Ud	eP	23 43 59				P	Z' 0.1 0.6
		De	iP	23 43 25.6				Mx	E 0.7 15
		Turkey (h = 25 km).						Mx	N 1.4 17
"	30	Um	i(P)	02 40 50.6				Mx	Z 0.9 15
"	30	De	iP	03 44 31.8			Ki	iP	13 28 47.8
		Loyalty Islands (h = 60 km).						i	13 29 19.6
								isP	13 29 26.3

(cont.)

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

1970				1970						
May	31	Ki	ePn	13 36 55	May	31	Up	iP	20 41 19.6	
			iP ^x	13 37 02.7			Ki	iP	20 40 27.2	
			iSn	13 37 39.9			Um	iP	20 40 49.1	
			iLgl	13 37 54.1				i	20 40 52.4	
		Um	iSn	13 38 22.3			Kamchatka (h = 30 km).			
			iSg	13 38 49.3						
		Probably northwest Russia- Finland border region. Origin time = 13 35 56. Explosion?				"	31	Ki	eP	21 17 40
									Peru (h = N).	
"	31	De	iPg	15 49 33.8	"	31	Um	iP	21 22 28.5	
			iSg	15 49 48.7	"	31	Ud	iP	21 37 19.3	
									Peru (h = 45 km).	
"	31	Up	iP	20 37 13.6	D	"	31	Up	iP	22 01 54.0
			i(PP)	20 40 48				Ki	iP	22 01 58.0
			iPKKP	20 53 23.0					ePP	22 06 13
			i	20 53 41.4				Um	iP	22 01 58.6
			i	20 54 05.8					ipP	22 02 10.9
				micr sec					i(PP)	22 06 28.1
			P	Z' 0.4 1.1				Ud	iP	22 01 44.2
			Mx	E 330 21					ipP	22 01 56.1
			Mx	N 130 22				Peru. h = 45 km (Um,Ud).		
			Mx	Z 370 21						
		Ki	iP	20 37 17.4		"	31	Up	eP	22 28 38
			iPP	20 41 26				Ud	iP	22 28 36.3
			iPKKP	20 53 30.7					i	22 28 40.7
			i	20 53 51.0						
			i	20 54 05.6						
				micr sec						
			P	Z' 1.0 2.0						
			Mx	E 120 19						
			Mx	N 77 18						
			Mx	Z 140 19						
		Sk	eP	20 37 01						
			i	20 37 04.4						
			i	20 37 36.0						
			iPKKP	20 53 38.7						
		Um	iP	20 37 18.0						
			i	20 37 20.5						
			i	20 41 57.4						
			iPKKP	20 53 22.1						
			i	20 53 46.5						
			iP'P'	21 01 53.7						
		Ud	iP	20 37 04.5	D					
			i	20 37 57.4						
			i	20 38 02.4						
			iP'P'	21 01 41.2						
		De	iP	20 37 05.8						
			i	20 37 49.9						
			i	20 38 03.5						
			iPKKP	20 53 27.2						
			i	20 53 34.3						
			iP'P'	21 01 54.0						
		Peru (h = 45 km).								
		m = 7.0, M = 7.7 (Up,Ki).								

Markus Båth
April 23, 1971

SEISMOLOGICAL INSTITUTE
BOX 517
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SWEDEN

SEISMOLOGICAL BULLETIN

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

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

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

J U N E 1 - 30, 1970
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1970					1970				
June	1	Up	iP	01 20 26.8	June	1	Up	iP	04 58 36.0
			i	01 20 29.8			Ki	iP	04 58 39.7
		Sk	eP	01 21 09				iPP	05 02 52.5
		Um	iP	01 21 08.1			Sk	iP	04 58 24.8
		Ud	iP	01 20 37.0			Um	iP	04 58 40.5
		Greece-Albania (h = 70 km).						iPP	05 03 00.5
"	1	Ud	iP	01 26 10.1 C			Ud	iP	04 58 26.5
		Peru (h = 45 km).					Peru (h = 45 km).		
"	1	Up	iP	01 49 57.1	"	1	Up	iP	06 17 36.3
			ipP	01 50 09.7			Sk	iP	06 17 16.1
		Ki	iP	01 50 00.9			Um	iP	06 17 32.0
		Sk	i(pP)	01 49 59.5			Mexico (h = 60 km).		
		Um	iP	01 50 02.1 C	"	1	Um	iP	06 48 34.4
			ipP	01 50 14.8				i	06 48 49.6
		Ud	iP	01 49 48.3			Turkey.		
			ipP	01 50 00.7	"	1	Um	iP	07 23 31.1
		De	ipP	01 50 01.4			Japan (h = 50 km).		
		Peru.			"	1	Ud	iP	07 24 38.4 C
		h = 45 km (Up,Um,Ud).					De	iP	07 24 49.1
"	1	Up	iP	02 59 08.6	"	1	Ud	iP	08 00 26.1
				micr sec			Crete.		
		Mx	E	1.1 20	"	1	Ud	iP	10 46 17.4
		Mx	N	1.2 20			Ud	iP	10 46 54.8
		Mx	Z	1.6 20			De	iP	10 47 06.0
		Ki	iP	02 59 12.8	"	1	Um	iP	13 12 52
				micr sec			Ud	iP	13 11 34.2
		Mx	E	0.9 20			Ud	iLg1	13 12 00.2
		Mx	N	0.8 20			Esthonia.		
		Mx	Z	1.6 20			Origin time = 13 08 50.		
		Um	eP	02 59 14			Explosion?		
			i(PP)	03 02 59.4					
		Ud	iP	02 58 59.0					
		Peru (h = 70 km).							
		M = 5.4 (Up,Ki).							

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

1970				1970			
June	1	Ud	iP	14 58 29.4	June	2	(cont.)
"	1	Up	iSg	15 42 54.9			Mx N 0.6 18
		Ud	i	15 41 56.0			Mx Z 1.3 20
			iSg	15 41 58.9		Sk	iP 01 50 59.1
		De	iSg	15 42 35.6			i 01 51 15.2
		Dalsland, Sweden,				Um	iP 01 51 14.8
		58.8°N, 12.3°E.					i 01 51 31.0
		Origin time = 15 41 17.					iPP 01 55 32.0
						Ud	iP 01 51 00.9
							i 01 51 15.8
"	1	Um	iPKP	16 16 30.9		De	iP 01 51 02.0
		Solomon Islands (h = 35 km).					i 01 51 18.1
"	1	Up	iP	17 57 15.8		Peru.	
			ipP	17 57 22.4		m = 6.3, M = 5.4 (Up,Ki).	
				micr sec		The second phase is	
		Mx	E	1.1 19		considerably bigger than	
		Mx	N	2.0 24		the first. Interpreted as	
		Mx	Z	1.6 20		pP, it gives a focal depth	
		Ki	iP	17 57 13.6		of 60 km, or else it may be	
				micr sec		P of another shock in the	
		P	Z'	0.1 1.5		same place, 16 sec later.	
		Mx	E	1.9 20	"	2	Up iP 03 09 18.5
		Mx	N	1.3 20			ipP 03 09 44.9
		Mx	Z	1.9 20			iPcS 03 13 59.8
		Sk	iP	17 57 01.6 C			i 03 18 57
			ipP	17 57 08.7			micr sec
		Um	iP	17 57 17.5			P Z' 0.1 1.0
			ipP	17 57 24.5			Mx E 0.6 15
			iS	18 08 10			Mx N 1.0 20
		Ud	iP	17 57 06.6		Ki	iP 03 08 21.9 C
		De	iP	17 57 10.1			iPcS 03 13 25.5
		South of Panama.					iS 03 15 28
		h = 25 km (Up,Sk,Um).					i(ScS) 03 18 02
		M = 5.6 (Up,Ki).					micr sec
"	1	Ki	eP	21 27 11			P Z' 0.2 1.0
"	1	Um	iP	22 57 30.0			Mx E 0.3 15
		Ud	iP	22 58 07.6			Mx N 0.5 14
		De	iP	22 58 15.5			Mx Z 1.0 18
		USSR-Mongolia.				Sk	iP 03 08 49.9
"	2	Up	eP	01 51 09			ipP 03 09 20.3
			i	01 51 25.3			iPcS 03 13 41.9
				micr sec			iS 03 16 21.6
		P	Z'	0.1 1.1		Um	iP 03 08 51.1
		Mx	E	1.0 21			ipP 03 09 17.5
		Mx	N	1.0 20			iPcS 03 13 42.1
		Mx	Z	1.7 21			iS 03 16 22.5
		Ki	iP	01 51 13.0		Ud	iP 03 09 14.9 C
			i	01 51 29.1			iPcS 03 13 57.3
				micr sec		De	iP 03 09 39.7 C
		P	Z'	0.1 1.2		Alaska.	
		Mx	E	0.9 20		h = 120 km (Up,Sk,Um).	
		(cont.)				m = 6.0, M = 5.0 (Up,Ki).	
						Exceptionally clear PcS	
						recorded by Z'.	

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

1970				1970						
June	2	Um	iP	08 10 13.5	June	2	Up	iPKP	21 51 02.9	
		Ud	iP	08 10 28.9			Ki	iPKP	21 50 53.5	
		Molucca Passage (h = 35 km).					Um	iPKP	21 50 54.9	
"	2	Up	iP	12 16 30.4			i		21 51 00.9	
		Ki	i(P)	12 16 42.8			Ud	iPKP	21 51 04.7	
		Ud	i(P)	12 16 44.5			De	iPKP	21 51 15.9 C	
		Fiji Islands.								
"	2	Um	iP	12 21 08.5	"	2	Up	iP	23 03 44.8	
		De	eP	12 21 22			Um	i(P)	23 03 20.3	
"	2	Ud	i(P)	12 52 20.9			Ud	iP	23 03 52.2	
							De	iP	23 04 05.5	
"	2	Up	i(P)	13 47 41.7	"	2	Up	iP	23 44 28.6	
		i		13 48 00.1			iPcP		23 44 54.6	
"	2	Up	iSg	18 44 27.4			Ki	iP	23 43 42.0	
		Ki	i	18 41 57.0					micr sec	
		iSg		18 42 17.9			Mx	E	0.6 16	
		Sk	ePg	18 41 43			Mx	N	0.7 18	
		iSg		18 42 21.6			Mx	Z	1.3 20	
		Um	iSn	18 42 30.9			Sk	iP	23 44 18.2	
		iSg		18 42 44.0			Um	iP	23 44 03.4	
		Ud	i(Lgl)	18 44 11.0			Ud	iP	23 44 34.5	
		Nordland, Norway,					iPcP		23 44 58.4	
		66.4°N, 14.8°E.					De	iP	23 44 53.0	
		Origin time = 18 40 49.					Kurile Islands (h = 20 km).			
		Explosion?				"	3	Up	eP	00 37 14
"	2	Um	iP	19 35 44.2			i		00 41 08.9	
		Ud	iP	19 36 41.6			Ud	iP	00 37 04.1	
							i		00 40 55.6	
"	2	Up	iP	21 04 39.1	"	3	Up	iP	02 40 36.4	
		Ki	iP	21 04 41.0						
		Um	eP	21 04 24	"	3	Um	e(P)	03 46 25	
		Ud	iP	21 04 40.5			Ud	iP	03 46 26.9	
"	2	Up	iPKP	21 20 17.9			i		03 46 30.2	
		iPKS		21 23 37.0			De	i(P)	03 46 11.1	
		Ki	iPKP	21 20 05.7	"	3	Um	iSg	11 45 42.5	
		Sk	iPKP	21 20 14.7			Ud	iLgl	11 46 12.6	
		iPKS		21 23 27.0			De	iLgl	11 46 37.9	
		Um	iPKP	21 20 11.8			Esthonia.			
		iPKS		21 23 20.2			Origin time = 11 43 01.			
		Ud	iPKP	21 20 18.2			Explosion?			
		iPKS		21 23 37.0	"	3	Sk	iP	12 51 57.0	
		New Hebrides Islands					Ud	e	12 51 37	
		(h = 160 km).				"	3	Sk	iP	12 55 41.9
"	2	Up	iPKP	21 49 03.8			De	i(P)	12 56 02.7	
		Ki	iPKP	21 48 58.6	"	3	Ki	iPn	13 06 38.7	
		Um	iPKP	21 48 55.6			iSn		13 07 26.6	
		Ud	iPKP	21 49 05.5			iLgl		13 07 42.8	
		De	iPKP	21 49 17.0			(cont.)			
		Fiji Islands (h = 390 km).								

Up = Uppsala, K1 = Kiruna, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1970				1970			
Month	Day	Station	Time	Month	Day	Station	Time
June	3	(cont.) Um iSg	13 09 12.7	June	4	Ud iP	00 52 10.7
		Probably northwest Russia. Origin time = 13 05 35. Explosion?				Indian Ocean (h = N).	
"	3	Ud i(Sg)	13 22 00.2	"	4	Up iP	04 23 13.1
		De i(Sg)	13 22 19.5			Mx E	4.9 21
"	3	De iP	13 41 43.5			Mx N	1.9 19
		i(Sg)	13 42 22.0			Mx Z	5.8 20
"	3	Ud iP	14 12 47.0			Ki iP	04 23 19.0
		De iP	14 12 02.2			Mx E	3.3 20
"	3	Ud i(P)	14 46 46.7			Mx N	1.3 20
		De iP	14 44 24.7			Mx Z	4.4 20
		i	14 45 24.4			Um iP	04 23 17.3
"	3	Um iP	16 02 34.8			iPP	04 27 37.9
		Ud iP	16 02 09.8			iSKS	04 33 52
"	3	De iP	17 35 34.4			iS	04 34 57
"	3	Up iSg	18 06 16.3			Ud iP	04 23 03.8
		Ud iPg	18 04 55.9			De iP	04 22 58.9
		iSg	18 05 18.2			i	04 23 20.0
		De iSg	18 06 01.5			Peru (h = 60 km).	
		i	18 06 16.2			M = 6.1 (Up,Ki).	
		Oslo Fjord, 59°N, 11°E. Origin time = 18 04 22.		"	4	Ki iP	09 16 05.9
"	3	Up iP	18 14 05.6			Um iP	09 16 19.5
		Ki iP	18 13 37.8			Ud iP	09 16 44.5
		ipP	18 14 15.5	"	4	Ud iP	10 15 30.9
		Ud eP	18 14 10	"	4	Sk eSg	13 37 00
		Mariana Islands. h = 150 km (Ki).				Um iSg	13 35 45.1
"	3	Up iP	22 50 22.4			Ud iSn	13 35 44.8
		Sk iP	22 50 23.3			iLg1	13 36 18.6
		Um iP	22 50 03.1			De iLg1	13 36 43.5
		Ud iP	22 50 37.1 C			Esthonia. Origin time = 13 33 03. Explosion?	
		De iP	22 50 48.6 C	"	4	Ki iPn	14 01 18.7
"	3	Up iPKP	22 56 27.6			iSn	14 02 05.1
		Ki iPKP	22 56 13.4 C			iSg	14 02 22.5
		Sk iPKP	22 56 24.3 C			Sk iLg1	14 05 02.1
		Um iPKP	22 56 19.7			Um iSg	14 03 54.7
		Ud iPKP	22 56 29.4			Northwest Russia, 69.4°N, 30.0°E. Origin time = 14 00 18. Explosion?	
		iPKS	22 59 32.4	"	4	Ki iP	14 45 38.7
		De iPKP	22 56 36.3 C			Um iP	14 45 41.7
		iPKS	22 59 43.4	"	4	Ud i(Sg)	16 08 18.1
		New Hebrides Islands (h = 220 km).				De e(Sg)	16 07 32
						i	16 07 39.4

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

1970				1970									
June				June									
"	4	Up	iP	21 03	58.1	"	5	Ud	iPg	08 51	09.1		
		Ki	iPn	21 04	51.0			iSg	08 51	34.1			
		Sk	iPn	21 04	58.4			iRg	08 51	46.3			
		Um	iP	21 04	10.4								
			i	21 04	11.9								
		Ud	iP	21 04	14.2 C								
		De	e(P)	21 04	07								
Caucasus.													
Origin time = 20 58 39.													
"	4	Up	iP	21 28	53.0	"	5	Up	iP	10 11	22.8		
		Ki	iP	21 28	01.0			Sk	iP	10 12	02.7		
		Ud	iP	21 28	43.3			Um	iP	10 11	59.3		
"	4	Ud	iP	23 00	27.3	"	5	Ud	iP	10 11	29.9		
								i	10 11	35.4			
"	5	Up	iP	05 00	43.7	"	5	De	iP	10 10	54.2 C		
			iPP	05 02	12.4			Greece (h = 100 km).					
			iS	05 06	48								
					micr sec								
			P	Z'	0.7 1.0			"	5	Up	iP	10 40	53.8
			PP	Z'	0.8 1.2								
			Mx	E	150 8								
			Mx	N	220 9								
			Mx	Z	150 8								
			Ki	iP	05 00					36.9			
				iPP	05 02					07.2			
				iS	05 06					38			
					micr sec								
		P	Z'	0.5 1.0									
		PP	Z'	0.4 1.5									
		Mx	E	200 12									
		Mx	N	120 9									
		Mx	Z	180 11									
	Sk	iP	05 01	02.8 C									
	Um	iP	05 00	34.4 C									
		iPP	05 02	10.9									
		iS	05 06	33									
	Ud	iP	05 01	00.2 C									
	De	iP	05 01	03.5 C									
Tien-Shan (h = 20 km).													
m = 6.2, M = 7.5 (Up,Ki).													
"	5	Um	iPKP	07 50	34.6	"	5	Um	iP	11 37	52.3		
			iPKP2	07 50	59.8								
		Ud	iPKP2	07 51	08.2								
Macquarie Islands (h = 15 km).													
"	5	Up	Mx	08 03		"	5	Up	iP	12 04	00.5		
					micr sec								
			Mx	E	0.9 19								
			Mx	N	1.3 21								
			Mx	Z	1.4 21								
Indian Ocean (h = N).													
"	5					"	5	Ki	iP	14 04	47.3		
				Rumania (h = 130 km).									
				(cont.)									

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

1970				1970			
June	5	(cont.)		June	6		
		Sk eP	14 05 22		Up	iP	02 01 09.8
		Um iP	14 05 13.8		Sk	iP	02 01 27.9
		Ud iP	14 05 40.0		Um	iP	02 01 03.4
		De eP	14 06 03		Ud	iP	02 01 24.0
		Aleutian Islands (h = 45 km).		"	6	Up	iPKP
						i	06 33 55.7 C
"	5	Ud iP	14 17 18.9		Sk	iPKP	06 34 00.0
					i		06 33 56.2
"	5	Up iPg	15 32 53.0		Um	iPKP	06 33 59.7
		iSg	15 33 24.5		i		06 34 03.5
		Sk eLgl	15 34 47		Ud	iPKP	06 34 07.9
		Ud iPg	15 32 40.4		i		06 33 51.3 C
		iSg	15 33 03.0		De	iPKP	06 33 55.8
		iRg	15 33 15.0		i		06 33 45.9 C
		De iPg	15 32 45.3				06 33 50.2
		iSg	15 33 14.1				South Pacific Ocean (h = N).
		Västergötland, Sweden.					Double PKP at all stations.
		Origin time = 15 32 05.		"	6	Ki	iPg
		Explosion?				iSg	06 51 24.1
					Sk	iPg	06 52 01.9
"	5	Up iP	17 02 38.8		iSg		06 51 29.0
		Sk iP	17 01 50.5		Um	iSn	06 52 08.5
					iSg		06 52 15.9
"	5	Sk iPKP	17 26 10.1				06 52 29.0
		Um iPKP	17 26 03.9				Nordland, Norway,
		New Zealand (h = 130 km).					66.5°N, 14.0°E.
							Origin time = 06 50 28.
"	5	Up iP	22 50 56.0 C	"	6	Up	iP
		ipP	22 51 06.8			Um	iP
		iS	22 59 28			Ud	iP
							07 06 43.9
							07 06 15.9
							07 06 48.6
		P	Z' 0.8 1.1	"	6	Ki	eP
		Mx	E 1.7 22			i	07 10 31
		Mx	N 2.0 20			Sk	iP
		Mx	Z 1.7 21			Ud	iP
		Ki iP	22 50 02.4 C				07 10 54.9
							07 10 53.6
							Tien-Shan.
		P	Z' 0.4 1.1	"	6	Up	iP
		Mx	E 2.1 18			Sk	iP
		Mx	N 1.0 17			Um	iP
		Mx	Z 0.9 13			Ud	iP
		Sk iP	22 50 39.2 C				08 37 48.7
		Um iP	22 50 27.5 C				08 38 04.5
		Ud iP	22 50 59.4 C	"	6	Up	iP
		De iP	22 51 20.8 C			Ki	iP
		ipP	22 51 32.7			Ud	iP
						i	10 38 09.7
							10 38 33.3
							10 38 36.2
		Kamchatka.					Mindanao (h = 50 km).
		h = 40 km (Up,De).		"	6	Um	iP
		m = 6.6, M = 5.4 (Up,Ki).				Ud	iP
"	6	Ud iP	00 07 17.9				12 52 35.8
							12 52 48.0
"	6	Sk i(P)	00 59 17.6	"	6	Up	iP
		Ud iP	00 59 09.3			ipP	13 11 54.2
						(cont.)	13 15 35.7

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

Year	Month	Day	Station	Phase	Time (hr:min)	Amplitude (micr)	Duration (sec)	Notes	
1970	June	6	Up	P	Z'	0.1	0.5		
			Ki	iPKP		13 11	26.8	D	
				iPP		13 14	55.9		
				P	Z'	0.2	1.0		
			Sk	iP		13 11	51.5	D	
				ePP		13 15	31		
			Um	iP		13 11	38.4	D	
				iPP		13 15	13.9		
			Ud	iP		13 12	00.6	D	
				iPP		13 15	51.7		
			De	iP		13 12	11.5		
				iPP		13 16	11.3		
			Mariana Islands (h = 600 km).						
			m = 5.9 (Up,Ki).						
"	"	6	Up	iP		13 18	28.2		
			Ki	iP		13 18	00.4		
			Mariana Islands (h = 570 km).						
"	"	6	Up	iPKP		14 55	49.1	C	
			Ud	iPKP		14 55	50.8	C	
			De	iPKP		14 56	00.1		
			Kermadec Islands (h = 50 km).						
"	"	6	Up	i(Sg)		15 48	42.0		
			Um	i(Sg)		15 49	56.0		
			Ud	e(Sg)		15 49	25		
			Probably Baltic States.						
"	"	6	Up	iSg		17 15	50.1		
			Ud	i		17 16	07.2		
				iSg		17 16	17.9		
			De	ePg		17 13	51		
				iSg		17 14	40.7		
			Near south coast of the Baltic Sea (northern Poland).						
"	"	6	Up	iPKP		18 02	07.7		
			Ud	iPKP		18 02	08.1		
			De	iPKP		18 02	20.1	D	
			Fiji Islands (h = 620 km).						
"	"	7	Up	iP		02 31	01.9		
			Um	iP		02 31	19.7		
			Ud	iP		02 31	23.5		
"	"	7	Up	iP		04 23	54.3		
			Ki	iP		04 23	14.2		
			Um	iP		04 23	36.9		
			Ud	iP		04 23	48.5		
			California (h = N).						
1970	June	7	Up	iPKP		04 38	52.4		
			Ki	iPKP		04 38	38.8		
			Um	iPKP		04 38	45.5		
			Ud	iPKP		04 38	55.2		
			De	iPKP		04 39	01.5		
			New Hebrides Islands (h = 190 km).						
"	"	7	Up	iLgl		07 08	27.2		
				i		07 08	34.7		
			Ki	iPn		07 04	19.1		
				iSn		07 05	17.0		
				iLgl		07 05	38.7		
			Sk	iLgl		07 08	04.3		
			Um	iSn		07 05	58.1		
				eSg		07 06	31		
			Ud	eSn		07 07	52		
				iLgl		07 08	58.0		
			De	iLgl		07 10	31.3		
			Northwest Russia, 67.6°N, 33.2°E.						
			Origin time = 07 03 04.						
			Explosion?						
			This is one of the very few events in this area which has been well recorded over the whole network.						
"	"	7	Up	iP		07 56	13.6		
			Ki	iP		07 56	52.2		
			Sk	iP		07 56	45.7		
			Um	iP		07 56	29.8		
			Ud	iP		07 56	25.4		
			Gulf of Aden.						
"	"	7	Ud	iP		11 46	21.7		
"	"	7	Up	iP		13 39	50.3	D	
				iPcP		13 40	25.0		
				P	Z'	0.1	0.5		
			Ki	iP		13 38	59.8	D	
				P	Z'	0.1	0.6		
			Sk	iP		13 39	36.0		
			Um	iP		13 39	23.1	D	
			Ud	iP		13 39	55.2	D	
				iPcP		13 40	27.2		
			De	iP		13 40	15.7		
			Okhotsk Sea (h = 450 km).						
			m = 5.5 (Up,Ki).						
"	"	7	Ud	i(P)		14 29	42.3		
			De	iP		14 29	52.9		

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

1970						1970	
June	7	Up	iP	17 35	49.9	June	8 (cont.)
		Ki	eP	17 35	29		Ki iP 04 07 12.3 D
		Um	iP	17 35	36.4		eS 04 17 04
		Ud	iP	17 35	59.9		Sk iP 04 07 39.7
		De	iP	17 36	08.2		ipP 04 07 59.0
		Luzon (h = 160 km).					Um iP 04 07 25.3
"	7	Up	iP	17 55	12.8		ipP 04 07 45.0
		Ki	iP	17 55	54.1		iS 04 17 29.5
		Sk	iP	17 55	50.8	Ud	iP 04 07 49.3
		Um	iP	17 55	28.3		iPP 04 11 10.1
		Ud	iP	17 55	28.5		iS 04 18 15.1
		De	iP	17 55	12.1	De	eP 04 08 01
		Iran (h = 50 km).					i 04 08 07.8
"	7	Up	iP	18 04	53.5		Volcano Islands.
		Ki	iP	18 04	11.7		h = 70 km (Up,Sk,Um).
		Um	iP	18 04	30.0	"	8 Um iP 04 37 37.4
		Ud	iP	18 05	00.3		Ud iP 04 38 08.5
		Japan (h = 60 km).					Japan (h = 80 km).
"	7	Up	iP	18 36	33.2	"	8 Sk iP 06 56 03.0
		Ud	iP	18 36	48.6		Um iP 06 56 03.1
"	7	Up	iP	19 54	16.0		Ud iP 06 55 25.8
		Um	iP	19 53	59.4		De iP 06 54 46.8
		Ud	iP	19 54	12.1		Albania (h = 40 km).
			i	19 54	19.2	"	8 Up iP 07 13 29.4
"	7	Ud	iP	20 36	13.7		i 07 13 40.1
			ipP	20 36	54.2		Ki iP 07 13 40.4 C
		Kurile Islands.					i 07 13 50.2
		h = 160 km (Ud).					Sk iP 07 13 56.0
"	7	Ki	iP	22 25	21.5		Um iP 07 13 27.9
		Um	iP	22 25	25.3		Ud iP 07 13 45.9 C
		Ud	iP	22 25	43.3		De iP 07 13 41.6
		Celebes (h = 140 km).					Hindu Kush (h = 45 km).
"	8	Up	iP	00 36	02.2	"	8 Ud iP 08 19 29.1
		Um	iP	00 36	16.9	"	8 Ud eP 10 50 05
"	8	Up	eP	02 19	21		i 10 50 06.9
		Ud	iP	02 19	39.8		Aleutian Islands (h = 50 km).
"	8	Up	iP	03 31	27.9	"	8 Um iP 11 55 28.4
		Ki	iP	03 31	34.0		Ud iP 11 55 45.7 C
		Sk	iP	03 31	15.9		Afghanistan.
		Um	iP	03 31	35.0	"	8 Up iP 12 38 20.0
		Ud	iP	03 31	18.4		Ki eP 12 38 56
		De	iP	03 31	19.3		ipN 12 39 23.8
		Venezuela (h = N).					Sk eP 12 38 56
"	8	Up	iP	04 07	43.0		i 12 39 09.8
			ipP	04 08	02.2		i 12 39 44.1
		(cont.)					Um iP 12 38 31.2
							i 12 38 34.9
							Ud iP 12 38 37.2 C
							De iP 12 38 25.2
							i 12 39 05.7
							Caucasus (h = N).

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

1970				1970			
June				June			
8	Up	iSg	13 53 57.1	9	(cont.)		
	Ki	eSg	13 56 29		Ud	ipP	10 42 35.4
	Sk	iSg	13 55 45.9		Gulf of Aden.		
	Um	iSg	13 54 28.2		h = 40 km (Ud).		
	Ud	iLgl	13 54 59.3	"	9	Up	micr sec
	De	iLgl	13 55 21.7			Mx	E 0.8 20
	Esthonia,					Mx	N 1.1 21
	59.7°N, 25.6°E.					Mx	Z 1.8 22
	Origin time = 13 51 46.					Ki	iPKP 11 14 09.2
	Explosion?						micr sec
"	8	Up	iP 16 21 13.3			Mx	E 1.4 19
		Ud	iP 16 21 19.3			Mx	N 0.9 19
			i 16 21 37.7			Mx	Z 1.9 20
		De	i(P) 16 21 45.8			Sk	iPKP 11 14 15.2
"	8	Sk	iP 16 55 30.0			Um	iPKP 11 14 13.1
		Colombia (h = 160 km).				Ud	iPKP 11 14 19.7
"	8	Ud	iSg 17 44 10.6			De	iPKP 11 14 29.7
		De	iPn 17 41 37.0			Samoa Islands (h = N).	
			iSn 17 42 18.5			M = 5.7 (Up,Ki).	
			iSg 17 42 29.1	"	9	Sk	iP 12 36 13.1
"	8	Um	iP 19 25 19.9			Mexico (h = 25 km).	
		Afghanistan.		"	9	Up	iP 13 23 59.8
"	8	Um	iP 22 49 25.3			Ki	iP 13 23 24.4
		Ud	iP 22 49 16.0			Ud	iP 13 24 11.6
"	9	Up	iP 01 35 23.7			De	iP 13 24 36.8
		Um	iP 01 35 06.7				i 13 24 46.0
		Ud	iP 01 35 19.4	"	9	Ki	iPn 13 24 25.2
"	9	Sk	iP 03 16 29.3				iSn 13 25 17.9
		Ud	iP 03 16 19.2				iLgl 13 25 36.7
"	9	Up	iP 06 31 18.5			Probably northwest Russia.	
		Ki	iP 06 31 54.0			Origin time = 13 23 17.	
			i 06 33 03.5			Explosion?	
		Sk	i 06 32 04.4	"	9	Ud	iP 14 38 15.7
		Um	iP 06 31 29.5	"	9	Um	iP 14 45 46.3
			i 06 31 33.0			Ud	iP 14 45 31.5
		Ud	iP 06 31 35.0			Turkey.	
		De	eP 06 31 26	"	9	Ud	iP 16 31 14.6
		Caucasus.		"	9	Sk	iPKP 16 34 10.3
		Origin time = 06 25 59.				Um	iPKP 16 34 04.8
"	9	Ud	iP 07 45 24.0			Ud	iPKP 16 34 15.9
"	9	Ki	iP 10 42 51.8 C				iPKS 16 37 27.1
		Sk	iP 10 42 43.9			De	iPKS 16 37 38.7
			i 10 42 50.9			New Hebrides Islands	
		Um	i(P) 10 42 38.1			(h = 160 km).	
		Ud	iP 10 42 24.8	"	9	Ki	eSg 17 53 03
		(cont.)				Sk	eSg 17 53 10
						Um	iSg 17 53 22.1
						Nordland, Norway.	

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

1970				1970					
June	9	Up	iP	20 48 42.8	June	10	Up	iP	08 30 39.1
		Ud	iP	20 48 48.8			Ki	iP	08 30 08.2
		Dodecanese Islands					Sk	eP	08 30 39
		(h = 55 km).					Ud	eP	08 30 48
								i	08 30 56.6
"	9	Up	iP	20 56 42.0			Japan (h = 70 km).		
		Sk	eP	20 56 04	"	10	Ud	i(P)	09 24 12.8
		Um	iP	20 56 35.4					
			i	20 57 07.3	"	10	Ki	i(Sg)	11 44 17.8
		Ud	iP	20 56 15.3			Sk	i(Sg)	11 47 04.2
"	10	Up	iP	00 27 49.4			Um	i(Sg)	11 45 32.6
		Ki	iP	00 26 56.9	"	10	Sk	eSg	12 32 28
		Um	iP	00 27 21.7			Ud	iSg	12 31 11.0
		Ud	iP	00 27 53.2			De	iSg	12 32 09.4
"	10	Up	i(P)	03 12 20.8			South Norway, 59.5°N, 10.4°E, Origin time = 12 30 15. Solution confirmed by Kongsberg readings.		
		Ud	i(P)	03 13 11.0	"	10	Ki	iSg	13 03 47.4
			i	03 13 13.5			Sk	iLgl	13 02 52.2
		De	i(P)	03 12 35.2			Um	iSg	13 01 44.5
"	10	Um	iP	03 43 10.7			Ud	iSn	13 01 38.6
		Ud	iP	03 42 56.1			De	e	13 02 20
"	10	Up	iP	05 22 08.7			Probably Esthonia. Explosion?		
				micr sec	"	10	Um	iP	13 23 23.0
		Mx	E	0.8 11	"	10	Ki	eP	14 05 04
		Mx	N	0.5 11			Ud	eP	14 05 52
		Mx	Z	0.9 11			Japan (h = 60 km).		
		Ki	iP	05 23 13.8	"	10	Sk	iPKP	15 43 10.0
				micr sec			Um	iPKP	15 43 05.4
		Mx	E	0.5 12			Ud	iPKP	15 43 14.0
		Mx	N	0.3 10			New Hebrides Islands (h = 120 km).		
		Mx	Z	0.7 13	"	10	Ud	iPg	15 51 37.9 C
		Sk	iP	05 22 50.6				iSg	15 51 58.1
		Um	iP	05 22 38.5				iRg	15 52 07.1
			iS	05 27 08			De	iSg	15 52 52.4
		Ud	iP	05 22 20.1 C			Oslo Fjord, 59.3°N, 10.8°E. Origin time = 15 51 07. Explosion? Solution by combination with Kongsberg reading.		
		De	eP	05 21 47	"	10	Up	iP	16 28 44.6
		Turkey (h = 25 km).						i	16 28 46.1
		M = 4.6 (Up,Ki).						iScS	16 38 39
"	10	Up	iPKP	06 16 59.6			(cont.)		
		Sk	iPKP	06 16 49.9					
		Um	iPKP	06 16 44.3					
		Ud	iPKP	06 16 58.1 C					
		De	iPKP	06 17 10.3					
		Kermadec Islands (h = 25 km).							
"	10	Sk	iP	07 13 10.2					
		Um	iP	07 13 03.7					
		Ud	iP	07 13 16.1					
			i	07 13 23.2					
		De	iP	07 13 37.2	"	10	Up	iP	16 28 44.6
"	10	Ud	iP	08 23 14.9 C				i	16 28 46.1
								iScS	16 38 39

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

1970		(cont.)				1970		(cont.)	
June	10	Up	iP'P'	16 56	58.6	June	11	Up	
				micr	sec			micr sec	
		P	Z'	0.1	0.5			Mx	E 3.1 20
		P'P'	Z'	0.6	2.5			Mx	N 3.1 19
		Mx	E	3.4	20			Mx	Z 3.9 20
		Mx	N	6.1	19		Ki	iP	06 17 17.1
		Mx	Z	5.5	19			iPKP	06 21 18.1
		Ki	iP	16 27	57.4 C			iPP	06 22 06.0
			iPcP	16 28	48.5			iSKS	06 27 51
			iScS	16 37	46			i(PKKP)	06 32 10.3
			iP'P'	16 57	15.3			iPKKP	06 32 18.4
				micr	sec			iP'P'	06 40 40.5
		P	Z'	0.1	1.1				micr sec
		P'P'	Z'	0.5	2.7			PKP	Z' 0.2 1.7
		Mx	E	4.6	18			Mx	E 5.9 22
		Mx	N	2.9	21			Mx	N 2.8 18
		Mx	Z	7.8	22			Mx	Z 7.8 22
		Sk	iP	16 28	33.8			Sk	eP 06 17 13
			iPcP	16 29	03.7				iPKP 06 21 01.9
			iP'P'	16 57	00.3				iPP 06 21 32.1
			i	16 57	20.4				i(PKKP) 06 32 25.2
		Um	iP	16 28	20.3			Um	iP'P' 06 40 48.2
			i	16 28	22.4				iP 06 17 16
			iPcP	16 28	55.0				iPKP 06 21 16.4
			iP'P'	16 57	03.8				iPP 06 21 55.7
		Ud	iP	16 28	49.9 C				iSKS 06 27 44
			i	16 28	51.4				i(PKKP) 06 32 13.4
			iP'P'	16 56	54.1				iPKKP 06 32 22.6
			i	16 57	09.3				iP'P' 06 40 41.9
		De	iP	16 29	09.3			Ud	iP 06 17 07.0
		Kurile Islands (h = 60 km).							ipP 06 17 30.5
		m = 6.1, M = 5.9 (Up,Ki).							i(PP) 06 20 10.7
"	10	Ud	eP	17 50	04				iPKP 06 21 01.5
		Turkey (h = 20 km).							iPP 06 21 26.9
"	10	Um	iP	19 47	05.0				iPKKP 06 32 39.8
		Ud	iP	19 46	41.8				i 06 33 10.6
		De	eP	19 46	11			De	iP'P' 06 40 49.8
		Dodecanese Islands (h = 30 km).							iP 06 16 56.4
"	10	Ki	iP	21 28	48.1				ipP 06 17 25.7
		Ud	iP	21 28	36.2				e(PP) 06 20 06
"	10	Ud	iP	23 57	54.3				iPKP 06 20 54.3
		De	iP	23 58	06.0				iPKKP 06 32 45.6
"	11	Up	iP	03 45	02.8				i 06 33 17.4
		Um	i(P)	03 44	52.5				iP'P' 06 40 48.4
		Ud	iP	03 45	05.2 C			Chile-Argentina.	
"	11	Up	iPKP	06 21	11.9 C			h = 100 km (Ud,De).	
			iPP	06 21	38			M = 6.2 (Up,Ki).	
			iP'P'	06 40	45.5			(PP) at Ud,De denotes early arrivals of PP. The time difference P'P'-PKP is 15-16 sec less than according to Gutenberg's table (Trans. Amer. Geophys. Union, Vol. 32, 1951, pp. 373-390). PKKP exhibits double onsets.	
		(cont.)							

Up - Uppsala, M - Murmansk, Sk = Skalistugan, Um = Umeå, Ud = Uddeholm, De = Delary

1970				1970			
Month	Day	Station	Type	Time	Time	Time	Time
June	12	Up	iP	06 49 49.7	June	12	(cont.)
		Ki	iP	06 49 14.1			Um i 16 07 39.9
		Sk	iP	06 49 48.3			Ud iP 16 08 02.2
		Um	iP	06 49 28.4			i 16 08 04.7
		Ud	iP	06 49 54.6			De iP 16 08 04.1
		De	iP	06 50 10.6			i 16 08 06.3
		Bonin Islands (h = N).					Sinkiang (h = N).
"	12	Up	iP	08 20 34.6	"	12	Double P.
				micr sec			
		Mx	E	2.7 20	"	12	Sk iP 17 42 43.8
		Mx	N	5.4 22			Um i(P) 17 42 33.5
		Mx	Z	6.1 21	"	13	Ud iP 00 38 15.4
		Sk	eP	08 20 42			Pamir.
		Um	iP	08 20 20.8	"	13	Up i(P) 02 17 39.3
			i	08 20 23.8			Um i(P) 02 18 09.0
			iPP	08 24 36.9			Ud i(P) 02 17 41.8
		Ud	iP	08 20 41.3	"	13	Ki iP 02 20 45.6
			iPP	08 25 09.6			i 02 20 50.8
			i	08 25 28.3			Ud iP 02 20 35.5
		De	iPP	08 25 17.4			i 02 20 45.4
			i	08 25 45.8	"	13	Um iP 02 44 47.5
		New Guinea (h = 30 km).					i 02 44 50.6
		M = 6.1 (Up).					i 02 46 13.3
"	12	De	iP	08 36 50.1	"	13	Up iP 05 38 49.9
"	12	Um	iP	10 43 09.5			micr sec
		Ud	e(P)	10 44 11			P Z' 0.1 0.5
"	12	Up	iSg	11 30 02.1			Ki iP 05 37 56.6 C
		Sk	eSg	11 31 46			iPcP 05 38 41.7
		Um	iSg	11 30 20.3			Sk iP 05 38 30.6
		Ud	iSg	11 31 03.8			iPcP 05 39 01.2
		Esthonia.					Um iP 05 38 22.4
		Explosion?					iPcP 05 38 57.5
"	12	Sk	iSg	11 40 37.7			Ud iP 05 38 50.2 C
		Um	i	11 38 43.8			De iP 05 39 12.9
			iSg	11 39 03.3			Aleutian Islands (h = 55 km).
"	12	Um	i(P)	12 21 16.6	"	13	Up iP 08 14 01.3
		Ud	iP	12 21 04.3			micr sec
"	12	Up	iP	13 06 06.5			P Z' 0.1 1.0
		Um	iP	13 05 52.8			Ud iP 08 13 49.2
		Ud	iP	13 06 15.9 C			i 08 13 59.8
		Luzon (h = 50 km).			"	13	Ud iP 09 48 44.1
"	12	Up	iP	16 07 45.1	"	13	Ki iP 11 58 57.3
			i	16 07 48.4			Kurile Islands (h = 50 km).
				micr sec	"	13	Ud i 14 54 27.4
			P	Z' 0.1 0.7			i(Sg) 14 55 18.1
		Sk	eP	16 08 06	"	13	Up i(P) 20 03 29.8
			i	16 08 08.4			Sk iP 20 04 33.0
		Um	iP	16 07 37.6			
		(cont.)					

Up - Uppsala, U - Umeå, Sk = Skalstugan, Um = Umeå, Ud = Uddeholm, De = Delary

1970				1970							
June	13	Um	iP	23 42 37.9 C	June	14	Up	iP	15 44 28.2		
"	13	Up	iP	23 48 29.0				i	15 44 37.0		
"	14	Up	iPKP	00 19 25.1 C				Sk	eP	15 44 25	
			i	00 19 30.6				Um	iP	15 44 09.5	
				micr sec					i	15 44 21.0	
			PKP	Z' 0.2 0.9				Ud	iP	15 44 35.1	
			Mx	E 28 21	"	14	Up	iLg1	17 36 37.1		
			Mx	N 26 21				Ki	iPg	17 34 36.2	
			Mx	Z 50 22					iSg	17 35 10.5	
		Sk	iPKP	00 19 24.7 C			Sk	iSg	17 36 09.3		
			i	00 19 27.7			Um	iPg	17 34 17.0 C		
			iPKS	00 22 45.4				iSg	17 34 36.4		
		Um	i(PKP)	00 19 21.9			Ud	iLg1	17 37 05.6		
			iPKP	00 19 30.4			Coast of Västerbotten, near Piteå, Sweden, 65.3°N, 21.7°E.				
			i	00 19 37.2			Origin time = 17 23 46.				
			i	00 22 10			"	14	Up	e(PKP)	22 02 12
			iPKS	00 23 00							micr sec
		Ud	iPKP	00 19 22.0 C				Mx	E	0.6	21
			i	00 19 31.6				Mx	N	0.8	20
			iPP	00 21 49.0				Mx	Z	1.0	20
			iPKS	00 22 47.8							micr sec
		De	iPKP	00 19 19.6 C			Ki				
			iPKS	00 22 41.5				Mx	E	0.6	18
		Chile (h = N).						Mx	N	0.5	17
		M = 7.1 (Up).					Ud	i(PKP)	22 02 13.6		
"	14	Up	iPKP	00 31 41.4			South Pacific Ocean (h = N).				
		Sk	iPKP	00 31 42.5			M = 5.6 (Up, Ki).				
		Um	iPKP	00 31 44.8			"	14	Up	iP	23 34 20.4
		Ud	iPKP	00 31 34.3					i	23 34 31.1	
			i	00 31 53.8				Sk	eP	23 34 16	
		De	iPKP	00 31 33.8				Um	iP	23 34 01.9	
		Chile (h = N).						Ud	iP	23 34 27.5	
"	14	Um	iP	01 03 50.9			"	14	Um	iP	23 46 41.5
		Ud	iP	01 03 30.7					iP	23 47 13.1	
		Turkey (h = N).					"	15	Up	iP	01 09 13.4
"	14	Up	iP	03 14 43.9				Ki	iP	01 08 48.2 C	
		Um	iP	03 14 23.9				Sk	iP	01 09 22.1	
			i	03 14 34.4				Um	iP	01 08 55.5	
"	14	Up	i(P)	11 51 56.4				Ud	iP	01 09 27.5	
		Um	iP	11 51 48.5			"	15	Up	iP	01 40 07.7
		Hindu Kush.						Ki	iP	01 40 10.2	
"	14	Up	iP	12 28 38.3				Um	iP	01 40 03.0	
		Ud	iP	12 28 44.5				Ud	iP	01 40 21.4	
"	14	Up	iSg	15 39 17.1			Tadzhik SSR.				
		Um	iSg	15 39 21.7			"	15	Up	ePKP	06 16 11
		Ud	iSg	15 39 36.4				Ud	iPKP	06 16 15.3	
		Near Baltic coast of northern Hälsingland, Sweden.					Tonga-Kermadec Islands (h = N).				

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

1970				1970			
June	16	Up	iP	04	23	10.2	South Baltic Sea, 55.4°N, 15.6°E. Origin time = 13 23 51. Probably underwater explosion
		Um	iP	04	23	56.3	
		Ud	iP	04	23	07.9	
			Italy.				
"	16	Up	iP	05	23	35.2	Probably off west coast of Sweden. Underwater explosion?
						micr sec	
		Mx	E	1.2	25		
		Mx	N	0.9	22		
		Mx	Z	2.1	25		
		Ki	iP	05	23	34.2	
						micr sec	
		Mx	E	0.9	20		
		Mx	N	1.2	22		
		Mx	Z	1.4	21		
		Sk	iP	05	23	21.0	
		Um	iP	05	23	36.5	
		Ud	iP	05	23	27.1	
		De	iP	05	23	30.5 C	
			South of Panama (h = 15 km).				
			M = 5.4 (Up,Ki).				
"	16	Ki	iP	06	02	46.4	Probably off west coast of Sweden. Underwater explosion?
		Sk	eP	06	03	08	
		Um	iP	06	02	52.1	
		Ud	iP	06	03	12.4	
		De	eP	06	03	17	
			Mindanao (h = 70 km).				
"	16	Up	iP	07	18	46.2	Iran (h = 40 km).
		Um	iP	07	18	26.5	
			i	07	18	29.4	
		Ud	iP	07	19	00.3	
		De	iP	07	19	11.9	
"	16	Up	iP	08	21	44.5 D	Tonga-Kermadec Islands (h = 120 km).
		Ki	iP	08	21	25.7 D	
		Um	iP	08	21	31.7	
		Ud	iP	08	21	53.4 D	
			Luzon (h = 30 km).				
"	16	Up	i(P)	12	23	17.6	Explosion?
		Ud	iP	12	23	16.9	
		De	iP	12	23	27.7	
"	16	Ud	iPg	12	33	12.8	Probably explosion.
			iSg	12	33	34.7	
		De	iSg	12	33	51.8	
			Explosion?				
"	16	Up	iSg	13	26	19.8	Central Sweden, 60.0°N, 14.9°E. Origin time = 21 32 57. Probably explosion.
		Ud	i	13	26	11.1	
			iSg	13	26	28.1	
		De	iPg	13	24	19.4	
			iSg	13	24	37.9	
			(cont.)				
							Probably off west coast of Sweden. Underwater explosion?
June	16	(cont.)					
		Ud	i(Pg)	14	13	02.0 C	
			i(Sg)	14	13	24.0	
		De	i	14	14	18.9	
"	16	Um	i(Sg)	14	37	31.6	
		Ud	i	14	36	39.2	
		De	i	14	36	55.2	
"	16	Ud	iPg	15	49	37.1	
			iSg	15	50	09.6	
		De	iPg	15	49	32.6	
			iSg	15	49	57.9	
			Probably off west coast of Sweden. Underwater explosion?				
"	16	Up	iP	17	04	44.9	Probably off west coast of Sweden. Underwater explosion?
		Ud	iP	17	04	53.6	
"	16	Ud	iPn	17	16	58.7	Probably off west coast of Sweden. Underwater explosion?
			iSn	17	17	55.6	
			iSg	17	18	20.2	
"	16	Up	iP	17	32	18.5	Iran (h = 40 km).
		Ud	iP	17	32	30.0 C	
		De	iP	17	32	16.3	
			Iran (h = 40 km).				
"	16	Up	iPKP	18	13	57.6	Tonga-Kermadec Islands (h = 120 km).
		Sk	ePKP	18	13	53	
		Um	iPKP	18	13	51.7	
		Ud	iPKP	18	13	58.6	
		De	iPKP	18	14	09.8	
			i	18	14	16.7	
"	16	Up	iPg	21	33	22.0	Probably explosion.
			iSg	21	33	39.2	
			eRg	21	33	46	
		Ud	iPg	21	33	10.6	
			iSg	21	33	19.0	
			iRg	21	33	22.2	
"	16	Up	iP	23	10	11.6	Probably explosion.
			(cont.)				

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

1970

June 16 (cont.)
 Um iP 23 09 52.3
 Ud iP 23 10 18.4
 De iP 23 10 30.8
 i 23 10 43.8
 Bonin Islands (h = N).

" 17 Up eP 00 40 05
 Ki iPn 00 41 02.3
 Sk ePn 00 40 57
 Um iP 00 40 15.8
 i 00 40 18.0
 Ud iP 00 40 22.8
 De eP 00 40 09
 Caucasus.
 Origin time = 00 34 46.

" 17 Ud iP 04 10 47.0
 Hindu Kush.

" 17 Up iP 04 58 11.8
 iPP 05 02 25.1
 iSKS 05 08 37
 micr sec
 Mx E 1.0 18
 Mx N 1.0 20
 Mx Z 1.4 18
 Ki iPP 05 02 39.5
 micr sec
 Mx E 2.1 21
 Mx N 0.8 19
 Mx Z 2.8 19
 Sk iP 04 58 04.8
 iPP 05 02 07.2
 Um iPP 05 02 32.0
 iSKS 05 08 46
 i 05 09 30
 Ud iP 04 58 03.0
 iPP 05 02 08.4
 De iP 04 57 59.3
 iPP 05 02 08.2
 Peru (h = 90 km).
 M = 5.6 (Up,Ki).

" 17 Up iP 05 14 04.7
 i 05 14 25.0
 Ki iP 05 13 58.5
 i 05 14 14.2
 Sk iP 05 14 10.0
 i 05 14 33.2
 Um iP 05 13 59.9
 i 05 14 17.1
 Ud iP 05 14 10.4
 i 05 14 33.3
 De iP 05 14 12.9

1970

June 17 Up iP 06 04 49.4
 Sk iP 06 05 31.6
 Um iP 06 05 27.7
 Ud iP 06 04 56.6
 De iP 06 04 20.3 C
 Greece (h = 6 km).

" 17 Um iP 08 40 07.0
 Ud iP 08 40 26.8
 De iP 08 40 23.5
 Hindu Kush-Pamir.

" 17 Ud iP 08 41 40.5

" 17 Ud iP 09 18 02.4 D

" 17 Um iP 09 18 52.4
 Off coast of Central America
 (h = N).

" 17 Ki iPn 11 33 40.5
 iSn 11 34 40.2
 Sk iLgl 11 37 16.4
 Um iSg 11 35 39.8
 Northwest Russia,
 66.7°N, 33.0°E.
 Origin time = 11 32 23.
 Explosion?

" 17 Up iP 12 00 55.4
 Ki iP 12 00 45.3
 Sk iP 12 01 07.7
 Um iP 12 00 49.9
 Ud iP 12 01 08.5
 Yunnan, China (h = N).

" 17 Ud i(P) 13 57 16.2

" 17 Ud i(P) 15 08 56.4
 i 15 09 40.3
 De iP 15 09 02.4 C

" 17 Ud iSg 17 40 17.8
 De iPg 17 37 43.0
 iSg 17 38 28.1

" 17 Ud iP 17 37 59.0 C
 i 17 38 09.3

" 17 Ud iP 18 37 37.5
 De e 18 38 02

" 17 Up iP 18 55 27.6
 micr sec
 Mx E 1.0 17

(cont.)

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

1970

June 17

(cont.)

Up Mx N 1.1 18
 Mx Z 1.7 18
 Ki micr sec
 Mx E 3.1 18
 Mx N 2.0 17
 Mx Z 3.6 17
 Um iP 18 55 09.7
 Ud iP 18 55 37.1
 De iP 18 55 49.5
 Japan (h = 25 km).
 M = 5.4 (Up,Ki).

" 17 Up iP 20 06 40.3
 Um iP 20 06 07.7
 Ud iP 20 06 35.3
 i 20 06 49.1
 " 17 Up iP 21 34 56.4
 Ud iP 21 34 57.6
 i 21 35 23.8
 De iP 21 35 08.4
 " 17 Um iP 21 49 24.4
 Ud iP 21 49 26.7
 South Pacific Ocean (h = N).
 " 17 Up iP 23 34 06.5
 Um iP 23 33 51.0 C
 Ud iP 23 34 12.2
 Mariana Islands (h = 100 km).
 " 18 Up iP 00 35 41.9
 Ki iP 00 35 15.4
 Um iP 00 35 22.4
 Ud iP 00 35 56.3 C
 De iP 00 36 07.6
 USSR-Mongolia.
 " 18 Up iP 01 59 29.3
 " 18 Up iP 02 06 40.4
 Um iP 02 06 32.3
 Ud iP 02 06 52.6
 De iP 02 06 55.2
 " 18 Ud iP 05 27 51.7
 " 18 Up micr sec
 Mx E 1.1 19
 Mx N 1.0 20
 Mx Z 1.9 20
 Ki micr sec
 Mx E 1.9 20
 Mx N 1.2 19
 Mx Z 1.7 19
 (cont.)

1970

June 18

(cont.)

Ud ePKP 06 59 13
 Balleny Islands (h = N).
 M = 5.9 (Up,Ki).
 " 18 Up iP 09 07 36.2
 micr sec
 P Z' 0.1 0.5
 Ki iP 09 08 52.6
 Um iP 09 08 19.6
 Ud iP 09 07 34.1 C
 De iP 09 06 55.4
 Sardinia.
 " 18 Up iP 11 06 50.5
 micr sec
 Mx E 0.6 16
 Mx N 0.4 15
 Mx Z 0.9 14
 Ki iP 11 06 19.4
 micr sec
 Mx E 1.4 19
 Mx N 1.0 17
 Mx Z 1.8 17
 Sk iP 11 06 50.8
 Um iP 11 06 32.4
 Ud iP 11 06 59.1
 De eP 11 07 18
 Japan (h = 60 km).
 M = 5.2 (Up,Ki).
 " 18 Up iSg 11 17 43.0
 Sk eSg 11 19 26
 Um iSg 11 18 13.2
 Ud iLgl 11 18 43.2
 De eLgl 11 19 08
 Esthonia,
 59.7°N, 25.6°E.
 Origin time = 11 15 31.
 Explosion?
 " 18 Up iP 16 16 26.3
 Ud iP 16 16 31.1
 De e(P) 16 16 01
 " 18 Ki iPn 20 48 11.0
 iSn 20 48 57.5
 iLgl 20 49 14.6
 Sk iLgl 20 51 53.9
 Um i 20 50 26.0
 iSg 20 50 50.9
 Northwest Russia.
 Origin time = 20 47 07.
 Explosion?
 " 19 Ud iP 02 55 39.5

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

1970				1970								
June	19	Up	iP	06 56	13.9	June	19	(cont.)				
		Ki	eP	06 57	28			Ud	iPP	11 14 45.9		
		Sk	eP	06 56	55				iPKKP	11 26 11.4		
			i	06 56	57.1			De	iP	11 10 18.8		
		Um	iP	06 56	53.7				iPP	11 14 39.6		
		Ud	iP	06 56	20.9				iPKKP	11 26 15.7		
		De	eP	06 55	44				Chile (h = 50 km).			
		Greece (h = N).							M = 6.0 (Up,Ki).			
									Double PKKP.			
"	19	De	iP	08 27	10.9	"	19	Up	iSg	11 24 47.0		
		Turkey.						Ki	iPn	11 20 30.8		
"	19	De	iP	08 46	26.0				iSn	11 21 29.0		
"	19	Up	iPg	10 09	43.2				iSg	11 21 52.6		
			iSg	10 10	51.1			Sk	iSg	11 24 15.0		
		Ud	iSg	10 11	16.1			Um	iS ^x	11 22 21.7		
		De	iPn	10 09	00.5				iSg	11 22 38.1		
			iPg	10 09	08.7			Ud	iSg	11 25 17.4		
			iSg	10 09	51.8				Northwest Russia,			
		South coast of the Baltic Sea,							67.4°N, 32.9°E.			
		near 54 1/2°N, 19°E.							Origin time = 11 19 15.			
		Origin time = 10 07 54.							Explosion?			
		Explosion?					"	19	Up	iP	11 38 05.6	
"	19	Ud	iP	11 06	27.5			Sk	e	11 38 45.8		
		De	i(P)	11 06	38.6			De	i(P)	11 38 04.4		
"	19	Up	iPP	11 14	59.6	"	19	Up	iP	12 02 42.9		
			iS	11 22	30							
			iPKKP	11 26	03.4			"	19	Up	iP	12 55 42.4
									ipP	12 56 05.1		
										micr sec		
		PP	Z'	0.1	1.5				P	Z' 0.2 0.7		
		Mx	E	2.7	23			Ki	iP	12 55 18.7		
		Mx	N	1.5	19				ipP	12 55 39.7		
		Mx	Z	3.8	23					micr sec		
		Ki	iPKP	11 14	42.1				P	Z' 0.1 1.0		
			iS	11 22	55			Um	iP	12 55 27.2		
			i	11 25	42.0				ipP	12 55 48.3		
			iPKKP	11 25	51.0			Ud	iP	12 55 52.3		
									ipP	12 56 14.1		
								De	iP	12 56 00.6		
									ipP	12 56 23.4		
									Formosa.			
									h = 80 km (Up,Ki,Um,Ud,De).			
									m = 6.1 (Up,Ki).			
		PKKP	Z'	0.1	1.1	"	19	Up	iP	14 35 47.3		
		Mx	E	4.5	23				i	14 35 57.9		
		Mx	N	2.2	23				iS	14 44 21		
		Mx	Z	4.7	22					micr sec		
		Sk	iP	11 10	25.0				P	Z' 0.2 1.7		
			iPP	11 14	47.4				Mx	E 2.7 23		
			i	11 25	55.0				Mx	N 3.1 17		
			iPKKP	11 26	09.7				Mx	Z 4.5 23		
		Um	iPKP	11 14	39.6				(cont.)			
			iS	11 22	49							
			i	11 25	44.1							
			iPKKP	11 25	54.0							
		Ud	iP	11 10	23.4							
		(cont.)										

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

1970

June 19 (cont.)
 Ki iP 14 36 10.4
 i 14 36 19.4
 iS 14 45 06
 micr sec
 P Z' 0.4 2.0
 Mx E 7.4 23
 Mx N 3.3 21
 Mx Z 9.2 21
 Sk iP 14 35 41.5
 i 14 36 06.1
 Um eP 14 36 04
 i 14 36 13.2
 i 14 36 28.3
 iS 14 44 48
 Ud iP 14 35 35.1 C
 i 14 35 44.9
 De iP 14 35 28.4 C
 i 14 35 36.8
 North Atlantic Ocean (h = N).
 m = 6.2, M = 5.8 (Up,Ki).
 Double P, in average 9.5 sec
 apart, the first of longer
 period (2-3 sec), the second
 of shorter period (1 sec).

" 19 Up iP 15 16 13.8
 Um iP 15 16 10.9
 Ud iP 15 16 30.6 C
 De iP 15 16 27.7
 i 15 17 41.9
 i 15 18 29.2
 Afghanistan-USSR (h = N).

" 19 Up i 15 42 28.4
 i(Sg) 15 42 46.3
 De e 15 42 10
 i(Sg) 15 43 00.6

" 19 De e(P) 16 13 36

" 19 Ki eP 16 53 01
 Um iP 16 53 07.5
 Ud iP 16 53 27.0
 ePP 16 57 19
 Mindanao (h = 80 km).

" 19 Up iS^x 17 24 12.6
 iSg 17 24 31.5
 Sk iLg1 17 24 33.5
 Ud eP^x 17 22 27
 iPg 17 22 37.8
 iS^x 17 23 25.8
 iSg 17 23 33.9
 De iPg 17 22 31.8
 i 17 22 47.9
 (cont.)

1970

June 19 (cont.)
 De iSg 17 23 22.1
 Skagerrak,
 57.7°N, 7.0°E.
 Origin time = 17 21 14.

" 19 Um iP 17 37 15.3 C

" 19 Up micr sec
 Mx E 1.1 20
 Mx N 1.8 22
 Mx Z 3.2 20
 Ki iPKP 18 57 26.2
 micr sec
 Mx E 1.9 20
 Mx N 1.5 21
 Mx Z 1.9 20
 Sk ePKP 18 57 44.5
 Um iPKP 18 57 35.2
 Fiji Islands (h = N).
 M = 5.8 (Up,Ki).

" 19 Up iP 19 02 38.1 C
 micr sec
 P Z' 0.2 1.5
 Ki iP 19 01 41.4 C
 micr sec
 P Z' 0.2 1.5
 Sk iP 19 02 19.0 C
 Um iP 19 02 08.2
 Ud iP 19 02 40.8 C
 De iP 19 03 03.6 C
 Kamchatka (h = N).
 m = 6.1 (Up,Ki).

" 19 Up micr sec
 Mx E 1.0 17
 Mx N 0.9 18
 Mx Z 1.1 18
 Sk iPKP 19 08 57.9
 Um iPKP 19 08 53.6
 Ud iPKP 19 09 01.4
 iPP 19 11 45.1
 De iPKP 19 09 12.2
 i 19 09 24.2
 Fiji Islands (h = N).

" 19 Up iP 22 31 33.9 C
 i 22 31 41.6
 micr sec
 P Z' 0.2 0.6
 Ki iP 22 32 50.5
 Sk iP 22 32 15.8 C
 i 22 32 24.7
 Um iP 22 32 14.2
 Ud iP 22 31 40.4 C
 (cont.)

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

1970				1970			
June	19	(cont.)		June	20	(cont.)	
		De iP	22 31 02.6			Up	micr sec
		Greece.				Mx	E 0.5 10
"	19	Up iP	23 40 55.4			Mx	N 0.6 12
		Sk iP	23 41 38.8			Mx	Z 0.7 12
		Ud iP	23 41 02.9			Ki iP	06 10 30.9
		De iP	23 40 26.6				micr sec
		Greece.				Mx	E 0.6 13
"	19	Up iP	23 52 08.7			Mx	N 0.5 14
		Um iP	23 52 14.8			Mx	Z 0.5 8
		Ud iP	23 52 04.9			Sk eP	06 10 07
		De iP	23 52 03.5			Um iP	06 09 53.8
						i	06 10 06.4
"	20	Up iP	02 35 39.1 C			Ud iP	06 09 34.4 C
		ipP	02 35 50.3			Turkey (h = 25 km).	
			micr sec			M = 4.5 (Up,Ki).	
		Mx	E 0.5 18	"	20	Ud eP	08 24 46
		Mx	N 0.7 17			De eP	08 24 08
		Ki iP	02 34 56.7			Greece.	
		ipP	02 35 06.2	"	20	Up iP	08 40 14.7
			micr sec			Ki iP	08 39 47.3
		Mx	E 0.7 17			Sk iP	08 40 24.3
		Mx	N 0.7 18			Um iP	08 39 55.5 C
		Mx	Z 0.7 17			Ud iP	08 40 29.4 C
		Sk iP	02 35 31.3			De iP	08 40 40.4 C
		Um iP	02 35 15.8 C	"	20	Ki e(P)	09 10 36
		ipP	02 35 25.3	"	20	Ki iP	09 33 48.5
		Ud iP	02 35 46.1 C	"	20	Um iP	09 33 28.0
		ipP	02 35 55.6	"	20	Ud iP	10 49 54.7
		De iP	02 36 02.1	"	20	Up i	11 08 56.5
		Japan.				iSg	11 09 28.0
		h = 35 km (Up,Ki,Um,Ud).				Ki iSg	11 10 14.4
		M = 5.1 (Up,Ki).				Sk eSg	11 10 38
"	20	Up e	04 20 18			Um iSg	11 08 52.4
		iLgl	04 20 33.4			Ud eSn	11 09 39
		Ki iPn	04 15 52.1			iSg	11 10 30.0
		iSn	04 16 56.7			De iSg	11 11 09.6
		iSg	04 17 25.9			Lake Ladoga,	
		Sk eLgl	04 19 58			61.0°N, 31.3°E.	
		Um iSn	04 17 49.9			Origin time = 11 05 41.	
		iLgl	04 18 31.4	"	20	Ki iP	12 16 04.1
		iSg	04 18 44.9	"	20	Up iP	13 15 40.8
		North coast of Kola				Ki iP	13 15 22.1
		Peninsula,				ipP	13 15 31.4
		69.2°N, 35.1°E.				Sk iP	13 15 46.7
		Origin time = 04 14 26.				Um iP	13 15 28.3
"	20	De iP	04 22 15.0			ipP	13 15 39.3
		Fiji Islands (h = 630 km).				(cont.)	
"	20	Up iP	06 09 20.8				
		i	06 09 24.0				
		(cont.)					

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

1970				1970					
June	20	(cont.)		June	21	(cont.)			
		Ud	iP	13 15		Sk	eP	02 10 49	
			ipP	13 16			i	02 12 40.7	
		Luzon.							
		h = 40 km (Ki,Um,Ud).			"	21	Um	eP	02 44 39
"	20	Um	iP	13 31	"	21	Um	iP	03 44 10.1
"	20	De	eP	14 29	"	21	Ud	eP	04 15 32
"	20	Ki	iP	15 20	"	21	Up	iP	04 37 47.5
"	20	Up	iP	16 40			Um	iP	04 37 02.4
			iPP	16 41	"	21	Um	iP	04 42 56.9
		Ki	eP	16 40			Ud	eP	04 43 11
		Um	iP	16 40					
		Ud	iP	16 40	"	21	Up	iSg	06 08 38.6
		Hindu Kush.					Ki	iPn	06 04 28.0
"	20	Ki	iP	17 13				iSn	06 05 26.0
		Um	iP	17 14				iLgl	06 05 46.8
		Ud	iP	17 14		Sk	iSg	06 08 16.0	
"	20	Ki	iP	17 40		Um	iSg	06 06 32.9	
		Ud	iP	17 40		Ud	iSg	06 09 10.1	
"	20	Ud	iP	18 05		De	iSg	06 10 44.5	
						Northwest Russia,			
						67.1°N, 32.8°E.			
						Origin time = 06 03 13.			
						Explosion?			
						Cf remark on June 7, 07 08.			
"	20	Sk	eP	18 18	"	21	Up	iSg	07 05 51.6
		Ud	eP	18 17			i	07 05 58.7	
		South Atlantic Ocean				Ki	iPn	07 01 43.8	
		(h = N).					iSn	07 02 45.6	
"	20	Ki	eP	19 25			iLgl	07 03 06.8	
"	20	Ki	e(P)	19 46		Sk	iSn	07 04 34.9	
		Um	iP	19 47			iLgl	07 05 28.4	
"	20	Sk	i(P)	20 31		Um	i	07 03 22.9	
		Um	iP	20 31			iS ^x	07 03 36.8	
			i	20 31			iLgl	07 03 48.3	
"	20	Ud	iP	20 36			iSg	07 03 53.8	
		De	iP	20 36		Ud	i	07 05 30.8	
							iLgl	07 06 20.9	
"	20	Um	iP	20 52			iSg	07 06 32.3	
						De	iPg	07 04 34.8	
"	20	Ud	iP	22 23			iLgl	07 07 50.0	
							iSg	07 08 05.3	
"	20	Um	iP	22 32		Northwest Russia,			
						67.0°N, 33.9°E.			
						Origin time = 07 00 23.			
						Explosion?			
						Cf remark on June 7, 07 08.			
"	21	Um	i(P)	00 29	"	21	Um	iP	10 01 11.0
		Ud	iP	00 29					
"	21	Ud	iP	01 25	"	21	Ki	e(P)	10 03 20
"	21	Ki	e(P)	02 10			Um	iP	10 04 13.5
		(cont.)		42					

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

1970					1970				
June	22	(cont.)			June	22	Um	iP	17 21 47.9
		Origin time = 12 47 01.			"	22	Up	iP	18 14 02.5
		Explosion?					Ki	iP	18 13 08.7 C
"	22	Up	iP	14 50 08.7			Sk	iP	18 13 45.9
				micr sec			Um	iP	18 13 34.0
		P	Z'	0.1 0.9			Ud	iP	18 14 05.9
		Mx	E	0.6 13				ipP	18 14 19.6
		Mx	N	1.4 17			De	iP	18 14 26.7
		Mx	Z	1.1 14			Kamchatka.		
		Ki	iP	14 49 15.5 C			h = 50 km (Ud).		
			ipP	14 49 23.6					
			iS	14 57 11	"	22	Up	i(P)	18 45 45.2
				micr sec			Ki	iP	18 45 30.2
		P	Z'	0.5 1.4			Ud	iP	18 45 56.1
		Mx	E	1.0 16			Mindanao (h = 60 km).		
		Mx	N	1.2 19	"	22	Ki	i(P)	21 33 23.7
		Mx	Z	2.3 19			Um	i(P)	21 31 39.3
		Sk	iP	14 49 43.2 C	"	22	Up	iP	21 44 36.1 C
			ipP	14 49 53.8				iS	21 53 40
		Um	iP	14 49 42.9 C					micr sec
			ipP	14 49 50.5				P	Z' 0.4 1.3
			iS	14 58 03				Mx	E 1.9 17
		Ud	iP	14 50 06.6 C				Mx	N 3.9 15
			ipP	14 50 14.9				Mx	Z 3.8 15
		De	iP	14 50 29.8 C			Ki	iP	21 43 50.4 C
			ipP	14 50 36.4				ipP	21 44 01.8
		South of Alaska.							micr sec
		h = 30 km (Ki,Sk,Um,Ud,De).						P	Z' 0.2 1.4
		m = 6.2, M = 5.1 (Up,Ki).						Mx	E 3.6 17
"	22	Up	iP	14 54 51.7				Mx	N 4.0 20
		Ki	iP	14 53 57.9				Mx	Z 8.1 16
			ipP	14 54 04.9			Sk	iP	21 44 26.5 C
		Sk	iP	14 54 25.7				ipP	21 44 38.7
			i	14 54 47.2			Um	iP	21 44 10.8 C
		Um	iP	14 54 25.3 C				ipP	21 44 22.7
			ipP	14 54 32.8			Ud	iP	21 44 42.4 C
		Ud	iP	14 54 48.2				i	21 47 47.4
		De	iP	14 55 12.4			De	iP	21 45 00.2 C
			ipP	14 55 19.5				ipP	21 45 10.5
		South of Alaska.					Kurile Islands.		
		h = 25 km (Ki,Um,De).					h = 45 km (Ki,Sk,Um,De).		
		Origin time = 14 44 13.					m = 6.3, M = 5.8 (Up,Ki).		
"	22	Ud	iP	14 56 29.4	"	22	Sk	i(P)	21 51 27.5
		Talaud Islands (h = 50 km).					Um	iP	21 51 53.0
"	22	Ud	iP	15 30 38.7			Ud	iP	21 51 58.5
			i	15 30 54.8	"	22	Um	iP	22 31 14.2
"	22	Um	iP	15 42 48.1				i	22 31 18.0
		De	i(P)	15 41 52.7				i	22 31 43.1
"	22	De	i	15 49 49.1			Ud	eP	22 31 33
			i(Sg)	15 50 33.2	"	22	Um	eP	23 52 28
							Ud	eP	23 52 12
							Turkey.		

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

1970				1970					
June	23	Um	iP	03 01 53.3	June	23	Sk	eP	11 06 38
		Ud	iP	03 01 39.1					
"	23	Up	iPKP	03 57 34.1 C	"	23	De	iP	12 57 48.9
			ipPKP	03 57 47.4	"	23	Um	iP	13 06 22.3
		Ki	ePKP	03 57 49			Ud	iP	13 07 05.1
		Sk	iPKP	03 57 39.6	"	23	Sk	e(Sg)	14 01 29
			ipPKP	03 57 52.4			Um	i(Sg)	14 00 22.4
		Um	iPKP	03 57 43.3	"	23	Um	iP	16 14 29.2
		Ud	iPKP	03 57 32.5	"	23	Up	iPKP	16 28 39.1
			ePP	03 59 00			Sk	iPKP	16 28 33.9
			i	03 59 16.3			Um	iPKP	16 28 27.3
		De	iPKP	03 57 27.2				i	16 28 31.9
		South Sandwich Islands.					Ud	iPKP	16 28 41.2 C
		h = 45 km (Up,Sk).						i	16 28 47.6
"	23	Up	ePKP2	04 28 19	"	23	De	iPKP	16 28 49.1 C
				micr sec				i	16 29 01.7
		Mx	E	0.5 17			Kermadec Islands (h = 40 km).		
		Mx	N	1.0 20			Up	iP	16 34 49.8
		Mx	Z	1.1 17			Ki	iP	16 34 29.8
		Ki	iPKP2	04 28 17.7				ipP	16 34 38.8
			i	04 28 33.2			Sk	eP	16 34 55
				micr sec			Um	iP	16 34 46.9
			PKP2	Z' 0.2 1.9			Ud	iP	16 34 59.2 C
			Mx	E 0.5 18				ipP	16 35 08.8
			Mx	N 1.0 17			Luzon.		
			Mx	Z 1.3 18			h = 35 km (Ki,Ud).		
		Sk	iPKP2	04 28 34.1	"	23	Sk	i(Sg)	16 50 08.3
		Um	iPKP2	04 28 18.4	"	23	Sk	i(Sg)	17 32 20.7
			i	04 28 25.2	"	23	Up	iP	19 35 02.7
		Ud	iPKP2	04 28 29.1			Ki	eP	19 34 37
			i	04 28 36.9			Mariana Islands (h = N).		
		Macquarie Islands (h = 30 km).					Sk	iPKKP	20 36 40.4
		M = 5.9 (Up,Ki).					Um	i(PKKP)	20 36 52.9
		Large negative residuals					Ud	iPKP	20 24 49.3
		(average about -22 sec)					De	iPKP	20 24 47.6
		are obtained by comparison					Chile (h = 120 km).		
		with the USCGS solution.					Ud	iP	21 01 52.1
"	23	Ki	eP	04 59 42	"	23	Up	iP	21 18 01.3
"	23	De	eP	06 09 36			Ki	iP	21 18 04.0
"	23	Um	iPKP	08 33 12.7			Sk	eP	21 18 18
		Ud	iPKP	08 33 14.4			Um	i(P)	21 17 43.9
		De	iPKP	08 33 26.1 C	"	23	Ud	iP	21 18 12.4
		Tonga-Kermadec Islands							
		(h = 650 km).					Sk	eP	21 18 18
"	23	Ki	iP	10 14 51.4	"	23	Ki	iP	21 36 28.8
"	23	Ki	i	10 35 33.4	"	23	Um	iP	22 17 30.9
		Um	i(P)	10 32 10.2			Germany.		
"	23	Sk	eP	10 59 50					

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

1970				1970			
June	23	Ud	iP	23 02 42.1	June	24	(cont.)
"	23	Sk	iP	23 23 42.1			Um iS 07 49 22
		De	eP	23 23 46			Ud iP 07 41 07.9 C
"	23	Ud	eP	23 57 06			De iP 07 41 29.0
"	24	Um	iP	00 04 12.7			Queen Charlotte Islands (h = N). M = 5.6 (Up,Ki).
"	24	Up	iP	00 53 03.3	"	24	Ud iP 07 46 28.9
			ipP	00 53 12.5	"	24	Sk iP 08 32 24.6
				micr sec	"	24	Sk eP 11 53 46
				Z' 0.1 0.6	"	24	Um iP 12 04 17.1
		Ki	iP	00 52 52.8	"	24	Ki iP 12 10 40.1
			ipP	00 53 00.0	"	24	Sk iP 12 10 47.9
		Sk	iP	00 53 17.6	"	24	Um iP 12 10 21.8
			ipP	00 53 24.5	"	24	Sk eP 12 32 20
		Um	iP	00 52 53.4			i 12 32 22.8
			ipP	00 53 00.5	"	24	Up i 12 41 47.4
		Ud	iP	00 53 17.1			Ki iPn 12 37 11.1
			ipP	00 53 23.9			iSn 12 38 01.6
		De	iP	00 53 21.6			iLgl 12 38 15.5
			ipP	00 53 27.5			Probably northwest Russia. Origin time = 12 36 02. Explosion?
		India-China.			"	24	Up iP 12 38 03.1
		h = 30 km (Up,Ki,Sk,Um,Ud,De).			"	24	Up iSg 12 59 25.5
"	24	Um	iP	01 33 21.2			Ki iSg 13 01 53.8
"	24	Sk	iP	01 41 56.2			i 13 02 09.1
"	24	Ud	iP	02 39 40.1			Sk iSg 13 01 14.4
"	24	Ud	iP	04 24 13.1			i 13 01 33.3
"	24	Ki	iP	06 36 11.3			Um iSg 12 59 57.0
"	24	Ki	iP	06 39 02.1			Ud iLgl 13 00 26.8
		Ud	iP	06 39 08.4			De iLgl 13 00 51.2
		De	iP	06 39 37.3			Esthonia, 59.7°N, 25.6°E. Origin time = 12 57 15. Explosion?
"	24	Ki	iP	06 50 54.0	"	24	Up iSg 13 11 23.7
"	24	Up	iP	07 41 14.3			Ki eSg 13 13 49
				micr sec			Sk eSg 13 13 14
		Mx	E	0.8 15			Um iSg 13 11 55.6
		Mx	N	3.6 22			De iLgl 13 12 51.9
		Mx	Z	3.6 22			Esthonia, 59.7°N, 25.6°E. Origin time = 13 09 13. Explosion?
		Ki	iP	07 40 26.0	"	24	Up iSg 13 11 23.7
				micr sec			Ki eSg 13 13 49
		P	Z'	0.1 1.3			Sk eSg 13 13 14
		Mx	E	2.4 19			Um iSg 13 11 55.6
		Mx	N	3.6 19			De iLgl 13 12 51.9
		Mx	Z	5.7 19			Esthonia, 59.7°N, 25.6°E. Origin time = 13 09 13. Explosion?
		Sk	iP	07 40 44.9			
		Um	iP	07 40 52.5			
			i	07 40 55.7			
		(cont.)					

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

1970				1970					
June	24	Up	iP	13 19 54.1	June	24	Up	iP	15 28 42.4
			i	13 19 59.7			Um	iP	15 28 10.1
			iS	13 28 47			Ud	iP	15 28 59.8 C
				micr sec				i	15 29 12.5
			P	Z' 0.3 0.9			De	iP	15 29 11.2
			Mx	E 81 22					
			Mx	N 250 22	"	24	Ki	i(Sg)	15 38 43.3
			Mx	Z 270 22			Sk	i(Sg)	15 38 50.0
		Ki	iP	13 19 07.2 C					
			i	13 19 13.6	"	24	Up	i(Sg)	15 41 58.8
			iS	13 27 20			Um	i(Sg)	15 42 11.7
			eP'P'	13 48 57					
				micr sec	"	24	Up	iP	17 22 32.9
			P	Z' 0.9 1.8			Um	iP	17 23 07.6
			Mx	E 260 23					
			Mx	N 370 25	"	24	Ud	i(Sg)	18 29 07.1
			Mx	Z 640 25					
		Um	iP	13 19 31.8	"	24	Up	Mx	19 44
			i	13 19 39.8					micr sec
			iS	13 28 08			Mx	E	1.2 21
			iP'P'	13 48 36.1			Mx	N	0.8 20
		Ud	iP	13 19 48.4 C			Mx	Z	1.7 21
			i	13 19 54.7			Ki	Mx	19 45
			iP'P'	13 48 28.0					micr sec
		De	iP	13 20 11.4 C			Mx	E	1.1 20
			i	13 20 17.7			Mx	N	0.8 20
							Mx	Z	2.1 21
				Queen Charlotte Islands					
				(h = 10 km).	"	24	Up	iP	20 33 16.8
				m = 6.5, M = 7.5 (Up,Ki).					
				Double P.	"	24	Up	iPKP	23 20 29.9
"	24	Up	iP	13 27 44.0			i	23 22 58.3	
				micr sec			Um	iPKP	23 20 28.2
			P	Z' 0.1 1.0			Ud	iPKP	23 20 32.2
		Ki	iP	13 26 57.2			De	ePKP	23 20 42
				micr sec					
			P	Z' 0.1 1.2	"	25	Um	i(P)	02 31 30.3
		Sk	iP	13 27 15.0			De	iP	02 32 07.8
		Um	iP	13 27 22.4	"	25	Up	iP	05 04 51.3
		Ud	iP	13 27 37.8			i(Li)	05 10 45.0	
		De	iP	13 27 59.2					micr sec
				Queen Charlotte Islands			P	Z' 0.2 0.5	
				(h = N).			Ki	iP	05 05 00.0
				m = 5.9 (Up,Ki).			iS	05 09 16.9	
"	24	Up	iP	13 35 38.1			iLi	05 11 41.4	
		Ki	iP	13 34 48.6					micr sec
		Ud	iP	13 35 30.0			P	Z' 0.1 1.0	
				Queen Charlotte Islands.			Sk	iP	05 05 20.0
				Origin time = 13 24 53.			i	05 05 30.8	
"	24	Up	iP	13 48 36.6			i(Lg1)	05 13 02.6	
"	24	Um	i(P)	14 42 38.3			Um	iP	05 04 45.5
		Ud	i(P)	14 43 10.4			i	05 08 20.1	
							Ud	iP	05 05 12.7 C
							iS	05 09 36.2	

(cont.)

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

1970				1970						
June	25	(cont.)		June	25					
		De	iP			Up	iP	14 47 41.0		
			i			Ki	iP	14 46 47.4		
			iLgl			Sk	eP	14 47 20		
						Um	iP	14 47 12.9		
						Ud	iP	14 47 41.3 C		
		Ural Mountains-Caspian Sea. m = 5.6 (Up,Ki). Underground explosion.			"	25	Up	i(Sg)	16 03 51.6	
							Um	i(Sg)	16 04 43.1	
"	25	Up	iPKP	05 32	40.9	"	25	Up	eP	16 18 38
			ipPKP	05 32	56.9			Ki	iP	16 18 25.4
			ePP	05 34	08				i	16 18 34.0
								Sk	iP	16 18 12.1
			pPKP	Z'	0.1 0.7				i	16 18 19.5
			PP	Z'	0.3 1.5			Um	iP	16 18 35.0
			Mx	E	3.4 22				i	16 18 46.7
			Mx	N	4.1 22			Off east coast of USA. Underwater explosion.		
			Mx	Z	5.0 22					
		Ki	iPKP	05 32	30.3 C	"	25	Up	ipP	20 49 26.9
			ipPKP	05 32	45.0			Ki	iP	20 48 59.5
			iPP	05 33	21.1				ipP	20 49 07.3
								Sk	iP	20 49 23.6
			Mx	E	4.5 22			Um	ipP	20 49 15.2
			Mx	N	3.6 22			Ud	iP	20 49 28.0
		Sk	iPKP	05 32	41.2				ipP	20 49 36.4
			ipPKP	05 32	55.6			Luzon. h = 30 km (Ki,Ud).		
			iPP	05 34	00.4					
		Um	iPKP	05 32	36.1 C	"	25	Up	iP	22 40 13.4
			ipPKP	05 32	50.2			Um	iP	22 39 45.8
			iPP	05 33	43.1			Ud	iP	22 40 11.4
		Ud	iPKP	05 32	45.2 C	"	25			
			ipPKP	05 32	59.8			Ki	eP	02 02 41
			iPP	05 34	13.2			Sk	eP	02 02 37
			i	05 34	19.5			Ud	iP	02 02 13.4
		De	iPKP	05 32	51.2 C	"	26	De	iP	02 01 56.0
			ipPKP	05 33	05.8					
		Solomon Islands. h = 50 km (Up,Ki,Sk,Um,Ud,De). M = 6.2 (Up,Ki).				"	26	Um	i(P)	03 19 30.9
"	25	Ki	epPKP	05 43	21			Ud	iP	03 19 26.8
		Um	ipPKP	05 43	19.8					
		Ud	iPKP	05 43	19.7 C	"	26	Up	iP	03 47 14.7
		De	iPKP	05 43	25.7 C			Ki	iP	03 46 39.4
		Solomon Islands (h = 60 km).						Sk	iP	03 47 10.5
"	25	Sk	i(P)	06 22	56.2			Um	iP	03 46 54.4
									i	03 47 05.8
"	25	Ki	iP	06 45	10.6				i	03 48 08.8
		Sk	iP	06 45	31.8			Ud	iP	03 47 22.6
		Um	iP	06 45	09.2			South of Japan (h = 130 km).		
		Ud	iP	06 45	29.4	"	26	Sk	eP	06 47 27
"	25	Sk	iP	09 32	27.2				e	06 47 35
								Um	iP	06 47 25.3
"	25	De	iPKP	13 25	33.7				i	06 47 34.4
		Solomon Islands (h = 60 km).						Ud	iP	06 47 43.4
"	25					"	26	De	iP	11 01 29.5

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

1970				1970										
June	26	Ki	iPn	11 18	24.9	June	27	(cont.)						
			iSn	11 19	23.6			Ud	iP	00 51	41.3			
			iSg	11 19	50.9				i	00 51	46.2			
		Um	iSg	11 20	37.2				i	00 52	40.7			
		Northwest Russia.							De	eP	00 51	28		
		Origin time = 11 17 09.							Caucasus (h = N).					
		Explosion?							"	27	Up	iP	02 17	55.4
"	26	Up	iLg1	12 45	41.6	"	27	Up	iP	03 35	38.9			
		Ki	iSg	12 48	25.3			Ki	eP	03 34	47			
		Sk	iSg	12 47	42.6			Ud	iP	03 35	46.8			
		Um	iSg	12 46	22.5			De	iP	03 36	04.2			
		Ud	iLg1	12 46	52.0			Kurile Islands (h = N).						
		De	eLg1	12 47	17			"	27	Up	iP	05 22	07.3	
		Esthonia.							Ki	eP	05 22	44		
		Origin time = 12 43 41.								iPn	05 23	07.1		
		Explosion?							Sk	ePn	05 23	11		
"	26	Up	iP	16 03	54.4 C			Um	iP	05 22	18.7			
			ipP	16 04	07.8				i	05 22	27.7			
		Ki	iP	16 04	37.9 C				iSn	05 27	30.2			
			ipP	16 04	50.3			Ud	iP	05 22	26.2 D			
									iPn	05 22	56.3			
									i(Sn)	05 28	23.4			
			P	Z'	0.1 1.4			De	iP	05 22	16.7			
			Mx	E	0.6 18				i(Sn)	05 27	47.8			
			Mx	N	0.8 19			Caucasus.						
			Mx	Z	1.0 20			Origin time = 05 16 48.						
		Sk	iP	16 04	04.4 C			"	27	Um	iP	07 24	30.4	
			ipP	16 04	15.7			"	27	Up	iP	08 04	27.8	
		Um	iP	16 04	19.2 C			Ki	iP	08 05	04.4			
			i	16 04	22.7				ipP	08 06	27.5			
		Ud	iP	16 03	48.0 C			Um	iP	08 04	39.1			
			i	16 03	51.8				i	08 04	48.1			
		De	iP	16 03	29.2 C			Ud	iP	08 04	42.5			
			i	16 03	33.1				i	08 04	52.4			
		North of Ascension Island.							De	iP	08 04	28.7		
		h = 45 km (Up,Ki,Sk).							Iran (h = 15 km).					
		Double P (Um,Ud,De).							"	26	Up	iP	18 37	37.1
"	26	Ki	e(P)	18 37	25			"	26	Ki	eP	21 33	35	
		Ud	iP	21 34	00.6					Ud	iP	21 34	00.6	
		Molucca Passage (h = 55 km).												
"	26	Up	iP	00 51	23.8									
			iPn	00 51	38.4									
			iLi	00 58	00.7									
		Ki	iP	00 52	00.2									
			iPn	00 52	23.7									
			eSn	00 57	49			"	27	Up	iP	09 59	13.0	
		Sk	i(Pn)	00 52	42.9					Ud	iP	09 59	04.7	
		Um	iP	00 51	35.6					De	iP	09 59	06.2 C	
			iPn	00 52	03.9			Peru (h = 60 km).						
			iSn	00 56	43.9			"	27	Sk	eP	10 47	02	
		(cont.)							Um	iP	10 47	11.2		
								Ud	iP	10 46	44.8			

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

1970						1970					
June	28	(cont.)				June	28	(cont.)			
		De	iP	01 44 31.9				Sk	iPP	08 01 02.8	
			iPP	01 49 03.8				Um	iP	07 59 54.7 C	
		Timor (h = 40 km).							iSn	08 05 12.7	
		m = 6.6, M = 6.4 (Up,Ki).						Ud	iP	08 00 01.2	
		(PP) denotes early arrivals of PP.							eSn	08 04 59	
								De	iP	07 59 51.5	
									iPP	08 00 27.1	
								Caucasus.			
								Origin time = 07 54 26.			
"	28	Up	iP	02 04 52.6 C		"	28	Ki	iPn	09 50 51.5	
			iPn	02 05 58.2					iSn	09 51 49.7	
			iPP	02 06 10.9					iLg1	09 52 11.5	
				micr sec				Sk	eLg1	09 54 28	
			P	Z' 0.2 0.5					iSg	09 54 42.7	
			PP	Z' 0.2 0.8				Um	iSn	09 52 29.5	
		Ki	iP	02 04 37.1 C					iS ^x	09 52 43.3	
			iPn	02 05 31.5					iSg	09 53 05.8	
				micr sec				Northwest Russia,			
			P	Z' 0.6 0.6				67.5°N, 33.3°E.			
		Sk	iP	02 05 08.1 C				Origin time = 09 49 35.			
			iPn	02 06 24.6				Explosion?			
			iPP	02 06 29.8							
		Um	iP	02 04 37.5 C							
			iPP	02 05 52.6							
		Ud	iP	02 05 09.2 C							
			iPn	02 06 21.8							
		De	iP	02 05 16.2 C		"	28	Up	iP	11 12 19.9 C	
			iPn	02 06 31.0					iP'P'	11 39 26.1	
			iPP	02 06 43.6						micr sec	
		Kazakh SSR.							P	Z' 0.2 0.5	
		m = 6.3 (Up,Ki).							P'P'	Z' 0.3 1.5	
		Underground explosion.							Mx	E 0.6 17	
									Mx	N 1.2 20	
									Mx	Z 1.9 20	
"	28	Um	e(Sg)	05 48 04				Ki	iP	11 11 26.4	
									iP'P'	11 39 51.0	
"	28	Up	eSg	06 13 42						micr sec	
		Ki	iPn	06 09 30.0					P	Z' 0.3 0.8	
			iSn	06 10 26.7					P'P'	Z' 0.2 2.0	
			iLg1	06 10 46.9					Mx	E 1.8 18	
		Sk	eSg	06 13 18					Mx	N 1.3 17	
		Um	iSg	06 11 40.4					Mx	Z 0.8 14	
		Ud	e(Lg1)	06 14 12				Sk	iP	11 12 03.1 C	
		De	iSg	06 15 52.6				Um	iP	11 11 51.7 C	
		Northwest Russia,							iP'P'	11 39 45.3	
		67.3°N, 33.0°E.							Ud	iP	11 12 23.4 C
		Origin time = 06 08 15.								iP'P'	11 39 23.4
		Explosion?							De	iP	11 12 45.6 C
		Cf remark on June 7, 07 08.								iP'P'	11 39 10.2
								Kamchatka (h = 25 km).			
								m = 6.5, M = 5.3 (Up,Ki).			
"	28	Up	iP	07 59 47.2		"	28	Up	iPKP	11 28 05.3	
			iPn	08 00 00.0					iSKP	11 30 53.3	
			iPP	08 00 27.7					iPP	11 31 15.5	
			i	08 06 24.1						micr sec	
			iLg1	08 07 16.0					PKP	Z' 0.2 0.5	
		Ki	e(Pn)	08 00 40					SKP	Z' 0.2 1.0	
			iSn	08 06 35.3					PP	Z' 0.5 1.4	
		Sk	ePn	08 00 53				(cont.)			
		(cont.)									

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1970				1970			
June	28	(cont.)		June	28	(cont.)	
		Ki	iPKP			De	iPKP
							22 58 08.1
			i			Tonga Islands (h = 35 km).	
			iSKP				
					"		
					29	Up	iPKP
							06 07 31.4
							i
							06 07 37.0
							micr sec
							PKP
			Z'				Z'
							0.5 0.5
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
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							0.1 1.0
							micr sec
							PKP
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							0.1 1.0
							micr sec
							PKP
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							0.1 1.0
							micr sec
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							0.1 1.0
							micr sec
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							0.1 1.0
							micr sec
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							micr sec
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							0.1 1.0
							micr sec
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							0.1 1.0
							micr sec
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							0.1 1.0
							micr sec
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							micr sec
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							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP
							Z'
							0.1 1.0
							micr sec
							PKP

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1970				1970			
June	29	(cont.)		June	30		
		Ud iLgl	17 44 51.4			Up iP	03 57 21.4 C
		Northwest Russia,				Ki iP	03 56 59.0
		69.4°N, 30.5°E.				Um iP	03 57 07.0
		Origin time = 17 38 45.				Ud iP	03 57 31.0 C
		Explosion?				De iP	03 57 39.3
						Formosa (h = 90 km).	
"	29	Up iP	18 14 01.9	"	30	Ud iP	06 34 40.7
		Ki eP	18 14 45			Peru (h = 55 km).	
		Sk iP	18 14 11.9				
		Um iP	18 14 26.7	"	30	Um iP	08 19 07.0
		Ud iP	18 13 55.2 C			Ud iP	08 19 31.2
		North of Ascension Island					
		(h = N).		"	30	Sk i(Sg)	10 03 47.8
						Ud iSg	10 02 53.0
"	29	Up iP	18 42 33.8	"	30	Ud iP	13 14 40.8
		Ki iP	18 41 51.8				
		Um iP	18 42 10.5	"	30	Um i(P)	14 21 14.4
		Ud iP	18 42 42.5				
"	29	Um iP	19 46 48.1	"	30	Um iP	15 06 40.0
"	29	Ki iP	21 18 10.1			Ud iP	15 06 41.7
		Sk eP	21 18 20			Gulf of California (h = N).	
"	29	Ki iP	21 20 16.2	"	30	Ki eP	15 43 07
		Um iP	21 39 49.2			Um iP	15 42 43.5
"	29	Um iP	21 39 49.2			Ud iP	15 42 54.6 C
						Iran (h = N).	
"	29	Ki iP	23 01 00.3	"	30	Up iP	16 24 51.5
		Um i(P)	23 01 16.0			Ki iP	16 24 08.4 C
		Ud eP	23 01 26			Um iP	16 24 26.8
"	29	Up iP	23 30 23.3 C			ipP	16 24 40.6
		Ud iP	23 30 25.5			Ud iP	16 24 58.6
						ipP	16 25 11.5
"	29	Up iPKP	23 32 15.9 D			De iP	16 25 17.2
		i	23 32 21.0			Japan.	
		Ki iPKP	23 31 52.9			h = 50 km (Um,Ud).	
		Sk iPKP	23 32 10.0 D	"	30	Up iP	17 57 15.7
		Um iPKP	23 32 04.6 D			Um iP	17 57 43.9
		Ud iPKP	23 32 17.8			Ud iP	17 57 25.0
		i	23 32 24.2			Ionian Islands.	
		De iPKP	23 32 25.7	"	30	Up iP	18 26 04.1
		Kermadec Islands (h = 360 km).				i	18 26 15.2
"	30	Um iP	02 55 06.6				micr sec
"	30	Ki iP	03 41 35.7			P	Z' 0.1 0.8
			micr sec			Mx	E 1.2 11
		Mx E	0.3 15			Mx	N 1.2 15
		Mx N	0.3 15			Mx	Z 1.1 12
		Mx Z	0.4 13			Ki iP	18 27 21.4 C
		Um iP	03 41 56.0				micr sec
		Ud iP	03 41 55.7 C			Mx	E 3.1 14
		De iP	03 42 25.1 C			Mx	N 0.6 15
		Iceland (h = N).				Mx	Z 1.6 16

(cont.)

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1970

June	30	(cont.)		
		Sk	iP	18 26 45.5
		Um	iP	18 26 45.4
		Ud	iP	18 26 10.5
			i	18 26 14.4
		De	iP	18 25 35.3
			i	18 25 41.4
			i	18 26 15.7
		Greece (h = 6 km).		
		m = 4.9 (Up,Ki).		
"	30	Um	iP	19 15 45.1
			ipP	19 16 01.8
		Ud	ipP	19 16 33.3
		Japan.		
		h = 60 km (Um).		
"	30	Ud	iPKP	21 54 47.7
		De	iPKP	21 55 00.3
		Tonga Islands (h = 70 km).		
"	30	Up	iP	22 19 59.4
		Ki	eP	22 21 15 C
		Sk	iP	22 20 40.0
		Um	iP	22 20 38.8
		Ud	iP	22 20 08.3
		Greece.		
		Origin time = 22 15 09.		
"	30	Um	iPKP	23 05 44.1
		Ud	iPKP	23 05 37.1
		Easter Island region		
		(h = N).		

Markus Båth
July 2, 1971