

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Jan.	4	UPP iPKP1 UME iPKP1 i Kermadec Islands (h = 45 km).	19 27 19.1 19 27 06.6 C 19 27 11.4	Jan.	6	UME iP i Mongolia (h = N).	23 05 41.2 23 05 52.8
"	4	UME iP Bonin Islands region (h = 510 km).	20 42 08.9	"	7	UPP iP UME iP Albania (h = 10 km).	03 02 21.5 03 03 08.5
"	4	UPP iP P Z' UME iP	22 51 39.7 micr sec 0.5 1.0 22 51 13.9	"	7	UPP iP P Z' UME iP Southwestern Ryukyu Islands (h = 120 km).	03 51 53.0 micr sec 0.1 0.6 03 51 35.2 D
"	5	UPP iP UME iP Kuril Islands (h = 45 km).	03 20 33.4 03 20 07.8	"	7	UPP iPn i iSn UME iSn iSg1 UDD iPn iSn DEL iPn i iSn MYV eSn North Sea, near 57°N, 7 1/2°E. Origin time = 09 08 11. M _L (UPP) = 3.4 (0.01) 2.	09 09 42.2 D 09 09 48.9 09 10 48.7 09 12 04.0 09 13 02.5 09 09 19.7 09 10 10.6 09 09 10.3 09 09 17.3 09 09 51.9 09 11 04
"	5	UME iP Mindanao, Philippine Islands (h = 180 km).	11 04 38.7	"	7	UME iP Northern Xinjiang, China (h = N).	14 11 20.8
"	5	UME eP Southern Italy (h = 10 km).	12 44 55	"	8	UME iP Mexico-Guatemala border region (h = 190 km).	01 10 17.8
"	5	UME iP Kuril Islands (h = N).	14 59 07.5	"	8	UPP iP iPP iS Mx Z UME iP Sulawesi (h = N).	15 37 51 15 41 54 15 49 08 micr sec 25 17 15 37 38.2
"	5	UME i(P) Hindu Kush (h = 210 km).	15 42 19.9	"	9	UME iP Mindanao, Philippine Islands (h = 80 km).	06 08 14.9
"	5	UPP iP UME iP ipP Hindu Kush (h = 210 km).	20 42 03.3 20 42 01.9 20 42 47.1	"	9	UPP eP UME iP Mindanao, Philippine Islands (h = 80 km).	07 31 14 07 30 59.9
"	5	UPP iP UME iP P Z' Andreasof Islands, Aleutian Is. (h = 55 km).	21 52 44.1 micr sec 0.1 1.0 21 52 17.4	"	9	UME iP Solomon Islands (h = 45 km).	12 55 12.9
"	5	UPP iP ipP P Z' UME iP ipP Gansu Province, China, h = 10 km (UPP, UME).	23 43 35.1 C 23 43 38.5 micr sec 0.1 1.0 23 43 18.9 C 23 43 22.3	"	9	UME i(P)	19 45 22.5
"	6	UME eP Kuril Islands (h = N).	01 15 38				

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1984			1984		
Jan.	9	UME iSg1 21 49 24.8 Northwestern USSR, 64.9°N, 34.9°E. Origin time = 21 46 05. M _L (UPP) = 2.5 (0.05) 2. Solution from Finnish station readings.	Jan.	14	UPP iP 02 37 24.3 KIR iP 02 36 50.7 South of Honshu, Japan (h = 420 km).
"	9	UME iPKP 22 34 39.7 Vanuatu Islands (h = 220 km).	"	14	UPP iP 22 20 20.9 KIR iP 22 21 29.6 C UME iP 22 20 54.3 Crete (h = 60 km).
"	10	KIR iSKP1 05 34 48.0 UME iPKP 05 32 24.8 iSKP1 05 35 00.5 Fiji Islands region (h = 590 km).	"	15	KIR eP 03 55 47 Pakistan (h = 10 km).
"	10	KIR iSg1 11 17 38.1	"	15	UPP iP 07 21 20.6 KIR iP 07 20 26.8 UME iP 07 20 55.1 Kodiak Island region (h = N).
		UME iSg1 11 17 23.3	"	15	KIR iP 07 21 42.2 C P Z' 0.1 1.0
		MYV eSg1 11 18 33 Norrbotten, Sweden, 65.5°N, 22.6°E. Origin time = 11 16 23. M _L (UPP) = 2.2 (0.17) 2. By combination with Finnish station readings.	"	15	UPP iP 12 12 44.0 KIR iP 12 12 39.4 UME iP 12 12 37.2 C Burma (h = 60 km).
"	10	UPP eP 12 17 01 Yugoslavia (h = 10 km).	"	15	UPP iP 12 39 08.8 P Z' 0.1 0.9 KIR iP 12 38 14.4 P Z' 0.2 1.0
"	11	KIR eP 00 38 06 North of Svalbard (h = 10 km).	"	15	UME iP 12 38 42.4 Kodiak Island region (h = N). m = 6.0 (UPP,KIR).
"	11	UPP iP 18 51 19.8 KIR iP 18 52 07.4 Zaire Republic (h = 10 km).	"	15	UME iP 22 24 56.7 Tajik SSR (h = 10 km).
"	12	UPP iP 03 49 51.0 UME iP 03 50 27.8 Southern Greece (h = 50 km).	"	16	UPP iP 01 33 43.1 UME iP 01 34 21.4 Greece (h = 10 km).
"	13	KIR iP 01 15 47.7 P Z' 0.1 1.0 Volcano Islands region (h = 50 km).	"	16	UPP Mx Z 6.4 30 UME iPKP 12 46 34.3 Easter Island region (h = 10 km).
"	13	KIR iP 20 46 24.4 Hindu Kush region (h = 140 km).	"	16	UPP iP 17 00 20.1 KIR iP 16 59 02.0 UME iP 16 59 43.2 Jan Mayen Island region (h = 10 km).

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1984				1984					
Jan.	16	KIR	iPn	21 23 50.7	Jan.	17	UPP	iP	20 13 22.1
			i	21 24 01.2				i	20 13 27.7
			iSg1	21 24 26.2				P	Z' 0.1 1.0
							UME	iP	20 13 10.3 C
		UME	iSg1	21 25 51.0	"	17	UPP	iP	20 25 04.2
							UME	iP	20 24 47.6
		MYV	eSg1	21 26 00	"	17	UME	iP	21 50 30.4
		Lofoten region, Norway, near 68 1/2°N, 14°E. Origin time = 21 23 08. M _L (UPP) = 3.0 (0.04) 3. Felt.			"	18	UDD	iSg1	05 39 31.9
"	17	UPP	iPdiff	02 22 22.2			Värmland, Sweden, 59.5°N, 13.6°E. Origin time = 05 39 14. M _L (UPP) = 1.6 1. By combination with SKI network readings.		
		KIR	iPdiff	02 22 11.9 C	"	18	UPP	iP	14 16 40.0
		UME	iPP	02 26 17.9				P	Z' 0.1 1.0
		Bali Sea (h = 300 km).						Mx	Z 6.0 13
"	17	UME	i	09 12 59.1			KIR	iP	14 17 00.2
			iSg1	09 13 16.5				P	Z' 0.2 1.0
		Central Finland, 66.0°N, 28.4°E. Origin time = 09 11 09. M _L (UPP) = 2.6 (0.29) 2. Felt. By combination with Finnish station readings.						Mx	Z 3.1 16
"	17	UPP	iP	11 25 08.8			UME	iP	14 16 44.5
				micr sec				i	14 16 50.5
			P	Z' 0.1 1.1				iS	14 23 30
		UME	iP	11 24 46.9 C			Pakistan (h = 10 km). m = 5.9, M = 5.6 (UPP, KIR).		
		Near east coast of Honshu, Japan (h = 40 km).			"	18	UME	iP	15 06 08.2
"	17	UPP	iP	15 43 24.6 C			Greece (h = 10 km).		
			ipP	15 43 37.0	"	19	UME	eP	09 27 13
				micr sec			Turkey-USSR border region (h = N).		
			P	Z' 0.5 1.5	"	19	KIR	iP	11 23 58.6
		UME	iP	15 43 02.8 C			UME	iP	11 24 07.8
			ipP	15 43 13.4			Taiwan region (h = 35 km).		
		Near east coast of Honshu, Japan. h = 45 km (UPP, UME).			"	19	UPP	iPKP1	16 34 00.4
"	17	UME	iPdiff	16 32 41.5				iSKP1	16 37 15.7
		Near coast of northern Peru (h = 20 km).					KIR	e(PKP)	16 33 44
"	17	UME	iP	20 01 09.0				iPKP	16 33 55.6
								iSKP1	16 36 53.4
"	17	UME	iSKP1	20 10 52.5					micr sec
		South of Fiji Islands (h = 590 km).						PKP	Z' 0.1 1.0
							UME	i(PKP)	16 33 51.1
								iPKP	16 34 01.5
								iSKP1	16 37 04.4
							South of Fiji Islands (h = 330 km).		

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1984				1984			
Jan.	22	KIR ePg1 UME ePn MYV iPn	17 09 59 17 10 37 17 10 28.6	Jan.	24	UPP iP UME iP	16 40 02.5 16 39 49.5
		Norwegian Sea, near 72°N, 5°E. Origin time = 17 08 05. Solution from NORSAR bulletin.				Luzon, Philippine Islands (h = 20 km).	
"	22	UME iP	17 25 24.0	"	24	KIR iPKP ipPKP	23 26 03.8 23 26 31.2
		Near s. coast of southern Honshu (h = 450 km).				PKP Z'	0.4 1.8
"	22	KIR eP UME i	17 45 19 17 46 12.5			UME iPKP ipPKP	23 25 56.7 23 26 28.4
		North of Svalbard (h = 10 km).				South Sandwich Islands region. h = 120 km (KIR,UME).	
"	23	UME iP	05 52 10.6	"	25	KIR eP UME iP	03 14 48 03 14 36.7
		Central California (h = 5 km).				Afghanistan-USSR border region (h = 60 km).	
"	23	UME iP	06 10 58.7	"	25	UPP iP	09 46 03.4
		North Atlantic Ocean (h = N).				P Z'	0.1 0.9
"	23	UPP iP i	07 46 38.0 07 46 48.5			KIR iP	09 45 20.0
			micr sec			P Z'	0.1 1.0
		Mx Z	10.3 13			UME iP	09 45 39.1 C
		KIR iP i	07 46 06.0 C 07 46 16.7			Hokkaido, Japan region (h = 70 km). m = 5.9 (UPP,KIR).	
			micr sec				
		P Z'	0.2 1.3				
		Mx Z	6.1 16	"	25	KIR iP UME iP	11 45 51.0 11 45 41.3
		UME iP i	07 46 19.0 C 07 46 26.5			Afghanistan-USSR border region (h = N).	
		Ryukyu Islands (h = 45 km). M = 6.2 (UPP,KIR).		"	25	UPP iP KIR iP UME iP	23 59 23.1 23 59 22.2 23 59 17.5
"	23	KIR iP UME iP	09 37 46.8 09 38 01.7 C			Nepal (h = N).	
		South of Honshu, Japan (h = N).		"	26	UPP iPKP KIR ePKP UME iPKP	18 12 58.3 18 13 15 18 13 07.8
"	23	UPP iP KIR iP	14 47 47.4 14 48 48.9			South Sandwich Islands region (h = N).	
		Turkey (h = 80 km).		"	26	UPP iP KIR iP UME iP	22 58 47.4 22 58 34.2 22 58 38.1
"	23	UPP iP KIR iP	22 16 50.0 22 15 56.2			Celebes Sea (h = 620 km).	
			micr sec	"	27	UPP iPKP1 KIR iPKP1 UME iPKP1	02 01 34.3 02 01 35.7 02 01 32.4
		P Z'	0.1 1.0			West of Macquarie Island (h = 10 km).	
		UME iP i	22 16 23.0 22 16 45.2				
		Fox Islands, Aleutian Islands (h = 100 km).					
"	24	UPP iP i KIR iP UME iP	16 35 06.5 16 35 19.3 16 34 49.4 16 34 55.0				
		Luzon, Philippine Islands (h = 25 km).					

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1984

Jan.	30	UPP	iP	06 03	39.7
		KIR	eP	06 04	18
			i	06 04	40.7
		UME	iP	06 03	51.0 C
		Eastern Caucasus (h = N).			
"	30	UPP	iP	12 56	20.7
		UME	iP	12 56	07.0
			i	12 56	15.9
		Philippine Islands region (h = N).			
"	30	UME	iP	16 16	46.7
			i	16 16	52.4
		Greenland Sea (h = 20 km).			
"	31	UME	iP	00 03	42.7

September 10, 1985

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 Conny Holmqvist
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1984						1984					
Feb.	3	UPP	iP	05 03	34.1	Feb.	6	UPP	iP	14 51	00.7 C
		KIR	iP	05 03	06.4						
		UME	iP	05 03	18.4				P	Z'	0.1 0.7
		Mariana Islands region (h = 50 km).						KIR	iP	14 50	14.1
"	3	UME	iPKP	08 48	28.6						
		Near coast of Central Chile (h = 45 km).							P	Z'	0.1 0.8
"	3	UME	iPKP	14 43	11.9	"	7	UPP	iPKP1	05 32	10.7
		Fiji Islands region (h = 580 km).						South of Fiji Islands (h = 350 km).			
"	3	UPP	eP	18 20	07	"	7	KIR	iSn	16 26	04.3
		UME	iP	18 20	07.2			Central Finland, 65.9°N, 28.3°E.			
"	3	UME	iPKP	19 24	24.8			Origin time = 16 24 26. Solution from Finnish station readings.			
		Santa Cruz Islands (h = 60 km).				"	7	UPP	iPKP	21 52	17.8
"	3	UPP	iP	21 13	08.5						
		UME	iP	21 12	55.6				Mx	Z	97 21
"	4	UPP	iPKP1	20 29	03.1			KIR	iPKP	21 52	04.3
			iPKP2	20 29	07.2						
		UME	iPKP1	20 28	52.0				Mx	Z	178 21
		Kermadec Islands (h = 45 km).						UME	iPKP	21 52	10.4
"	5	UPP	iP	00 25	30.8				i	21 52	20.7
		KIR	iP	00 26	36.1			Solomon Islands (h = 20 km). M = 7.6 (UPP,KIR).			
						"	8	UME	iPKP	00 58	36.6
			P	Z'	0.1 1.5			Solomon Islands (h = 25 km).			
		UME	iP	00 26	00.7	"	8	UPP	iP	03 12	45.5
		Turkey (h = 10 km).						KIR	iP	03 12	13.7
"	5	UME	iP	10 14	10.6			UME	iP	03 12	27.6
"	5	UPP	iP	18 51	19.4 C	"	8	UME	iP	05 33	42.5
						"	8	UME	iP	07 14	59.3
			P	Z'	0.2 1.0				i	07 15	15.2
		KIR	iP	18 50	24.8 C	"	10	UPP	iP	16 45	06.4
									i	16 45	18.0
						"	10	UPP	iP	17 03	48.1
			P	Z'	0.2 0.7				iS	17 14	09
		UME	iP	18 50	50.3 C						
		Near east coast of Kamchatka (h = N). m = 6.2 (UPP,KIR).							Mx	Z	15 18
"	6	UPP	iPKP1	03 32	30.4			KIR	iP	17 03	19.7
		UME	iPKP1	03 32	20.8						
		South of Kermade Islands (h = 50 km).							Mx	Z	6.1 16
"	6	KIR	iP	11 09	11.8			UME	iP	17 03	37.0
		Near east coast of Kamchatka (h = N).							iS	17 13	44
								Gulf of California (h = 10 km). M = 6.3 (UPP,KIR).			

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1984			1984				
Feb.	13	UPP iP	17 04 28.9	Feb.	15	UPP iP	22 04 18.5
			micr sec			ipP	22 04 23.1
		P	Z' 0.1 1.0			KIR iP	22 04 23.2
		UME iP	17 04 07.3 C			ipP	22 04 28.8
		i	17 04 15.8				micr sec
			Near s. coast of Honshu, Japan (h = 45 km).			P	Z' 0.1 1.0
"	13	UPP iP	18 16 28.2			UME iP	22 04 14.2
			South of Alaska (h = N).			ipP	22 04 19.1
"	14	UPP iSn	10 45 31.3	"	16	Tajik SSR.	
		i	10 46 14.7			h = 20 km (UPP,KIR,UME).	
		UME iSn	10 45 43.3			UPP iP	00 26 53.8
		UDD iPn	10 43 41.2			KIR iP	00 26 57.8
		iSn	10 44 42.4				micr sec
		iSgl	10 45 02.4			P	Z' 0.1 0.7
		DEL iPn	10 44 11.7			UME iP	00 26 48.9
		iSn	10 45 37.2			ipP	00 26 53.9
			South Norwegian Sea, near 62 1/4°N, 3°E. Origin time = 10 42 16. M _L (UPP) = 3.2 1.			Tajik SSR.	
"	14	UME iP	16 52 58.5	"	16	h = 20 km (UME).	
			Honshu, Japan (h = 160 km).			KIR iPn	06 12 50.1
"	14	UPP iP	23 18 14.3			Greenland Sea, near 75°N, 17 1/2°E. Origin time = 06 11 07. Solution from Finnish station readings.	
		UME iP	23 17 55.9	"	16	UPP iP	13 52 51.0
			South of Honshu, Japan (h = 410 km).			KIR iP	13 52 16.0
"	15	UPP iP	04 58 12.0				micr sec
		UME iP	04 58 23.6			P	Z' 0.1 1.0
			Carlsberg Ridge (h = 10 km).			UME iP	13 52 31.0
"	15	UME iP	05 39 38.2	"	16	Near s. coast of Honshu, Japan (h = 350 km).	
			Tajik SSR (h = N).	"	16	UPP iP	14 46 08.6
"	15	UPP iP	10 56 54.2	"	16	UPP iP	15 06 18.0
			Southeastern Uzbek SSR. (h = 20 km).	"	16	UPP iP	17 26 04.5 C
"	15	UME iP	13 49 12.2			i	17 26 05.5
			Kuril Islands (h = 40 km).			ipP	17 26 51.8
"	15	UPP iP	15 52 07.3				micr sec
"	15	UPP iP	15 52 31.9			P	Z' 1.5 0.8
"	15	UPP iP	17 11 48.8			Mx	Z 21 25
		KIR iP	17 11 14.0			KIR iP	17 26 13.5 C
		UME iP	17 11 34.1				micr sec
			Southern Nevada. Underground explosion.			Mx	Z 32 22
						UME iP	17 26 02.8 C
						i	17 26 03.9
						ipP	17 26 49.0
						Hindu Kush.	
						h = 220 km (UPP,UME).	
						M = 6.1 (UPP,KIR).	
						Double P, small and large, about 1 s apart.	
						M uncorrected for focal depth.	

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1984				1984									
Feb.	17	UPP	iP	02 32	47.1	Feb.	17	UPP	iP	23 14	53.6		
		KIR	iP	02 32	16.1				ipP	23 15	00.8		
		UME	iP	02 32	29.1			KIR	iP	23 14	57.6		
		Bonin Islands region (h = 510 km).							ipP	23 15	03.3		
										micr	sec		
"	17	UPP	iP	02 46	56.7				P	Z'	0.1 0.7		
								UME	iP	23 14	49.7		
			P	Z'	0.1 1.1				ipP	23 14	55.3		
		KIR	iP	02 46	39.2			Tajik SSR. h = 20 km (UPP,KIR,UME).					
		UME	iP	02 46	41.0			"	17	UPP	iP	23 34	08.5
			i	02 46	44.0					ipP	23 34	13.9	
		Qinghai Province, China (h = 10 km).									micr	sec	
"	17	UPP	iPKP1	10 52	04.7				P	Z'	0.1 1.3		
		UME	iPKP1	10 51	55.1			KIR	iP	23 34	12.0		
		Kermadec Islands (h = 50 km).									micr	sec	
"	17	UPP	iP	16 46	18.8				P	Z'	0.2 1.0		
		KIR	iP	16 46	03.8			UME	iP	23 34	03.8		
									ipP	23 34	09.2		
			P	Z'	0.2 1.2				iS	23 39	53		
		UME	iP	16 46	08.7			Tajik SSR. h = 20 km (UPP,UME). m = 5.6 (UPP,KIR).					
		Banda Sea (h = 160 km).						"	18	UPP	iP	05 30	51.7
"	17	UME	iP	20 42	22.7					KIR	iP	05 31	30.8
		Kuril Islands (h = N).								UME	iP	05 31	07.4
"	17	UPP	Mx	21 23						i	05 31	12.7	
								Eastern Gulf of Aden (h = 10 km).					
			Mx	Z	14 25			"	18	UPP	iP	16 40	12.7
		KIR	Mx	21 23						KIR	iP	16 41	19.1
										UME	iP	16 40	44.0
			Mx	Z	7.7 16			Crete (h = 25 km).					
		Revilla Gigedo Islands region (h = 10 km). M = 6.3 (UPP,KIR).						"	18	UPP	iP	16 52	00.1
"	17	UME	iP	21 25	16.7					KIR	iP	16 52	08.3
		Aegean Sea (h = 15 km).								UME	iP	16 51	58.4
"	17	KIR	eP	22 09	30			"	18	UME	iSKP1	18 47	17.2
		UME	iP	22 09	51.1			Fiji Islands region (h = 610 km).					
		Kuril Islands (h = N).						"	18	KIR	iP	19 43	19.2
"	17	UME	iPKP	22 54	15.6					UME	iP	19 43	10.8
		Loyalty Islands region (h = 40 km).						Tajik SSR (h = 15 km).					
"	17	UPP	iP	23 13	38.3			"	19	UPP	iP	03 51	49.0
										UME	iP	03 52	29.6
			Mx	Z	5.6 8			Greece (h = 25 km).					
		KIR	iP	23 13	43.2			"	19	UPP	iP	04 04	00.0
											micr	sec	
			Mx	Z	8.6 9					P	Z'	0.6 0.7	
		UME	iP	23 13	34.6			KIR	iP	04 03	44.7		
		Tajik SSR (h = 15 km).						UME	iP	04 03	45.2		
								Eastern Kazakh SSR. Underground explosion.					

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1984				1984			
Feb.	19	UPP UME	iP iP	09 40 09.3 09 40 00.7			
		Burma-India border region (h = 45 km).					
"	19	UPP KIR UME	iP iP iP	15 55 28.9 15 55 32.3 15 55 24.9			
			i	15 55 33.8	Nepal-India border region (h = 20 km).		
"	20	UPP	iP	01 21 08.2			
"	20	UME	eP	04 12 47	Tajik SSR (h = 10 km).		
"	20	KIR	iP	18 37 25.6 C			
					micr	sec	
			P	Z' 0.1	1.0		
		UME	iP	18 38 06.3	North of Severnaya Zemlya (h = 10 km).		
"	20	UME	iP	22 48 59.1	Near coast of Chiapas, Mexico (h = 80 km).		
"	20	UME	iP	23 08 18.9	Talaud Islands (h = 190 km).		
"	21	UME	iP	08 27 50.5			
"	21	KIR	iP	08 43 22.2			
		UME	iP	08 43 30.6			
			i	08 43 34.2			
"	21	UPP KIR UME	iP iP iP	12 03 15.0 12 02 36.4 12 02 54.6 C			
		Near east coast of Honshu, Japan (h = 90 km).					
"	22	UPP	iP	05 50 54.8			
			iS	05 55 55	micr	sec	
			Mx	Z 23	19		
		KIR	iP	05 51 23.1	micr	sec	
			Mx	Z 14	13		
		UME	eP	05 51 02			
			i	05 51 08.5			
			iS	05 56 11			
		Turkmen SSR (h = N). M = 5.9 (UPP,KIR).					
Feb.	22	UME	iP	06 53 42.0			
"	22	KIR	eP	15 33 44			
		UME	iP	15 34 00.4	Near s. coast of Honshu, Japan (h = 15 km).		
"	22	UPP	i(P)	18 29 36.3			
"	22	KIR	eP	18 34 09			
		UME	iP	18 34 25.9	Iceland (h = 10 km).		
"	22	KIR	iP	20 24 38.5			
		UME	eP	20 24 50	Molucca Passage (h = 45 km).		
"	23	UPP	iP	15 29 54.3			
					micr	sec	
			Mx	Z 1.6	12		
		KIR	iP	15 30 03.5			
		UME	iP	15 29 52.4	Southeastern Uzbek SSR (h = N).		
"	23	UPP	iP	22 26 55.1			
		UME	iP	22 27 48.1	Poland (h = 10 km).		
"	24	UPP	eP	00 40 47			
		KIR	iP	00 40 29.0			
		UME	iP	00 40 36.5	Mindanao, Philippine Islands (h = 70 km).		
"	24	UME	iP	03 14 11.7	North of Svalbard (h = 10 km).		
"	24	UPP	iPKP1	05 16 44.8 C	Kermadec Islands region (h = N).		
"	24	UPP	iP	11 23 01.6			
		KIR	iP	11 22 07.7	Rat Islands, Aleutian Islands (h = 50 km).		
"	24	UPP	iP	12 58 51.4 D			
			ipP	12 59 36.9	micr	sec	
			P	Z' 0.3	1.0		
		KIR	iP	12 59 00.1 D			
			i	12 59 09.7	micr	sec	
			P	Z' 0.5	1.0		

(cont.)

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984					
Mar.	9	UME	iP	07 39 40.3	Mar.	10	UPP	iP	15 31 20.2
				Caribbean Sea (h = 10 km).			KIR	iP	15 31 41.8
"	9	UME	eP	10 10 14				i	15 31 50.5
				Azores Islands region			UME	iP	15 31 28.9
				(h = 10 km).				i	15 31 37.7
"	9	UPP	eP	15 47 39					Chagos Archipelago region
		KIR	eP	15 48 10	"	10	UPP	iP	16 49 59.8
		UME	iP	15 47 58.8			KIR	eP	16 49 26
				Azores Islands region			UME	iP	16 49 40.7
				(h = 10 km).					Bonin Islands region
"	9	UPP	eP	19 15 10					(h = 45 km).
			i	19 15 13.1	"	10	UPP	iP	23 54 00.9
		UME	eP	19 15 28			UME	iP	23 53 41.1
			i	19 15 30.3					South of Honshu, Japan
				Azores Islands region					(h = 40 km).
				(h = 10 km).	"	11	UPP	iP	02 06 10.6
"	10	UPP	iP	00 22 56.3					Near east coast of Kamchatka
				micr sec					(h = 70 km).
			P	Z' 0.1 0.8	"	11	KIR	iPg1	03 10 38.7
		KIR	iP	00 22 22.9				iSg1	03 11 08.5
		UME	iP	00 22 37.0			UME	iSg1	03 12 16.8
			i	00 23 02.8			MYV	iSg1	03 12 25.0
				South of Honshu, Japan					Off coast of northern Norway,
				(h = 420 km).					near 67 3/4°N, 14 1/2°E.
"	10	UPP	eP	02 28 05					Origin time = 03 09 58.
		KIR	iP	02 28 00.0					M _L (UPP) = 2.6 (0.06) 2.
		UME	iP	02 29 02.4					Felt.
				Sunda Strait (h = 80 km).	"	11	KIR	iPg1	03 36 54.3
"	10	UME	iP	05 49 13.4				iSg1	03 37 26.9
				Southern Sumatera			UME	iPn	03 37 07.6
				(h = 90 km).				iSn	03 37 56.1
"	10	UPP	eP	09 15 23				iSg1	03 38 13.1
			iPP	09 18 32.3			MYV	iPg1	03 37 15.4
			iS	09 25 56				iSg1	03 38 05.4
				micr sec					Northern Norway, near
			Mx	Z 2.2 20					67 3/4°N, 13 1/2°E.
		KIR	iP	09 15 21.5					Origin time = 03 36 09.
			i	09 15 39.9					M _L (UPP) = 2.9 (0.03) 2.
				micr sec					Felt.
			P	Z' 0.3 1.2	"	11	UPP	iP	21 24 36.9
			Mx	Z 2.1 16				i	21 24 38.8
		UME	iP	09 15 19.9					Greece-Albania border region
			i	09 15 38.8					(h = 50 km).
				Java (h = 50 km).	"	11	UME	iP	22 27 43.5
				M = 5.7 (UPP,KIR).					Honshu, Japan (h = 180 km).
"	10	UPP	i	11 59 11.6					
			iS	12 02 38.0					
				Southwestern USSR (h = N).					

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1984				1984						
Mar.	11	UPP	iP	22 32 58.0 D	Mar.	12	UME	i	12 19 17.4	
			P	micr sec				i	12 19 21.1	
			Z'	0.1 1.0				i(Rg)	12 19 48.6	
		KIR	iP	22 32 20.1 D		"	12	UPP	iP	20 03 21.8
			P	micr sec				KIR	i	20 04 25.1
			Z'	0.2 1.0				UME	iP	20 03 35.2
		UME	iP	22 32 36.4 D				Eastern Caucasus (h = N).		
		Sea of Japan (h = 350 km).								
		m = 5.7 (UPP,KIR).				"	12	UME	iP	22 06 29.3
"	11	UPP	iP	23 32 59.7				Kuril Islands (h = N).		
		Greece-Albania border region (h = 35 km).				"	12	UME	iP	23 40 52.7
								i	23 40 56.8	
"	12	UPP	iP	00 03 16.3				Eastern Greenland (h = 10 km).		
			i	00 03 19.9		"	13	KIR	iP	08 06 48.9
				micr sec				i	08 06 54.1	
			Z'	0.1 1.0				UME	i	08 06 41.7
		KIR	i	00 04 05.4				i	08 06 54.6	
		UME	eP	00 03 34				Tajik SSR (h = 20 km).		
			i	00 03 36.2		"	13	UPP	eP	09 10 46
			i	00 03 40.8				KIR	iP	09 10 51.8
			iS	00 07 54				UME	iP	09 10 42.8
		Western Caucasus (h = 10 km).						Tajik SSR (h = 10 km).		
"	12	UPP	iP	02 34 36.7		"	13	UME	iP	09 11 01.1
			i	02 34 38.7				Tajik SSR (h = 15 km).		
		UME	eP	02 35 15						
		Greece-Albania border region (h = 60 km).				"	13	UPP	iP	20 40 29.1 C
"	12	UPP	iP	02 46 41.0					micr sec	
		KIR	iP	02 46 11.8				P	Z'	0.1 1.0
		UME	iP	02 46 24.2				Mx	Z	1.8 22
			i	02 46 32.5			KIR	iP	20 41 38.4	
		Volcano Islands region (h = 190 km).							micr sec	
								P	Z'	0.1 0.5
"	12	UPP	iP	10 01 38.3			UME	iP	20 41 03.0	
		KIR	iP	10 01 22.3			Crete (h = 30 km).			
				micr sec			m = 5.8 (UPP,KIR).			
			P	Z'	0.1 1.0	"	14	UPP	iP	00 52 16.1
		UME	iP	10 01 27.8				ipP	00 52 31.6	
		Talaud Islands (h = 120 km).						iS	01 03 05	
"	12	UPP	iPKP1	11 09 12.6					micr sec	
			iSKP1	11 12 04.7				P	Z'	0.1 1.0
		KIR	iPKP	11 09 03.5				Mx	Z	1.2 22
		UME	iPKP	11 09 08.7			KIR	iP	00 52 04.1	
			i	11 09 12.2				ipP	00 52 19.0	
			iSKP1	11 11 53.7					micr sec	
			iSS	11 29 18				P	Z'	0.1 0.8
		South of Fiji Islands (h = 550 km).					UME	iP	00 52 07.5	
							ipP	00 52 21.6		
							iSKS	01 02 29		

(cont.)

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1984				1984			
Mar.	Day	Station	Time	Mar.	Day	Station	Time
1984	14	(cont.)		1984	15	(cont.)	
Mar.	14	UME iS	01 02 50	Mar.	15	Origin time = 22 38 07.	
		Kalimantan.				$M_L(\text{UPP}) = 1.6$	1.
		h = 50 km (UPP,KIR,UME).				By combination with Finnish station readings.	
		m = 6.1 (UPP,KIR).					
"	14	UPP iP	01 41 21.1	"	16	UPP eP	00 57 19
		KIR iP	01 41 23.3			UME iP	00 56 56.5
		UME iP	01 41 17.0			Near east coast of Honshu, Japan (h = 50 km).	
		Nepal (h = 40 km).					
"	14	UPP i	11 54 42.7	"	16	UPP iP	17 21 46.7 C
		i	11 54 45.3			ipP	17 21 58.8
		i	11 54 48.7				micr sec
		iSKP1	11 57 34.7			P	Z' 0.1 0.7
		KIR e	11 54 37			KIR iP	17 21 02.4
		iPKP	11 54 39.5				micr sec
		iSKP1	11 57 10.7			P	Z' 0.1 1.0
		UME i	11 54 34.7			UME iP	17 21 22.4 C
		i	11 54 39.4			Hokkaido, Japan region (h = 50 km).	
		iPKP	11 54 47.1			m = 6.0 (UPP,KIR).	
		iSKP1	11 57 24.3				
		Fiji Islands region (h = 570 km).		"	16	UPP iP	21 48 07.4
"	14	UPP iP	15 41 04.6			i	21 48 14.5
		UME iP	15 40 59.5			KIR eP	21 47 42
		Kashmir-Tibet border region (h = N).				i	21 47 56.6
"	14	UME eP	20 42 14			UME iP	21 47 51.6
		Southern Alaska (h = 70 km).				Southwestern Ryukyu Islands (h = N).	
"	15	UPP iP	03 35 32.0	"	17	UPP	00 09
		UME iP	03 35 28.8				micr sec
		Sunda Strait (h = 70 km).				Mx	Z 1.2 22
"	15	UPP iP	08 22 01.8			Vanuatu Islands.	
		UME eP	08 22 48	"	17	UPP iSg1	00 10 12.0
		Taiwan region (h = 25 km).				UME iSg1	00 12 05.8
"	15	UPP eP	19 06 11			UDD iPg1	00 09 34.0
		UME iP	19 06 47.2			iSg1	00 09 47.9
		Tunisia (h = 30 km).				MYV eSg1	00 11 14
"	15	UPP iP	21 11 22.5			Värmland-Närke-Västergötland, Sweden, 59.0°N, 14.3°E.	
		KIR iP	21 10 54.7			Origin time = 00 09 15.	
		UME iP	21 11 06.3			$M_L(\text{UPP}) = 2.1$ (0.11) 2.	
		Mariana Islands region (h = 320 km).		"	17	UPP iP	03 55 44.4 D
"	15	UME iSg1	22 38 52.7			i	03 55 56.9
		Gulf of Bothnia, Finland, 62.5°N, 21.2°E.					micr sec
		(cont.)				P	Z' 0.1 0.8
						Mx	Z 0.5 12
						KIR iP	03 55 18.8
						i	03 55 33.8
							micr sec
						P	Z' 0.1 1.0
						(cont.)	

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1984				1984			
Mar.	Day	Station	Time	Mar.	Day	Station	Time
1984	17	(cont.)		1984	18	(cont.)	
		UME	iP 03 55 27.8			UME	iPKP 08 13 12.1
			i 03 55 38.9				iSKP1 08 16 19.2
		Southwestern Ryukyu Islands (h = 30 km). m = 5.7 (UPP,KIR).				Fiji Islands region (h = 290 km).	
"	17	UPP	iP 12 35 36.3	"	18	UPP	iP 14 56 33.4
		KIR	iP 12 35 59.8			KIR	eP 14 56 11.4
			i 12 36 08.4			UME	iP 14 56 18.8
			micr sec			Taiwan region (h = N).	
			P Z' 0.2 1.0			"	18
		UME	iP 12 35 43.3	UME	iP 15 03 08.0		
		Near coast of Pakistan (h = N).				Hokkaido, Japan region (h = 70 km).	
"	17	KIR	eP 15 29 22	"	18	UPP	Mx 15 38
		UME	iP 15 29 26.8				Mx Z 0.5 10
			i 15 31 23.9			UME	eP 15 32 38
			i 15 31 31.9				i 15 32 40.3
			i 15 31 35.3			Yugoslavia (h = 10 km).	
		Celebes Sea (h = 550 km).				"	18
		KIR	eP 00 06 38.8	UME	iP 16 30 37.3		
		UME	iP 00 06 28.8			"	18
		Afghanistan-USSR border region (h = 180 km).		UPP	eP 23 50 57		
				KIR	iP 23 50 20.3	"	18
				UME	iP 23 50 35.8		
				Sea of Japan (h = 350 km).		"	18
		KIR	iP 02 07 15.7	KIR	iP 01 47 03.6		
		UME	iP 02 07 55.5	UME	eP 01 46 59		
				Southern Xinjiang, China (h = 50 km).		"	19
		KIR	iP 04 25 47.2	UPP	iP 03 16 47.9		
		UME	iP 04 26 31.7		micr sec		
					P Z' 0.1 1.0	"	19
		UPP	iP 08 00 02.3		Mx Z 1.7 14		
			ipP 08 00 08.5	KIR	iP 03 16 19.4		
			i 08 00 13.4		micr sec	"	19
			micr sec		Mx Z 0.7 13		
			pP Z' 0.1 0.9	UME	iP 03 16 30.9		
			Mx Z 1.1 17	Ryukyu Islands (h = 40 km). M = 5.4 (UPP,KIR).		"	19
		KIR	iP 07 59 42.1	UPP	iP 12 43 43.5		
			ipP 07 59 47.8	KIR	iP 12 43 04.3		
			micr sec	UME	iP 12 43 21.5		
			pP Z' 0.1 0.9	Off east coast of Honshu, Japan (h = 10 km).		"	19
		UME	iP 07 59 49.0	UPP	e(PKP) 20 18 42		
			ipP 07 59 54.5	KIR	iPKP 20 18 11.9		
			i 08 00 00.5		i 20 18 15.0		
		Philippine Islands region. h = 20 km (UPP,KIR,UME). m = 5.7 (UPP,KIR).		UME	iPKP1 20 18 21.9		
				(cont.)			
"	18	UPP	i 08 13 13.2	"	19	UPP	e(PKP) 20 18 42
			iPKP 08 13 14.9			KIR	iPKP 20 18 11.9
		KIR	iPKP 08 13 06.7				i 20 18 15.0
		UME	i 08 13 03.8			UME	iPKP1 20 18 21.9
		(cont.)				(cont.)	

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1984				1984			
Mar.	19	(cont.)		Mar.	20		
		UME i	20 18 28.8			UPP iP	02 05 51.5
		South of Kermadec Islands				KIR eP	02 06 06
		(h = N).				UME iP	02 05 50.8
						Uzbek SSR (h = 10 km).	
"	19	UPP iP	20 35 24.5 C	"	20	UPP iP	02 59 06.0
		iPP	20 36 33				micr sec
		iS	20 40 51			P Z'	0.1 1.2
			micr sec			KIR iP	02 58 30.8
		P Z'	2.5 1.0				micr sec
		Mx Z	251 16			P Z'	0.1 1.0
		KIR iP	20 35 39.4 C			UME iP	02 58 45.9
			micr sec			i	02 58 57.6
		Mx Z	259 12			Southeast of Shikoku, Japan	
		UME iP	20 35 25.8 C			(h = 20 km).	
		iS	20 40 48			m = 5.8 (UPP,KIR).	
		Uzbek SSR (h = 15 km).					
		M = 7.2 (UPP,KIR).		"	20	UPP iP	03 56 44.9
"	19	UPP iP	21 00 46.3			UME iP	03 56 45.8
		ipP	21 00 48.5			Uzbek SSR (h = 10 km).	
			micr sec	"	20	UPP iP	06 35 26.5
		pP Z'	0.1 0.8			i	06 35 30.8
		UME iP	21 00 48.8				micr sec
		ipP	21 00 50.3			i	0.1 1.0
		Uzbek SSR (h = 10 km).				Mx Z	2.4 15
"	19	UPP eP	21 10 34			KIR eP	06 35 42
		ipP	21 10 38.0			i	06 35 45.5
			micr sec				micr sec
		pP	0.1 1.0			i Z'	0.2 1.5
		Uzbek SSR (h = 10 km).				Mx Z	1.9 11
"	19	UPP iP	21 28 08.5			UME eP	06 35 28
		ipP	21 28 11.2			Uzbek SSR (h = 10 km).	
			micr sec			m = 5.7, M = 5.1 (UPP,KIR).	
		pP Z'	0.1 0.9	"	20	UPP iP	07 26 43.3
		UME i	21 28 09.0			UME iP	07 26 33.8
		Uzbek SSR (h = 10 km).				Minahassa Peninsula	
"	19	UPP iP	21 37 09.3			(h = 130 km).	
		Uzbek SSR (h = 10 km).		"	20	UPP iPKP	08 53 11.3
"	19	UPP iP	21 47 34.5			UME iPKP	08 53 03.6
		UME iP	21 47 34.6			Vanuatu Islands (h = 50 km).	
		Uzbek SSR (h = 10 km).		"	20	UPP eP	11 25 56
"	19	UPP iP	22 10 39.0			KIR eP	11 26 12
		Uzbek SSR (h = 10 km).				UME iP	11 25 56.6
"	20	UPP iP	01 50 26.0			Uzbek SSR (h = 10 km).	
		KIR iP	01 50 41.6	"	20	UPP iP	12 33 40.9
		UME iP	01 50 28.3			KIR iP	12 34 15.8
		i	01 50 33.7			UME iP	12 33 53.7
		Uzbek SSR (h = 10 km).				Southern Iran (h = N).	

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1984				1984								
Mar.	20	KIR	iP	17 30	19.2	Mar.	21	UPP	iP	03 53	15.2	
		UME	iP	17 30	09.6			UME	iP	03 53	15.9	
			i	17 30	11.5			Uzbek SSR (h = N).				
		North Atlantic Ridge (h = 10 km).							UPP	iP	08 46	32.6
"	20	UPP	iP	18 02	00.5				Mx	Z'	1.3 19	
		KIR	iP	18 02	09.7			KIR	iP	08 46	40.7	
		UME	iP	18 01	59.1			UME	iPKP	08 46	35.5	
		Hindu Kush region (h = 190 km).							Mid-Indian Rise (h = 10 km).			
"	20	UPP	iP	19 44	49.8			UPP	iP	09 35	38.8	
		UME	iP	19 44	29.4			KIR	eP	09 35	47	
		Near east coast of Honshu, Japan (h = 40 km).							UME	iP	09 35	37.2
		Hindu Kush region (h = 180 km).										
"	20	UME	iPKP	20 08	41.4			UPP	Mx	11 28		
		Vanuatu Islands (h = 220 km).									micr sec	
"	20	UPP	iP	22 51	09.2			Mx	Z	1.2 22		
		UME	iP	22 51	08.7			Tonga Islands (h = N).				
		Uzbek SSR (h = 10 km).										
"	21	UPP	iP	01 16	00.2 D			UME	iP	13 36	30.1	
			i	01 20	31.0			Uzbek SSR (h = N).				
			P	Z'	0.3 1.0							
		KIR	iP	01 18	14.3 D			UPP	iPKP	13 52	51.8	
			P	Z'	0.3 1.4			Vanuatu Islands (h = 230 km).				
		UME	iP	01 17	38.6 D			UPP	iPKP1	14 17	17.5	
		Southern Italy (h = 280 km). m = 5.6 (UPP,KIR).								iPKP	14 17	19.9
"	21	UPP	iP	01 39	39.8			KIR	iPKP	14 17	09.2	
		UME	i(P)	01 40	19.8				iSKP1	14 19	49.7	
		Romania (h = 160 km).							UME	iPKP	14 17	14.5
									iSKP1	14 20	00.5	
		South of Fiji Islands (h = 510 km).										
"	21	UPP	iP	02 55	06.1 C			UPP	iPKP	17 23	58.8	
			P	Z'	0.1 0.7			KIR	iPKP	17 23	44.9 D	
			Mx	Z	9.1 26				PKP	Z'	0.1 1.0	
		KIR	iP	02 54	15.7 C			UME	iPKP	17 23	50.8 D	
			P	Z'	0.2 1.2			Vanuatu Islands (h = 30 km).				
			Mx	Z	3.4 17			UPP	iP	17 59	27.5	
		UME	iP	02 54	39.3 C			KIR	iP	18 00	03.1	
			iS	03 03	58			UME	iP	17 59	40.8	
		Kuril Islands (h = 40 km). m = 5.9, M = 5.8 (UPP,KIR).								i	17 59	46.1
		Southern Iran (h = N).										
"	21	UPP	eP	03 02	15			UPP	iP	18 19	33.6	
		KIR	eP	03 01	31			KIR	iP	18 20	09.0	
		UME	iP	03 01	50.1				P	Z'	0.1 0.6	
		Hokkaido, Japan region (h = 50 km).							UME	iP	18 19	46.7
		Southern Iran (h = N).										

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Mar.	21	UPP KIR UME	iP iP iP	18 33 18 34 18 34	58.6 34.2 11.7		
		Southern Iran (h = N).					
"	21	UME	iPKP	18 39	48.3		
		Fiji Islands (h = 10 km).					
"	21	UPP KIR UME	iP iP iP	18 48 18 49 18 48	41.9 17.5 55.1		
		Southern Iran (h = N).					
"	21	UPP KIR	iP iP	23 16 23 16	32.0 25.2	C C	
					micr sec		
			P	Z'	0.1 0.9		
		UME	iP	23 16	23.8	C	
		Eastern India (h = N).					
"	21	UPP	iP	23 44	51.7		
					micr sec		
			P	Z'	0.1 0.8		
		KIR	iP	23 43	58.6		
		UME	iP	23 44	24.7		
		Rat Islands, Aleutian Islands (h = 80 km).					
"	22	UPP KIR UME	iP iP iP	00 29 00 30 00 30	50.0 25.5 03.0	C C C	
		Southern Iran (h = N).					
"	22	UPP UME	eP iP	04 14 04 14	13 38.9		
		North of Ascension Islands (h = 10 km).					
"	22	UPP	iP	05 47	50.9		
			i	05 48	14.3		
		KIR	i	05 48	13.9		
		UME	eP	05 47	47		
			i	05 48	09.9		
		Andaman Islands region (h = 100 km).					
"	22	UPP	iPKP1 i	08 04 08 04	11.5 13.8		
					micr sec		
			PKP1	Z'	0.1 0.8		
		KIR	iPKP	08 03	54.4		
		UME	iPKP1 iPKP	08 03 08 03	59.0 59.9		
		Kermadec Islands (h = 240 km).					
Mar.	22	UME	iPKP	14 32	23.4		
		Samoa Islands region (h = 40 km).					
"	22	UPP UME	eP iP	14 47 14 47	05 06.0		
		Uzbek SSR (h = 40 km).					
"	22	KIR	iP i iP	21 35 21 35 21 34	05.0 12.9 51.9		
		Hindu Kush region (h = 200 km).					
"	22	UPP	iP i i iS	22 21 22 22 22 23 22 27	39.5 33.4 01.5 33	C C C C	
					micr sec		
			P	Z'	0.1 0.7		
		KIR	iP i	22 21 22 21	48.1 51.6	C C	
					micr sec		
			P	Z'	0.1 0.7		
		UME	iP iS	22 21 22 27	37.8 30	C C	
		Afghanistan-USSR border region (h = 250 km). m = 5.3 (UPP,KIR).					
"	23	UPP	iP i iP iP i	08 48 08 48 08 47 08 47 08 48	08.6 50.5 12.8 41.0 10.4		
		Alaska Peninsula (h = 120 km).					
"	23	UPP	iP i iP iP i	11 05 11 05 11 05 11 05 11 05	11.0 12.6 27.0 12.0 13.7		
		Uzbek SSR (h = N).					
"	23	KIR	iPg1 iSg1 iSg1	13 17 13 17 13 17	15.3 42.2 57.9		
		Norrbotten, Sweden, 66.0°N, 22.8°E. Origin time = 13 16 39. M _L (UPP) = 2.3 (0.41) 2. By combination with Finnish station readings.					

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984								
Mar.	24	UPP	iP	22 54	34.4	Mar.	25	(cont.)				
		KIR	iP	22 53	41.2			UME	i	19 10	47.2	
		UME	iP	22 54	08.0			Near east coast of Honshu, Japan (h = 60 km).				
		Fox Islands, Aleutian Islands (h = N).					"	25	KIR	iP	20 24	55.2
"	24	UPP	iP	23 00	54.7			UME	iP	20 24	38.7	
		KIR	iP	23 00	00.1			Uzbek SSR (h = N).				
		UME	iP	23 00	28.0		"	26	UME	iPKP	02 30	28.4
		Fox Islands, Aleutian Islands (h = N).						Fiji Islands region (h = 550 km).				
"	24	UPP	iPKP1	23 08	40.9		"	26	UME	iP	02 49	18.9
			iPKP	23 08	46.9			Kuril Islands (h = N).				
		KIR	iPKP	23 08	32.8		"	26	KIR	iP	09 49	34.6
		UME	iPKP	23 08	33.9			UME	iP	09 49	40.8	
			i	23 08	40.7			Mindanao, Philippine Islands (h = 90 km).				
		Fiji Islands region (h = 600 km).					"	26	KIR	iP	20 18	56.1
"	25	KIR	iP	03 34	38.1			UME	iP	20 19	20.5	
		UME	iP	03 35	26.5			Kuril Islands region (h = 40 km).				
		Greenland Sea (h = 10 km).					"	26	UPP	iP	23 22	47.8
"	25	UPP	iPKP	05 07	16.5				P	Z'	0.2	1.2
		UME	iPKP	05 07	01.7				Mx	Z	1.9	20
		Kermadec Islands (h = N).						KIR	iP	23 21	52.2	
"	25	UPP	iP	07 59	37.5							
		UME	iP	07 59	23.4				P	Z	0.4	1.7
		Luzon, Philippine Islands (h = 60 km).							Mx	Z	1.0	14
"	25	UPP	iP	13 50	17.5			UME	iP	23 22	18.4	
		KIR	eP	13 48	48				i	23 23	13.0	
		Greenland Sea (h = 10 km).						Near east coast of Kamchatka (h = 30 km). m = 6.2, M = 5.2 (UPP,KIR).				
"	25	UPP	iP	14 31	41.8		"	27	UPP	iP	01 26	33.2
		KIR	iP	14 31	55.7			KIR	eP	01 27	10	
		UME	iP	14 31	42.0			UME	iP	01 26	45.7	
		Uzbek SSR (h = N).						Eastern Caucasus (h = N).				
"	25	UME	iP	17 20	11.0		"	27	KIR	iPKP	03 22	10.0
		South of Honshu, Japan (h = N).						UME	iPKP	03 21	15.3	
"	25	UPP	iP	19 10	57.2			Kermadec Islands region (h = N).				
			i	19 11	10.1							
									P	Z'	0.1	1.2
		KIR	iP	19 10	17.4 C		"	27	UDD	iSg1	05 49	46.5
			i	19 10	30.2			DEL	iSg1	05 49	42.3	
		UME	iP	19 10	35.1 C			Västergötland, Sweden, 58.2°N, 13.5°E.				
			i	19 10	43.4			Origin time = 05 48 47.				
		(cont.)						M _L (UPP) = 1.9 1.				
								Solution from SKI network readings.				

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Mar.	29	UPP iP KIR iP Hokkaido, Japan region (h = 70 km).	20 36 22.5 20 35 39.4	Mar.	30	UPP iP KIR iP UME iP Southern Iran (h = N).	03 22 55.1 03 23 30.9 03 23 08.1
"	29	UPP iP KIR iP micr sec P Z' 0.1 0.8 UME iP Arab Republic of Egypt (h = 10 km).	21 42 26.0 21 43 28.2 21 42 54.7	"	30	UPP iP KIR iP UME iP Southern Xinjiang, China (h = 55 km).	06 23 31.6 06 23 26.1 06 23 22.4
"	29	UPP iP KIR iP micr sec P Z' 0.4 2.0 UME iP Minahassa Peninsula (h = 180 km).	21 55 02.9 21 54 47.5 21 54 50.9	"	30	UPP iP i micr sec P Z' 0.1 1.0 KIR iP i micr sec P Z' 0.2 1.1 UME iP i i Leeward Islands (h = 25 km). m = 6.0 (UPP,KIR).	08 10 55.7 08 11 05.6 08 11 05.7 08 11 16.6 08 11 04.5 08 11 16.7 08 11 25.9
"	29	UPP iP i KIR iP micr sec P Z' 0.1 0.8 UME iP Kuril Islands region (h = 45 km).	22 12 36.3 22 12 47.9 22 11 50.7 22 12 11.2	"	30	KIR iP UME iP Southern Sumatera (h = 110 km).	09 13 36.5 09 13 34.0
"	29	KIR iP UME iP Uzbek SSR (h = N).	22 14 54.5 22 14 39.8	"	30	UME iP Albania (h = 20 km).	10 20 24.8
"	29	UPP iP micr sec P Z' 0.1 0.9 KIR iP UME iP Rat Islands, Aleutian Islands (h = N).	23 14 25.7 23 13 33.3 23 13 58.8	"	30	UPP iP KIR iP i Tajik SSR (h = N).	11 16 37.4 11 16 41.2 11 16 45.8
"	30	UPP iP micr sec P Z' 0.2 1.6 KIR iP micr sec P Z' 0.1 1.0 UME iP Kuril Islands region (h = 50 km). m = 5.8 (UPP,KIR).	00 31 12.1 00 30 26.4 00 30 47.1	"	30	UPP iP i Kermadec Islands region (h = N).	14 32 17.7 14 32 34 14 32 18.1
"	30	UPP eP KIR iP Uzbek SSR (h = N).	01 51 07 01 51 22.1	"	30	UPP iP KIR iP UME iP South Shetland Islands (h = 60 km).	16 58 23.3 16 58 41.7 16 59 36.9 16 59 39.4
"	30	UPP iP KIR iP UME iP Rat Islands, Aleutian Islands (h = 55 km).	22 16 33.9 22 15 41.2 22 16 06.5				

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984

Mar.	31	UPP	iP	03 37 23.4
			i	03 37 26.6
		UME	iP	03 38 00.1
			i	03 38 01.8
		Algeria (h = 10 km).		
"	31	UPP	iP	04 51 00.3
		Algeria (h = 10 km).		
"	31	UPP	iP	05 09 59.8
		KIR	iP	05 08 05.5
		UME	iP	05 08 32.3
		Rat Islands, Aleutian Islands (h = 55 km).		
"	31	UPP	eP	07 52 41
		UME	iP	07 52 31.7
		Celebes Sea (h = 490 km).		
"	31	UPP	iP	18 28 29.2
		KIR	iP	18 27 15.7
		Jan Mayen Island region (h = 10 km).		

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SEISMOLOGICAL BULLETIN
 UPPSALA, KIRUNA, UMEA, UDDEHOLM,
 DELARY and MYRVIKEN

Uppsala	(UPP)	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(KIR)	67°50.4'N,	20°25.0'E;	h = 390 m
Umeå	(UME)	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(UDD)	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(DEL)	56°28.2'N,	12°52.2'E;	h = 150 m
Myrviken	(MYV)	62°56.5'N,	14°20.8'E;	h = 345 m

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1984					1984				
Apr.	1	UME	iP	09 54 37.9	Apr.	2	UPP	iP	05 07 36.0
		Uzbek SSR	(h = N).				i		05 07 40.2
							i		05 07 50.4
"	1	UPP	iP	10 11 59.0			i	Z'	0.1 1.1
				micr sec			Mx	Z	2.4 15
		P	Z'	0.2 1.5		KIR	i(P)		05 07 57.4
		KIR	iP	10 11 45.5 D					micr sec
				micr sec			Mx	Z	0.9 11
		P	Z'	0.2 1.0		UME	iP		05 07 38.2
		UME	iP	10 11 49.1 D			i		05 07 42.8
		Banda Sea	(h = 600 km).						Pakistan (h = N).
		m = 6.5	(UPP,KIR).						M = 5.2 (UPP,KIR).
"	1	UME	iP	15 56 28.3	"	2	UPP	iP	09 22 25.8 C
		Romania	(h = 160 km).				i		09 22 37.9
"	1	UPP	iPKP1	18 16 00.4			KIR	eP	09 21 46
		UME	iPKP	18 15 56.2			UME	iP	09 22 03.9 C
			iSKP1	18 18 41.8			i		09 22 16.0
		South of Fiji Islands							Near east coast of Honshu,
		(h = 520 km).							Japan (h = 55 km).
"	1	KIR	iPKP	21 47 08.2	"	2	UPP	iP	14 00 31.4
			i	21 47 17.4			KIR	iP	13 59 44.9
			iSKP	21 50 47.2			UME	iP	14 00 06.1
		UME	iPKP	21 47 14.0					Kuril Islands (h = 40 km).
			i	21 47 24.2					
			iSKP	21 50 54.0	"	2	UME	iP	19 16 57.4
		Vanuatu Islands	(h = N).						Andaman Islands region
									(h = N).
"	2	KIR	iP	00 34 25.3	"	2	UPP	iP	20 15 19.0
		Kuril Islands	(h = 45 km).				KIR	eP	20 14 33
"	2	UPP	iP	03 44 27.3			UME	iP	20 14 53.6
		KIR	iP	03 44 06.2					Sakhalin Island (h = N).
		UME	iP	03 44 13.0					
		Philippine Islands region							
		(h = N).							

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984					
Apr.	2	UPP UME Kuril Islands (h = N).	iP iP (h = N).	22 52 54.1 22 52 28.5	Apr.	4	KIR UME	eP i eP	21 19 51.0 21 20 17.9 21 20 51
"	3	UPP KIR UME	iPKP iSKP PKP Z' iPKP PKP Z' iPKP	03 28 34.6 03 31 45.2 micr sec 0.1 1.0 03 28 20.7 micr sec 0.1 1.0 03 28 27.1	"	5	UPP UME KIR	iP Mx Z iP Mx Mx Z	02 04 24.9 micr sec 0.9 22 02 04 30.0 Virgin Islands (h = N). 03 13 39.9 micr sec 2.2 23 03 55 micr sec 1.0 17 03 13 47
"	3	UME	iP	03 29 13.6 Near east coast of Honshu, Japan (h = 60 km).	"	5	UPP	iP	03 13 39.9 micr sec 2.2 23 03 55 micr sec 1.0 17 03 13 47
"	3	UDD	iSg1	09 43 40.4 Västergötland, Sweden, 58.6°N, 13.1°E. Origin time = 09 42 54. Solution from SKI network readings.	"	5	UME	iPKP	06 43 56.1 Vanuatu Islands (h = 40 km).
"	3	KIR UME	iPKP1 iPKP1	18 29 54.7 18 29 53.8 West of Macquarie Island (h = 10 km).	"	5	UME	iP i	06 54 24.9 06 54 39.3
"	3	KIR UME	iPKP1 i iPKP1 i	18 50 56.0 18 51 04.1 18 50 55.2 18 51 03.2 West of Macquarie Island (h = 10 km).	"	5	UDD DEL	iSg1 iPg1 iSg1	09 12 46.7 09 10 38.2 09 10 55.0 Off coast of southern Sweden, 55.2°N, 13.2°E. Origin time = 09 10 15. M _L (UPP) = 2.8 (0.14) 2. By combination with SKI network readings.
"	3	KIR UME	iP iP	20 36 20.4 20 36 26.7 Halimahera (h = 90 km).	"	5	UME	iP	09 36 24.9
"	3	UME	iPKP	22 21 33.4 West of Macquarie Island (h = 10 km).	"	5	UPP UME	eP i iP	11 55 41 11 53 42.0 11 52 52.1 Svalbard region (h = 10 km).
"	3	UME	iPKP i i	22 54 51.3 22 54 58.0 22 55 04.0 West of Macquarie Island (h = 10 km).	"	5	UPP UME	eP iP	12 23 29 12 22 41.9 Svalbard region (h = 10 km).
"	4	KIR	iP	10 18 01.1 Near east coast of Kamchatka (h = N).	"	6	UPP UME	iPKP iPKP i	00 44 24.1 00 44 20.7 00 44 23.4 Tonga Islands (h = 120 km).

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984							
Apr.	6	UPP	iP	01 20 17.1	Apr.	7	UPP	iP	06 39 23.3		
			i	01 22 59.9			KIR	iP	06 39 12.0		
				micr sec			UME	iP	06 39 13.6		
			P	Z' 0.1 1.1			Burma-China border region				
		UME	iP	01 19 55.5			(h = N).				
			i	01 19 56.4			"	7	UPP	iP	12 42 23.0 C
				Honshu, Japan (h = 190 km).					iPcP	12 43 05.0 C	
"	6	UPP	iP	03 06 59.2						micr sec	
			i	03 06 59.8				P	Z' 0.1 1.2		
		UME	iP	03 06 45.5			KIR	iP	12 41 27.8 C		
			i	03 06 46.4			UME	iP	12 41 53.8		
			i	03 07 14.2				iPcP	12 42 48.5 C		
				Luzon, Philippine Islands			Near east coast of Kamchatka				
				(h = 110 km).			(h = N).				
"	6	UME	iP	04 13 47.4	"	7	KIR	iPg1	13 43 52.3		
"	6	UPP	iPKP	04 33 27.5				iSg1	13 44 20.7		
				micr sec			UME	iSg1	13 44 41.4		
			Mx	Z 2.7 20			Finland-Sweden border region,				
		KIR	Mx	05 51			66.2°N, 24.3°E.				
				micr sec			Origin time = 13 43 16.				
			Mx	Z 1.0 17			M ₁ (UPP) = 2.5 (0.16) 3.				
		UME	iPKP	04 33 13.8			Felt.				
				West of Macquarie Island			By combination with Finnish				
				(h = 10 km).			station readings.				
				M = 5.9 (UPP,KIR).	"	7	UME	iP	18 04 09.0		
"	6	UPP	eP	14 53 15	"	7	UPP	iP	22 19 15.5 C		
		UME	iP	14 53 15.6			KIR	iP	22 18 30.5		
				Uzbek SSR (h = N).			UME	iP	22 18 50.8 C		
"	6	UPP	eP	22 18 33	"	8	UME	eP	00 10 49		
		UME	eP	22 18 56			Banda Sea (h = N).				
			i	22 18 58.0	"	8	UPP	iP	10 32 48.6 C		
				Turkey (h = 10 km).				i	10 33 00.8		
"	6	UPP	iPKP	23 27 16.2			KIR	iP	10 32 10.2		
			i	23 27 20.8			UME	iP	10 32 26.9 C		
			iSKP	23 30 38.3				i	10 32 40.8		
			iPKS	23 30 51			Near east coast of Honshu,				
			i	23 31 34			Japan (h = 55 km).				
				micr sec	"	8	UPP	iP	15 07 11.4		
			Mx	Z 4.0 21			KIR	eP	15 07 11		
		KIR	iPKP	23 27 04.5			UME	eP	15 07 07		
			i	23 27 08.1			Northern Sumatera (h = 15 km).				
				micr sec	"	8	UPP	iPKP	19 23 03.6		
			Mx	Z 3.1 21	"	8	UPP	eP	21 01 55		
		UME	iPKP	23 27 10.1					micr sec		
			i	23 27 14.8				Mx	Z 0.9 9		
			iSKP	23 30 22.1			UME	eP	21 02 45		
			iPKS	23 30 38.1			Yugoslavia (h = 10 km).				
			i	23 31 32.7							
				Vanuatu Islands (h = 180 km).							
				M = 6.1 (UPP,KIR).							
				M not corrected for focal depth.							

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Apr.	8	UPP ip UME ip Andaman Islands region (h = N).	22 02 59.0 22 03 55.3	Apr.	10	UPP ip KIR eP i UME ip Andaman Islands region (h = N).	20 36 22.6 20 36 23 20 36 32.0 20 36 19.7
"	8	UPP ip UME ip Bonin Islands region (h = 500 km).	23 20 59.6 23 20 41.4	"	11	UPP ip UME ip Kashmir-Tibet border region (h = 50 km).	08 23 56.2 08 23 50.0
"	9	UPP ip UME ip Costa Rica (h = 50 km).	09 50 33.0 09 50 33.0	"	11	UPP ip KIR ip UME ip Northern Sumatera (h = 80 km).	14 03 04.0 14 03 05.4 14 03 01.2
"	9	UPP eP KIR ip UME ip Panama-Costa Rica border region (h = 55 km).	13 02 19 13 02 16.1 13 02 20.1	"	11	UPP ip KIR ip UME ip Negros, Philippine Islands (h = N). m = 6.0 (UPP,KIR).	15 17 19.9 C micr sec Z' 0.1 0.9 15 17 04.1 micr sec Z' 0.1 1.0 15 17 09.2
"	9	UPP eP i KIR eP i UME eP i Near coast of Chiapas, Mexico (h = N).	15 19 02 15 19 03.0 15 18 50 15 18 52.9 15 18 59 15 19 00.4	"	12	UPP ip KIR eP Southeastern Alaska (h = 15 km).	14 33 57.2 14 33 02
"	9	UPP ip KIR ip UME ip Caribbean Sea (h = 10 km).	23 19 54.1 23 19 47.5 23 19 52.8	"	12	UPP ip UME ip Pakistan (h = N).	16 23 21.8 16 22 23.5
"	10	KIR iPKP UME iPKP	00 23 31.8 00 23 37.8	"	12	UPP ip KIR ip UME ip North Island, New Zealand (h = 80 km).	16 32 34.1 micr sec Z' 0.1 1.3 16 32 21.2 16 32 25.3 16 31 29.5 16 31 32.9
"	10	UPP ip KIR ip i UME ip Mindanao, Philippine Islands (h = 45 km).	08 19 41.2 08 19 43.3 08 20 31.7 08 20 03.9	"	13	UPP ip i P UME ip i Andaman Islands region (h = 25 km).	06 33 24.3 06 33 32.7 micr sec Z' 0.2 1.4 06 33 21.3 06 33 28.6
"	10	UPP ip Mx Z KIR ip UME ip North Atlantic Ridge (h = 10 km).	17 41 48.0 micr sec 0.1 1.0 17 42 13.5 17 42 05.9				

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Apr.	16	KIR iSg1	21 21 44.8	Apr.	18	(cont).	
		UME iSg1	21 21 23.8			KIR iPKP	07 08 00.5
		Northern Gulf of Bothnia, Sweden, 65.4°N, 22.7°E. Origin time = 21 20 25. M ₁ (UPP) = 2.5 l. By combination with Finnish station readings.					micr sec
						PKP Z'	0.1 1.0
						UME iPKP	07 08 07.3
						iPKS	07 11 31.9
						i	07 12 13.5
						Tonga Islands (h = 150 km).	
"	17	UPP iP	14 30 07.2	"	18	UPP iP	09 03 13.4
		KIR iP	14 29 53.7			KIR iP	09 02 31.9
			micr sec			UME iP	09 02 50.7
		P Z'	0.2 1.1			Near east coast of Honshu, Japan (h = 60 km).	
		UME iP	14 29 58.4				
		Banda Sea (h = 450 km).					
"	17	UPP iPKP	20 02 36.9	"	18	UPP eP	13 01 30
		UME iPKP	20 02 29.6			UME iP	13 01 47.2
		Vanuatu Islands (h = 50 km).				Republic of South Africa (h = 5 km).	
"	17	UPP iP	20 35 26.0	"	18	KIR iP	18 40 50.0
		KIR iP	20 35 00.8			UME iP	18 41 41.9
		UME iP	20 35 10.0			Svalbard region (h = 10 km).	
		Taiwan region (h = 240 km).					
"	18	UPP eP	01 46 01	"	18	UPP iP	18 56 58.8
		i	01 46 09.6			UME iP	18 56 34.7
		KIR iP	01 45 34.9			Kodiak Islands region (h = N).	
		i	01 45 53.7				
		Taiwan region (h = 25 km).		"	18	UPP eP	19 41 21
"	18	UPP iPKP	03 15 26.5 C			KIR iP	19 40 25.0
		i	03 15 53.5			UME iP	19 40 54.4
			micr sec			Southern Alaska (h = 100 km).	
		PKP Z'	0.1 0.7	"	18	UPP iPKP	19 42 09.7
		KIR iPKP	03 15 41.4			UME iPKP	19 42 12.7
		UME iPKP	03 15 34.6 C			i	19 45 42.1
		i	03 16 01.7			South of Australia (h = 10 km).	
		South Sandwich Islands region (h = 100 km).		"	18	UPP iP	23 30 18.9
"	18	UPP iP	04 44 22.2			UME iP	23 30 00.3
		Greece (h = 10 km).				Off coast of Oregon (h = 10 km).	
"	18	UPP iP	07 06 44.5	"	19	UPP iP	03 00 37.7 C
			micr sec				micr sec
		P Z'	0.1 1.0			P Z'	1.1 0.9
		KIR iP	07 06 51.5			KIR iP	03 00 46.5 C
			micr sec				micr sec
		P Z'	0.1 1.0			P Z'	1.6 1.0
		UME iP	07 06 17.8			UME iP	03 00 36.0 C
		Fox Islands, Aleutian Islands (h = N).				Hindu Kush region (h = 200 km). m = 6.4 (UPP,KIR).	
"	18	UPP iPKP	07 08 16.1				
			micr sec				
		PKP Z'	0.1 1.0				
		(cont.)					

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1984				1984						
Apr.	19	UPP	iP	03 47 49.0	Apr.	20	UPP	iP	09 30 27.8	
				micr sec			UME	iP	09 30 31.6	
			P	Z' 0.1 1.0			Near north coast of Colombia (h = 40 km).			
		KIR	iP	03 47 06.0						
		UME	iP	03 47 25.7						
		Near east coast of Honshu, Japan (h = 50 km).				"	20	UPP	iP	10 08 44.9
"	19	UPP	eP	06 47 58			KIR	iP	10 08 28.3	
		KIR	iP	06 47 15.3				i	10 08 54.4	
		UME	iP	06 47 34.2					micr sec	
		Near east coast of Honshu, Japan (h = 60 km).						P	Z' 0.1 0.9	
							UME	iP	10 08 33.4	
								i	10 09 00.0	
							Mindanao, Philippine Islands (h = 110 km).			
"	19	UPP	eP	17 40 51		"	20	KIR	iP	14 27 28.9
		KIR	iP	17 40 25.5			Dodecanese Islands (h = 90 km).			
		UME	eP	17 40 33						
		Taiwan region (h = 25 km).								
"	19	UPP	iP	20 45 32.0		"	20	UPP	iP	14 53 19.3
		KIR	iP	20 45 15.7			UME	iP	14 52 52.0	
		UME	iP	20 45 21.4			Kuril Islands region (h = 50 km).			
		Mindanao, Philippine Islands (h = 650 km).								
"	19	UPP	eP	21 24 14		"	20	UDD	i	16 57 26.9
		KIR	iP	21 24 28.6				iRg	16 57 28.5	
		UME	iP	21 24 15.7			Värmland, Sweden. Near-surface event.			
		Uzbek SSR (h = N).								
"	20	UPP	iP	06 40 44.3 D		"	21	UPP	iP	01 30 28.9
			iPcP	06 41 14.3			KIR	iP	01 30 34.8	
			ipP	06 42 43.1			Dodecanese Islands (h = 45 km).			
			iS	06 48 31.7						
			iScS	06 49 35.9		"	21	UPP	iP	04 16 01.2
				micr sec			KIR	iP	04 15 16.1	
			P	Z' 3.0 1.1			UME	iP	04 15 36.4	
			Mx	Z 4.3 16			Kuril Islands (h = N).			
		KIR	iP	06 39 56.9 D		"	21	UPP	iP	04 41 58.3
			ipP	06 41 51.7			KIR	iP	04 41 38.8	
				micr sec				i	04 41 48.6	
			P	Z' 5.3 1.4			UME	iP	04 41 45.6	
			Mx	Z 2.1 10			Luzon, Philippine Islands (h = 35 km).			
		UME	iP	06 40 18.8 D		"	21	UPP	iP	07 38 46.4
			iPcP	06 40 57.8			KIR	eP	07 39 57	
			ipP	06 42 13.3			UME	eP	07 39 23	
			iS	06 47 44.4			Mediterranean Sea (h = 40 km).			
			iScS	06 49 07.9		"	21	UPP	iP	11 36 16.5
		Sea of Okhotsk. h = 630 km (UPP,KIR,UME). m = 6.6, M = 5.7 (UPP,KIR). M not corrected for focal depth. Rather unusual surface waves for such a deep event.					KIR	iP	11 36 14.6	
							Andaman Islands region (h = N).			

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1984				1984			
Apr.	21	UPP ePKP	12 55 29	Apr.	22	UPP iP	17 24 50.5
		UME iPKP	12 55 21.6			KIR iP	17 24 33.0
		Samoa Islands region (h = 70 km).				P Z'	0.1 1.0
"	21	UPP iP	21 24 36.7			Mindanao, Philippine Islands (h = 35 km).	
		i	21 24 40.4	"	23	UPP ePKP	00 15 50
			micr sec			KIR ePKP	00 15 31
		KIR iP	21 24 47.4			South of Kermadec Islands (h = N).	
		i	21 24 53.9				
		UME iP	21 24 36.1	"	23	UPP iP	08 59 33.9 C
		i	21 24 39.5			micr sec	
		Hindu Kush region (h = 35 km).				P Z'	0.1 1.0
"	22	UPP iP	02 53 29.6 C			KIR iP	08 58 48.0 C
		i	02 53 32.7			micr sec	
			micr sec			P Z'	0.1 0.8
		KIR eP	02 57 40			Kuril Islands region (h = 80 km).	
		i	02 53 42.6			m = 5.7 (UPP,KIR).	
		UME iP	02 53 28.5 C	"	23	UPP iP	12 16 33.9
		i	02 53 31.6			KIR iP	12 17 45.4
		Hindu Kush region (h = 60 km).				Dodecanese Islands (h = 25 km).	
"	22	UPP iPKP1	03 51 16.9	"	23	UPP iP	21 34 02.7 C
		iPKP	03 51 19.8			micr sec	
		iSKP	03 54 03.4			P Z'	0.3 0.9
			micr sec			KIR iP	21 34 12.0 C
		KIR SKP	03 51 08.9			micr sec	
		iSKP	03 53 41.6			P Z'	0.8 1.2
			micr sec			UME iP	21 34 01.2 C
		PKP	02 52 14.8			Hindu Kush region (h = 210 km).	
		SKP	02 54 52.7			m = 5.9 (UPP,KIR).	
		UME iPKP	02 52 14.8	"	23	UPP iP	21 50 34.5 C
		iSKP	02 54 52.7			iPcP	21 51 02.8
		Fiji Islands region (h = 590 km).				ipP	21 52 04.7
"	22	UPP iP	06 25 15.2			iS	21 58 43.0
		i	06 25 18.5			iScS	21 59 46.4
		iS	06 34 07			micr sec	
			micr sec			P Z'	0.7 0.7
		KIR iP	06 25 57			KIR iP	21 49 48.4 C
		i	06 26 01.9			iPcP	21 50 34.0
			micr sec			iS	21 57 17.0
		UME iP	06 25 39.2			micr sec	
		Central Mid-Atlantic Ridge (h = 10 km).				P Z'	1.2 0.9
		m = 6.1 (UPP,KIR).				UME iP	21 50 09.3 C
"	22	UPP iP	13 47 19.0			iPcP	21 50 47.1
		KIR eP	13 47 51			ipP	21 51 38.4
		i	13 47 54.9			iS	21 57 55.0
		UME iP	13 47 30.7			iScS	21 59 16.2
		Southern Iran (h = 25 km).				Northwest of Kuril Islands (h = 410 km).	
						m = 6.4 (UPP,KIR).	

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1984				1984					
Apr.	23	UPP	eP	22 18 38	Apr.	24	UPP	eP	08 27 25
		UME	iP	22 19 06.4				i	08 31 16.3
"	23	UPP	iP	22 40 51.5			KIR	eP	08 27 10
			ipP	22 40 56.7			UME	iP	08 27 21.9
				micr sec			Iceland region (h = 10 km).		
			pP	Z' 0.4 1.0	"	24	UPP	eP	09 37 45
			Mx	Z 5.7 17				i	09 37 50.3
		KIR	iP	22 40 41.7			Greenland Sea (h = 10 km).		
			ipP	22 40 46.2					
				micr sec			UPP	iP	21 27 14.8
			pP	Z' 0.7 1.4				iS	21 37 14
			Mx	Z 6.5 18					micr sec
		UME	iP	22 40 42.5				P	Z' 0.1 1.0
			ipP	22 40 47.7				Mx	Z 11 21
		Burma-China border region. h = 15 km (UPP,KIR,UME). m = 6.5, M = 5.9 (UPP,KIR).					KIR	eP	21 26 40
"	23	UPP	iP	22 45 00.8				i	21 26 41.8
"	23	UPP	iP	22 49 15.8					micr sec
"	24	UPP	iP	01 03 37.9				i	Z' 0.2 1.4
		KIR	iP	01 03 27.0				Mx	Z 10 22
		UME	iP	01 03 27.0			UME	iP	21 27 00.6
		Burma-China border region (h = N).						i	21 27 05.8
"	24	UPP	iP	03 45 03.1				iS	21 36 44
				micr sec			Central California (h = 10 km). m = 5.9, M = 6.1 (UPP,KIR).		
			P	Z' 0.1 1.0	"	25	UPP	iP	01 16 01.4 C
		KIR	iP	03 44 54.4				ipn	01 17 01.2
		UME	iP	03 44 55.9					micr sec
		Burma-China border region (h = N).						P	Z' 1.5 1.0
"	24	UPP	iP	04 22 41.0				Mx	Z 1.3 10
			iPcP	04 23 11.0			KIR	iP	01 15 44.7 C
			ipP	04 24 15.5					micr sec
			iScS	04 31 55.0				P	Z' 1.6 0.7
			ip'P'	04 52 04.9			UME	iP	01 15 46.1 C
				micr sec			Eastern Kazakh SSR (h = 0 km). m = 6.9 (UPP,KIR).		
			P	Z' 5.1 1.1			Underground explosion.		
			Mx	Z 17 22	"	25	UPP	iPKP	04 37 57.7
		KIR	iP	04 22 03.3				i	04 38 06.3
				micr sec				iSKP	04 41 00.5
			P	Z' 2.8 0.7			KIR	iPKP	04 37 49.5
			Mx	Z 12 19			UME	iPKP	04 37 49.7
		UME	iP	04 22 21.4				i	04 37 58.4
			i	04 22 22.2				iSKP	04 40 47.0
			iS	04 31 18.2				ipKS	04 41 24.2
		South of Honshu, Japan (h = 400 km). m = 7.0, M = 6.3 (UPP,KIR). M not corrected for focal depth.					Fiji Islands region (h = 420 km).		
"	25	UPP	iP	14 34 45.2					micr sec
				micr sec				Mx	Z 2.2 14
				micr sec			KIR	iP	14 33 14.7
				micr sec				i	14 33 23.9
				micr sec					micr sec
				micr sec				P	Z' 0.1 0.9
				micr sec				Mx	Z 1.5 16

(cont.)

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1984				1984			
Apr.	25	(cont.) UME iP	14 34 01.5	Apr.	26	KIR iP	11 58 31.8
		i	14 34 06.8			Minahassa Peninsula (h = 140 km).	
		Norwegian Sea (h = 10 km). M = 4.1 (UPP,KIR).		"	26	UPP iP	22 41 15.1
"	25	UPP iP	15 08 50.7			KIR iP	22 41 53.9
		i	15 09 17.5			UME iP	22 41 26.0
			micr sec			i	22 41 33.1
		P	Z' 0.1 1.0			Eastern Caucasus (h = N).	
		KIR eP	15 08 42	"	27	UPP eP	02 37 05
		UME iP	15 08 42.1			KIR iP	02 38 12.9
		i	15 09 08.8			UME iP	02 37 37.7
		Burma-India border region (h = 110 km).				Crete (h = 45 km).	
"	25	UPP iP	15 24 39.7	"	27	UPP iP	03 03 00.2
		UME iP	15 24 24.6	"	27	UPP eP	06 54 13
		Southwestern Ryukyu Islands (h = N).				UME iP	06 53 51.4
"	25	UPP iP	15 41 37.8			Near east coast of Honshu, Japan (h = 55 km).	
		i	15 41 42.5	"	27	KIR iP	12 39 14.5
		KIR eP	15 41 15			UME iP	12 39 42.1
		UME eP	15 41 23			Fox Islands, Aleutian Islands (h = N).	
		Luzon, Philippine Islands (h = N).		"	27	UME iPgl	19 53 00.7
"	26	UPP iP	00 33 59.5			iSgl	19 52 26.2
		KIR eP	00 35 06			UDD iSgl	19 54 16.5
		Turkey (h = 10 km).				MYV iPgl	19 52 40.6
"	26	UME iP	02 27 25.3			iSgl	19 52 51.0
"	26	UPP iP	10 23 14.2			Jämtland, Sweden, 63.5°N, 15.7°E.	
		i	10 23 22.6			Origin time = 19 52 26.	
		iS	10 33 05			M _L (UPP) = 2.5 l.	
			micr sec			Felt.	
		P	Z' 0.2 1.0	"	27	UPP iP	23 25 39.8
		KIR iP	10 23 35.2			Tibet (h = N).	
		i	10 23 43.8	"	28	UPP iP	10 16 50.2 C
			micr sec				micr sec
		P	Z' 0.4 1.0			P	Z' 0.1 1.0
		UME iP	10 23 22.0			KIR iP	10 15 56.7 C
		i	10 27 30.6			i	10 16 10.0
		Chagos Archipelago region (h = 10 km). m = 6.3 (UPP,KIR).					micr sec
"	26	UPP eP	10 52 17			P	Z' 0.2 1.0
			micr sec			UME iP	10 16 23.6 C
		P	Z' 0.1 1.0			i	10 16 35.5
		KIR iP	10 52 14.2			Fox Islands, Aleutian Islands (h = N).	
			micr sec			m = 6.0 (UPP,KIR).	
		P	Z' 0.1 0.7	"	28	UPP iP	14 58 33.2
		Java (h = 80 km). m = 6.3 (UPP,KIR).				KIR iP	14 59 04.9
						UME iP	14 58 44.4

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1984				1984			
May				May			
4	(cont.)			4	(cont.)		
	KIR		micr sec		KIR	iP	09 18 05.6
	Mx	Z	1.7 14				micr sec
	UME	iPn	02 23 45.1			P	Z' 0.2 1.3
		i	02 23 48.3			Mx	Z 3.3 11
		iSn	02 25 37.8		UME	iP	09 17 29.0
	Greenland Sea (h = 10 km).					iS	09 21 59
	M = 4.1 (UPP,KIR).				Aegean Sea (h = 10 km).		
"	4	UME	iP 03 11 28.4	"	6	UPP	iP 15 29 32.0 C
		Probably the same area as				i	15 29 40.0
		for the event on May 3,				i	15 29 46.3
		13:51 (KIR).					micr sec
"	4	KIR	ePn 03 43 29			P	Z' 0.1 0.9
		UME	iPn 03 44 24.5			i	Z' 0.4 1.0
		Probably the same area as				Mx	Z 6.8 20
		for the event on May 3,			KIR	iP	15 29 26.1
		13:51 (KIR).				i	15 29 32.2
"	4	UPP	iP 10 45 42.9			i	15 29 41.1
"	4	KIR	iP 17 23 40.7				micr sec
		UME	iP 17 23 56.0 C			P	Z' 0.2 1.0
		Near s. coast of southern				i	Z' 0.6 1.5
		Honshu (h = 30 km).			UME	iP	15 29 24.8 C
"	4	UPP	eP 18 08 30			i	15 29 33.5
"	4	UPP	iP 18 45 10.5			i	15 29 38.9
"	4	UPP	iP 21 40 08.8			Burma-India border region	
		i	21 40 12.0			(h = N).	
		UME	iP 21 40 41.9			m = 6.5 (UPP,KIR).	
		Turkey (h = 10 km).		"	6	UPP	iP 20 05 43.4
"	4	KIR	eP 23 12 30			iP'P'	20 33 59.1
		UME	eP 23 12 59				micr sec
		Southern Alaska (h = 90 km).				P	Z' 0.1 0.8
"	5	UME	iP 05 53 28.0		KIR	iP	20 04 50.3 C
"	6	UME	iP 04 53 13.2			i	20 05 05.5
"	6	UPP	iP 08 31 46.5		UME	eP	20 05 17
		KIR	eP 08 30 53			i	20 05 32.2
		Near east coast of Kamchatka				iP'P'	20 34 08.1
		(h = N).				Andreanof Islands (h = 60 km).	
"	6	UPP	iP 09 16 53.0	"	7	KIR	iP 06 21 54.4
		i	09 16 57.5			UME	iP 06 21 20.5
			micr sec			Turkey (h = 100 km).	
		i	Z' 1.1 2.0	"	7	UME	iP 09 10 27.4
		Mx	Z 13 16			Near east coast of Honshu,	
		(cont.)				Japan (h = 60 km).	
"	6	UPP	iP 09 16 53.0	"	7	UPP	iP 16 03 48.4
		i	09 16 57.5			i	16 03 55.0
			micr sec			KIR	i 16 04 17.0
		i	Z' 1.1 2.0			UME	i 16 04 09.7
		Mx	Z 13 16			North Atlantic Ridge	
		(cont.)				(h = 10 km).	

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1984				1984			
May	13	UPP eP UME iP i	22 52 10 22 52 54.4 22 52 59.0	May	15	UME iP	01 28 06.5
		Adriatic Sea (h = N).		"	15	UME eP	14 18 25
"	14	UME iP i	01 30 25.7 C 01 30 30.4	"	15	Near coast of Nicaragua (h = 70 km).	
		Adriatic Sea (h = N).		"	15	UME eP	15 17 44
"	14	UPP iP UME iP i	02 34 01.8 02 34 45.2 C 02 34 50.7	"	15	UPP iP KIR iP UME iP	15 25 57.0 15 25 06.4 15 25 29.9
		Adriatic Sea (h = N).		"	15	Kuril Islands (h = 280 km).	
"	14	UPP iP UME iP i	04 00 41.1 04 01 25.1 C 04 01 30.4	"	15	UPP eP KIR iP	15 36 25 15 36 13.3
		Adriatic Sea (h = N).					micr sec
"	14	UME iP i	04 48 49.6 04 48 54.9			UME iP	15 36 16.4
		Adriatic Sea (h = N).				Minahassa Peninsula (h = 45 km).	
"	14	KIR iSg1 UME iSn iSg1	08 32 53.4 08 32 53.3 08 33 08.7	"	15	UPP iP i	22 37 50.3 22 38 05.3
		North-central Finland, 65.9°N, 28.5°E. Origin time = 08 31 02. M _L (UPP) = 2.5 (0.11) 3. By combination with Finnish station readings.					micr sec
"	14	UPP iP UME iP	09 51 20.5 09 51 46.1			Mx Z'	0.1 0.9
		North of Ascension Island (h = 10 km).				Mx Z	1.7 21
"	14	UPP eP	14 19 10			KIR iP	22 37 31.8 C
"	14	UME eP	18 23 15				micr sec
		(Greece (h = 10 km)).				UME iP	22 37 38.5 C
"	14	UPP iP i	19 18 20.7 19 21 10.5	"	15	UPP iP iS	08 00 33.4 08 04 21
		KIR iP UME iP	19 19 47.2 19 19 02.4				micr sec
		Romania (h = 55 km).				P Z'	0.3 1.4
"	15	UDD iSg1 i	13 25 57.0 13 26 05.2			Mx Z	2.0 15
		Southern Norway, near 59°N, 7°E. Origin time = 13 23 59. M _L (UPP) = 2.5 1. Solution from NORSAR bulletin. Probably explosion.				KIR iP	07 58 59.8
							micr sec
						P Z'	0.9 2.0
						Mx Z	2.7 12
						UME iP	07 59 49.1
						iS	08 02 56
						Greenland Sea (h = 10 km). m = 6.0, M = 4.6 (UPP,KIR).	

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1984				1984						
May	17	UPP	iPKP	09 40 59.8	May	18	UPP	iP	04 38 05.2 C	
			iSKP1	09 44 22.7				P	Z' 0.2 1.0	
			Mx	Z 5.7 22			KIR	iP	04 38 06.0 C	
		KIR	iPKP	09 40 45.4				P	Z' 0.1 1.0	
			i	09 40 49.4			UME	iP	04 38 00.7 C	
			i	Z' 0.1 1.0			Nepal (h = N).			
			Mx	Z 1.9 23			m = 5.9 (UPP,KIR).			
		UME	iPKP	09 40 52.0		"	18	UPP	iP	10 07 59.1
			i	09 40 55.4				KIR	iP	10 07 57.4
		Vanuatu Islands (h = 25 km).						UME	iP	10 07 52.8
		M = 6.0 (UPP,KIR).						Southern Xinjiang, China		
"	17	UPP	iP	14 17 16.5				(h = N).		
		KIR	iP	14 16 48.3		"	18	UPP	iPKP1	12 14 00.0
		UME	eP	14 17 00				UME	iSKP1	12 16 44.3
		Mariana Islands (h = 50 km).						South of Fiji Islands		
"	17	UPP	iP	14 18 33.8				(h = 520 km).		
			i	14 18 39.4		"	18	UME	iP	17 13 45.6
		UME	iP	14 18 22.1				Near coast of Nicaragua		
			i	14 18 22.8				(h = 70 km).		
"	17	UME	iPKP	16 53 54.2		"	18	UPP	iP	23 02 09.9
		Vanuatu Islands (h = 50 km).						KIR	iP	23 01 55.9
"	17	UPP	i	17 07 47.1				UME	iP	23 02 00.5 C
		UME	ePdiff	17 07 49				Minahassa Peninsula		
			i	17 08 02.4				(h = 120 km).		
		Atlantic - Indian Rise				"	19	UPP	iPKP1	04 20 47.5
		(h = 10 km).						UME	iPKP1	04 20 54.1
"	17	UPP	eP	19 59 09				Antarctica (h = N).		
		KIR	eP	19 59 08		"	19	UPP	iP	05 19 18.6
		UME	iP	19 59 10.1				UME	iP	05 19 27.3
		Northern Colombia (h = N).						Mid-Indian Rise (h = 10 km).		
"	17	UPP	iP	20 13 54.5		"	19	UPP	iP	08 49 43.9
		UME	iP	20 13 26.5					i	08 49 44.9
			i	20 13 44.5				KIR	iP	08 51 08.0
		Rat Islands, Aleutian Islands						UME	iP	08 50 27.9 C
		(h = N).							i	08 50 33.8
"	17	UPP	iP	20 18 46.2				Adriatic Sea (h = 10 km).		
		KIR	iP	20 17 53.7		"	19	UME	iP	09 07 26.8
			i	20 18 02.4					i	09 07 32.5
		UME	iP	20 18 19.5				Adriatic Sea (h = 10 km).		
			i	20 18 28.6		"	19	UME	iP	09 09 53.2
		Rat Islands, Aleutian Islands							i	09 09 58.8
		(h = N).								
"	18	UME	iP	03 02 15.9 C						
			i	03 02 21.5						
		Adriatic Sea (h = 10 km).								

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1984				1984						
May	19	UPP	iSg1	10 23 47.1	May	21	UPP	iP	02 04 25.3	
		KIR	iPn	10 20 38.6			KIR	iP	02 04 08.8	
			iPg1	10 20 46.7			UME	iP	02 04 14.3	
			iSn	10 21 22.5			Molucca Passage (h = N).			
			iSg1	10 21 34.0		"	21	UPP	iPKP1	08 26 10.7
		UME	iSn	10 21 31.0				UME	iPKP1	08 25 54.8
			iSg1	10 21 46.3				i	08 26 08.6	
		UDD	iSn	10 23 26.5			Kermadec Islands (h = N).			
			iSg1	10 24 12.3		"	21	UPP	iP	10 09 24.6
		DEL	eSg1	10 25 53						micr sec
		MYV	eSn	10 22 31				P	Z'	0.1 1.0
		North-central Finland, 65.9°N, 28.5°E. Origin time = 10 19 39. M _L (UPP) = 2.8 (0.32) 4. By combination with Finnish station readings.						KIR	iP	10 09 21.3 C
										micr sec
"	19	UME	ePKP1	10 41 16				P	Z'	0.1 1.2
		Antarctica (h = N).						UME	iP	10 09 18.2 C
							India-Bangladesh border region (h = N). m = 5.9 (UPP,KIR).			
"	19	UPP	iP	10 56 16.6	"	21	UPP	iP	15 48 54.1 C	
		UME	iP	10 56 59.9 C					micr sec	
			i	10 57 05.8				P	Z'	0.1 0.9
		Adriatic Sea (h = 10 km).						KIR	iP	15 48 24.9 C
										micr sec
"	20	UPP	iPKP1	07 41 13.8				P	Z'	0.1 1.0
		KIR	iPKP	07 41 04.6				UME	iP	15 48 36.0 C
		UME	iPKP1	07 43 57.2			Eastern China (h = 20 km). m = 5.9 (UPP,KIR).			
		South of Fiji Islands (h = 530 km).				"	21	UPP	iP	15 50 01.4 C
"	20	UPP	iP	12 59 25.5				i	15 50 03.8	
		KIR	iP	12 59 00.8				iS	15 59 05	
			i	12 59 06.4					micr sec	
		UME	iP	12 59 09.4				i	Z'	0.1 0.9
		Taiwan region (h = 10 km).						KIR	iP	15 49 32.2 C
								i	15 49 34.6	
"	20	UPP	eP	18 36 19					micr sec	
		KIR	eP	18 36 00				i	Z'	0.2 1.3
		Taiwan (h = 15 km).						UME	iP	15 49 43.4 C
								i	15 49 45.7	
"	20	UPP	iPKP1	20 17 52.0			Eastern China (h = 20 km). m = 6.0 (UPP,KIR).			
			iSKP1	20 20 42.3		"	21	UPP	iP	22 20 36.7
		KIR	iSKP1	20 20 19.7				ipP	22 22 29.2	
		UME	iPKP	20 17 52.7				KIR	iP	22 20 05.1 C
			iSKP1	20 20 31.5				UME	iP	22 20 18.6 C
		South of Fiji Islands (h = 570 km).						epP	22 22 08	
"	20	UPP	eP	21 01 44			Bonin Islands region. h = 510 km (UPP,UME).			
		Romania (h = 55 km).				"	21	UPP	iP	22 26 33.4
"	20	UPP	iPKP	22 24 33.1				UME	iP	22 26 13.1
		KIR	iPKP	22 24 18.7			South of Honshu, Japan (h = N).			
		UME	iPKP	22 24 24.6						
		Vanuatu Islands (h = 130 km).								

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1984				1984			
May	21	KIR UME Molucca Passage (h = 40 km).	iP iP	22 58 22 58	32.2 37.9		
"	21	UME Taiwan region (h = N).	ipP	23 57	37.9		
"	22	UPP KIR UME West Irian region (h = 70 km).	iPdiff iPdiff iPdiff	02 35 02 35 02 35	28.3 09.2 C 16.1		
"	22	UPP KIR UME Mediterranean Sea (h = 50 km). m = 6.3 (UPP,KIR).	iP iS P iP iP	14 02 14 06 micr sec Z' 0.1 14 03 14 02	17.6 C 32.5 0.5 28.6 C 52.0 C		
"	23	UPP UME	iP eP	02 09 02 09	36.0 29		
"	23	UPP KIR UME Kashmir-India border region (h = 60 km).	iP i iP iP i	03 22 03 22 03 22 03 22 03 22	42.2 48.1 48.9 40.0 54.6		
"	23	UPP KIR UME North of Macquarie Island (h = 10 km).	iPKP iPKP2 iPKP iPKP2 iPKP iPKP2	05 36 05 37 05 36 05 36 05 36 05 36	28 05.3 24.4 38.1 51.2 28.8 56.4		
"	23	UPP KIR Norther China (h = N).	iP i iP	07 59 07 59 07 59	44.1 58.5 20.6		
"	23	KIR UME i	iP iP i	18 43 18 43 18 43	14.5 29.6 44.2		
"	24	UPP KIR UME Eastern Gulf of Aden (h = 10 km).	eP iP iP i	00 11 00 11 00 11 00 11	05 43.6 19.4 27.8		
May	24	UPP Greece-Albania border region (h = 10 km).	eP	11 38	35		
"	24	UPP	iP	12 22	29.8		
"	24	KIR UME Austria (h = 10 km).	iP iP	20 00 19 59	38.9 53.5		
"	25	UME	iP i	00 21 00 21	43.1 45.8		
"	25	UPP KIR UME Kermadec Islands (h = 60 km).	iPKP1 iPKP2 iPKP1 iPKP2	02 52 02 52 02 52 02 52	25.9 C 30.3 06.9 14.0 17.8		
"	25	UPP KIR UME Kermadec Islands (h = N).	iPKP1 iPKP2 ePKP1 iPKP1	08 17 08 17 08 17 08 17	29.7 36.0 11 17.3		
"	25	UPP UME	iP iP	11 41 11 42	50.1 17.6		
"	25	UPP KIR UME UDD DEL MYR North-central Finland, 65.9°N, 28.5°E. Origin time = 13 18 01. M _L (UPP) = 3.2 (0.27) 5. By combination with Finnish station readings.	iSg1 iPn iPg1 iSg1 iSn iSg1 eSg1 iPn iSn	13 22 13 18 13 19 13 19 13 20 13 21 13 22 13 24 13 19 13 20	04.7 59.5 08.3 52.6 52.4 07.3 45.8 34.2 09 43.0 57.6		
"	25	KIR UME Off coast of southern Chile (h = 30 km).	ePKP i iPKP	13 39 13 39 13 39	32 40.5 32.4		
"	25	UPP South of Fiji Islands (h = 510 km).	iPKP1	19 22	52.7		

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1984				1984			
May	25	UPP	iPKP	22 08 47.1	May	26	(cont.)
			i	22 08 56.3			UME iP 09 12 45.6
		KIR	iPKP	22 09 02.3			Luzon, Philippine Islands
			i	22 09 11.0			(h = 15 km).
			iSKP1	22 12 29.6		"	26
		UME	iPKP	22 08 53.9			UPP eP 12 31 36
			i	22 09 03.9			KIR eP 12 32 56
			iSKP1	22 12 15.7			UME iP 12 32 17.1
		South Sandwich Islands region					Sicily (h = N).
		(h = N).				"	26
"	26	UPP	Mx	01 31			UPP Mx 14 32
				micr sec			Mx Z 0.8 20
			Mx	Z 7.2 21			Prince Edward Islands region
		KIR	ePKP	00 13 54			(h = 10 km).
				micr sec		"	26
			Mx	Z 3.4 17			KIR iP 16 02 50.2
		South Pacific Cordillera					i 16 02 54.9
		(h = 10 km).					UME iP 16 02 27.4
		M = 6.4 (UPP,KIR).				"	26
"	26	UPP	eP	00 31 34			UPP iSn 20 37 37.3
		UME	iP	00 31 14.0			i 20 38 18.1
			i	00 31 36.6			iSg1 20 38 24.8
		South of Honshu, Japan					KIR iPn 20 35 17.4
		(h = 40 km).					iPg1 20 35 26.0
							iSg1 20 36 10.1
"	26	UPP	iP	03 20 10.3 C			UME iPn 20 35 21.8
			iPn	03 21 16.3			iSn 20 36 10.3
				micr sec			iSg1 20 36 25.5
			P	Z' 1.6 0.9			UDD iSn 20 38 03.4
			Mx	Z 1.7 9			DEL iSg1 20 40 26.2
		KIR	iP	03 19 53.8 C			MYR iPn 20 35 59.2
				micr sec			iSn 20 37 15.0
			P	Z' 1.4 0.9			North-central Finland,
			Mx	Z 0.6 10			65.9°N, 28.5°E.
		UME	iP	03 19 55.0 C			Origin time = 20 34 19.
			i	03 20 01.5			M _L (UPP) = 3.3 (0.26) 3.
		Eastern Kazakh SSR.					By combination with Finnish
		m = 6.9, M = 4.9 (UPP,KIR).					station readings.
		Underground explosion.				"	26
"	26	UPP	iPKP	04 17 33.0			UPP eSg1 22 41 38
				micr sec			UDD iPn 22 39 18.1
			Mx	Z 9.5 28			iSg1 22 40 34.1
		KIR	iPKP	04 17 43.1			Off coast of southwestern
				micr sec			Norway, near 61°N, 4°E.
			Mx	Z 2.4 20			Origin time = 22 38 01.
		UME	iPKP	04 17 33.4			M _L (UPP) = 2.4 1.
		Prince Edward Islands region					Solution from NORSAR bulletin.
		(h = 10 km).				"	26
		M = 6.0 (UPP,KIR).					UPP ePKP 23 01 46
"	26	UPP	iP	09 12 59.8			micr sec
		KIR	iP	09 12 39.9			Mx Z 8.7 28
		(cont.)					KIR iPKP 23 01 31.7
							i 23 01 38.0
							UME iPKP 23 01 40.1
		Santa Cruz Islands region					(h = 25 km).

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1984				1984			
May	26	KIR UME Santa Cruz Islands region (h = 40 km).	iPKP iPKP	23 19 23 19	34.8 41.0		
"	26	UME	iP	23 30	37.1		
"	26	UPP UME East Papua New Guinea region (h = 55 km).	iPKP iPKP	23 38 23 38	45.8 37.0		
"	27	UPP	iP	03 10	53.7		
"	27	UPP KIR UME Ryukyu Islands (h = 15 km). m = 5.9 (UPP,KIR).	iP i i i iP i i iP i	03 51 03 51 03 50 03 50 03 50 03 50 03 50 03 50 03 50	12.2 16.8 0.2 1.4 9.3 14 42.3 47.1 0.1 1.4 53.8 58.9		
"	28	UPP KIR Vanuatu Islands (h = N).	iSKP1 iPKP	18 10 18 06	03.6 24.5		
"	29	UPP KIR UME Northern Sumatera (h = 70 km). m = 6.1 (UPP,KIR).	iP iS P Mx iP i P iP i iS	04 48 04 58 0.1 0.7 04 48 04 48 0.5 04 48 04 48 04 58	20.2 D 22 0.7 18 20.7 D 36.5 1.0 16.5 31.7 17		
"	29	KIR UME North-central Finland, 65.9°N, 28.5°E. Origin time = 09 17 31. (cont.)	iPg1 iSn iSg1 iSn iSg1	09 18 09 19 09 19 09 19 09 19	38.0 12.8 22.2 22.2 37.7		
May	29	(cont.) M _L (UPP) = 2.6 1. By combination with Finnish station readings.					
"	29	KIR North-central Finland, 65.9°N, 28.5°E. Origin time = 09 28 50. By combination with Finnish station readings.	iSg1	09 30	41.7		
"	29	KIR UME North-central Finland, 65.9°N, 28.5°E. Origin time = 13 12 01. M _L (UPP) = 2.7 1. By combination with Finnish station readings.	iPg1 iSg1 iSn iSg1	13 13 13 13 13 13 13 14	08.7 52.6 52.6 08.0		
"	29	KIR UME Aleutian Islands region (h = N).	iP iP	15 29 15 30	34.3 01.6		
"	29	UPP KIR West Irian region (h = N). M = 5.5 (UPP,KIR).	Mx Mx Mx	19 59 1.2 20 00	micr sec 18 micr sec 16		
"	29	UPP KIR UME Wyoming (h = 20 km).	iP iP iP i	20 29 20 28 20 29 20 29	19.2 44.3 48.4 04.1 08.7		
"	29	UME South of Fiji Islands (h = 180 km).	i	23 03	53.8		
"	29	UME Near east coast of Honshu, Japan (h = 80 km).	eP	23 09	41		
"	29	UPP Mx Mx (cont.)	Mx Mx	23 12 1.5	micr sec 19		

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

Uppsala	(UPP)	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(KIR)	67°50.4'N,	20°25.0'E;	h = 390 m
Umeå	(UME)	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(UDD)	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(DEL)	56°28.2'N,	12°52.2'E;	h = 150 m
Myrviken	(MYV)	62°56.5'N,	14°20.8'E;	h = 345 m

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1984					1984				
June	1	UPP	iP	04 56 05.7 C	June	1	UPP	iP	15 55 26.3
			eS	05 00 11			KIR	iP	15 55 21.9
		KIR	iP	04 57 19.5			UME	eP	15 55 17
		UME	iP	04 56 46.0			Southern Xinjiang, China		
		Southern Greece (h = 55 km).					(h = N).		
"	1	UPP	iP	06 05 06.8 D	"	1	UME	iP	16 20 48.4
				micr sec					
			P	Z' 0.1 1.0	"	1	UME	iP	17 23 28.6
		KIR	iP	06 04 12.6 D					
		UME	iP	06 04 38.1 D	"	1	UME	iP	21 15 32.9
		Near east coast of Kamchatka			"				
		(h = 100 km).			"	1	UPP	iP	21 29 41.7
"	1	UME	iP	10 42 34.8			ipP	21 29 48.0	
		Near coast of Chiapas,					KIR	iP	21 30 02.3 C
		Mexico (h = N).					ipP	21 30 08.8	
								micr sec	
"	1	UME	iP	11 25 34.1			P	Z' 0.2 0.9	
		Ascensian Island region					UME	iP	21 29 49.3 C
		(h = 190 km).					ipP	21 29 55.8	
							Chagos archipelago region.		
"	1	UPP	iP	12 23 46.2			h = 20 km (UPP,KIR,UME).		
		KIR	iP	12 22 59.5	"	1	KIR	iP	22 33 35.0
		UME	iP	12 23 20.9			Tajik-Xinjiang border		
		Kuril Islands (h = 35 km).					region (h = N).		
"	1	UPP	iP	12 36 21.3	"	1	KIR	iP	23 29 49.1
				micr sec			Southern Sumatera (h = N).		
			P	Z' 0.1 0.9	"	1	UME	iP	23 44 30.6
		KIR	eP	12 37 00	"				
		UME	iP	12 36 35.6	"	2	UPP	iPKP1	04 05 21.8
		Iran (h = N).					(cont.)		

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1984								1984		
June								June		
	2	(cont.)						3	UPP iSg1 13 07 17.0	
		UPP iPKP2	04 05 28.4						UME iPg1 13 06 09.0	
			micr sec						iSg1 13 06 25.9	
		PKP2 Z'	0.1 1.0						iSn 13 06 29.9	
		KIR iPKP1	04 05 00.2						UDD iSn 13 07 25.3	
			micr sec						iSg1 13 07 35.5	
		PKP1 Z'	0.1 1.5						MYV iPg1 13 06 18.2	
		UME iPKP1	04 05 11.1 C						iSg1 13 06 42.2	
		South of Kermadec Islands (h = N).							Off coast of Angermanland, Sweden, 62.8°N, 18.3°E. Origin time = 13 05 46. M _L (UPP) = 2.4 1. By combination with Finnish station readings.	
"	2	KIR iP	09 03 03.9							
		UME iP	09 03 57.2 C							
"	2	UPP iP	10 39 49.6 C					"	3 KIR iP 13 19 36.6	
		i	10 40 12.7							
		i	10 40 21.8							
			micr sec							
		P Z'	0.1 0.8					"	3 UPP iPKP1 16 21 12.8	
		KIR iP	10 39 57.1 C						KIR iPKP1 16 20 51.9	
			micr sec						UME iPKP1 16 21 00.4	
		P Z'	0.1 1.0						South of Kermadec Islands (h = N).	
		UME iP	10 39 46.9 C							
		Afghanistan-USSR border region (h = 110 km). m = 5.6 (UPP,KIR).						"	3 UPP iP 16 41 19.7	
									KIR iP 16 40 45.3 D	
									UME iP 16 40 59.7 D	
"	2	KIR ePKP	12 46 13						Southeast of Shikoku, Japan (h = 440 km).	
		South Island, New Zealand (h = N).						"	3 UPP iP 18 10 57.1	
"	2	UPP iPKP1	13 01 19.7						KIR iP 18 10 02.9	
		i	13 01 23.9						UME iP 18 10 28.0	
		KIR ePKP	13 01 03						Near east coast of Kamchatka (h = N).	
		UME iPKP	13 01 07.7							
		i	13 01 13.2					"	3 KIR iP 23 23 57.5	
		Kermadec Islands region (h = 370 km).						"	4 UME iP 02 12 00.4	
"	2	UPP iP	20 47 56.3					"	4 UPP iP 02 19 04.7	
"	3	UPP iP	02 34 34.3						KIR iP 02 19 04.0 C	
			micr sec						UME iP 02 19 01.6 C	
		Mx Z	0.9 17						Southern Sumatera (h = 81 km).	
		KIR iP	02 34 11.6					"	4 UPP iP 04 46 40.9	
		UME iP	02 34 19.1						ipP 04 47 02.8	
		Taiwan region (h = 55 km).							KIR iP 04 46 25.5	
"	3	UPP iP	03 46 44.0						i 04 46 42.0	
		UME iP	03 46 23.0						ipP 04 46 47.2	
									micr sec	
		P Z'	0.1 1.2							
"	3	UME iP	05 34 12.6						UME iP 04 46 35.7	
									i 04 46 51.5	
"	3	KIR eP	11 22 03						ipP 04 46 58.1	
		Halimahera (h = N).							Central Mexico. h = 80 km (UPP,KIR,UME).	

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1984				1984			
June				June			
4	KIR	iP	05 11 55.8	4	(cont.)		
	UME	iP	05 11 45.9		UME	iS	21 46 47
	Pakistan (h = N).				Luzon, Philippine Islands. h = 35 km (UPP,KIR). m = 6.2, M = 5.4 (UPP,KIR).		
"	4	UME	iP 05 32 42.0	"	5	UPP	iP 01 54 41.8
	Bonin Islands region (h = 490 km).					KIR	iP 01 53 47.6
"	4	UME	iP 05 51 14.7			UME	iP 01 54 15.6
					Alaska peninsula (h = 90 km).		
"	4	KIR	iP 06 17 28.3	"	5	UPP	iP 04 29 02.7
		UME	iP 06 17 45.7			ipP	04 29 10.4
	Hokkaido, Japan region (h = 50 km).					KIR	iP 04 29 05.8
"	4	UPP	iP 15 34 41.7			UME	iP 04 29 07.5
	Luzon, Philippine Islands (h = 190 km).					ipP	04 29 14.6
					Northern Peru. h = 25 km (UPP,UME).		
"	4	UPP	iP 17 30 56.9	"	5	KIR	iP 11 23 08.6
		KIR	iP 17 30 03.5		Greenland Sea (h = 10 km).		
		UME	iP 17 30 30.6	"	5	UPP	iPKP 15 54 26.0
	Fox Islands, Aleutian Islands (h = N).					KIR	iPKP 15 54 13.2
"	4	UPP	iP 18 45 43.3 D			UME	iPKP 15 54 18.4
		ipcP	18 46 14.7		Solomon Islands (h = 70 km).		
		iS	18 53 33.7	"	6	KIR	iP 05 40 58.8 C
			micr sec			UME	iP 05 40 51.5
		P	Z' 0.3 0.7		Kirghiz SSR (h = N).		
		KIR	iP 18 44 53.9 D	"	6	UPP	
			micr sec			Mx	Z 3.6 22
		P	Z' 0.4 0.5			KIR	eP 05 52 07
		UME	iP 18 45 16.9 D				micr sec
	Sea of Okhotsk (h = 50 km). m = 6.0 (UPP,KIR).					Mx	Z 1.5 18
"	4	UPP	iP 21 15 29.7		Banda Sea (h = N). M = 5.8 (UPP,KIR).		
"	4	UPP	eP 21 23 15	"	6	UME	iPKP 11 16 19.8
		KIR	iP 21 22 35.8		Solomon Islands (h = 70 km).		
		UME	iP 21 22 52.2	"	6	KIR	iP 19 38 47.7
	Near east coast of Honshu, Japan (h = 50 km).				Northern Sumatera (h = N).		
"	4	UPP	iP 21 36 38.7 C	"	6	KIR	iP 19 49 29.6
		ipP	21 36 49.5		Halmahera (h = 160 km).		
			micr sec	"	7	UPP	iP 09 22 41
		P	Z' 0.2 1.2				micr sec
		Mx	Z 1.5 16			Mx	Z 5.6 19
		KIR	iP 21 36 19.9 C			KIR	
		ipP	21 36 30.3				micr sec
			micr sec			Mx	Z 3.4 18
		P	Z' 0.2 1.0			UME	iP 09 21 59.0
		Mx	Z 0.9 16			eTSg	09 28 26
		UME	iP 21 36 26.9 C		Greenland Sea (h = 10 km). Very clear T-phase at UME.		
	(cont.)						

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
June				June			
June	7	UPP	iP	14 36 35.5	June	11	(cont.)
"	7	UPP	iPg1	14 59 27.2			KIR ePKP 02 24 15
			iSg1	14 59 44.0			iPP 02 25 36.0
			i	14 59 48.1			i 02 34 32.4
			iRg	14 59 51.9			micr sec
		UDD	iPg1	14 59 15.3			PP Z' 0.2 1.4
			iSg1	14 59 24.5			UME iPKP 02 24 14.9
			iRg	14 59 29.3			i 02 24 34.4
		Rockburst at the Grängesberg iron ore mine, Dalarna, Sweden, 60.1°N, 15.0°E. Felt.					Near coast of central Chile (h = 45 km). m = 6.5 (UPP,KIR). m - estimate has been done from PP-readings.
"	8	UPP	iP	01 54 26.0	"	11	UPP iP 09 58 35.5
			iSKS	02 05 05			KIR iP 09 58 00.9
			iS	02 05 33			UME iP 09 58 14.4
				micr sec			Volcano Islands region (h = N).
			P	Z' 0.1 0.9			
			Mx	Z 9.5 20			
		KIR	iP	01 54 24.1	"	11	UME iP 10 44 37.8
			i	01 54 30.9			Volcano Islands region (h = N).
				micr sec			
			P	Z' 0.4 1.6			
			Mx	Z 3.8 20	"	11	UPP iP 11 27 12.5
		UME	iP	01 54 23.0			Andreanof Islands, Aleutian Is. (h = 180 km).
			i	01 54 28.9			
			iS	02 05 26	"	11	UDD iSg1 16 04 10.2
		Southern Sumatera (h = N). m = 6.4, M = 6.1 (UPP,KIR). Double P, small and large, in average 6.3 s apart. The second arrival, when interpreted as pP, provides a focal depth of 20 km.					Norwegian Sea, near 60°N, 3°E. Origin time = 16 01 27. Solution from NORSAR bulletin.
"	10	UPP	iPKP	01 47 23.7	"	11	UPP iP 18 52 01.7
		South of Fiji Islands (h = 440 km).					i 18 52 11.1
"	10	UPP	eP	09 06 36			iS 19 02 16
		KIR	iP	09 07 31.7			UME iP 18 52 09.9
		Crete (h = 45 km).					Mid-Indian Rise (h = 10 km). Late arrivals when compared with NEIS solution.
"	10	UPP	iP	15 04 27.8	"	11	UPP eP 22 34 58
"	10	UPP	iP	22 36 46.7			i 22 35 04.7
		KIR	iP	22 36 30.0			KIR eP 22 34 24
		UME	iP	22 36 35.0			UME iP 22 34 36.8
		Mindanao, Philippine Islands (h = 230 km).					i 22 34 48.1
"	11	UPP	iPKP	02 24 09.4	"	12	KIR iP 22 57 32.4
			iPP	02 25 09.0			UME iP 22 57 45.7
			iPKKP	02 35 00			Volcano Islands region (h = N).
			i	02 35 18	"	12	UPP iP 08 56 49.7
				micr sec			
			PP	Z' 0.2 1.5			
			Mx	Z 6.6 25			
		(cont.)					

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1984				1984					
June	12	UPP	iP	09 19 02.3	June	13	KIR	iP	04 14 26.1
		KIR	iP	09 18 34.5			South of Honshu, Japan (h = 45 km).		
		UME	iP	09 18 44.3					
		Ryukyu Islands (h = 30 km).							
"	12	UPP	iP	11 20 02.7	"	13	UPP	iP	13 40 08.3
				micr sec				i	13 40 21.7
		P	Z'	0.1 1.1			KIR	iP	13 40 18.8 C
		KIR	iP	11 19 09.0			UME	eP	13 40 14
			i	11 19 11.6			Of w. coast of northern Sumatera (h = 45 km).		
				micr sec					
		i	Z'	0.2 1.0	"	13	UPP	iP	16 12 36.4
		UME	iP	11 19 36.0			KIR	iP	16 11 07.1
		Fox Islands, Aleutian Islands (h = 45 km). m = 6.0 (UPP,KIR).							micr sec
							P	Z'	0.1 1.0
							UME	eP	16 11 56
								i	16 11 57.6
"	12	KIR	iP	12 12 42.0			North of Svalbard (h = 10 km).		
		Kuril Islands (h = 50 km).			"	13	UPP	iPg1	18 40 05.7
"	12	UPP	iP	17 22 51.9			Local near-surface event.		
			i	17 22 57.6					
				micr sec	"	14	KIR	iP	00 18 33.1
		i	Z'	0.1 1.1			UME	iP	00 18 59.2
		KIR	iP	17 22 21.4			Fox Islands, Aleutian Islands (h = N).		
				micr sec					
		P	Z'	0.1 1.2	"	14	KIR	iP	10 16 45.9
		UME	iP	17 22 37.7 C			UME	iP	10 16 43.0
			i	17 22 43.6			Venezuela (h = 10 km).		
		South of Honshu, Japan (h = 30 km). m = 5.7 (UPP,KIR).			"	14	UPP	iP	14 04 22.6 C
								i	14 04 28.7
"	12	KIR	iP	23 21 20.7			KIR	iP	14 04 05.5
		UME	eP	23 21 22			Qinghai Province, China (h = N).		
		Venezuela (h = 35 km).			"	14	UPP	iP	14 54 41.9
"	13	UPP	iP	02 41 15.0	"	14	KIR	iP	15 23 55.3
			i	02 41 22.0					
			iS	02 51 07	"	14	KIR	iP	14 39 21.9
				micr sec			Eastern Greenland (h = 10 km).		
		i	Z'	0.1 1.1	"	14	KIR	iP	14 39 21.9
		Mx	Z	4.1 20			Eastern Greenland (h = 10 km).		
		KIR	iP	02 40 40.2	"	15	UPP	iP	04 37 52.5 C
			i	02 40 46.8				i	04 38 31.6
				micr sec				ipP	04 38 37.9
		i	Z'	0.2 1.2					micr sec
		Mx	Z	1.4 15			P	Z'	0.2 1.0
		UME	iP	02 40 55.9			KIR	iP	04 36 59.6 C
			i	02 41 02.1				ipP	04 37 44.0
			iS	02 50 29					micr sec
		South of Hounshu, Japan (h = 40 km). m = 5.9, M = 5.6 (UPP,KIR). Double P, small and large, in average 6.9 s apart. The second arrival, when interpreted as pP, gives a focal depth of 25 km.					P	Z'	0.1 0.9
							UME	iP	04 37 25.9
								ipP	04 38 00.8
								ipP	04 38 10.2
							Andreasof Islands, Aleutian Is. h = 200 km (UPP,KIR,UME). m = 5.7 (UPP,KIR).		

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1984				1984					
June	15	KIR	ipP	05 49 23.9	June	16	UPP	iP	13 07 11.5
							KIR	eP	13 06 24
							UME	iP	13 06 45.8
									Kuril Islands (h = 60 km).
"	15	KIR	i(PKP)	11 31 34.6	"	16	UPP	iP	13 44 42.7
				Tonga Islands (h = 270 km).					micr sec
"	15	UPP	i(PKP)	14 40 58.5				P	Z' 0.1 0.6
			iPKP	14 41 09.0			KIR	eP	13 44 54
			iPP	14 43 48.1			UME	iP	13 44 42.1 C
			i	14 53 41.2					Afghanistan (h = N).
				micr sec	"	16	UPP	iP	14 52 02.1
			PKP	Z' 0.3 1.4					
			Mx	Z 1.4 20	"	16	UPP	iP	15 04 38.8
		KIR	i(PKP)	14 40 46.7					Afghanistan (h = N).
			iPKP	14 40 57.0	"	16	UPP	iP	15 48 45.1
			iPP	14 42 56.8			KIR	eP	15 48 49
			i	14 54 13.2			UME	eP	15 48 41
				micr sec					Northern Sumatera (h = 55 km).
			PKP	Z' 0.4 1.3	"	16	UPP	iP	16 26 54.9
			Mx	Z 0.9 16				iS	16 31 25
		UME	i(PKP)	14 40 47.2					micr sec
			iPKP	14 41 05.1				P	Z' 0.1 1.2
			iPP	14 43 20.3			KIR	iP	16 28 04.4
			iSKP1	14 44 07.1					micr sec
				Tonga Islands (h = 250 km).				P	Z' 0.1 1.0
				M = 5.7 (UPP,KIR).			UME	iP	16 27 28.5
				M not corrected for focal depth.				i	16 27 37.4
"	15	UPP	iP	16 16 54.0					Mediterranean Sea (h = N).
		KIR	iP	16 16 52.2					m = 5.5 (UPP,KIR).
		UME	iP	16 16 48.7 D	"	16	UPP	iP	17 26 58.8
				Bay of Bengal (h = N).	"	16	KIR	iPKP	18 03 15.7 C
"	15	UPP	eP	18 56 52					Tuamotu Archipelago region.
		KIR	iP	18 57 12.6					Underground explosion.
		UME	iP	18 56 56.4	"	16	UPP	iP	22 48 16.7
				Iran-USSR border region			UME	eP	22 48 04
				(h = N).	"	17	UPP	iP	00 09 03.3
"	15	UPP	iP	23 08 18.0			KIR	iP	00 10 12.2
		KIR	iP	23 09 28.2			UME	iP	00 09 36.2
		UME	iP	23 08 55.1					Crete (h = 45 km).
				Algeria (h = 10 km).	"	17	UPP	iP	07 40 10.6
"	16	KIR	iPKP	01 47 29.1				i	07 40 51.9
		UME	ePKP	01 47 35			KIR	iP	07 40 19.5
				Vanuatu Islands (h = N).			UME	iP	07 40 08.8
"	16	UPP	iP	03 53 29.7					Hindu Kush region (h = 190 km).
		KIR	iP	03 54 32.9	"	17	UPP	iP	07 52 52.0
		UME	eP	03 54 59				i	07 53 01.0
				Turkey (h = 10 km).					(cont.)
"	16	KIR	iP	11 40 04.3					
				Kuril Islands (h = 80 km).					

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1984						1984								
June	17	(cont.)				June	18	UPP	iP	08 10 02.8 C				
		UPP	iS	07 56 48					P	Z' 0.1 1.0				
				micr sec				KIR	iP	08 10 03.0 C				
			i	Z' 0.3 1.5					i	08 10 08.3				
			Mx	Z 3.1 9					P	Z' 0.3 0.7				
		KIR	iP	07 54 03.9				UME	iP	08 09 59.2 C				
			i	07 54 09.2					i	08 10 14.1				
				micr sec				Southern Sumatera (h = 80 km). m = 6.2 (UPP,KIR).						
			P	Z' 0.1 1.0				"	18	UPP	iP	11 01 00.3		
			i	Z' 0.1 1.0						KIR	iP	11 01 47.2		
			Mx	Z 2.1 11						UME	iP	11 01 22.4		
		UME	iP	07 53 27.1							i	11 01 26.7		
			i	07 54 16.7				Zaire Republic (h = 10 km).						
		UDD	iS	07 57 51				"	18	UPP	iP	11 33 22.3		
		Aegean Sea (h = 25 km). m = 5.6, M = 5.1 (UPP,KIR).									i	11 44 35		
"	17	UPP	iP	08 20 53.8				"	18	UPP	iSKS	11 44 33		
		Near east coast of Kamchatka (h = N).									Mx	Z 2.3 21		
"	17	UME	iP	14 03 58.3						KIR		micr sec		
"	17	UPP	iP	16 37 49.2							Mx	Z 1.1 18		
		KIR	eP	16 36 56						UME	iSKS	11 44 41		
		UME	iP	16 37 22.3						Southern Peru (h = 120 km). M = 5.6 (UPP,KIR). M not corrected for focal depth.				
			i	16 37 36.4						"	18	UPP	iP	13 17 10.0 C
		Andreanof Islands, Aleutian Is. (h = N).										KIR	iP	13 16 16.0 C
"	17	UME	iP	19 56 48.9								UME	iP	13 16 41.4
"	17	UME	iP	20 45 39.3								Off east coast of Kamchatka (h = 45 km).		
		Fox Islands, Aleutian Islands (h = N).								"	18	UPP	iP	15 55 20.2
"	17	UPP	iP	22 41 45.1								KIR	iP	15 55 28.6 C
		Pakistan (h = N).											i	15 56 56.7
"	17	UME	iP	23 44 50.9								UME	iP	15 55 18.3 C
		Near coast of Chiapas, Mexico (h = N).										Hindu Kush region (h = 210 km).		
"	18	UPP	iP	00 28 48.3 C						"	18	UPP	iP	16 47 12.6
			i	00 29 01.8										
		KIR	iP	00 27 55.0 C						"	18	UPP	iP	23 07 03.8
		UME	iP	00 28 21.3 C								North Atlantic ridge (h = 10 km).		
			i	00 28 34.4						"	18	UPP	iP	00 04 34.3
			i	00 55.9								KIR	iP	00 05 41.5
		Andreanof Islands, Aleutian Is. (h = N).										Mediterranean Sea (h = N).		
"	18	UPP	iP	05 09 34.0						"	19	UPP	iP	05 03 06.5
		Southwestern Ryukyu Islands (h = 55 km).										KIR	iP	05 03 07.9 C
											Northern Sumatera (h = 40 km).			

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1984				1984			
Month	Day	Station	Type	Time	Time	Time	Time
June	19	UME	iP	16 30 08.9	June	21	(cont.)
		Near coast of Nicaragua (h = 80 km).					UPP
							micr sec
							P Z' 0.1 1.0
							i Z' 2.2 1.4
"	19	UPP	iP	18 16 56.9			Mx Z 31 11
		KIR	iP	18 16 08.3	KIR	iP	10 50 09.2
		Kuril Islands (h = 50 km).				i	10 50 13.2
							micr sec
"	19	UPP	iP	19 08 44.9			i Z' 0.9 0.7
			iS	19 19 37			Mx Z 18 13
					UME	iP	10 49 34.4
						i	10 49 37.5
						iS	10 54 37
							Crete (h = 40 km).
							m = 6.7, M = 6.1 (UPP,KIR).
							Double P, small and large,
							in average 3.3 s apart.
"	19	UPP	iP	23 14 43.3	"	21	UPP iP 11 18 56.6
		KIR	iP	23 14 24.5			KIR iP 11 20 04.8
			i	23 14 35.3			UME iP 11 19 30.4
		UME	eP	23 14 35			Crete (h = 45 km).
			i	23 14 42.0	"	21	KIR iP 16 57 36.2
		Samar, Philippine Islands (h = N).					Tajik SSR (h = 160 km).
"	20	UPP	iP	07 46 17.2	"	21	UPP iP 17 40 54.8 C
		Samar, Philippine Islands (h = 45 km).					micr sec
							P Z' 0.2 1.0
"	20	UPP	iP	15 34 34.1			KIR iP 17 40 10.9 C
		Dodecanese Islands (h = 170 km).					micr sec
							P Z' 0.1 1.0
"	20	UPP	iP	19 40 14.0			UME iP 17 40 30.9 C
		Southern California (h = 10 km).					Hokkaido, Japan region (h = 100 km).
							m = 5.9 (UPP,KIR).
"	20	UPP	iP	20 26 18.7	"	22	UPP eSn 05 42 29
							KIR iPn 05 38 34.6
							iSn 05 39 35.8
							i 05 39 44.7
"	20	UPP	iP	21 36 25.5			UME iPn 05 39 26.4
		KIR	iP	21 36 29.6			iSn 05 41 03.8
		UME	iP	21 36 21.3			UDD iPn 05 40 11.4
		Kirghiz SSR (h = N).					iSn 05 42 23.6
"	20	UPP	eP	21 53 01			MYV iPn 05 39 32.0
							iSn 05 41 16.0
							i 05 41 33.0
"	20	UPP	iP	22 27 22.8			Norwegian Sea, near 72 1/2°N, 12 1/2°E.
		Hokkaido, Japan region (h = 70 km).					Origin time = 05 37 11.
"	21	UPP	iP	10 49 00.3	"	22	UME iP 06 33 27.8 C
			i	10 49 03.6	"	22	UPP iP 08 31 46.3
			iS	10 53 20			KIR iP 08 31 32.3
		(cont.)					Molucca Passage (h = 55 km).

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984							
June	22	UPP	iP	12 39 54.7	June	24	KIR	iP	07 29 40.9		
		UME	iP	12 39 43.7			"	24	UPP	iP	11 28 41.4
		Mindanao, Philippine Islands							i	11 28 52.4	
		(h = 630 km).							iPP	11 31 35	
"	22	UPP	iPKP	16 14 19.2					iS	11 38 08	
			i	16 14 28.6						micr sec	
				micr sec					P	Z' 0.2 1.5	
			i	Z' 0.1 1.0					i	Z' 0.2 1.0	
			Mx	Z 3.3 20					Mx	Z 79 21	
		KIR		micr sec			KIR	iP	11 28 44.5		
			Mx	Z 1.9 20				iPP	11 31 37.8		
		UME	iPKP	16 14 27.3					micr sec		
			i	16 14 37.2				P	Z' 0.5 1.8		
		Southwestern Atlantic Ocean						Mx	Z 33 22		
		(h = 10 km).					UME	iP	11 28 45.7		
		M = 6.0 (UPP,KIR).						iS	11 38 11		
"	22	UPP	iP	16 24 34.9				Dominican Republic region			
								(h = 25 km).			
								m = 6.1, M = 6.9 (UPP,KIR).			
"	22	UPP	iP	23 07 09.1	"	24	UPP	iPKP2	13 50 05.8		
		South of Alaska (h = N).						micr sec			
								Mx	Z 4.4 28		
"	23	UPP	iP	00 41 33.9			KIR	iPKP1	13 49 31.3		
		Southern Italy (h = 25 km).						micr sec			
								Mx	Z 1.7 22		
"	23	UPP	iP	13 58 39.8			UME	iPKP1	13 49 37.5		
		KIR	iP	13 58 09.8			South Island, New Zealand				
				micr sec			(h = 5 km).				
			P	Z' 0.1 0.7			M = 6.0 (UPP,KIR).				
		UME	iP	13 58 23.3			"	24	KIR	iP	14 37 34.4
			i	13 58 34.6					Spain (h = 15 km).		
		Volcano Islands region					"	24	KIR	iP	18 30 21.3
		(h = N).						UME	iP	18 30 24.1	
"	23	UME	iP	20 35 00.9			Dominican Republic region				
		Bonin Islands region					(h = 30 km).				
		(h = 45 km).					"	24	UPP	iP	21 44 02.4
"	23	KIR	iP	23 04 33.3				i	21 44 03.8		
		UME	eP	23 04 42				eS	21 52 59		
		Taiwan region (h = 10 km).						micr sec			
"	24	UPP	eP	03 15 47				P	0.2 1.3		
								Mx	Z 7.2 21		
"	24	UPP	iSg1	05 37 02.0			KIR	iP	21 43 15.0		
		UDD	i	05 36 10.0				micr sec			
			iPg1	05 36 11.6				P	Z' 0.3 1.5		
			iSg1	05 36 27.3				Mx	Z 3.5 22		
		Lake Vänern, Sweden, 58.8 ⁰ N,					UME	iP	21 43 40.5		
		13.3 ⁰ E.						iS	21 52 13		
		Origin time = 05 35 50.					Queen Charlotte Islands				
		M _L (UPP) = 2.4 1.					region (h = 10 km).				
		By combination with SKI					m = 6.1, M = 5.7 (UPP,KIR).				
		network readings.									

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1984				1984			
June	24	UME iP	22 07 43.4	June	26	UPP iP1	19 52 58.7
		Southern Italy (h = 40 km).				iP2	19 53 01.4
"	24	KIR iP	23 50 46.3			iS	19 56 55.9
		Samar, Philippine Islands (h = N).					micr sec
"	25	UPP iP	02 15 39.8			Mx Z	1.9 9
		Western Arabian Peninsula (h = 10 km).				KIR iP2	19 54 12.0
"	25	KIR iPKP	04 38 12.5				micr sec
		Solomon Islands (h = N).				Mx Z	0.7 11
"	25	UPP iPKP1	07 17 27.6 C			UME iP2	19 53 37.5
		KIR ePKP	07 16 59			iS	19 58 11
		UME iPKP1	07 17 15.6			Aegean Sea (h = 15 km).	
		Kermadec Islands (h = 130 km).				M = 4.8 (UPP,KIR).	
"	25	UME iP	16 28 08.8	"	27	UPP iP	02 16 09.3
		Near east coast of Honshu, Japan (h = 60 km).				i	02 16 29.0
"	25	KIR iPKP	17 16 19.8			KIR iP	02 15 22.7
		Fiji Islands region (h = 570 km).				UME iP	02 15 45.1
"	25	UPP iP	18 56 38.3			Hokkaido, Japan region (h = 70 km).	
		i	18 56 51.1	"	27	UPP eP	02 59 21
		KIR iP	18 56 40.2				micr sec
		UME iP	18 56 42.7			Mx Z	0.8 15
		i	18 56 45.0			KIR iP	02 58 20.3
		Dominican Republic region (h = 30 km).					micr sec
"	26	KIR eP	01 25 16			Mx Z	1.2 14
		UME iP	01 25 22.9			UME iP	02 58 53.3
		Halimahera (h = 50 km).				i	02 59 05.7
"	26	KIR eP	01 43 49			Jan Mayen Island region (h = 10 km).	
		Near s. coast of Honshu, Japan (h = 45 km).		"	27	UPP iP	03 08 18.4
"	26	UPP iP	09 21 43.4				micr sec
		UME iP	09 21 15.3			P Z'	0.2 1.5
"	26	KIR iP	12 46 56.1			Mx Z	2.6 16
		Central Alaska (h = 120 km).				KIR iP	03 07 17.7
"	26	UPP iP	14 05 04.6				micr sec
						Mx Z	2.5 14
"	26	UPP iP	14 53 26.4			UME iP	03 07 50.6
		KIR eP	14 54 45			i	03 07 56.0
		UME i	14 54 17.0			i	03 08 01.2
		Greece (h = 10 km).				Jan Mayen Island region (h = 10 km).	
"	27	UPP iP	16 29 53.9	"	27	KIR ipP	05 40 08.1
		eS	16 34 18			Molucca Passage (h = N).	
		KIR eP	16 31 03 C	"	27	UPP eP	12 45 22
		(cont.)				UME iP	12 45 19.8
						Southern Sumatera (h = 70 km).	

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1984			1984		
June	27	(cont.) UME iP 16 30 24.3 i 16 30 26.3 Mediterranean Sea (h = 35 km).	June	29	UME iPKP 10 57 54.5 Vanuatu Islands region (h = 50 km).
"	27	UME iP 17 30 42.2 Near east coast of Honshu, Japan (h = 60 km).	"	29	UPP iSg1 13 45 13.4 UDD iSg1 13 44 08.2 MYV eSg1 13 44 28.0 Off coast of southwestern Norway, near 61°N, 3°E. Origin time = 13 41 27. By combination with Norwegian station readings.
"	27	UME iP 18 22 06.7 Turkey (h = 10 km).	"	29	KIR iPKP 15 45 34.3 Santa Cruz Islands region (h = 660 km).
"	27	UME iP 21 12 19.9 Mindanao, Philippine Islands (h = 55 km).	"	29	UPP eP 15 48 12
"	27	UME eP 22 02 09 i 22 02 12.1 Carlsberg Ridge (h = 10 km).	"	29	UPP iP 16 43 24.6 i 16 46 26.7 Mx Z 1.1 12 KIR iP 16 44 31.8 micr sec Mx Z 0.6 12 UME iP 16 43 52.0 Crete (h = 50 km). M = 4.6 (UPP,KIR).
"	28	KIR iPKP1 02 11 35.8 UME iPKP1 02 11 43.9 North Island, New Zealand (h = 70 km).	"	29	UPP iP 17 56 49.9 KIR eP 17 56 11 UME iP 17 56 28.2 C i 17 56 30.2 Honshu, Japan (h = 70 km).
"	28	UPP iP 12 15 00.3 KIR iP 12 14 31.4 UME iP 12 14 42.6 Ryukyu Islands (h = 55 km).	"	29	KIR iP 20 01 46.2 N.W. Iran-USSR border region (h = N).
"	28	UPP iP 20 04 47.9 micr sec Mx Z 3.6 26 KIR eP 20 04 32 micr sec Mx Z 1.0 18 UME eP 20 04 38 i 20 04 39.7 Molucca Passage (h = 60 km). M = 5.6 (UPP,KIR). M not corrected for focal depth.	"	29	UME iP 20 38 58.0 Mid-Indian Rise (h = 10 km).
"	29	UPP eP 00 39 36 i 00 39 44.4 KIR iP 00 39 19.8 UME eP 00 39 25 Molucca Passage (h = 50 km).	"	29	UPP iP 22 44 05.6 Taiwan region (h = N).
"	29	UPP iP 04 01 54.1 KIR eP 04 02 27 UME eP 04 02 05	"	30	KIR eP 02 58 56 UME iP 02 58 44.4 Chagos Archipelago region (h = 10 km).
"	29	UPP iP 06 56 26.6 Rat Islands, Aleutian Islands (h = 70 km).	"	30	UPP micr sec Mx Z 1.4 21 KIR micr sec Mx Z 1.3 19 UME iPKP2 11 58 10.7 South Pacific Cordillera (h = 10 km). M = 6.0 (UPP,KIR).

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1984

June	30	KIR	iP		12 00 44.0
"	30	KIR	iP		17 08 34.8
				Southern Xinjiang, China	
				(h = N).	
"	30	UPP	iP		20 38 52.0
			i		20 39 11.2
			i		20 49 45
				micr	sec
		Mx	Z	3.1	14
		KIR	iP		20 38 19.7
			e		20 38 34
				micr	sec
		Mx	Z	1.7	14
		UME	iP		20 38 32.9
			i		20 38 52.3
				Southeast of Shikoku, Japan	
				(h = N).	
				M = 5.7 (UPP,KIR).	

March 11, 1986

Gerry Chouliaras
 Conny Holmqvist
 Ota Kulhánek
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SEISMOLOGICAL BULLETIN
 UPPSALA, KIRUNA, UMEA, UDDEHOLM,
 DELARY and MYRVIKEN

Uppsala	(UPP)	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(KIR)	67°50.4'N,	20°25.0'E;	h = 390 m
Umeå	(UME)	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(UDD)	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(DEL)	56°28.2'N,	12°52.2'E;	h = 150 m
Myrviken	(MYV)	62°56.5'N,	14°20.8'E;	h = 345 m

JULY 1 - 31, 1984

1984					1984				
July	1	UPP	iP	07 51 28.3	July	2	(cont.)		
			i	07 55 01			UME	iP	05 03 24.6 C
				micr sec				ipP	05 03 34.8
			Mx	Z 0.5 8				i	05 03 31.7
		UME	iP	07 52 12.5				ipP	05 06 50.3
		Southern Italy (h = 10 km).						iSKS	05 13 52
"	1	UPP	iP	10 19 45.2 C			Near coast of Guerrero, Mexico. h = 35 km (UPP,UME).		
			ipP	10 20 29.9	"	2	UPP	iP	07 54 11.4
			ipP	10 21 21.1				iS	07 58 33
				micr sec					micr sec
			P	Z' 1.5 0.9				P	Z' 0.1 1.2
		UME	iP	10 19 43.8 C			KIR	iP	07 55 20.6
			ipP	10 20 26.0				ipP	07 55 31.1
			ipP	10 21 23.6					micr sec
		Hindu Kush region. h = 210 km (UPP,UME).						P	Z' 0.1 1.2
"	1	UPP	iPKP	21 19 25.7			UME	iP	07 54 45.1
		UME	iPKP	21 19 20.5				ipP	07 54 54.7
		Tonga Islands (h = 240 km).						ipP	07 55 43.4
"	2	UPP	iP	01 54 05.5				i	07 57 45.7
			ipP	01 54 07.1			Mediterranean Sea. h = 40 km (KIR,UME). m = 5.4 (UPP,KIR).		
				micr sec	"	2	UPP	iP	09 39 58.6
			P	Z' 0.1 1.1			KIR	iP	09 40 30.8
		UME	ipP	01 54 33.5			UME	iP	09 40 09.2
		Arab Republic of Egypt (h = 10 km).						i	09 40 19.9
"	2	UPP	iP	05 03 29.8 C			Caspian Sea (h = N).		
			ipP	05 03 40.7	"	2	UPP	iP	09 41 47.2
			ipP	05 07 04.4					micr sec
			iSKS	05 13 58				P	Z' 0.1 1.1
				micr sec			KIR	iP	09 42 55.4
			P	Z' 0.2 1.3			UME	iP	09 42 21.7
			Mx	Z 7.7 25.			Mediterranean Sea (h = 25 km).		

(cont.)

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1984				1984						
July	2	UPP	iP	09 46 12.6	July	3	UPP	i(PKP)	14 00 09	
		KIR	iP	09 47 02.2				iPKP	14 00 17.8	
		UME	iP	09 46 32.3				iSKP1	14 03 05.4	
"	2	UPP	iPKP2	14 44 59.9			KIR	i(PKP)	13 59 55.8	
		KIR	iPKP	14 45 20.6				iPKP	14 00 06.1 C	
			iPKP2	14 45 50.8					micr sec	
		UME	iPKP2	14 45 53.7				PKP	Z' 0.2 1.2	
		Macquarie Islands region					UME	i(PKP)	14 00 01.4	
		(h = 10 km).						iPKP	14 00 12.4	
								i	14 02 42.4	
								iSKP1	14 02 53.6	
"	2	UPP	eP	14 52 16			Fiji Islands region			
		KIR	eP	14 52 05			(h = 530 km).			
			i	14 52 07.2						
		UME	iP	14 52 17.0	"	3	UPP	eP	14 08 13	
"	2	UPP	iP	20 25 21.4			KIR	eP	14 08 05	
		KIR	eP	20 26 30	"	3	UPP	eP	14 25 02	
		UME	eP	20 25 49			KIR	iP	14 25 27.5	
"	2	UPP	iP	21 39 50.2	"	3	UPP	iPKP	14 50 47.3	
		KIR	iP	21 38 55.8			KIR	iPKP	14 50 33.1	
				micr sec					micr sec	
			P	Z' 0.1 0.8				PKP	Z' 0.1 0.7	
		UME	iP	21 39 23.9			UME	iPKP	14 50 39.4	
		Kodiak Island region					Vanuatu Islands (h = 210 km).			
		(h = N).								
"	3	UPP	iP	01 05 49.0	"	3	UPP	iP	18 13 33.2	
			iS	01 11 53				iS	18 17 56	
				micr sec					micr sec	
			P	Z' 0.2 1.5				P	Z' 0.2 1.5	
			Mx	Z 4.3 12				Mx	Z 0.7 13	
		KIR	iP	01 06 00.1			UME	iP	18 14 06.2	
				micr sec				iS	18 18 56	
			Mx	Z 2.7 10			Mediterranean Sea			
		UME	iP	01 05 48.4			(h = 25 km).			
		Hindu Kush region					m = 5.7 (UPP,KIR).			
		(h = 55 km).				"	3	UPP	iP	19 21 14.6
		M = 5.5 (UPP,KIR).				"	3	UPP	iP	19 45 15.2
		M not corrected for focal						KIR	iP	19 45 04.6
		depth.					Flores Sea (h = 580 km).			
"	3	UPP	iP	04 35 51.3	"	3	KIR	eP	19 54 20	
		KIR	eP	04 35 05				i	19 54 28.6	
		UME	eP	04 35 25			UME	iP	19 55 04.6	
		Kuril Islands (h = 140 km).								
"	3	UPP	eP	06 20 11	"	3	UME	iP	21 23 49.5	
		KIR	iP	06 21 22.3	"	3	UPP	iP	22 22 40.2 C	
		UME	eP	06 20 47				i	22 22 43.5	
		Mediterranean Sea (h = 40 km).						iPKP	22 22 49.1	
"	3	UPP	iP	11 53 29.0					micr sec	
		KIR	iP	11 54 38.2				P	Z' 0.1 0.8	
		UME	iP	11 54 02.5			(cont.)			
		Mediterranean Sea (h = 35 km).								

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1984				1984			
July	6	UPP ip KIR ip UME ip Pakistan (h = N).	06 59 11.2 06 59 32.1 06 59 16.1	July	8	UPP ip ipP KIR eP ipP UME ip ipP Andaman Islands region. h = 20 km (UPP,KIR,UME).	03 10 36.3 03 10 42.8 03 10 35 03 10 42.3 03 10 32.5 03 10 38.4
"	6	UME ip	08 44 24.5	"	8	UPP ip KIR ip UME ip i	03 18 37.2 03 18 37.6 03 18 27.0 03 18 33.5
"	6	UPP iPKP KIR iPKP South of Fiji Islands (h = 540 km).	22 34 01.3 22 33 48.5	"	8	UPP ip KIR ip UME ip i	03 34 44.7 03 34 42 03 34 33.6 03 34 40.4 Andaman Islands region (h = N).
"	6	UPP ip KIR eP UME ip Mediterranean Sea (h = N).	22 36 14.1 22 37 23 22 36 41.7	"	8	UPP ip KIR eP UME ip ipP Andaman Islands region (h = N).	03 51 29.5 03 51 19.3 03 51 25.9
"	7	UPP iPKP KIR iPKP i UME ePKP i South Sandwich Islands region (h = 100 km).	16 06 01.8 16 06 13.6 16 06 16.8 16 06 07 16 06 08.9	"	8	UPP ip UME ip i Andaman Islands region (h = N).	04 06 56.2 micr sec P Z' 0.1 1.0 KIR ip 04 06 56.1 UME ip 04 06 45.0 i 04 06 51.1
"	7	KIR ip	23 25 00.0	"	8	UPP ip P Z' 0.1 1.0 KIR ip UME ip i	04 32 15.7 04 32 22.1 04 32 15.4 04 32 22.2 04 32 12.7 C 04 32 18.6 Andaman Islands region. h = 20 km (UPP,KIR,UME).
"	8	UPP ip UME ip Andaman Islands region (h = N).	02 01 17.2 02 01 12.0	"	8	UPP ip ipP KIR ip ipP UME ip ipP Andaman Islands region. h = 20 km (UPP,KIR,UME).	05 01 17.1 05 01 45.6
"	8	UPP ip P Z' 0.1 1.0 UME ip Andaman Islands region (h = N).	02 24 03.3 micr sec 02 23 59.5 C	"	8	UPP ip ipP KIR ip ipP UME ip ipP Andaman Islands region. h = 20 km (UPP,KIR,UME).	05 37 47.6 05 37 53.8 micr sec P Z' 0.1 1.0 KIR ip 05 37 48.0 ipP 05 37 53.7 UME ip 05 37 44.3 C ipP 05 37 50.2 Andaman Islands region. h = 20 km (UPP,KIR,UME).
"	8	UME ip i i Andaman Islands region (h = N).	02 31 01.7 02 31 08.1 02 31 15.0	"	8	UPP ip UME ip	05 37 48.0 05 37 53.7 05 37 44.3 C 05 37 50.2
"	8	UPP ip ipP UME ip ipP Andaman Islands region. h = 20 km (UPP,UME).	02 38 19.3 02 38 25.9 02 38 15.3 02 38 21.8	"	8	UPP ip KIR ip ipP UME ip ipP Andaman Islands region. h = 20 km (UPP,KIR,UME).	05 37 48.0 05 37 53.7 05 37 44.3 C 05 37 50.2
"	8	UPP ip KIR eP UME ip i Northern Sumatera (h = 110 km).	02 41 18.1 02 41 18 02 41 13.2 02 41 21.6	"	8	UPP ip KIR ip ipP UME ip ipP Andaman Islands region. h = 20 km (UPP,KIR,UME).	05 37 48.0 05 37 53.7 05 37 44.3 C 05 37 50.2

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1984				1984			
July	8	UPP ip	06 06 25.6	July	8	UPP ip	11 54 24.7
		UME ip	06 06 21.8			ipP	11 54 31.7
		Andaman Islands region (h = N).				KIR ip	11 54 24.0
"	8	KIR iSn	06 39 32.0			ipP	11 54 32.0
		iSg1	06 39 41.3			UME ip	11 54 20.9
		UME iSn	06 39 40.5			ipP	11 54 27.9
		iSg1	06 39 53.6			Andaman Islands region. h = 25 km (UPP,KIR,UME).	
		North-central Finland, 65.9°N, 28.5°E. Origin time = 06 37 49. M ₁ (UPP) = 2.4 1. By combination with Finnish station readings.		"	8	UPP ip	12 13 56.7
						ipP	12 14 06.5
						KIR eP	12 13 56
						ipP	12 14 03.5
						UME eP	12 13 53
						epP	12 14 01
						Andaman Islands region. h = 30 km (UPP,KIR,UME).	
"	8	UPP ip	08 12 09.2	"	8	UPP ip	12 47 56.7
		ipP	08 12 14.4			ipP	12 48 03.9
		KIR ip	08 12 10.1				micr sec
		UME ip	08 12 04.7			P	Z' 1.0 1.0
		ipP	08 12 10.4			KIR ip	12 47 55.8
		Andaman Islands region. h = 20 km (UPP,UME).				ipP	12 48 04.4
						UME ip	12 48 52.1
"	8	UPP ip	08 12 59.6			ipP	12 49 00.6
			micr sec			Andaman Islands region. h = 25 km (UPP,KIR,UME).	
		P	Z' 0.1 1.0				
		UME ip	08 12 55.8				
		Andaman Islands region (h = N).		"	8	UPP ip	13 13 30.4
"	8	UPP ip	08 25 32.8			ipP	13 13 37.9
		ipP	08 25 39.1			KIR eP	13 13 31
		UME ip	08 25 29.7			UME ip	13 13 25.6
		ipP	08 25 35.2			ipP	13 13 34.2
		Andaman Islands region. h = 20 km (UPP,UME).				Andaman Islands region. h = 25 km (UPP,UME).	
"	8	UPP ip	08 42 11.8	"	8	UPP eP	13 44 24.
		ipP	08 42 18.4			ipP	13 44 30.0
		KIR ip	08 42 12.6			KIR ip	13 44 22.4
		ipP	08 42 19.2			ipP	13 44 30.1
		UME ip	08 42 08.8			UME ip	13 44 17.5
		ipP	08 42 14.9			ipP	13 44 26.1
		Andaman Islands region. h = 20 km (UPP,KIR,UME).				Andaman Islands region. h = 25 km (UPP,KIR,UME).	
"	8	UPP ip	09 16 36.3	"	8	UPP ip	14 11 50.5
		ipP	09 16 42.3			UME ip	14 11 46.6
		KIR ip	09 16 35.8			i	14 11 52.7
		ipP	09 16 41.7	"	8	UPP ip	14 34 36.2
		UME ip	09 16 31.7			ipP	14 34 42.4
		ipP	09 16 38.7			KIR eP	14 34 37
		Andaman Islands region. h = 20 km (UPP,KIR,UME).				ipP	14 34 42.3
"	8	KIR eP	10 06 34			UME ip	14 34 32.2
		UME ip	10 06 16.1			ipP	14 34 38.4
		Carlsberg Ridge (h = 10 km).				Andaman Islands region. h = 20 km (UPP,KIR,UME).	

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1984				1984			
Month	Day	Location	Time	Month	Day	Location	Time
July	8	UPP	iP 21 10 53.1	July	9	(cont.)	
			ipP 21 10 59.2			KIR	iP 05 42 30.8
		UME	iP 21 10 46.0				ipP 05 42 37.5
			i 21 10 49.3				micr sec
			ipP 21 10 53.6				P Z' 0.2 1.4
		Andaman Islands region. h = 25 km (UPP,UME).				UME	iP 05 42 27.1
							ipP 05 42 33.4
		Andaman Islands region. h = 20 km (UPP,KIR,UME).				Andaman Islands region. h = 20 km (UPP,KIR,UME). m = 5.9 (UPP,KIR).	
"	8	UPP	iP 22 07 50.2	"	9	UPP	iP 07 52 27.5
			ipP 22 07 55.9				ipP 07 52 33.1
		KIR	iP 22 07 50.3			KIR	iP 07 52 28.3
			ipP 22 07 56.5				ipP 07 52 33.4
		UME	iP 22 07 46.5			UME	iP 07 52 23.3
			ipP 22 07 52.2				ipP 07 52 29.3
			i 22 07 57.0			Andaman Islands region. h = 20 km (UPP,KIR,UME).	
		Andaman Islands region. h = 20 km (UPP,KIR,UME).					
"	8	UPP	iP 22 40 56.6	"	9	UPP	iP 12 03 48.5
			ipP 22 41 00.5				ipP 12 03 53.7
		UME	iP 22 40 51.6			KIR	iP 12 03 48.7
		Andaman Islands region (h = N).					ipP 12 03 53.6
"	9	UPP	iP 00 02 14.1			UME	iP 12 03 44.7
		UME	iP 00 02 14.5				ipP 12 03 49.7
		Uzbek SSR (h = N).				Andaman Islands region. h = 15 km (UPP,KIR,UME).	
"	9	UPP	iP 00 35 11.9	"	9	UPP	iP 13 02 35.2
			ipP 00 35 18.1			UME	iP 13 02 31.2
		KIR	iP 00 35 12.0				
			ipP 00 35 17.7			"	9 UPP iP 13 51 49.0
		UME	iP 00 35 07.8			UME	iP 13 51 44.5
			ipP 00 35 13.9			Andaman Islands region (h = N).	
		Andaman Islands region. h = 20 km (UPP,KIR,UME).				"	9 UPP iP 15 05 55.8
"	9	UPP	iP 01 15 11.0	"	9	UPP	iP 16 37 12.9
			ipP 01 15 21.3			UME	iP 16 37 11.4 C
		UME	eP 01 15 07			Andaman Islands region (h = N).	
			ipP 01 15 17.6			"	9 KIR iP 18 45 47.3
		Andaman Islands region. h = 35 km (UPP,UME).				UME	iPKP 18 45 54.0
"	9	UPP	iP 01 55 16.1			Santa Cruz Islands region (h = 670 km).	
		KIR	iP 01 55 16.5			"	9 UPP iP 18 48 24.7
			ipP 01 55 23.0			"	9 UPP iP 19 01 36.5
		UME	iP 01 55 12.4				iS 19 05 16
			ipP 01 55 19.0				micr sec
		Andaman Islands region. h = 20 km (KIR,UME).					P Z' 0.05 0.7
"	9	UPP	iP 05 42 30.7				Mx Z 3.8 9
			ipP 05 42 37.6			(cont.)	
			micr sec				
			P Z' 0.1 1.0				
		(cont.)					

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1984				1984			
July		(cont.)		July	10	(cont.)	
	9	KIR ip	19 02 54.4			KIR eP	09 36 01
			micr sec			UME ip	09 36 03.4
		P Z'	0.1 0.9			ipP	09 36 10.3
		Mx Z	1.7 9			Andaman Islands region.	
		UME ip	19 02 17.2			h = 25 km (UPP,UME).	
		iS	19 06 30				
		Greece (h = 10 km).			"	10	UPP ipP 10 36 24.3
		m = 5.3 (UPP,KIR).					UME ip 10 36 14.1
							ipP 10 36 20.8
"	9	UPP ip	21 05 55.8			Andaman Islands region	
		UME ip	21 05 52.6			(h = N).	
		Andaman Islands region					
		(h = N).			"	10	UPP ip 11 29 03.0
"	9	UPP ip	23 31 37.5				ipP 11 29 08.9
		ipP	23 33 36.2			KIR ip	11 29 03.6
			micr sec			ipP	11 29 09.1
		P Z'	0.1 1.0			UME ip	11 28 59.8
		Mx Z	4.9 25			ipP	11 29 05.4
		KIR ip	23 31 31.7			Andaman Islands region.	
		ipP	23 33 31.4			h = 20 km (UPP,KIR,UME).	
			micr sec		"	10	UPP ip 16 30 56.3
		Mx Z	4.3 20				micr sec
		UME ip	23 31 32.0				P Z' 0.1 1.0
		ipP	23 33 30.6			KIR ip	16 30 22.2
		Java Sea.				ipP	16 31 29.9
		h = 550 km (UPP,KIR,UME).					micr sec
		M = 6.0 (UPP,KIR).					P Z' 0.1 1.0
		M not corrected for focal				UME ip	16 30 36.4
		depth.				South of Honshu, Japan	
						(h = 320 km).	
"	10	UPP ip	00 31 48.7			m = 5.5 (UPP,KIR).	
		ipP	00 31 55.1		"	10	UPP ip 16 58 24.8
		KIR eP	00 31 49				ipP 16 58 30.4
		UME eP	00 31 46				iS 17 07 46
		ipP	00 31 51.3				micr sec
		Andaman Islands region.					P Z' 0.1 1.0
		h = 20 km (UPP,UME).					Mx Z 2.6 21
"	10	UPP eP	06 48 56			KIR ip	16 58 24.7
		ipP	06 48 59.3			ipP	16 58 30.7
		UME ip	06 48 51.5			i	16 58 34.9
		ipP	06 48 55.4				micr sec
		Andaman Islands region.					P Z' 0.1 1.0
		h = 15 km (UPP,UME).					Mx Z 1.4 20
"	10	UPP eP	08 58 35			UME ip	16 58 20.9
		i	08 58 50.5			ipP	16 58 27.1
		KIR ip	08 58 34.9			Andaman Islands region.	
		i	08 58 51.3			h = 20 km (UPP,KIR,UME).	
		UME ip	08 58 31.0			m = 5.8, M = 5.4 (UPP,KIR).	
		i	08 58 47.8		"	10	UPP ip 21 08 20.1
"	10	UPP eP	09 36 07				ipP 21 08 26.0
		ipP	09 36 14.2			KIR ip	21 08 22.1
		(cont.)				ipP	21 08 26.5
						i	21 08 30.8
						(cont.)	

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1984		1984		1984		1984		1984	
Month	Day	Station	Type	Time	Time	Time	Time	Time	Time
July	10	(cont.)							
		UME	iP	21 08 17.2					
			ipP	21 08 22.2					
		Andaman Islands region. h = 15 km (UPP,KIR,UME).							
"	10	KIR	iP	22 26 43.2					
		UME	iP	22 26 39.5					
			ipP	22 26 45.0					
		Andaman Islands region (h = N).							
"	10	UPP	iP	23 08 14.6					
			ipP	23 08 20.8					
				micr sec					
			P	Z' 0.1 1.0					
		KIR	iP	23 08 15.1					
			ipP	23 08 21.0					
				micr sec					
			P	Z' 0.1 1.0					
		UME	iP	23 08 11.3					
			ipP	23 08 17.4					
		Andaman Islands region. h = 20 km (UPP,KIR,UME). m = 5.8 (UPP,KIR).							
"	11	KIR	eP	02 13 56					
		UME	iP	02 13 53.2					
		Andaman Islands region (h = N).							
"	11	UPP	iP	02 38 29.6					
		KIR	eP	02 38 29					
		UME	iP	02 38 26.0					
		Andaman Islands region (h = N).							
"	11	UPP	iP	02 42 02.2					
"	11	UPP	iP	02 54 00.5					
			i	02 54 09.0					
			ipP	02 54 17.1					
				micr sec					
			Mx	Z 1.7 18					
		KIR	iP	02 53 37.7					
			i	02 53 44.5					
				micr sec					
			Mx	Z 1.7 19					
		UME	iP	02 53 46.4					
			i	02 53 54.2					
			ipP	02 54 03.6					
		West Caroline Islands. h = 60 km (UPP,UME). M = 5.6 (UPP,KIR). M not corrected for focal depth.							
"	11	UPP	iP	03 20 21.7					
		Greece-Albania border region (h = 10 km).							
July	11	UPP	iP	03 31 45.4					
			ipP	03 31 54.6					
				micr sec					
			P	Z' 0.1 1.0					
		KIR	iP	03 31 05.4					
			ipP	03 31 14.6					
		UME	iP	03 31 23.1					
		Off east coast of Honshu, Japan. h = 30 km (UPP,KIR).							
"	11	UPP	eP	03 51 20					
		KIR	iP	03 51 18.3					
			ipP	03 51 25.0					
		UME	iP	03 51 13.7					
			ipP	03 51 21.4					
		Andaman Islands region. h = 25 km (KIR,UME).							
"	11	UPP	iP	04 07 17.2					
			ipP	04 07 23.3					
		KIR	iP	04 07 17.8					
			ipP	04 07 24.0					
		UME	iP	04 07 13.7					
			ipP	04 07 20.3					
		Andaman Islands region. h = 20 km (UPP,KIR,UME).							
"	11	KIR	iP	05 20 41.8					
			ipP	05 20 48.4					
		UME	eP	05 20 37					
			ipP	05 20 43.5					
		Andaman Islands region. h = 20 km (KIR,UME).							
"	11	UPP	iP	05 53 35.3					
				micr sec					
			P	Z' 0.3 1.2					
			Mx	Z 2.0 21					
		KIR	iP	05 53 18.7 C					
				micr sec					
			P	Z' 0.5 1.2					
			Mx	Z 1.9 20					
		UME	iP	05 53 24.2					
			iSKS	06 03 54					
		Mindanao, Philippine Islands (h = 55 km). m = 6.7, M = 5.6 (UPP,KIR). M not corrected for focal depth.							
"	11	UPP	eP	06 33 26					
		KIR	iP	06 33 25.8					
		UME	iP	06 33 21.4					
		Andaman Islands region (h = N).							

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1984				1984										
July	11	UPP	iPKP	06 41	46.7	July	12	KIR	eP	03 51	58			
		KIR	iPKP	06 41	38.6			UME	iP	03 52	25.5			
		UME	iPKP	06 41	44.9			Near Islands, Aleutian Islands (h = N).						
		Fiji Islands region (h = 470 km).						"	12	UPP	iP	05 22	01.9	
"	11	UPP	iP	08 02	13.7			KIR	iP	05 21	09.0			
			ipP	08 02	20.1			UME	iP	05 21	34.9			
		KIR	iP	08 02	14.4			Near Islands, Aleutian Islands (h = N).						
			ipP	08 02	20.3			"	12	UPP	iP	07 53	01.4	
		UME	iP	08 02	10.3			UME	iP	07 53	47.3			
			ipP	08 02	17.1					ipP	07 53	51.8		
		Andaman Islands region. h = 20 km (UPP,KIR,UME).						Greece-Albania border region (h = 10 km).						
"	11	UPP	eP	08 30	47			"	12	UPP	eP	11 27	44	
		KIR	iP	08 30	48.2						ipP	11 27	50.9	
			ipP	08 30	54.8			KIR	eP	11 27	45			
		UME	iP	08 30	44.0					ipP	11 27	53.1		
		Andaman Islands region (h = N).								i	11 27	56.9		
"	11	UPP	iP	13 33	13.3			UME	eP	11 27	41			
					micr sec					ipP	11 27	48.2		
			Mx	Z	1.6	20		Andaman Islands region. h = 25 km (UPP,KIR,UME).						
		KIR	iP	13 33	13.2			"	12	UPP	eP	06 20	06	
			ipP	13 33	19.3			KIR	iP	06 19	45.8			
					micr sec			Halimahera (h = 240 km).						
			P	Z'	0.1	1.0		"	13	UME	iP	17 39	26.8	
			Mx	Z	1.4	20		"	14	UPP	iP	01 16	09.1 C	
		UME	iP	13 33	09.5						P	Z'	1.4	0.7
			ipP	13 33	14.8						Mx	Z	2.0	10
		Andaman Islands region. h = 20 km (KIR,UME). M = 5.3 (UPP,KIR). M not corrected for focal depth.						KIR	iP	01 15	52.3 C			
"	11	UPP	iP	16 30	06.7					i	01 16	20.5		
		KIR	iP	16 30	06.3					i	01 16	52.1		
			ipP	16 30	11.4							micr sec		
		UME	ipP	16 30	07.2					P	Z'	3.5	0.7	
		Andaman Islands region (h = N).								Mx	Z	0.7	8	
"	11	UPP	eP	19 56	11			UME	iP	01 15	53.5 C			
			ipP	19 56	20.5					i	01 16	09.1		
			i	19 56	26.7					i	01 16	30.8		
		KIR	eP	19 56	05			Eastern Kazakh, SSR. m = 7.2, M = 5.0 (UPP,KIR). Underground explosion.						
			ipP	19 56	13.5			"	14	UPP	iP	03 02	37.8	
			i	19 56	20.2			KIR	iP	03 02	43.1			
		UME	iP	19 56	06.2			UME	iP	03 02	37.1			
		Andaman Islands region. h = 30 km (UPP,KIR).						Hindu Kush region (h = 90 km).						

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1984				1984							
July	15	UPP	iP	21 24 03.4	C	July	17	UPP	iP	06 39 29.6	
			ipP	21 24 09.4				KIR	eP	06 39 24	
		KIR	iP	21 24 03.6					ipP	06 39 30.2	
		UME	iP	21 23 59.3				UME	iP	06 39 26.2	
			ipP	21 24 05.4					ipP	06 39 33.2	
		Andaman Islands region. h = 20 km (UPP,UME).						Andaman Islands region. h = 20 km (KIR,UME).			
"	16	UPP	iP	00 21 16.4	C	"	17	KIR	eP	06 41 27	
			ipP	00 21 28.2					i	06 41 33.1	
			P	Z' 0.1 1.0				UME	iP	06 41 23.7	
		KIR	iP	00 20 23.3					i	06 41 30.1	
			ipP	00 20 35.6		"	17	UME	iP	06 53 33.4	
			P	Z' 0.1 0.8					i	06 53 39.1	
		UME	iP	00 20 50.0	C	"	17	UPP	iP	07 20 44.6	
			ipP	00 21 02.3					ipP	07 20 51.2	
			i	00 21 26.8				KIR	eP	07 20 43	
		Fox Islands, Aleutian Islands. h = 40 km (UPP,KIR,UME). m = 5.9 (UPP,KIR).						UME	iP	07 20 40.5	
									ipP	07 20 47.2	
								Andaman Islands region. h = 20 km (UPP,UME).			
"	16	UPP	iP	11 34 03.4		"	17	UME	iP	08 42 38.7	
"	16	UPP	iP	11 34 26.0					i	08 42 55.9	
		UME	iP	11 34 22.5		"	17	UPP	iPKP	14 32 54.1	
"	16	UPP	eP	12 47 32						micr sec	
		KIR	eP	12 47 48				Mx	Z	1.0 19	
		UME	eP	12 48 12				KIR	iPKP	14 33 09.5	
"	16	UPP	Mx	14 02					i	14 36 16.2	
				micr sec						micr sec	
			Mx	Z 3.1 18				PKP	Z' 0.3 1.3		
		KIR	Mx	13 58				Mx	Z 1.4 20		
				micr sec				UME	ePKP	14 33 02	
			Mx	Z 1.4 20					i	14 36 23.9	
		South Pacific Cordillera (h = 10 km). M = 6.1 (UPP,KIR).						South Sandwich Islands region (h = 130 km). M = 5.6 (UPP,KIR). M not corrected for focal depth.			
"	16	UPP	iP	15 30 47.4		"	17	KIR	iP	21 54 40.8	
		UME	iP	15 30 19.8					i	21 54 49.0	
			i	15 30 27.8						micr sec	
		Kuril Islands (h = 50 km).							P	Z' 0.1 1.1	
"	16	UPP	eP	20 05 32				UME	iP	21 55 32.6	
			i	20 05 43.6				Greenland Sea (h = 10 km).			
		KIR	iP	20 06 41.6		"	17	UPP	eP	22 38 09	
		Crete (h = N).						KIR	iP	22 39 17.1	
"	17	KIR	eP	03 45 37				Crete (h = N).			
		UME	eP	03 45 23		"	18	KIR	eP	03 56 08	
		Tajik, SSR (h = N).						Sumbawa Islands region (h = N).			

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1984				1984			
July	18	UPP eP UME iP Kuril Islands (h = N).	07 00 36 07 00 08.3	July	19	UPP iP UME iP i	16 13 27.6 16 13 02.2 16 13 12.1
"	18	UPP iP	09 50 59.2	"	19	UPP iP ipP	16 27 47.7 16 27 52.5
"	18	UPP iP KIR iP UME eP Near Islands, Aleutian Islands (h = 40 km).	09 52 55.1 09 52 01.7 09 52 25	"	19	KIR iP ipP UME iP ipP Andaman Islands region. h = 15 km (UPP,KIR,UME).	16 27 47.3 16 27 52.6 16 27 42.9 16 27 48.4
"	18	KIR iPKP1 UME iPKP1 North Islands, New Zealand (h = 210 km).	15 47 06.0 15 47 15.2	"	19	UME iPKP Solomon Islands (h = 80 km).	17 05 35.9
"	19	UPP iP iS Mx Z KIR iP Mx Z UME iP Ascension Islands region (h = 10 km). M = 5.2 (UPP,KIR).	05 33 32.8 05 42 49 micr sec 1.0 18 05 34 18.7 micr sec 1.3 19 05 33 57.8	"	19	UPP iP iS P Z' Mx Z KIR iP P Z' Mx Z UME iP iS Ryukyu Islands (h = 45 km). m = 6.6, M = 5.7 (UPP,KIR).	23 36 56.7 C 23 46 35 micr sec 1.2 1.2 4.5 22 23 36 26.0 C micr sec 0.9 1.6 2.5 15 23 36 37.8 23 45 59
"	19	UPP iP iS P Z' Mx Z KIR iP i P Z' Mx Z UME iP i i iS United Kingdom (h = 15 km). M = 4.4 (UPP,KIR). Note that the surface-wave magnitude has here been determined by making use of the Prague-Moscow formula of 1962 in spite of the fact that epicentral distances to UPP and KIR are only 14° and 19°, respectively.	06 59 25.9 07 01 51.5 micr sec 0.1 0.8 2.4 13 07 00 33.8 C 07 00 42.3 micr sec 0.2 0.8 0.9 11 07 00 05.2 C 07 00 09.3 07 00 18.0 07 03 04	"	20	UPP iP UME iP	07 03 34.7 07 03 01.1
"	19	KIR iP UME iP	07 14 40.7 07 14 21.1	"	20	UPP iPKP1 KIR iPKP UME i(PKP) iPKP Fiji Islands region (h = 570 km).	14 13 55.4 14 13 46.5 14 13 42.7 14 13 54.1
"	19	KIR iP UME iP	07 14 40.7 07 14 21.1	"	20	UPP iP ipP KIR eP UME iP ipP Andaman Islands region. h = 15 km (UPP,UME).	16 48 44.5 16 48 49.2 16 48 45 16 48 40.7 16 48 46.2
"	19	KIR iP UME iP	07 14 40.7 07 14 21.1	"	20	UPP iP KIR iP UME iP Samar, Philippine Islands (h = 80 km).	17 11 15.2 17 10 56.6 17 11 03.3
"	19	KIR iP UME iP	07 14 40.7 07 14 21.1	"	20	UPP iP KIR iP UME iP Andaman Islands region (h = N).	20 18 06.2 20 18 06.8 20 18 02.6

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1984				1984					
July	21	KIR	iP	02 31 43.3	July	22	UME	iP	03 56 11.7
				South of Java (h = N).					
"	21	UPP	iP	03 04 48.5	"	22	UME	iP	17 34 59.4
				micr sec	"	23	UPP	eP	00 11 10
			P	Z' 0.4 0.6			KIR	eP	00 10 16
			Mx	Z 1.0 6			UME	iP	00 10 42.3
		KIR	iP	03 05 03.8 C					Kuril Islands (h = 55 km).
			i	03 05 46.5	"	23	UPP	iP	01 34 35.0
				micr sec			KIR	eP	01 34 34
			P	Z' 0.4 0.9			UME	iP	01 34 30.5
			Mx	Z 0.5 7					Andaman Islands region
		UME	iP	03 04 46.1 C					(h = 20 km).
			i	03 04 50.6	"	23	UPP	iP	02 19 07.7
				European USSR.					micr sec
				m = 5.9 (UPP,KIR).				P	Z' 0.1 0.9
				Underground explosion.			KIR	iP	02 19 07.7
"	21	UPP	iP	03 09 48.3					micr sec
				micr sec				P	Z' 0.2 1.4
			P	Z' 0.2 0.6			UME	iP	02 19 04.0 C
			Mx	Z 1.2 6				ipP	02 19 10.0
		KIR	iP	03 10 03.3					Andaman Islands region
				micr sec					(h = 20 km).
			P	Z' 0.4 1.0					m = 5.9 (UPP,KIR).
			Mx	Z 0.5 8	"	23	KIR	eP	02 27 21
		UME	iP	03 09 45.7			UME	eP	02 27 03
				European USSR.	"	23	UPP	iPKP1	04 51 18.3 D
				m = 5.8 (UPP,KIR).			KIR	iPKP1	04 50 57.2 D
				Underground explosion.			UME	iPKP1	04 51 06.2 D
"	21	UPP	iP	03 14 48.5					Kermadec Islands (h = 60 km).
				micr sec	"	23	UPP	iPKP1	05 17 31.1
			P	Z' 0.3 0.6				iPKP2	05 17 36.0
			Mx	Z 1.7 9			KIR	iPKP1	05 17 10.2 D
		KIR	iP	03 15 03.8 C			UME	iPKP1	05 17 19.8 D
				micr sec					Kermadec Islands region
			P	Z' 0.4 0.9					(h = 340 km).
			Mx	Z 0.6 9	"	23	UPP	iPKP	06 24 46.0
		UME	iP	03 14 46.1			KIR	ePKP	06 24 35
				European USSR.			UME	iPKP	06 24 39.2
				m = 5.9 (UPP,KIR).					Solomon Islands (h = 55 km).
				Underground explosion.	"	23	UPP	iP	06 35 07.9
"	21	KIR	iP	08 02 20.8			KIR	iP	06 35 28.7
				Kuril Islands (h = 60 km).			UME	eP	06 34 47
"	21	KIR	iP	20 18 35.0	"	23	UPP	iP	07 21 12.9
		UME	iP	20 18 38.2			KIR	eP	07 21 49
				Talau Islands (h = N).			UME	iP	07 21 26.1
"	21	UPP	iP	23 10 20.3					Southern Iran (h = 35 km).
		UME	iP	23 10 03.9	"	23	UPP	iP	07 21 12.9
				Northeast of Taiwan			KIR	eP	07 21 49
				(h = 130 km).			UME	iP	07 21 26.1

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1984				1984			
July	29	UPP	iP	02 25 46.3	July	30	(cont.)
				micr sec			UME iP 12 20 03.1
			Mx	Z 3.0 10			Jan Mayen Islands region
		KIR		micr sec			(h = 10 km).
			Mx	Z 1.8 11			M = 4.8 (UPP,KIR).
		UME	iP	02 26 23.8			Note that the surface-wave
			i	02 26 27.0			magnitude has here been
			iS	03 30 36			determined by making use of
				Aegean Sea (h = 10 km).			the Prague-Moscow formula
				M = 5.0 (UPP,KIR).			of 1962 in spite of the fact
"	29	UPP	iP	07 09 00.5			that the respective epicentral
			ipP	07 09 06.4			distances to UPP and KIR are
		UME	iP	07 08 56.8	"	30	UPP iP 17 23 21.4
			ipP	07 09 02.6			" 30 UPP iP 17 29 56.4
			i	07 09 07.2			UME eP 17 29 55
				Andaman Islands region.			Afghanistan (h = N).
				h = 20 km (UPP,KIR,UME).			" 30 UPP iP 21 25 08.4
"	29	UPP	iP	09 52 55.4			UME iP 21 24 41.7
			Mx	Z 2.0 11			Rat Islands, Aleutian Is.
		KIR		micr sec			(h = 140 km).
			Mx	Z 0.6 10	"	30	UPP eP 21 45 38
		UME	iP	09 53 33.3			UME eP 21 45 37
			i	09 53 40.7			Near coast of Guatemala
			iS	09 57 46			(h = 65 km).
				Aegean Sea (h = 15 km).			" 30 UPP iP 22 14 13.1
				M = 4.7 (UPP,KIR).			UME iP 22 13 46.4 C
"	29	UME	iP	10 58 59.8			Fox Islands, Aleutian Is.
"	29	UME	iP	17 26 01.2			(h = N).
				Northwestern Kashmir	"	31	UPP iP 02 38 54.9
				(h = N).			UME iP 02 39 08.4
"	29	UME	iP	22 15 27.5			Iran (h = N).
				Fox Islands, Aleutian Is.	"	31	UPP iP 12 16 51.3
				(h = N).			ipP 12 16 55.2
"	29	UPP	iP	22 26 58.2			micr sec
			Mx	Z 0.9 10			Mx Z 1.9 20
		UME	iP	22 27 34.4			UME iP 12 16 58.1
			iS	22 31 59			North Atlantic Ocean
				Aegean Sea (h = 25 km).			(h = 10 km).
				M = 4.5 (UPP,KIR).			M = 4.7 (UPP,KIR).
"	30	UME	iP	03 00 33.5	"	31	UPP iP 12 26 34.5
"	30	UME	iP	04 40 41.6			UME iP 12 26 40.1
							North Atlantic Ocean
"	30	UPP	iP	12 20 33.8			(h = 10 km).
			Mx	Z 5.3 16	"	31	UPP iP 12 27 31.4
		KIR		micr sec			UME iP 12 27 36.2
			Mx	Z 4.8 17			
				(cont.)			

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984

July 31 UPP iP 12 31 57.4
 i 12 32 01.1
 UME iP 12 32 04.7
 i 12 32 07.4
 North Atlantic Ocean.
 h = 10 km (UPP,UME).

" 31 UPP eP 18 28 11
 East of Severnaya Zemlya
 (h = 10 km).

" 31 UPP iP 21 24 41.6

" 31 UME iPKP 22 14 35.1
 Santa Cruz Islands
 (h = 220 km).

" 31 UPP iP 22 30 11.8
 UME iP 22 30 34.7
 Zaire Republic (h = 10 km).

March 26, 1986

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

Uppsala	(UPP)	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(KIR)	67°50.4'N,	20°25.0'E;	h = 390 m
Umeå	(UME)	63°48.9'N,	20°14.2'E;	h = 16 m
Uddeholm	(UDD)	60°05.4'N,	13°36.4'E;	h = 240 m
Delary	(DEL)	56°28.2'N,	12°52.2'E;	h = 150 m
Myrviken	(MYV)	62°56.5'N,	14°20.8'E;	h = 345 m

AUGUST 1 - 31, 1984

Aug.	1	UPP	iP	01 15 14.9	Aug.	2	UPP	i(P)	18 20 08.8
		KIR	iP	01 14 44.5					
		UME	iP	01 14 56.3 D	"	2	UME	iSn	18 55 12.8
		Bonin Islands region (h = 450 km).					North-central Finland, 65.9°N, 28.6°E. Origin time = 18 53 20. By combination with Finnish station readings.		
"	1	UPP	iP	07 22 47.6					
		KIR	eP	07 22 21					
		UME	iP	07 22 31.2					
		Mariana Islands (h = 190 km).			"	2	UPP	i(P)	20 24 15.4
"	1	UME	iP	14 46 10.9	"	2	UPP	iP	22 57 13.8
			i	14 46 17.0			Southern Iran (h = N).		
		Andaman Islands region (h = N).			"	3	UPP	iP	01 14 40.9
"	1	UME	iP	15 44 30.9			UME	iP	01 14 42.5
			i	15 44 36.7			North Atlantic Ocean (h = 10 km).		
		Andaman Islands region (h = N).			"	3	UPP	eP	01 25 01
"	1	UME	eP	17 41 26			UME	iP	01 25 05.3
		Andrenaof Islands, Aleutian Is. (h = N).					North Atlantic Ocean (h = 10 km).		
"	2	UPP	eSg1	01 16 03	"	3	UPP	iP	01 26 31.1
		UDD	iSg1	01 14 57.5					micr sec
		Norwegian Sea, near 60°N, 2°E. Origin time = 01 11 50. M _l (UPP) = 2.5 1. By combination with Norwegian station readings.					Mx	Z	2.9 21
							KIR		micr sec
							Mx	Z	1.6 15
							UME	iP	01 26 34.6
								iS	01 31 01
							North Atlantic Ocean (h = 10 km). M = 4.8 (UPP,KIR).		
"	2	UPP	iPKP1	05 18 58.0 C	"	3	UPP	eP	04 12 16
		KIR	iPKP	05 18 48.9			UME	eP	04 12 20
		UME	ePKP1	05 18 47			North Atlantic Ocean (h = 10 km).		
		South of Fiji Islands (h = 570 km).							

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984								1984	
Aug.	3	UPP	eP	09 56 11		Aug.	3	(cont.)	
		UME	iP	09 55 54.4				By combination with Finnish	
		Mariana Islands (h = 45 km).						station readings.	
"	3	UPP	iPKP1	14 39 25.8		"	3	Felt.	
		UME	i(PKP)	14 39 12.8				KIR	iSn 23 08 05.4
			iPKP	14 39 22.5					iSg1 23 08 16.1
			iSKP1	14 42 02.4				UME	iSn 23 08 13.9
		South of Fiji Islands							i 23 08 14.8
		(h = 590 km).							iSg1 23 08 30.2
"	3	UPP	iP	14 43 42.0				North-central Finland	
				micr sec				65.9°N, 28.6°E.	
			Mx	Z 3.4 21				Origin time = 23 06 22.	
		KIR		micr sec				By combination with Finnish	
			Mx	Z 1.6 15				station readings.	
		UME	iP	14 43 38.6		"	4	UPP	iP 03 05 44.5
			iS	14 54 06				Ionian Sea (h = 10 km).	
		Near coast of Chiapas,				"	4	UME	iSn 05 06 00.8
		Mexico (h = 35 km).						North-central Finland,	
		M = 5.7 (UPP,KIR).						65.9°N, 28.6°E.	
"	3	UME	iP	20 54 54.7				Origin time = 05 04 09.	
"	3	UPP	iP	21 00 18.8				By combination with Finnish	
				micr sec				station readings.	
			Mx	Z 0.8 19		"	4	KIR	iSg1 07 39 19.0
		KIR		micr sec				North-central Finland,	
			Mx	Z 0.8 15				65.9°N, 28.6°E.	
		UME	iP	21 00 21.7				Origin time = 07 37 24.	
		North Atlantic Ocean						M ₁ (UPP) = 2.3 1.	
		(h = 10 km).						By combination with Finnish	
		M = 4.4 (UPP,KIR).						station readings.	
"	3	KIR	iSn	22 34 36.9		"	4	UPP	iP 09 22 24.8
			iSg1	22 34 48.2					i 09 22 41.9
		UME	iSn	22 34 47.2					micr sec
			iSg1	22 35 02.0					Mx Z 1.1 20
		North-central Finland,						KIR	micr sec
		65.9°N, 28.6°E.							Mx Z 0.7 14
		Origin time = 22 32 54.						UME	iP 09 21 55.3
		By combination with Finnish						Komandorsky Islands region	
		station readings.						(h = N).	
"	3	UPP	iSg1	22 46 14.7				M = 5.0 (UPP,KIR).	
		KIR	iPn	22 43 06.7		"	4	UPP	iSg1 11 05 02.5
			iPg1	22 43 15.3				UDD	iSg1 11 04 04.8
			iSn	22 43 50.5				Norwegian Sea, near 62°N,	
			iSg1	22 44 03.7				3°E.	
		UME	iSn	22 43 59.2				Origin time = 11 01 21.	
			i	22 44 01.3				Solution from Norwegian	
			iSg1	22 44 15.8				station readings.	
		UDD	iSn	22 45 54.2		"	4	UPP	iP 12 24 43.8
			iSg1	22 46 45.8				UME	iP 12 24 23.8
		North-central Finland,						South of Honshu, Japan	
		65.9°N, 28.5°E.						(h = 70 km).	
		Origin time = 22 32 54.							
		By combination with Finnish							
		station readings							

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Aug.	9	KIR eP UME eP Tajik-Xinjiang border region (h = N).	01 31 18 01 31 09	Aug.	11	MYV iSg1 Coast of northern Norway, near 68°N, 14°E. Origin time = 06 56 32. M _L (UPP) = 3.1 (0.35) 3.	06 59 09.6
"	9	UPP iP UME iP Near east coast of Honshu, Japan (h = N).	18 11 03.5 18 10 41.4	"	11	UPP iP ipP P Z' 0.1 0.9 KIR iP UME iP Northern Sumatera. h = 130 km (UPP). m = 5.7 (UPP,KIR).	12 08 36.7 C 12 09 10.6 12 08 37.5 C 12 08 33.7
"	9	UPP iP KIR iP UME iP Kuril Islands (h = N).	19 32 28.9 19 31 41.3 19 32 02.8	"	11	KIR eP Northern Colombia (h = 170 km).	13 26 39
"	9	UME eP Southern Greece (h = 10 km).	20 24 39	"	11	KIR eP N.W. Iran-USSR border region (h = 10 km).	16 40 20
"	10	UPP iP UME iP South Atlantic Ridge (h = 10 km).	11 34 48.8 11 35 09.7	"	11	UPP iP i iS P Z' 0.1 0.5 i Z' 0.2 0.6 KIR iP P Z' 0.4 0.5 UME iP Ural Mountains region. Underground explosion.	19 04 03.6 C 19 04 06.3 19 07 13.0 19 03 14.9 19 03 26.9
"	10	UPP iP P Z' 0.1 1.0 Mx Z 1.4 15 KIR iP micr sec Mx Z 1.9 15 UME iP Kyushu, Japan (h = N). M = 5.5 (UPP,KIR).	19 37 41.5 micr sec 19 37 08.7 micr sec 19 37 22.0	"	11	UPP Mx Z 3.2 23 KIR ePKP micr sec Mx Z 2.6 23 UME iP New Britain region (h = 40 km). M = 5.8 (UPP,KIR).	01 39 13 01 39 17.0
"	10	KIR eP North Atlantic Ridge (h = 10 km).	23 40 31	"	12	UPP iP KIR eP Vancouver Island region (h = N).	00 14 01 00 14 35.1 00 34 56
"	11	UPP Mx Z 3.2 23 KIR ePKP micr sec Mx Z 2.6 23 UME iP New Britain region (h = 40 km). M = 5.8 (UPP,KIR).	01 39 13 01 39 17.0	"	12	UPP iP KIR iP UME iP Volcano Islands region (h = N).	00 35 47.5 03 34 23.6 03 34 36.8
"	11	UPP iP KIR iP iSn iSg1 UME iP iPn iPg1 iSn iSg1 UDD iP (cont.)	07 00 48.3 06 57 17.5 06 57 44.6 06 57 48.8 06 57 49.2 06 57 54.9 06 58 38.7 06 58 58.1 07 00 37.5	"	12	KIR iP UME iP Volcano Islands region (h = N).	10 46 51.1 10 47 04.3

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984							
Aug.	12	UPP	iP	17 03 32.8	Aug.	14	UPP	iP	11 52 35.4		
				micr sec					micr sec		
			P	Z' 0.2 1.2				Mx	Z 3.6 16		
			Mx	Z 1.3 14			KIR	iP	11 52 50.4		
		KIR	iP	17 03 12.4					micr sec		
				micr sec				Mx	Z 1.2 14		
			P	Z' 0.1 1.0			UME	iP	11 52 36.4		
			Mx	Z 1.4 12			Uzbek SSR (h = 10 km).				
		UME	iP	17 03 19.3			M = 5.1 (UPP,KIR).				
		Luzon, Philippine Islands					"	14	UPP	iP	18 41 43.8
		(h = 15 km).									micr sec
		m = 5.9, M = 5.5 (UPP,KIR).								Mx	Z 2.8 15
"	13	UDD	i	00 25 14.4			KIR	iP	18 41 13.6		micr sec
			iSg1	00 25 44.2							
		Norwegian Sea, near 61°N,								Mx	Z 2.1 17
		4°E.					UME	iP	18 41 26.4		
		Origin time = 00 23 02.					Kyushu, Japan (h = 20 km).				
		Solution from Norwegian					M = 5.6 (UPP,KIR).				
		station readings.					"	14	UME	iPKP1	22 11 39.3
"	13	UPP	iP	16 25 10.3			Kermadec Islands region				
		KIR	iP	16 25 10.5			(h = 60 km).				
		UME	iP	16 25 06.7			"	15	UPP	iP	02 08 23.8
		Andaman Islands region							KIR	iP	02 08 53.5
		(h = N).							UME	iP	02 08 33.7
"	13	KIR	iP	16 26 15.9			Iran (h = N).				
		UME	iP	16 26 11.2			"	15	KIR	iP	05 39 14.5
"	13	UPP	iP	19 34 35.9					UME	iP	05 39 05.6
		KIR	iP	19 34 36.2			Southwestern Kashmir (h = N).				
		UME	iP	19 34 32.7			"	15	KIR	iP	13 31 33.1
		Andaman Islands region					(h = 110 km).				
		(h = N).					"	16	UME	iP	02 11 39.7
"	14	UPP	iP	01 12 02.9			Near east coast of Honshu,				
			i	01 12 06.6			Japan (h = 30 km).				
				micr sec			"	16	UPP	iP	02 32 33.3
			i	Z' 0.1 1.0					KIR	eP	02 31 59
			Mx	Z 2.7 20					UME	iP	02 32 12.5
		KIR	iP	01 11 04.9			South of Honshu, Japan				
			i	01 11 09.5			(h = 40 km).				
				micr sec			"	16	KIR	iP	03 21 48.4
			i	Z' 0.2 1.0			Caribbean Sea (h = 10 km).				
			Mx	Z 1.8 16			"	16	KIR	iP	23 50 51.6
		UME	iP	01 11 33.4					UME	iP	23 51 39.9
			iS	01 19 14			Norwegian Sea (h = 10 km).				
		Southern Alaska.					"	17	KIR	iP	01 10 22.3
		h = 15 km (UPP,KIR).									
		m = 5.9, M = 5.3 (UPP,KIR).									
"	14	UPP	iP	01 38 20.0							
		KIR	iP	01 38 51.1							
		UME	iP	01 38 29.4							
		Iran (h = N).									

UPP = Uppsala, KIR = Kiurna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Aug.	17	KIR eP	03 00 07	Aug.	20	UPP iP	14 00 25.7
		Tajik SSR (h = 55 km).				KIR iP	13 59 53.4
"	17	UPP iP	07 29 23.8			UME iP	14 00 07.1
		KIR eP	07 29 05			South of Honshu, Japan	
		Leyte, Philippine Islands				(h = 420 km).	
		(h = 100 km).		"	20	UPP iP	18 56 14.0
"	17	KIR ipP	08 31 46.6			KIR iP	18 55 53.8
		El Salvador (h = 150 km).				Taiwan (h = 30 km).	
"	17	KIR eP	10 11 05	"	20	UPP iP	23 41 17.8
		South of Alaska (h = N).				KIR iP	23 41 28.2
"	17	KIR iPKP1	19 01 38.8			UME iP	23 41 26.6
		UME iPKP1	19 01 46.8			Near coast of Venezuela	
		North Island, New Zealand				(h = 20 km).	
		(h = 60 km).		"	21	UPP iP	00 07 00.1
"	17	UPP iP	21 27 48.3			KIR iP	00 07 10.1
		UME iP	21 28 27.2				micr sec
		Greece (h = 10 km).				P Z'	0.2 1.3
"	18	KIR iP	09 27 20.9			UME iP	00 07 08.5
		Mindano, Philippine Islands				Near coast of Venezuela	
		(h = 90 km).		"	22	UPP iP	03 49 45.1
"	18	UME iP	11 41 23.8			KIR iP	03 49 14.3
		United Kingdom (h = 10 km).				UME iP	03 49 27.4
"	18	UPP iPKP	13 48 43.3			Bonin Islands region	
		KIR iPKP	13 48 58.4 C	"	22	UPP iP	09 57 34.5
		South Sandwich Islands region				KIR iP	09 56 57.3
		(h = 120 km).					micr sec
"	18	KIR iP	17 41 59.9			P Z'	0.1 1.0
		East of Severnaya Zemlya				UME iP	09 57 17.9
		(h = 10 km).				Western Idaho (h = 10 km).	
"	18	UPP iP	20 03 03.6	"	22	UME iPKP	09 25 44.4
		KIR iP	20 02 46.5			i	09 26 28.1
		Mindanao, Philippine Islands				New Britain region	
		(h = 110 km).		"	22	UPP iP	18 08 24.9 C
"	19	KIR iP	00 20 20.3				micr sec
		South of Java (h = N).				P Z'	0.1 0.5
"	19	KIR iP	11 44 26.0			KIR iP	18 08 34.9 C
		South of Java (h = N).					micr sec
"	20	UPP iP	01 25 11.4			P Z'	0.3 0.8
		ipP	01 25 33.1			UME iP	18 08 24.5 C
		KIR iP	01 24 52.4			Hindu Kush (h = 140 km).	
			micr sec			m = 5.9 (UPP, KIR).	
		P Z'	0.1 1.0	"	22	UPP Mx	19 01
		UME iP	01 24 59.5				micr sec
		Samar, Philippine Islands				Mx Z	3.0 22
		(h = 90 km).				KIR Mx	19 04
							micr sec
						Mx Z	3.4 19

(cont.)

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984		1984	
Aug.	22	(cont.) Near coast of Nicaragua (h = 60 km). M = 5.8 (UPP,KIR). M not corrected for focal depth.	Aug. 25 (cont.) UPP micr sec P Z' 0.1 0.7 i Z' 0.1 0.7 KIR iP 19 04 56.4 C micr sec P Z' 0.3 1.4 UME iP 19 05 07.6 Western Siberia. m = 5.6 (UPP,KIR). Underground explosion.
"	22	KIR iP 19 31 39.0 Luzon, Philippine Islands (h = 50 km).	" 25 UPP iSg1 19 43 23.5 KIR iPg1 19 39 20.7 D iSg1 19 39 25.3 UME iPg1 19 40 24.9 iSg1 19 41 17.0 UDD iSg1 19 43 28.3 MYV iPg1 19 40 49.2 iSg1 19 42 00.0 Lapland, Sweden, 67.9°N, 19.5°E. Origin time = 19 39 14. M _L (UPP) = 3.1 (0.18) 5. Felt.
"	22	UPP iP 23 39 18.0 KIR iP 23 38 27.7 UME iP 23 38 52.8 Kuril Islands (h = 130 km).	" 25 UPP iSg1 20 11 35.5 UDD iSg1 20 10 32.9 Southwestern Norway, near 61°N, 6°E. Origin time = 20 08 35. Solution from Norwegian station readings.
"	23	UPP Mx 00 47 micr sec Mx Z 1.2 18 KIR Mx 00 44 micr sec Mx Z 1.2 16 Near coast of Nicaragua (h = 60 km). M = 5.4 (UPP,KIR). M not corrected for focal depth.	" 25 UPP iP 20 48 59.2 micr sec P Z' 0.1 1.0 KIR iP 20 49 43.6 micr sec P Z' 0.1 1.0 UME iP 20 49 21.0 Tanzania (h = 10 km). m = 5.9 (UPP,KIR).
"	23	UPP eP 20 01 55 micr sec Mx Z 8.3 24 KIR iP 20 01 50.8 micr sec Mx Z 4.3 16 UME iP 20 01 59.9 iS 20 12 28 Near coast of Nicaragua (h = 55 km). M = 6.0 (UPP,KIR). M not corrected for focal depth.	" 25 KIR iPg1 21 35 37.2 iSg1 21 35 41.8 UME iSg1 21 37 34.4 Lapland, Sweden, 67.9°N, 19.5°E. Origin time = 21 35 31. M _L (UPP) = 2.6 1. Felt.
"	23	UPP iPKP1 23 34 45.8 D KIR e(PKP) 23 34 24 iPKP 23 34 33.4 UME iPKP1 23 34 31.7 Kermadec Islands region (h = 430 km).	" 26 UPP iP 03 34 29.9 KIR iP 03 32 55.3 UME iP 03 33 44.2
"	24	UPP iP 06 08 27.7 KIR iP 06 09 25.7 UME iP 06 08 53.4 Dead Sea region (h = 25 km).	
"	25	UPP iP 19 05 33.5 i 19 05 44.3 (cont.)	

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984

Aug. 30 KIR iPKP1 16 25 41.6
 i 16 25 48.3
 micr sec
 PKP1 Z' 0.3 1.6
 i Z' 0.3 1.0
 UME iPKP1 16 25 50.5
 South of Kermadec Islands
 (h = N).

" 31 KIR iP 04 55 33.3
 micr sec
 P Z' 0.4 1.6
 UME iP 04 55 40.7
 Near coast of Nicaragua
 (h = 40 km).

" 31 KIR iP 13 23 55.7
 UME iP 13 24 25.7
 Northern Yukon Territory,
 Canada (h = N).

" 31 UPP micr sec
 Mx Z 7.7 21
 KIR iPKP 16 01 13.5
 micr sec
 PKP Z' 0.1 1.0
 Mx Z 5.7 20
 UME iPKP 16 01 19.0
 Vanuatu Islands region
 (h = 30 km).
 M = 6.4 (UPP,KIR).

" 31 UPP iP 19 58 33.6
 iS 20 08 50
 micr sec
 Mx Z 3.6 22
 KIR iP 19 58 22.0
 i 19 58 24.1
 iP 19 58 52.0
 micr sec
 i Z' 0.7 1.6
 UME iP 19 58 31.3
 iS 20 08 46
 Chiapas, Mexico (h = 120 km).

" 31 UPP iP 21 07 02.6
 micr sec
 P Z' 0.2 1.4
 KIR iP 21 07 34.8
 micr sec
 P Z' 0.2 1.4
 UME eP 21 07 22
 Central Mid-Atlantic Ridge
 (h = 10 km).
 m = 6.0 (UPP,KIR).

April 8, 1986

Conny Holmqvist
 Fekadu Kebede
 Ota Kulhánek
 Klaus Meyer

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Sep.	4	UPP iP	01 10 40.3	Sep.	6	KIR iP	22 29 30.4
		Greece-Albania border region (h = 55 km).				UME iP	22 29 07.5
						Southern Iran (h = N).	
"	4	UPP iP	05 32 14.6	"	7	UPP iP	00 48 36.4
		KIR iP	05 31 56.0			iS	00 51 45
		Southern Xinjiang, China (h = N).					micr sec
						Mx	Z 8.5 14
						KIR iP	00 50 02.7
							micr sec
"	4	KIR iP	05 56 10.8			P	Z' 0.5 1.9
		UME iP	05 56 19.8			Mx	Z 4.3 16
		Near west coast of Honshu, Japan (h = 30 km).				UME iP	00 49 21.0
						iS	00 53 10
"	4	KIR eP	13 19 37			Yugoslavia (h = 15 km).	
		Southwestern Ryukyu Islands (h = 70 km).				M = 5.1 (UPP,KIR).	
"	5	KIR iP	03 36 47.6	"	7	UPP iP	11 17 56.1
		i	03 36 56.3			KIR eP	11 18 31
		UME iP	03 37 05.8			Southern Iran (h = N).	
		i	03 37 14.6	"	7	UPP Mx	16 23
		Off east coast of Honshu, Japan (h = 30 km).					micr sec
"	5	KIR iPKP1	08 36 16.5			Mx	Z 2.4 25
		iSKP1	08 38 46.0			KIR Mx	16 28
		UME iPKP	08 36 17.2				micr sec
		iSKP1	08 38 57.3			Mx	Z 1.4 17
		Fiji Islands region (h = 620 km).				Southeast India rise (h = 10 km).	
"	5	KIR eP	14 42 29			M = 5.8 (UPP,KIR).	
		Afghanistan-USSR border region (h = N).		"	7	UPP iPKP1	19 50 30.9
"	5	UPP iP	23 54 00.6			iPKP2	19 50 35.0
		UME eP	23 53 34			UME iPKP1	19 50 19.4
		Kuril Islands (h = N).				Kermadec Islands (h = N).	
"	6	UPP Mx	09 43	"	8	UPP iP	01 10 20.4
			micr sec			KIR iP	01 09 46.4
		Mx	Z 1.3 10			UME iP	01 10 05.8
		KIR Mx	09 48			Wyoming (h = 20 km).	
			micr sec	"	8	UPP iP	06 27 45.2
		Mx	Z 0.8 12			KIR iP	06 27 07.4
		Yugoslavia (h = 10 km).					micr sec
		M = 4.5 (UPP,KIR).				P	Z' 0.1 1.0
"	6	UPP Mx	21 19			UME iP	06 27 28.9
			micr sec			Western Idaho (h = 10 km).	
		Mx	Z 0.7 17	"	8	UPP ePKP2	23 18 34
		KIR Mx	21 19			Kermadec Islands (h = 60 km).	
			micr sec	"	8	KIR iP	23 49 13.4
		Mx	Z 1.4 15			Bonin Islands region (h = 60 km).	
		Gulf of California (h = 10 km).					
		M = 5.3 (UPP,KIR).					

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984						
Sep.	9	UPP	iPKP2	02 49 50.5	Sep.	10	UME	iPKP1	02 49 14.9	
		KIR	ePKP1	02 49 22			South of Kermadec Islands (h = N).			
		UME	iPKP1	02 49 31.6						
		South of Kermadec Islands (h = N).				"	10	UPP	iP	03 25 57.1
"	9	KIR	iP	03 05 45.9				i	03 25 58.6	
		UME	iP	03 05 46.9				i	03 26 05.3	
		Eastern Kazakh SSR. Underground explosion.						iS	03 35 38	
									micr sec	
"	9	UDD	iSg1	06 42 39.5			KIR	iP	03 25 17.0	
		Southwestern Norway, near 61°N, 6°E.						i	03 25 19.4	
		Origin time = 06 40 42						iP'P'	03 53 30.7	
		Solution from Norwegian station readings.							micr sec	
								i	Z' 1.0 2.0	
"	9	UPP	iPKP	07 18 17.7				Mx	Z 24 17	
		UME	iPKP	07 18 08.3						
		South of Kermadec Islands (h = 50 km).						UME	iP	03 25 41.0
								iS	03 35 00	
								Off coast of northern California (h = 10 km). m = 6.6, M = 6.7 (UPP,KIR).		
"	9	KIR	iP	12 24 12.4	"	10	KIR	iP	05 26 36.8	
"	9	KIR	iP	13 13 27.3			Kashmir-Xinjiang border region (h = 55 km).			
				micr sec						
			P	Z' 0.1 0.8	"	10	UPP	iP	21 23 43.1	
			Mx	Z 2.2 15			KIR	iP	21 24 13.9	
		KIR	iP	13 14 06.3 D			Southern Iran (h = N).			
				micr sec						
			P	Z' 0.3 1.5	"	11	KIR	iP	00 03 39.0	
			Mx	Z 0.9 13			Off coast of northern California (h = 10 km).			
		UME	iP	13 13 50.6 D	"	11	UPP	iPKP	07 35 32.1	
		Azores Island region (h = 10 km).						iSKP1	07 38 44.4	
		m = 5.6, M = 5.0 (UPP,KIR).					KIR	iPKP	07 35 17.8	
"	9	UPP	iPKP1	18 45 22.2					micr sec	
			i	18 45 30.4				PKP	Z' 0.2 1.0	
		UME	iPKP1	18 45 12.2			UME	iPKP	07 35 23.6	
		South of Kermadec Islands (h = 80 km).					Vanuatu Islands (h = 130 km).			
"	9	UPP	iPKP1	20 26 46.7	"	11	KIR	i(P)	21 14 07.1	
		South of Fiji Islands (h = N).			"	12	UPP	iP	18 08 44.5	
"	10	UME	iPKP1	01 17 54.4			KIR	iP	18 09 11.6 C	
		South of Kermadec Islands (h = 70 km).							micr sec	
							P	Z' 0.1 0.9		
							Southern Iran (h = N).			
"	10	UPP	iPKP2	02 17 16.5	"	12	KIR	iP	22 09 14.2	
		KIR	iPKP1	02 16 48.0			East Central Pacific Ocean (h = 10 km).			
		UME	iPKP2	02 16 59.4						
		South of Kermadec Islands (h = N).								

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Sep.	13	UPP	Mx	08 29			
				micr	sec		
			Mx	Z 1.8	19		
		KIR	Mx	08 30			
				micr	sec		
			Mx	Z 1.1	15		
		Near coast of Nicaragua (h = 55 km). M = 5.5 (UPP,KIR). M not corrected for focal depth.					
"	13	KIR	iP	11 33	32.1	C	
"	13	KIR	iP	14 09	43.7		
		UME	iP	14 09	58.2		
		Bonin Islands region (h = 25 km).					
"	13	KIR	iP	14 11	14.8		
		UME	iP	14 11	34.6		
		Southern Nevada. Underground explosion.					
"	13	UME	iP	21 30	47.3		
"	13	UME	iP	23 36	46.7		
"	14	UPP	iP	00 00	18.5		
			i	00 00	23.9		
			iS	00 09	42		
				micr	sec		
			P	Z' 0.3	1.2		
			Mx	Z 24	18		
		KIR	iP	23 59	40.3		
				micr	sec		
			P	Z' 1.5	2.5		
			Mx	Z 23	16		
		UME	iP	03 59	56.3		
			iS	00 09	02		
		Honshu, Japan (h = 10 km). m = 6.4, M = 6.6 (UPP,KIR).					
"	14	UME	iP	00 26	59.9		
"	14	KIR	iP	03 14	13.3		
		Mindanao, Philippine Islands (h = 45 km).					
"	14	UME	iPKP1	07 28	46.2		
		South of Kermadec Islands (h = N).					
"	14	UPP	ePKP2	09 58	36		
		UME	iPKP1	09 58	10.5		
		South of Kermadec Islands (h = N).					
Sep.	14	UPP	iP	22 25	59.2		
			iS	22 35	22		
				micr	sec		
			P	Z' 0.1	1.0		
			Mx	Z 3.0	16		
		KIR	iP	22 25	21.9		
				micr	sec		
			Mx	Z 2.7	15		
		UME	iP	22 25	38.2	C	
			iS	22 34	45		
		Honshu, Japan (h = 10 km). M = 5.7 (UPP,KIR).					
"	14	UPP	iP	22 50	39.8		
		KIR	iP	22 50	03.5		
		UME	iP	22 50	18.9		
		Honshu, Japan (h = 10 km).					
"	15	UPP	iPKP1	11 17	49.3		
		KIR	iPKP	11 17	48.0		
		UME	iPKP	11 17	49.5		
		Fiji Islands region (h = 600 km).					
"	15	UME	iP	19 21	15.3		
"	15	KIR	iP	20 04	46.6		
		UME	iP	20 05	00.1		
		East Central Pacific Ocean (h = 10 km).					
"	15	UME	iP	23 24	43.5		
		Caribbean Sea (h = 10 km).					
"	16	UPP	iP	00 38	49.9		
		KIR	iP	00 38	34.0	C	
				micr	sec		
			P	Z' 0.1	1.0		
		UME	iP	00 38	39.5		
		Talaud Islands (h = 180 km).					
"	16	UPP	ipP	01 36	30.1		
		KIR	eP	01 36	13		
		Burma-India border region (h = 40 km).					
"	16	UME	iP	03 14	32.1		
"	16	UPP	IPKP1	07 27	34.8		
				micr	sec		
			Mx	Z 1.3	16		
		KIR	ePKP	07 27	19		
		UME	iPKP1	07 27	22.7		
		South of Kermadec Islands (h = 10 km).					

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Sep.	18	KIR UME Honshu, Japan (h = 120 km).	iP iP	05 48 22.8 05 48 40.2			
"	18	UPP KIR UME Turkey (h = 10 km). m = 5.5, M = 5.2 (UPP,KIR).	iP iS P Mx iP P Mx iP iS	13 31 19.6 13 35 42 micr sec Z' 0.1 1.0 Z 4.8 18 13 32 07.2 micr sec Z' 0.1 1.0 Z 3.9 12 13 31 38.0 13 36 12			
"	18	UPP KIR UME Off east coast of Honshu (h = 50 km). m = 6.9, M = 7.0 (UPP,KIR).	iP iS P Mx iP P Mx iP iS	17 14 25.3 D 17 24 03 micr sec Z' 1.6 1.0 Z 94 18 17 13 48.1 D micr sec 1.1 1.0 Z 56 18 17 14 04.6 D 17 23 18			
"	18	UME South of Honshu, Japan (h = N).	iP i	21 31 34.1 21 31 44.5			
"	19	KIR Chagos Archipelago region (h = 10 km).	iP	00 34 17.8			
"	19	KIR	iP	00 37 07.5			
"	19	UPP KIR UME Off east coast of Honshu, Japan (h = 45 km). m = 5.8, M = 5.9 (UPP,KIR).	iP iS P Mx iP P Mx iP iS	01 32 37.6 D 01 42 16 micr sec Z' 0.2 1.2 Z 6.1 17 01 32 00.4 D micr sec Z' 0.1 1.4 Z 4.6 16 01 32 16.9 D 01 41 38			
Sep.	19	UPP KIR UME South of Kermadec Islands (h = N).	iPKP1 ePKP iPKP1	04 09 58.0 04 09 40 04 09 47.7			
"	19	UPP KIR UME South of Kermadec Island (h = N). M = 5.9 (UPP,KIR).	iPKP1 Mx ePKP Mx iPKP1	04 52 42.5 micr sec Z 2.7 22 04 52 24 micr sec Z 1.0 17 04 52 31.8			
"	19	UME Off east coast of Honshu, Japan (h = 45 km).	iP	08 30 24.7			
"	19	KIR Central Mid-Atlantic Ridge (h = 10 km).	iP	08 44 00.6			
"	19	KIR UME Bonin Islands region (h = 450 km).	iP iP	08 52 25.9 08 52 39.4			
"	19	UPP UME Kermadec Islands region (h = N).	iPKP2 iPKP1	20 43 23.1 20 43 04.6			
"	19	UME Off east coast of Honshu, Japan (h = 30 km).	iP	23 21 17.3			
"	20	UPP KIR UME Southern Alaska (h = 20 km).	iP iP P iP	04 27 26.4 04 26 31.5 C micr sec Z' 0.2 1.0 04 27 00.0 C			
"	20	KIR P Southern Alaska (h = 25 km).	iP P Z'	04 37 10.1 micr sec Z' 0.1 1.0			
"	20	UME UPP South of Fiji Islands (h = 490 km).	iP iPKP1	09 53 34.4 13 02 57.0			

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984							
Sep.	24	UME	iP	19 44	43.8	Sep.	27	KIR	i(P)	21 45	43.4
"	24	UPP	iP	23 29	17.3	"	28	UPP	iPKP1	00 23	08.2
					micr sec				i	00 35	12
			P	Z'	0.1 1.0				iSS	00 45	02
		KIR	iP	23 28	40.4						micr sec
		UME	iP	23 28	56.6 D			KIR	Mx Z	36 21	
		Off east coast of Honshu, Japan (h = 45 km).							i(PKP)	00 22	51.3
"	25	KIR	ePKP	03 25	22				iPKP	00 22	54.8
		UME	iPKP	03 25	30.6				iSKP1	00 25	33.2
		South of Fiji Islands (h = 580 km).									micr sec
"	25	UME	iP	04 50	44.8				PKP Z'	1.8 2.7	
		Off east coast of Honshu, Japan (h = N).							Mx Z	9.4 19	
"	25	KIR	iP	12 52	57.0			UME	iPKP1	00 22	57.4
		UME	iP	12 53	10.1						South of Tonga Islands (h = 20 km). M = 6.9 (UPP,KIR).
		Volcano Islands (h = 150 km).				"	28	UME	iPKP1	02 22	50.6
"	26	UPP	iP	01 51	56.2						Kermadec Islands region (h = N).
					micr sec	"	28	UPP	iPKP1	03 22	24.5
			Mx Z	1.4 17				KIR	i(PKP)	03 22	06.9
		KIR	iP	01 51	38.3				iPKP	03 22	18.4
			ipP	01 51	47.2				iSKP1	03 25	09.9
					micr sec			UME	i(PKP)	03 22	14.4
			P Z'	0.1 1.0					iPKP	03 22	19.3
			Mx Z	0.8 15					iSKP1	03 25	22.7
		UME	iP	01 51	44.4						Fiji Islands region (h = 360 km).
			ipP	01 51	51.2	"	28	UPP	iPKP1	06 13	23.2
		Luzon, Philippine Islands. h = 30 km (KIR,UME). M = 5.4 (UPP,KIR).									Kermadec Islands region (h = N).
"	26	UPP	iPKP1	11 52	15.5	"	28	UPP	iSg1	08 02	30.2
		KIR	iPKP	11 52	06.1			KIR	iSg1	08 04	06.4
		South of Fiji Islands (h = 520 km).						UME	iPg1	08 01	45.5
"	26	KIR	iP	11 54	47.6				iSg1	08 02	10.4
		UME	iP	11 54	58.5			MYV	iPg1	08 01	42.4
									iSg1	08 02	04.2
"	26	KIR	iP	22 35	38.8			Off coast of Medelpad, Sweden, 62.3°N, 17.8°E. Origin time = 08 01 13. M _L (UPP) 2.3 (0.41) 2.			
		Mariana Islands (h = 35 km).				"	28	UPP	iPP	11 02	34.1
"	27	UPP	iP	11 40	37.3						micr sec
		KIR	iP	11 40	52.1				Mx Z	2.6 19	
		Uzbek SSR (h = N).						KIR	ePKP	10 59	48
"	27	KIR	iP	16 15	27.9				iPP	11 02	14.7
		Western Iran (h = N).									micr sec
"	27	i(P)		21 18	30.7				Mx Z	3.1 21	
								UME	ePP	11 02	31
								Easter Island region (h = 10 km). M = 6.0 (UPP,KIR).			

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

Uppsala	(UPP)	59 ⁰ 51.5'N,	17 ⁰ 37.6'E;	h = 14 m
Kiruna	(KIR)	67 ⁰ 50.4'N,	20 ⁰ 25.0'E;	h = 390 m
Umeå	(UME)	63 ⁰ 48.9'N,	20 ⁰ 14.2'E;	h = 16 m
Uddeholm	(UDD)	60 ⁰ 05.4'N,	13 ⁰ 36.4'E;	h = 240 m
Delary	(DEL)	56 ⁰ 28.2'N,	12 ⁰ 52.2'E;	h = 150 m
Myrviken	(MYV)	62 ⁰ 56.5'N,	14 ⁰ 20.8'E;	h = 345 m

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1984					1984				
Oct.	1	UPP e	09 39 10		Oct.	2	(cont.)		
		KIR eP	09 38 26				KIR iP	03 28 32.1	
		i	09 38 42.8					micr sec	
		UME iP	09 38 36.9				Mx Z	1.7 14	
		i	09 38 49.0				UME iP	03 28 15.9	
		Near east coast of Honshu,					Pakistan (h = 5 km).		
		Japan (h = 70 km).							
"	1	UPP iPKP1	09 50 14.9		"	2	UPP iP	04 54 23.3 C	
		KIR iPKP1	09 49 53.3					micr sec	
		UME iPKP1	09 50 04.6				P Z'	0.2 1.0	
		South of Kermadec Islands					Mx Z	3.2 11	
		(h = N).					KIR iP	04 53 54.7 C	
							i	04 54 04.9	
								micr sec	
"	1	UPP iPKP2	12 23 26.7				P Z'	0.2 1.0	
		i	12 23 37.7				Mx Z	1.1 13	
		UME iPKP1	12 23 21.6				UME iP	04 54 05.7 C	
		i	12 23 29.1				i	04 54 14.4	
		Kermadec Islands (h = 220 km).					Ryukyu Islands (h = 30 km).		
							m = 6.1, M = 5.7 (UPP,KIR).		
"	2	UPP	micr sec		"	2	UPP eP	05 32 06	
		Mx	3.8 23				Ryukyu Islands (h = N).		
		KIR iPKP	01 56 13.1						
			micr sec						
		PKP Z'	0.1 1.1						
		Mx Z	1.9 20						
		UME iPKP	01 56 20.4 C						
		Vanuatu Islands (h = 5 km).							
		M = 6.0 (UPP,KIR).							
"	2	UPP iP	02 32 11.2		"	2	KIR ePKP	20 00 49	
		KIR eP	02 32 32				Vanuatu Islands (h = 25 km).		
		UME iP	02 32 16.9						
		i	02 32 20.4						
		Pakistan (h = N).							
"	2	UPP iP	03 28 10.2						
			micr sec						
		P Z'	0.1 0.8						
		(cont.)							

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984					
Oct.	3	UPP	iP	06 08 24.9	Oct.	4	UPP	iP	16 45 56.0
				micr sec					micr sec
		P	Z'	0.1 0.6			Mx	Z	11 20
		KIR	iP	06 08 09.6 C			KIR	iP	16 45 45.2
				micr sec				i	16 45 56.8
		P	Z'	0.1 1.0					micr sec
		UME	iP	06 08 11.3			Mx	Z	6.0 19
		Southern Xinjiang, China.					UME	iP	16 45 52.9
		m = 5.8 (UPP,KIR).						iPP	16 50 01.8
		Underground explosion.					Sumbawa Island region (h = 35 km). M = 6.3 (UPP,KIR).		
"	3	KIR	eP	21 57 31	"	4	UPP	Mx	19 31
			i	21 57 36.7					micr sec
		Southwest of Sumatera (h = N).					Mx	Z	1.0 13
"	4	UPP	iP	00 10 10.8			KIR	Mx	19 33
			i	00 10 16.0					micr sec
		KIR	iP	00 10 58.0			Mx	Z	0.8 15
		UME	iP	00 11 07.0 C			North Atlantic ridge (h = 10 km). M = 4.6 (UPP,KIR).		
			i	00 11 16.5					
"	4	KIR	iPKP1	00 43 57.1	"	4	UPP	iP	22 34 03.8
		UME	ePKP	00 43 52				i	22 34 09.4
			iPKP1	00 43 56.9			KIR	iP	22 34 02.3
		West of Macquarie Island (h = 10 km).						i	22 34 06.5
"	4	UPP	iP	03 09 05.8					micr sec
			ipP	03 09 25.2			Mx	Z	1.1 15
		KIR	iP	03 08 32.3			UME	iP	22 33 59.8
			ipP	03 08 51.1				i	22 34 03.9
		UME	iP	03 08 46.5			South Burma (h = 20 km).		
			ipP	03 09 05.8	"	5	UPP	iP	02 53 39.1
		South of Honshu, Japan. h = 70 km (UPP,KIR,UME).					KIR	iP	02 53 19.4
"	4	UME	iP	04 31 50.5				i	02 53 28.6
		Off east coast of Honshu, Japan (h = 30 km).					UME	iP	02 53 25.5
"	4	UPP	iPKP1	10 01 20.1			Philippine Islands region (h = 30 km).		
		South of Fiji Islands (h = 90 km).		"	5	UPP	iP	03 35 42.5	
"	4	UPP	iP	10 20 05.9 C			KIR	iP	03 35 13.4
			eS	10 24 03			Ryukyu Islands (h = 35 km).		
				micr sec	"	5	UME	iP	04 43 47.9
		P	Z'	0.2 0.7	"	5	KIR	iP	10 01 28.6 D
		Mx	Z	1.6 12					micr sec
		KIR	iP	10 21 19.2				P	0.1 1.0
				micr sec			UME	iP	10 01 42.4 D
		Mx	Z	0.6 12			East Central Pacific Ocean (h = 10 km).		
		UME	iP	10 20 43.6	"	5	UPP	iP	10 42 19.8 D
			i	10 20 46.3					micr sec
			i	10 20 57.9				P	Z' 0.1 1.0
		Ionian Sea (h = 40 km). M = 4.6 (UPP,KIR).					(cont.)		

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Oct.	5	(cont.)		Oct.	6	UPP iSg1	05 28 11.9
		KIR iP	10 42 31.2 D			UDD iSg1	05 27 05.5
			micr sec			Southwestern Norway, near	
		P Z'	0.3 1.0			59 1/4°N, 6 1/2°E.	
		UME iP	10 42 28.5 D			Origin time = 05 25 15.	
		Windward Islands (h = 60 km).				M ₁ (UPP) = 2.4 1.	
		m = 5.9 (UPP,KIR).				By combination with Norwegian	
"	5	UPP iP	15 57 19.7	"	7	UDD iSg1	07 21 21.3
		KIR iP	15 56 26.4			Southern Norway, near 60°N,	
		Andreanof Islands, Aleutian				7°E.	
		Is. (h = 70 km).				Origin time = 07 18 54.	
"	5	UPP iP	17 18 27.2			Solution from NORSAR bulletin.	
		KIR eP	17 17 56	"	8	UPP iP	13 01 11.5
		UME eP	17 18 09			KIR iP	13 00 37.1
		i	17 18 12.7			UME iP	13 00 51.6
		Volcano Islands region				South of Honshu, Japan	
		(h = N).				(h = 360 km).	
"	5	KIR iPKP	19 27 41.3	"	9	UPP eP	02 17 24
		UME iPKP	19 27 48.6			Southern Greece (h = 55 km).	
		New Britain region		"	9	UPP ePKP2	03 01 13
		(h = 55 km).				UME iPKP1	03 00 50.0
"	5	UPP iP	21 03 36.1			i	03 00 53.0
		iS	21 07 26			South of Kermadec Islands	
			micr sec			(h = N).	
		P Z'	0.1 1.0	"	9	UPP iP	04 35 44.4
		Mx Z	5.8 11			iS	04 39 53
		KIR iP	21 04 49.1				micr sec
			micr sec			P Z'	0.1 1.0
		Mx Z	3.0 11			Mx Z	3.5 9
		UME iP	21 04 12.5			KIR iP	04 36 58.0
		iS	21 08 35				micr sec
		Aegean Sea (h = 10 km).				P Z'	0.1 1.1
		M = 5.2 (UPP,KIR).				Mx Z	1.8 11
"	6	UPP iP	02 10 29.5			UME iP	04 36 21.8
		KIR iP	02 09 54.2 D			iS	04 41 00
		UME iP	02 10 09.6 D			Southern Greece (h = 25 km).	
		South of Honshu, Japan				m = 5.4, M = 5.1 (UPP,KIR).	
		(h = 220 km).		"	9	UPP eP	08 17 18
"	6	UPP Mx	04 08			KIR iP	08 18 28.2
			micr sec			UME iP	08 17 55.5
		Mx Z	2.7 22			Southern Greece (h = 45 km).	
		KIR Mx	04 06	"	9	UPP iP	10 04 42.5
			micr sec				micr sec
		Mx Z	1.6 21			P Z'	0.1 1.0
		Samoa Islands region				KIR iP	10 04 09.6
		(h = N).				UME iP	10 04 23.9
		M = 5.8 (UPP,KIR).				South of Honshu, Japan	
"	6	UME eP	04 56 54			(h = 420 km).	
		Hindu Kush region					
		(h = 160 km).					

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Oct.	9	KIR ip	23 14 41.6	Oct.	12	UPP ip	10 00 11.1 D
		UME ip	23 14 55.0			KIR ip	09 59 22.6 D
		Golf of California (h = 10 km).					micr sec
"	10	UME iPKP1	12 37 43.1			P Z'	0.1 0.9
		Keramdec Islands region (h = N).				UME ip	09 59 45.0 D
"	10	UPP iPKP1	16 48 18.2	"	12	UPP Mx	19 36
		UME iPKP1	16 48 07.3				micr sec
		i	16 49 54.0			Mx Z	10 24
		Kermadec Islands region (h = N). The second phase at Umeå (UME) may indicate a new event.				KIR Mx	19 33
"	10	UPP iPKP1	19 24 01.2				micr sec
		ipPKP	19 26 42.6			Mx Z	5.8 23
		i	19 26 52.5			Fiji Islands (h = 15 km). M = 6.4 (UPP,KIR).	
		KIR iPKP	19 23 54.4	"	13	UPP Mx	06 45
		ipPKP	19 26 18.0				micr sec
		UME i(PKP)	19 23 48.0			Mx Z	11 24
		ipPKP	19 24 01.8			KIR Mx	06 43
		ipPKP	19 26 30.1				micr sec
		i	19 26 34.7			Mx Z	3.3 20
		Fiji Islands region (h = 680 km).				Fiji Islands (h = 10 km). M = 6.3 (UPP,KIR).	
"	10	UPP ip	21 16 16.6	"	13	UPP ip	12 02 37.6
		Southern Greece (h = 100 km).				KIR ip	12 02 15.8
"	10	UPP i(P)	23 55 43.6			Taiwan region (h = 70 km).	
"	11	UME iPKP1	05 10 56.4	"	13	UPP ip	17 31 03.2
		South of Kermadec Islands (h = N).				iS	17 41 30
"	11	UPP iPKP1	08 41 08.1				micr sec
		ipPKP2	08 41 17.3			Mx Z	8.1 20
		KIR iPKP1	08 40 49.0			KIR ip	17 30 49.1
		UME iPKP1	08 40 58.7				mic sec
		South of Kermadec Islands (h = 140 km).				P Z'	0.6 2.0
"	11	UPP iSg1	10 48 52.4			Mx Z	3.1 16
		UDD iSg1	10 47 48.4			UME ip	17 30 57.6
"	11	UME ip	13 21 15.9			Near coast of Oaxaca, Mexico (h = 30 km). M = 6.0 (UPP,KIR).	
		Near east coast of Honshu, Japan (h = 55 km).		"	13	UPP ip	18 53 47.8
"	12	UPP ePKP1	01 10 33			KIR ip	18 52 55.2
		UME iPKP1	01 10 21.4 D			UME ip	18 53 22.2
		i	01 10 32.9			Unimak Island region (h = N).	
		South of Kermadec Islands (h = N).		"	14	UPP ip	03 29 28.1 C
							micr sec
						P Z'	0.3 1.1
						KIR ip	03 28 40.1 C
							micr sec
						P Z'	0.4 1.5
						UME ip	03 29 02.4 C
						Kuril Islands (h = N). m = 6.2 (UPP,KIR).	

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984							
Oct.	14	KIR	iP	08 46 58.0	Oct.	18	UME	iP	21 53 36.8		
		UME	iP	08 46 54.1			Bonin Islands region (h = 510 km).				
		Northern Sumatera (h = 40 km).					"	19	UPP	eP	06 48 13
"	15	UPP	iP	05 55 31.1					Hindu Kush region (h = N).		
		KIR	iP	05 54 37.5			"	19	UPP	iPKP	14 56 58.2
		UME	iP	05 55 03.8					KIR	e(PKP)	14 56 40
		Fox Islands, Aleutian Islands (h = N).								iPKP	14 56 42.2
"	15	UPP	i(PKP)	10 40 01.2					UME	iPKP	14 56 48.6
			iPKP	10 40 13.4					Tonga Islands (h = 120 km).		
			iSKP	10 42 44.1			"	19	UPP	iPKP1	17 19 50.7
				micr sec						iPKP2	17 20 03.4
		Mx	Z	11 18					KIR	iPKP1	17 19 32.0
		KIR	e(PKP)	10 39 46					UME	iPKP1	17 19 41.4
			iPKP	10 39 58.7					East of North Island, N.Z. (h = N).		
			ipPKP	10 40 33.0			"	19	UPP	iP	17 58 29.7
			iSKP	10 42 31.4					KIR	iP	17 58 14.7
				micr sec					UME	iP	17 58 19.1
		Mx	Z	3.4 17					Molucca Passage (h = 80 km).		
		UME	i(PKP)	10 39 54.4			"	19	UPP	iPKP1	20 19 38.6
			i(PKP)	10 39 58.4					KIR	ePKP1	20 19 19
			iPKP	10 40 05.4					Kermadec Islands (h = N).		
			ipPKP	10 40 39.4			"	19	UPP	iP	23 12 47.9
		Tonga Islands. h = 130 km (KIR,UME). M = 6.4 (UPP,KIR). M not corrected for focal depth.							KIR	iP	23 12 33.0
"	16	UPP	iP	19 03 46.9					UME	iP	23 12 42.4
		Afghanistan-USSR border region (h = 70 km).							Near coast of Guerrero, Mexico (h = 35 km).		
"	17	UPP	iP	09 21 28.3			"	20	UPP	eP	03 32 07
			i	09 22 01.2					KIR	eP	03 31 19
		UME	iP	09 21 02.3					Kuril Islands (h = N).		
		Kuril Islands (h = 200 km).					"	20	UPP	iPKP1	05 10 34.1
"	18	UPP	iP	09 51 39.5						iPKP2	05 10 45.4
			i	09 51 41.8					KIR	iPKP1	05 10 15.7
				micr sec						i	05 10 24.8
				i	Z'	0.4 1.5			UME	iPKP1	05 10 26.0
		KIR	iP	09 52 27.0					East of North Island, N.Z. (h = N).		
		UME	iP	09 51 59.2			"	20	KIR	iP	15 51 49.1
		Turkey (h = 60 km).							Fox Islands, Aleutian Islands (h = N).		
"	18	UPP	iP	15 41 19.2			"	20	UPP	iPKP1	21 40 25.9
		KIR	iP	15 40 46.9					KIR	iPKP	21 40 17.5
		UME	iP	15 41 05.9						iSKP1	21 42 51.6
		Wyoming (h = N).							Fiji Islands region (h = 580 km).		
"	18	UPP	iP	21 53 54.7							
		KIR	iP	21 53 23.9							
		(cont.)									

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1984				1984			
Oct.	21	KIR i UME iP	04 03 57.3 04 03 29.7	Oct.	24	UME iP	10 10 52.3
		Ascension Islands region (h = 10 km).				Kermadec Islands region (h = N).	
"	21	UPP iP KIR iP	18 09 45.3 18 10 31.9	"	24	UME iP	12 35 43.5 12 35 53.9
		Turkey (h = 30 km).		"	25	UPP iP i	06 34 25.5 06 34 27.4
"	21	KIR eP i UME iP i	19 03 08 19 03 16.1 19 03 48.6 19 03 57.0			P Z'	0.7 0.7
		North of Severnaya Zemlya (h = 10 km).				UME iP	06 33 32.9 C
"	22	UPP iP	15 46 44.5	"	25	UPP iP	07 09 33.4
		UPP iP	15 46 49.3			UME iP	07 08 58.5
		UME iP	15 46 31.2			i	07 09 08.4
		Kermadec Islands region (h = N).				Near east coast of Honshu, Japan (h = 60 km).	
"	22	UME iP	18 21 32.5	"	25	UPP iP	09 54 20.3
		South of Kermadec Islands (h = N).				iS	09 58 30
"	22	UPP iP	18 28 44.6			UME iP	09 54 56.8
		UME iP	18 29 23.2			Southern Greece (h = 45 km).	
		Tyrrhenian Sea (h = 380 km).		"	25	UPP iP	12 48 10.5
"	23	UPP i(P)	05 35 59.4			Andreanof Islands, Aleutian Is. (h = 55 km).	
"	23	UPP iP KIR iP	08 15 05.4 08 14 10.1	"	25	UPP iP	14 42 58.9
		Komandorsky Islands region (h = N).				iS	14 46 39.4
"	23	UPP iP	08 50 44.3				micr sec
		KIR iP	08 50 36.1			Mx Z	1.8 9
		Kazakh-Xinjiang border region (h = N).				KIR	micr sec
"	23	UPP iP	21 38 29.3			Mx Z	1.1 8
"	23	UPP iP	22 15 09.4			UME iP	14 43 39.2
		UME iP	22 15 06.3			iS	14 47 58
		Afghanistan (h = N).				Greece (h = N).	
"	23	UPP iP	22 42 09.5	"	26	UPP iP	07 56 20.4 D
		KIR iP	22 41 42.8				micr sec
		UME iP	22 41 51.2			P Z'	0.1 0.9
		Mariana Islands (h = 120 km).				UME iP	07 56 40.9 D
"	24	UPP iP	02 47 33.1			Zambia (h = 10 km). m = 5.8 (UPP,KIR).	
		UME iP	02 47 26.8	"	26	UPP iP	09 02 56.2
		iSKP1	02 50 18.7			iS	09 13 31
		South of Fiji Islands (h = 480 km).					micr sec
						Mx Z	9.2 20
						KIR	micr sec
						Mx Z	3.8 19
						UME iP	09 02 45.6
						iS	09 13 15
						Molucca Passage (h = 55 km). M = 6.1 (UPP,KIR). M not corrected for focal depth.	

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1984

Oct. 29 UME iPg1 23 49 22.6
 iSg1 23 49 26.9
 MYV iSg1 23 50 34.0
 Västerbotten, Sweden 63.6°N,
 19.7°E.
 Origin time = 23 49 17.
 By combination with Finnish
 station readings.

" 30 UPP iPKP 01 24 55.9
 iSKP1 01 27 35.1
 KIR e(PKP) 01 24 33
 iPKP 01 24 40.0
 iPP 01 26 43.9
 UME i(PKP) 01 24 43.4
 iPKP 01 24 46.3
 ipPKP 01 25 27.5
 Tonga Islands (h = 140 km).

" 30 UPP iP 14 44 04.3
 KIR iP 14 45 18.2
 UME iP 14 44 43.0 D
 Southern Italy (h = 270 km).

" 30 UPP iP 16 26 31.7
 UME iP 16 26 10.4
 Near east coast of Honshu,
 Japan (h = 70 km).

" 30 UPP iPKP2 17 40 26.5
 UME iPKP1 17 40 06.7
 Kermadec Islands region
 (h = N).

" 30 UPP iPKP1 20 53 25.9
 UME iPKP1 20 53 16.1 C
 Kermadec Islands region
 (h = N).

" 31 UPP iP 04 51 01.0
 micr sec
 P Z' 0.1 0.9
 KIR iP 04 50 07.2
 UME iP 04 50 31.9
 Rat Island, Aleutian Islands
 (h = 55 km).

June 6, 1986

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 SWEDEN

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

Uppsala	(UPP)	59 ⁰ 51.5'N,	17 ⁰ 37.6'E;	h = 14 m
Kiruna	(KIR)	67 ⁰ 50.4'N,	20 ⁰ 25.0'E;	h = 390 m
Umeå	(UME)	63 ⁰ 48.9'N,	20 ⁰ 14.2'E;	h = 16 m
Uddeholm	(UDD)	60 ⁰ 05.4'N,	13 ⁰ 36.4'E;	h = 240 m
Delary	(DEL)	56 ⁰ 28.2'N,	12 ⁰ 52.2'E;	h = 150 m
Myrviken	(MYV)	62 ⁰ 56.5'N,	14 ⁰ 20.8'E;	h = 345 m

NOVEMBER 1 - 30, 1984

1984					1984						
Nov.	1	UPP	iP	04 59 40.9 C	Nov.	1	(cont.)				
			ipP	04 59 44.5			UPP	micr	sec		
			i	04 59 48.4			P	Z'	0.5 1.4		
			iS	05 08 39.3			Mx	Z	33.9 20		
				micr sec			KIR	iP	18 53 05.7		
			P	Z' 0.1 1.0				micr sec			
			pP	Z' 1.9 1.5			P	Z'	0.4 1.4		
			Mx	Z 183.0 21			Mx	Z	17.8 21		
		KIR	iP	05 00 10.2			UME	iP	18 53 32.1		
			ipP	05 00 13.0			iS		19 01 30		
			i	05 00 17.6			Off east coast of Kamchatka				
				micr sec			(h = 50 km).				
			P	Z' 0.2 1.3			m = 6.3, M = 6.4 (UPP,KIR).				
			pP	Z' 1.5 2.0		"	2	UPP	iP	04 00 40.4	
			Mx	Z 60.8 21				KIR	iP	04 00 31.4	
		UME	iP	04 59 58.9				UME	iP	04 00 38.2	
			ipP	05 00 02.2			El Salvador (h = 70 km).				
			i	05 00 06.5			"	2	UPP	iP	05 03 13.3
			iS	05 09 02				KIR	iP	05 02 55.8	
		Central Mid-Atlantic Ridge.						UME	iP	05 03 01.6	
		h = 10 km (UPP,KIR,UME).					Mindanao, Philippine Islands				
		m = 6.8, M = 7.1 (UPP,KIR).					(h = 30 km).				
"	1	UPP	i(PKP)	09 46 30.1		"	2	UPP	iP	06 46 37.9	
			iPKP	09 46 34.2				KIR	iP	06 46 20.2	
		KIR	e(PKP)	09 46 22				UME	iP	06 46 25.3	
			iPKP	09 46 24.5			Mindanao, Philippine Islands				
		UME	i(PKP)	09 46 24.1			(h = 25 km).				
			iPKP	09 46 31.3			"	2	UDD	iSg1	13 03 30.5
		Tonga Islands (h = 220 km).					Off coast of southwestern				
"	1	UME	iP	11 44 36.6			Norway, near 62°N, 4°E.				
"	1	UPP	iP	18 54 01.0			Origin time = 13 00 56.				
			iS	19 02 24.3			M _L (UPP) = 2.4 1.				
			iP'iP'	19 23 10.4			By combination with Norwegian				
		(cont.)					station readings.				
							Probably earthquake.				

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Nov.	2	UPP iP	17 01 09.1	Nov.	6	(cont.)	
		KIR eP	17 00 26			UPP Mx	Z 4.7 24
		UME iP	17 00 44.0			KIR iP	08 12 05.1 C
		Hokkaido, Japan region (h = 100 km).					micr sec
						P	Z' 0.4 1.8
						Mx	Z 1.7 22
"	3	UDD iSg1	00 42 11.0			UME iP	08 11 52.1 C
		Off coast of southwestern Norway, near 61 3/4°N, 4 1/2°E.				iS	08 22 49
		Origin time = 00 39 41. By combination with Norwegian station readings. Probably earthquake.				Mid-Indian Rise (h = 10 km). m = 6.4, M = 5.7 (UPP,KIR).	
"	3	UME iP	16 01 43.5	"	6	UPP iPKP	10 03 14.3
		Honshu, Japan (h = 110 km).				UME iPKP	10 03 11.3
"	3	KIR iP	23 03 53.0			Tonga Islands (h = 230 km).	
		UME iP	23 04 43.2	"	6	UPP iP	15 22 24.7
		North of Svalbard (h = 10 km).		"	7	UPP iSg1	11 15 41.8
"	4	UME iPKP1	01 49 46.3			UDD iSg1	11 14 32.8
		South of Kermadec Islands (h = 35 km).				DEL iSg1	11 15 15.8
"	4	UPP iP	13 26 35.9			Southern Norway, near 59 1/2°N, 6 1/2°E.	
		KIR iP	13 26 39.2			Origin time = 11 12 39.	
		UME iP	13 26 40.7			M _L (UPP) = 2.3 1.	
		Northern Colombia (h = 160 km).				By combination with Norwegian station readings. Felt.	
"	4	UPP iP	17 46 18.1	"	8	UPP iP	13 12 57.9
		KIR iP	17 46 43.6			iS	13 21 52
		North Atlantic Ridge (h = 10 km).					micr sec
"	5	UPP iP	04 29 26.9			Mx	Z 2.4 22
		iS	04 38 56			KIR iP	13 12 03.1
		UME iP	04 29 43.1			UME iP	13 12 30.5
		iS	04 39 49			iS	13 21 01
		Ascension Island region (h = 10 km). M = 5.5 (UPP,KIR).				Fox Islands, Aleutian Islands (h = N).	
"	5	UPP iP	06 13 50.3	"	8	UPP iPKP1	13 36 31.1
		iPP	06 15 19.5			iPKP2	13 36 37.4
		UME iP	06 13 48.1			KIR ePKP1	13 36 10
		Afghanistan-USSR border region (h = N).				UME iPKP1	13 36 20.0
"	6	UPP iP	08 11 44.1			i	13 36 28.3
		iSKS	08 22 09			South of Kermadec Islands (h = N).	
		iS	08 22 31	"	8	UPP iPKP1	13 42 21.5
			micr sec			UME iPKP1	13 42 11.4
		P	Z' 0.4 1.6			South of Kermadec Islands (h = N).	
		(cont.)		"	9	UPP i(P)	09 14 48.7
				"	9	UME iPKP1	16 29 52.6
						South of Kermadec Islands (h = N).	

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1984				1984			
Nov.	10	UME iP	01 51 11.4	Nov.	12	UPP iPKP1	12 23 27.3
		Near s. coast of Honshu, Japan (h = 110 km).				UME iPKP	12 23 23.9
						South of Fiji Islands (h = 560 km).	
"	10	UPP iPKP1	04 44 20.2	"	12	KIR iPn	21 14 41.3
		UME iPKP	04 44 21.9			iSn	21 15 40.0
		Fiji Islands region (h = 580 km).				UME iPn	21 15 24.6
						iSn	21 16 54.8
"	10	UME iPdiff	06 34 53.6			UDD iPn	21 15 59.4
		Banda Sea (h = 160 km).				Norwegian Sea (h = 10 km).	
"	10	UME iP	08 41 44.9	"	12	KIR iP	23 16 10.9
		Near east coast of Honshu, Japan (h = 60 km).				UME iP	23 16 19.0
"	10	UPP iP	08 45 22.6	"	13	KIR iP	06 48 10.9 C
			micr sec			UME iP	06 48 03.9
		P	Z' 0.1 1.0			Tajik-Xinjiang border region (h = N).	
		Mx	Z 4.1 19	"	14	UPP iP	06 02 20.6 D
		KIR	micr sec				micr sec
		Mx	Z 1.1 10			P	Z' 0.7 1.4
		UME iP	08 45 18.6			KIR iP	06 02 02.6 D
		Iceland region (h = 10 km). M = 4.8 (UPP,KIR).				ipP	06 02 32.1
"	10	UPP iPKP2	15 14 08.2				micr sec
		UME iPKP2	15 13 55.8			P	Z' 0.5 1.0
		South of Kermadec Islands (h = N).				UME iP	06 02 07.4 D
"	11	UPP iP	00 54 18.8			Luzon, Philippine Islands (h = 120 km). m = 6.2 (UPP,KIR).	
		UME iP	00 53 59.5	"	14	UPP iP	10 06 55.6
		Bonin Islands region (h = N).				Turkey (h = 70 km).	
"	11	UPP iP	09 49 27.1	"	15	UPP i(PKP)	03 05 23.5
		UME iP	09 49 27.8			iPKP	03 05 33.1
		Uzbek SSR (h = N).				iSKP1	03 08 55.5
"	11	UPP iP	23 20 19.6				micr sec
			micr sec			PKP	Z' 0.4 1.4
		Mx	Z 1.1 20			Mx	Z 24.4 25
		Leyte, Philippine Islands (h = 30 km).				KIR i(PKP)	03 05 15.4
"	12	UPP iP	01 19 18.6			iPKP	03 05 18.4
			micr sec			iSKP1	03 08 31.7
		Mx	Z 1.6 23				micr sec
		Leyte, Philippine Islands (h = 35 km).				PKP	Z' 0.7 1.5
"	12	UPP iPKP1	11 10 18.1			Mx	Z 77 19
		South of Fiji Islands (h = 520 km).				UME i(PKP)	03 05 16.3
						iPKP	03 05 24.7
						iSKP1	03 08 43.7
						Loyalty Islands region (h = 110 km). M = 6.7 (UPP,KIR).	
"	12	UPP iP	03 34 15.1	"	15	UPP iP	03 34 15.1
		KIR iP	03 35 11.0			KIR iP	03 35 11.0
		Turkey (h = 40 km).				Turkey (h = 40 km).	

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984					
Nov.	15	UPP	iPKP1	06 11 08.2	Nov.	17	(cont.)		
			i	06 11 09.3			UME iP	07 02 00.3	
			iSKP1	06 14 19.2			i	07 02 08.3	
		KIR	iPKP	06 11 02.1			Northern Sumatera (h = N).		
			iSKP1	06 13 54.1			m = 7.2, M = 7.4 (UPP,KIR).		
		UME	i(PKP)	06 11 01.4	"	17	UPP eP	07 39 45	
			iPKP	06 11 08.3			KIR iP	07 39 43.0	
			iSKP1	06 14 06.2			UME iP	07 39 41.0	
		Fiji Islands region					Northern Sumatera (h = N).		
		(h = 350 km).							
"	15	UDD	eSg1	12 18 33	"	17	KIR iP	09 12 08.7	
		Southwestern coast of Norway,					Central Alaska (h = 5 km).		
		near 60°N, 5°E.							
		Origin time = 12 16 13.				"	17	UPP iP	10 31 50.7
		M _l (UPP) = 2.3 1.						micr sec	
		By combination with Norwegian					P	Z' 0.3 1.3	
		station readings.					Mx	Z 9.2 18	
		Probably earthquake.				KIR	iP	10 31 01.7	
								micr sec	
"	15	UDD	eSg1	12 19 05			P	Z' 0.1 1.0	
		Southwestern coast of Norway,					Mx	Z 4.6 16	
		near 60°N, 5°E.				UME	iP	10 31 24.0	
		Origin time = 12 16 45.				Kuril Islands (h = 45 km).			
		M _l (UPP) = 2.5 1.				m = 6.0, M = 5.9 (UPP,KIR).			
		By combination with Norwegian				"	17	UPP iP	11 23 09.9
		station readings.						micr sec	
		Probably earthquake.					P	Z' 0.2 1.2	
"	15	UPP	i(P)	20 04 30.9			Mx	Z 3.4 18	
"	16	UPP	iPKP1	04 50 59.9			KIR	iP	11 22 21.0
			iPKP2	04 51 04.6				micr sec	
		KIR	iPKP1	04 51 36.9			Mx	Z 1.5 16	
			iPKP	04 51 45.4			UME	iP	11 22 45.0
		UME	iPKP1	04 50 48.3			Kuril Islands (h = 55 km).		
		Kermadec Islands region				M = 5.5 (UPP,KIR).			
		(h = 300 km).				"	17	UPP iPKP1	12 04 39.4
"	16	KIR	iPKP	04 12 17.6			UME	iPKP1	12 04 28.9
		UME	iPKP	04 12 25.9			South of Kermadec Islands		
			iSKP1	04 15 00.4			(h = 160 km).		
		Fiji Islands region				"	17	UPP iP	12 05 33.7
		(h = 610 km).						UME iP	12 05 17.4
"	17	UPP	iP	07 02 02.6 C	"	17	UPP	i(PKP)	14 04 09.9
			i	07 02 10.9				i(PKP)	14 04 11.4
				micr sec				iPKP	14 04 19.4
			P	Z' 0.6 1.5				i	14 06 08.7
			i	Z' 1.8 1.5				iSKP1	14 07 12.4
			Mx	Z 147.6 18				iSKP2	14 07 21.5
		KIR	iP	07 02 03.8 C					micr sec
			i	07 02 11.8				Mx	Z 3.2 23
				micr sec			KIR	i(PKP)	14 03 57.8
			P	Z' 1.2 1.3				iPKP	14 04 05.5
			i	Z' 2.4 1.3				iSKP1	14 06 46.6
			Mx	Z 104.0 16			(cont.)		
		(cont.)							

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984						1984							
Nov.	17	(cont.)				Nov.	18	UPP	iP	14 52	15.2 D		
		KIR		micr	sec			Greenland-Albania border region (h = N).					
		Mx	Z	0.7	14								
		UME	i(PKP)	14 03	59.7	"	18	UPP	iP	23 12	12.2		
			iPKP	14 04	09.6			KIR	iP	23 12	14.8		
			iSKP1	14 06	59.4			Northern Colombia (h = 150 km).					
		Fiji Islands region (h = 450 km). M = 5.8 (UPP,KIR). Large SKP1 phases.						"	19	UPP	iP	04 21	39.9
"	17	KIR	iPg1	17 45	22.9				iS	04 31	04		
			i	17 45	24.7							micr	sec
			iSg1	17 45	46.7				P	Z'	0.2	1.0	
		UME	iSg1	17 47	09.3				Mx	Z	2.3	19	
		Northwestern Norway, 67.9°N, 15.7°E. Origin time = 17 44 52. M _L (UPP) = 2.9 (0.01) 3. By combination with Finnish station readings.						KIR	iP	04 20	47.0		
												micr	sec
								UME	iP	04 21	13.0		
								Rat Islands, Aleutian Islands (h = 40 km). M = 5.4 (UPP,KIR).					
"	17	UPP	iP	18 38	34.5 D			"	19	UPP	iP	12 17	32.3
			P	Z'	0.3 0.8							micr	sec
		KIR	iP	18 38	02.6 D								
			P	Z'	0.3 0.8								
		UME	iP	18 38	16.5 D								
		Bonin Islands region (h = 450 km). m = 6.0 (UPP,KIR).						"	19	UPP	iP	19 57	02.4
										UME	iP	19 56	40.4 D
										Near east coast of Honshu, Japan (h = 55 km).			
"	17	UPP	Mx	19 59				"	19	UPP	iP	23 20	28.2
			Mx	Z	1.2 18					UME	iP	23 20	08.3
		KIR	iP	19 12	08.6					South of Honshu, Japan (h = 70 km).			
			P	Z'	0.2 1.5			"	20	UPP	iP	08 28	10.9
		UME	iP	19 12	14.1						iSKS	08 38	30
		West Caroline Islands (h = N).									iS	08 39	05
												micr	sec
"	17	KIR	iP	19 32	53.5						P	Z'	0.6 1.0
		UME	iP	19 33	03.2						Mx	Z	151.0 19
		West Caroline Islands (h = N).								KIR	iP	08 27	55.0 D
												micr	sec
"	17	UPP	Mx	00 07							P	Z'	1.2 1.0
			Mx	Z	2.4 20						Mx	Z	59.1 20
		KIR	Mx	00 01						UME	iP	08 28	00.1 D
			Mx	Z	1.9 23					Mindanao, Philippine Islands (h = 200 km). m = 6.7, M = 7.3 (UPP,KIR).			
		Tonga Islands (h = N). M = 5.9 (UPP,KIR).						"	20	KIR	iP	11 44	18.9
										Mindanao, Philippine Islands (h = 210 km).			

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984	
Nov.	25	KIR iP	17 22 20.0	Nov.	30 (cont.)
		Southern Xinjiang, China (h = N).			KIR iP 14 27 37.8
"	26	UPP iPKP2	17 51 12.1		i 14 27 43.0
		UME iPKP1	17 50 56.0		UME iP 14 27 47.5
		i	17 50 59.2		i 14 27 52.5
		Kermadec Islands region (h = 50 km).			Near coast of Guerrero, Mexico (h = N).
"	27	UPP iPKP1	14 00 37.7	"	30 UPP iP 21 20 56.0
		Kermadec Islands region (h = 80 km).			iPP 21 24 02.9
"	27	UPP iP	23 47 09.8		KIR iP 21 20 34.4
			micr sec		Philippine Islands region (h = 130 km).
		P	Z' 0.2 1.5		
		KIR iP	23 46 53.5		
		Mindanao, Philippine Islands (h = 10 km).			
"	28	KIR eP	08 55 05		
		Mariana Islands (h = 10 km).			
"	28	UPP iP	10 39 43.4 C		
		i	10 39 46.7		
		i	10 39 50.4		
			micr sec		
		P	Z' 0.1 0.7		
		i	Z' 0.2 0.8		
		i	Z' 0.7 1.0		
		KIR iP	10 39 33.2		
		i	10 39 36.9		
			micr sec		
		i	Z' 0.6 1.5		
		UME iP	10 39 34.9		
		Burma (h = 20 km).			
		m = 6.6 (UPP,KIR).			
"	28	UPP iP	19 45 21.2		
		Burma-India border region (h = N).			
"	29	UME iP	14 42 20.8		June 23, 1986
"	30	UPP i(P)	06 01 41.7		Torild van Eck
"	30	UPP iPKP1	10 03 42.0		Conny Holmqvist
		South of Fiji Islands (h = 600 km).			Klaus Meyer
"	30	UPP iP	10 31 05.1		Aristoteles Vergara
		UME iP	10 30 49.0		
		Taiwan region (h = 70 km).			
"	30	UPP iP	14 27 52.3		
		i	14 27 57.7		
		(cont.)			

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

Uppsala	(UPP)	59 ⁰ 51.5'N,	17 ⁰ 37.6'E;	h = 14 m
Kiruna	(KIR)	67 ⁰ 50.4'N,	20 ⁰ 25.0'E;	h = 390 m
Umeå	(UME)	63 ⁰ 48.9'N,	20 ⁰ 14.2'E;	h = 16 m
Uddeholm	(UDD)	60 ⁰ 05.4'N,	13 ⁰ 36.4'E;	h = 240 m
Delary	(DEL)	56 ⁰ 28.2'N,	12 ⁰ 52.2'E;	h = 150 m
Myrviken	(MYV)	62 ⁰ 56.5'N,	14 ⁰ 20.8'E;	h = 345 m

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1984					1984					
Dec.	1	UPP	iP	02 34 58.9	Dec.	2	(cont.)			
			i	02 35 04.5			East Central Pacific Ocean			
		KIR	iP	02 35 12.8			(h = 10 km).			
		UME	iP	02 35 02.5			M = 6.3 (UPP,KIR).			
		Afghanistan-USSR border region (h = 230 km).				"	2	UPP	iP	08 44 52.8
"	1	UPP	iP	09 03 44.7						micr sec
				micr sec				P	Z'	0.1 0.9
			P	Z'			KIR	iP		08 43 53.9
		KIR	iP	09 03 53.2						micr sec
		UME	iP	09 03 42.7				P	Z'	0.1 1.0
		Hindu Kush region (h = 210 km).						Eastern Siberia (h = N).		
		m = 5.6 (UPP,KIR).				"	2	UME	iPKP1	16 27 08.3
"	1	UPP	iP	09 49 47.5			South of Kermadec Islands (h = N).			
		UME	iP	09 50 11.2						
		South Atlantic Ocean (h = 10 km).				"	3	UPP	iP	04 19 31.7
"	2	UPP	iP	03 26 04.6 C				i		04 19 33.5
				micr sec				iS		04 28 26
			P	Z'						micr sec
		KIR	iP	03 25 48.0 C				P	Z'	1.5 1.5
				micr sec				Mx	Z	27.1 20
			P	Z'			KIR	iP		04 18 45.4
		UME	iP	03 25 48.7 C				i		04 18 47.1
		Eastern Kazakh SSR.								micr sec
		Underground explosion						P	Z'	1.1 1.5
		m = 6.6 (UPP,KIR).					UME	iP		04 19 06.2
								i		04 19 07.9
"	2	UPP	iP	06 22 50.4				iS		04 27 37
				micr sec			Kuril Islands (h = 65 km).			
		Mx	Z	11.5 19			m = 6.7 (UPP,KIR).			
		KIR	iP	06 22 27.2			Multiple P, small and large, in average 1.7 s apart.			
				micr sec						
			Mx	Z						6.9 15
		UME	iP	06 22 40.9						
		(cont.)								

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984						1984				
Dec.	3	UPP	iP	04 27 56.8		Dec.	6	(cont.)		
			i	04 28 28.5				UPP	iSg1	20 05 56.9
				micr sec				KIR	iSg1	20 08 57.9
			P	Z' 0.1 0.9				UME	iSn	20 06 36.0
		UME	eP	04 27 43					iSg1	20 07 29.8
		Burma-India border region						UDD	iPg1	20 04 03.2
		(h = N).							iSg1	20 05 04.0
"	3	UME	iP	06 04 26.6				DEL	iPn	20 03 52.2
		Fox Islands, Aleutian Islands							iSn	20 04 44.3
		(h = N).						MYV	iPn	20 04 26.0
"	3	KIR	iP	07 44 38.8					iSn	20 05 36.0
				micr sec					iSg1	20 06 08.2
			P	Z' 0.1 0.9				Off coast of southern Norway,		
		UME	iP	07 44 10.7				near 57 3/4 ⁰ N, 6 1/2 ⁰ E.		
		Turkey (h = 35 km).						Origin time = 20 02 51.		
"	4	UPP	iP	07 55 52.5 D		"	6	UPP	iP	23 57 09.6
			ipP	07 56 25.6						micr sec
				micr sec					P	Z' 0.1 0.8
			P	Z' 0.2 0.8				KIR	iP	23 56 40.1
		KIR	iP	07 55 23.1 D						micr sec
			ipP	07 55 55.1					P	Z' 0.1 1.0
				micr sec				UME	iP	23 56 53.5
			P	Z' 0.5 1.0				Mariana Islands (h = 60 km).		
		UME	iP	07 55 36.0 D				m = 6.0 (UPP,KIR).		
			ipP	07 56 07.7		"	7	UPP	iP	00 14 04.8
		Volcano Islands region.						Greece (h = 10 km).		
		h = 120 km (UPP,KIR,UME).				"	7	UPP	iP	04 31 00.3
		m = 6.1 (UPP,KIR).						KIR	iP	04 30 58.5
"	5	UPP	iP	11 50 18.4		"	7	Northern Sumatera (h = 120 km).		
				micr sec				KIR	iP	05 03 34.6
			P	Z' 0.1 0.7				UME	iP	05 03 38.6
		Greece-Albania border region						Molucca Passage (h = 35 km).		
		(h = 10 km).				"	7	UPP	iP	10 29 59.3
"	5	UPP	iPKP	12 18 19.9					ipP	10 30 03.1
			iPKP1	12 18 22.2					iS	10 38 46
		Kermadec Islands region								micr sec
		(h = 110 km).							Mx	Z 5.6 19
"	5	UPP	iP	13 50 06.7				KIR	iP	10 30 44.0
			ipP	13 50 10.9					ipP	10 30 48.2
		North of Ascension Islands								micr sec
		(h = 10 km).							Mx	Z 4.3 20
"	5	UPP	iP	19 59 09.6				UME	iP	10 30 24.1
		KIR	iP	19 58 31.1					ipP	10 30 28.2
		UME	iP	19 59 48.0					iS	10 39 35
"	6	KIR	iPKP	04 04 53.4				North of Ascension Islands.		
		South Sandwich Island region						h = 15 km (UPP,KIR,UME).		
		(h = 100 km).						M = 5.8 (UPP,KIR).		
"	6	UPP	iPn	20 04 19.0		"	7	KIR	iP	16 38 02.0
			iSn	20 05 22.4				UME	iP	16 38 28.8
		(cont.)						Fox Islands, Aleutian Islands		
								(h = N).		

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984								1984					
Dec.	8	UPP	iP	10 42	40.0	Dec.	12	KIR	iP	21 58	15.7		
			i	10 43	20.0			UME	iP	21 59	07.0		
								Greenland Sea (h = 10 km).					
			P	Z'	0.1 0.9			"	12	UPP	iP	23 11	57.6
		KIR	iP	10 42	49.0					KIR	iP	23 11	23.5
										UME	iP	23 11	38.6
			P	Z'	0.2 1.0			South of Honshu, Japan (h = 80 km).					
		UME	iP	10 42	38.7			"	12	UPP	iP	23 19	51.7 C
		Hindu Kush region (h = 170 km).								KIR	iP	23 19	48.7 C
"	8	UPP	iP	12 35	46.1						P	Z'	0.2 0.8
		KIR	iP	12 36	25.8					UME	iP	23 19	47.4 C
		UME	iP	12 36	09.1			Java (h = 80 km).					
		Central Mid-Atlantic Ridge (h = 10 km).						"	13	UPP	iP	01 44	55.9
"	8	UPP	iP	15 07	01.2					UME	iP	01 44	18.9
		KIR	iP	15 06	45.0			Eastern Greenland (h = 10 km).					
		UME	iP	15 06	50.3			"	13	UPP	iP	04 53	09.4
		Mindanao, Philippine Islands (h = 190 km).						"	13	KIR	iP	18 39	54.3
"	8	KIR	iP	18 39	14.4					i	18 39	56.0	
		UME	iP	18 39	24.2			Svalbard region (h = 10 km).					
		Philippine Islands region (h = N).						"	13	KIR	eP	20 29	40
"	9	UPP	iP	19 51	48.2			Southern Sumatera (h = 30 km).					
								"	13	UPP	iP	21 32	36.3
			P	Z'	0.2 1.5			"	14	UPP	iP	01 13	02.8
		KIR	iP	19 51	14.5			"	14	UPP	iP	14 44	19.0
		UME	iP	19 51	33.6					UME	iP	14 44	27.5
		Southern Nevada. Underground explosion.						Chagos Archipelago region (h = 10 km).					
"	9	UME	iP	22 15	04.2			"	14	UPP	iPKP2	15 49	59.1
		Lake Baikal region (h = N).								i	15 50	02.1	
"	10	UME	iP	03 44	55.1			Keramdec Islands (h = N).					
		East Central Pacific Ocean (h = 10 km).						"	14	UPP	iP	21 58	28.4
"	11	UPP	iP	23 00	22.6					KIR	iP	21 58	27.5
			ipP	23 00	28.2			Southern Sumatra (h = 20 km).					
								"	15	UPP	iP	09 05	56.9
			P	Z'	0.1 0.9					KIR	iP	09 07	13.6
		KIR	ipP	22 59	52.6					UME	iP	09 06	36.1
		UME	ipP	23 00	09.0			Greece (h = 20 km).					
		Bonin Islands region (h = 15 km).						"	15	UPP	iP	11 02	52.2
"	11	UPP	iS	23 48	19					KIR	iP	11 02	57.6
		UME	iS	23 48	43					UME	iP	11 02	46.6
		Northern Chile (h = 90 km).					Northern India (h = N).						

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Dec.	15	UPP iP	14 56 48.0	Dec.	17	UME iP	21 02 07.1
		KIR iP	14 56 14.3			Minahassa Peninsula	
		UME iP	14 56 33.6			(h = 140 km).	
		Southern Nevada.		"	17	UPP iP	21 20 25.4
		Underground explosion.					micr sec
"	16	UPP iP	04 02 00.3 C			P Z'	0.1 0.8
			micr sec			KIR iP	21 19 39.4
		P Z'	1.3 0.8			UME iP	21 20 01.1
		Mx Z	1.5 9			ipP	21 20 09.5
		KIR iP	04 01 43.9 C			Kuril Islands (h = 30 km).	
			micr sec	"	17	UPP iP	23 41 22.1
		P Z'	1.7 0.5			i	23 41 25.8
		Mx Z	0.6 9				micr sec
		UME iP	04 01 44.9 C			i Z'	0.3 0.9
		Eastern Kazakh SSR.				Mx Z	10.9 18
		Underground explosion.				KIR iP	23 40 35.6
		m = 7.0 (UPP,KIR).				i	23 40 39.5
"	16	KIR iP	11 48 43.6				micr sec
		Philippine Islands region				Mx Z	5.1 17
		(h = 70 km).				UME iP	23 40 57.1
"	16	UPP iSg1	13 13 52.5			i	23 41 00.5
		KIR iPg1	13 10 37.4			Kuril Islands (h = 30 km).	
		iSg1	13 11 10.3			M = 6.0 (UPP,KIR).	
		UME iSn	13 11 48.7	"	18	UPP iP	00 07 58.7
		iSg1	13 12 06.1				micr sec
		UDD iSg1	13 13 45.7			P Z'	0.4 1.0
		MYV iSg1	13 12 11.0			Mx Z	15.7 18
		Off coast of northwestern				KIR iP	00 07 13.0
		Norway, near 67 1/2°N, 14°E.					micr sec
		Origin time = 13 09 53.				P Z'	0.1 1.0
		M _L (UPP) = 2.9 (0.06) 3.				Mx Z	6.7 16
"	16	UPP iP	13 32 06.9			UME iP	00 07 34.2
		KIR iP	13 31 43.4			Kuril Islands (h = N).	
		UME iP	13 31 52.2			m = 6.2, M = 6.1 (UPP,KIR).	
		Philippine Islands region		"	18	UPP iP	03 53 11.5
		(h = 150 km).					micr sec
"	16	KIR iP	20 06 14.2			P Z'	0.1 0.9
"	17	UPP iP	07 26 33.1			KIR eP	03 52 25
		KIR iP	07 25 40.0			UME iP	03 52 46.3
		UME iP	07 26 04.0			Kuril Islands (h = N).	
		Off east coast of Kamchatka		"	18	KIR iP	04 29 28.5
		(h = N).				UME iP	04 29 46.2
"	17	UPP iP	15 01 14.0			Near west coast of Honshu,	
		KIR iP	15 00 36.2			Japan (h = 15 km).	
		UME iP	15 00 53.0	"	18	UPP iP	07 06 32.7
		Near east coast of Honshu,				Pakistan (h = N).	
		Japan (h = N).		"	18	KIR iP	10 39 32.8
"	17	UPP iP	21 02 16.4			Kuril Islands (h = 45 km).	
		KIR iP	21 02 02.7				
		(cont.)					

UPP = Uppsala, KIR = Kiruna, UME = Umeå, UDD = Uddeholm, DEL = Delary, MYV = Myrviken

1984				1984			
Dec.	18	UPP iP	10 43 17.6	Dec.	19	UPP iP	01 00 02.6
		KIR iP	10 42 31.4				micr sec
		UME iP	10 42 52.3			P Z'	0.1 1.0
		Kuril Islands (h = N).				UME iP	00 59 36.9
						Kuril Islands (h = 50 km).	
"	18	UPP eP	14 48 49	"	19	UPP ePKP2	05 59 31
		UME iP	14 48 22.4			UME iPKP1	05 59 10.9
		Near west coast of Honshu, Japan (h = 25 km).				South Kermadec Islands (h = N).	
"	18	KIR iP	17 10 08.6	"	19	UPP eP	06 08 23
		Mindanao, Philippine Islands (h = 140 km).				KIR iP	06 08 09.1
						Southern Xinjiang, China (h = 45 km).	
"	18	UPP iP	17 43 46.2	"	19	UPP iP	09 02 37.9
			micr sec			KIR iP	09 02 25.5
			0.1 0.8			UME iP	09 02 35.6
		KIR iP	17 43 00.8			Near coast of Oaxaca, Mexico (h = 65 km).	
		UME iP	17 43 21.4				
		Kuril Islands (h = N).					
"	18	UPP iP	17 47 27.5	"	19	UPP iP	12 44 34.5
		ipP	17 47 34.2				micr sec
			micr sec			P Z'	0.1 1.0
		P Z'	0.1 0.9			KIR iP	12 44 41.9
		KIR eP	17 46 41				micr sec
		UME iP	17 47 01.8			P Z'	0.1 0.5
		ipP	17 46 08.6				
		Kuril Islands. h = 25 km (UPP,UME).		"	20	UPP iP	11 24 59.8
"	18	UPP iP	18 03 45.6				micr sec
			micr sec			P Z'	0.2 1.4
		P Z'	0.1 0.9			KIR iP	11 25 09.5
		KIR eP	18 03 00				micr sec
		UME iP	18 03 21.4			P Z'	0.1 0.6
		Kuril Islands (h = N).				UME iP	11 24 59.3
						Hindu Kush region (h = 160 km). m = 5.6 (UPP,KIR).	
"	18	UPP iP	19 46 51.7	"	21	KIR eP	03 36 46
		ipP	19 47 04.7			UME iP	03 36 31.9
		KIR iP	19 46 12.7			Mid-Indian rise (h = 10 km).	
		ipP	19 46 25.9	"	21	UPP iP	04 55 35.9
		UME iP	19 46 30.1			KIR iP	04 55 45.4
		ipP	19 46 42.5			UME iP	04 55 32.7
		Near east coast of Honshu, Japan. h = 50 km (UPP,KIR,UME).				Hindu Kush region (h = 200 km).	
"	19	UPP iP	19 18 43.9	"	22	KIR iP	00 10 05.3
		Kuril Islands (h = 30 km).					micr sec
"	19	UPP iP	00 27 57.6			P Z'	0.1 1.0
			micr sec			UME iP	00 10 27.7
		P Z'	0.1 1.0			Sakhalin Islands (h = N).	
		KIR iP	00 27 10.6	"	22	KIR iP	05 29 51.8
		UME iP	00 27 32.7			Philippine Islands region (h = N).	
		Kuril Islands (h = 50 km).					

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1984				1984							
Dec.	22	UPP	iP	16 12 49.3	C	Dec.	26	UME	iPKP	11 23 54.6	
			ipP	16 12 58.2						South of Kermadec region (h = N).	
		KIR	iP	16 13 24.9	C						
				micr sec							
			P	Z'	0.1 0.6		"	27	KIR	iPKP	03 44 12.9
		UME	iP	16 13 02.3	C					Fiji Islands region (h = 600 km).	
			ipP	16 13 11.9							
		Southern Iran.					"	28	UME	iP	01 02 21.5
		h = 35 km (UPP,UME).								Arabian Sea (h = 10 km).	
"	23	UPP	iPKP	01 35 23.7		"	28	UPP	iP	03 57 07.8	
		South of Fiji Islands								micr sec	
		(h = 570 km).								P	Z'
										1.7	0.9
"	23	UPP	iP	09 01 48.5				KIR	iP	03 56 51.9	
		KIR	iP	09 01 10.8						micr sec	
		UME	iP	09 01 27.2						P	Z'
		Honshu, Japan (h = 260 km).								3.2	0.4
"	23	UPP	iP	16 15 32.8	C			UME	iP	03 56 52.8	
				micr sec						Eastern Kazakh SSR.	
			P	Z'	0.1 0.8					Underground explosion.	
		KIR	iP	16 14 55.1	C		"	28	UPP	iP	04 27 18.9
				micr sec						KIR	iP
			P	Z'	0.1 0.9						04 26 27.3
		UME	iP	16 15 11.8	C					Rat Islands, Aleutian Islands (h = N).	
		Off east coast of Honshu, Japan (h = 40 km).					"	28	UPP	iP	10 48 05.9
"	23	KIR	iPg1	19 53 53.1						i	10 48 11.2
			iSg1	19 54 23.1						i	10 48 17.5
		UME	iPg1	19 53 44.5						iS	10 56 21
			iSg1	19 54 11.2						micr sec	
		MYV	iSg1	19 55 25.0						P	Z'
		Norrbotten, Sweden, 65.6°N, 22.3°E.								0.5	1.1
		Origin time = 19 53 10.								Mx	Z
		M _L (UPP) = 2.7 1.								111	17
"	24	UME	iPKP	05 09 54.9				KIR	i(P)	10 47 07.3	C
"	25	UDD	iSg1	20 06 39.0					iP	10 47 10.1	
		Off coast of southwestern Norway, near 61 3/4°N, 4°E.							i	10 47 15.7	
		Origin time = 20 04 08.							i	10 47 21.2	
		M _L (UPP) = 2.4 1.							micr sec		
		By combination with Norwegian station readings.							(P)	Z'	0.5 1.0
		Felt.							Mx	Z	83 16
"	26	UPP	iPKP	09 56 51.2				UME	iP	10 47 36.4	C
				micr sec					i	10 47 42.1	
			PKP	Z'	0.1 0.9				i	10 47 48.3	
		KIR	ePKP	09 57 06					iS	10 55 28	
		UME	iPKP	09 56 59.7					Near east coast of Kamchatka (h = N).		
		South of Sandwich Islands region (h = N).							m = 6.5, M = 7.0 (UPP,KIR).		
"	28	UPP	iP	11 17 18.5		"	28	UPP	iP	11 17 18.5	
		UME	iP	11 17 20.2					UME	iP	11 17 20.2
"	28	UME	iPKP1	11 36 40.7		"	28	UME	iPKP1	11 36 40.7	
		Off E. coast of N. Islands, N.Z. (h = N).							Off E. coast of N. Islands, N.Z. (h = N).		
"	28	UME	iPKP1	13 25 19.4		"	28	UME	iPKP1	13 25 19.4	
			iPKP2	13 25 25.4					iPKP2	13 25 25.4	

(cont.)

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1984		1984	
Dec.	28	(cont.) Off E. coast of N. Island, N.Z. (h = N).	Dec. 30 UPP ePKP1 21 19 54 ePKP2 21 20 02 KIR iPKP1 21 19 35.1 UME iPKP1 21 19 40.4 iPKP2 21 19 48.0 Off E. coast of N. Island, N.Z. (h = 35 km).
"	28	UPP iPKP1 14 18 07.0 iPKP2 14 18 21.6 KIR iPKP 14 17 49.3 UME iPKP1 14 17 58.0 Off E. coast of N. Island, N.Z. (h = N).	" 30 KIR iPKP1 21 48 11.8 iPKP2 21 48 14.8 UME iPKP1 21 48 20.9 iPKP2 21 48 28.0 Off E. coast of N. Island, N.Z. (h = 45 km).
"	28	UPP iPKP1 16 18 11.5 iSKP1 16 21 01.3 KIR ePKP 16 18 02 iSKP1 16 20 39.3 UME iPKP 16 18 05.8 iSKP1 16 20 50.8 South of Fiji Islands (h = 550 km).	" 30 UME iPKP1 21 56 04.7 iPKP2 21 56 12.5 Off E. coast of N. Island, N.Z. (h = 40 km).
"	28	KIR iPKP 18 39 51.0 UME iPKP1 18 40 00.1 iPKP2 18 40 07.6 Off E. coast of N. Island, N.Z. (h = 25 km).	" 30 UPP iPKP1 21 56 48.2 iPKP2 21 57 05.2 micr sec Mx Z 27.1 22 KIR iPKP 21 56 31.1 iPKP1 21 56 33.7 iPKP2 21 56 37.7 UME ePKP 21 56 36 iPKP1 21 56 39.3 iPKP2 21 56 46.2 Off E. coast of N. Island, N.Z. (h = 40 km).
"	29	UPP iP 01 18 38.1 micr sec P Z' 0.3 1.6 KIR iP 01 18 13.4 micr sec P Z' 0.2 1.1 UME iP 01 18 22.7 Taiwan region (h = 90 km). m = 5.9 (UPP,KIR).	" 30 UME iP 23 00 08.6
"	29	KIR iP 11 05 17.0 Southern Iran (h = N).	" 30 UPP i 23 39 11.7 eSn 23 39 23 UDD iSn 23 38 27.0 iSg1 23 38 41.1 Southern Norway, near 59°N, 70°E. Origin time = 23 36 54. M _L (UPP) = 2.5 1. By combination with Finnish and Norwegian station readings. Felt.
"	29	UPP iP 11 09 50.4	" 30 UPP iP 23 43 54.2 i 23 43 56.6 KIR iP 23 43 50.9 ipP 23 43 56.7 UME iP 23 43 47.5 India-Bangladesh border region (h = 25 km).
"	29	UME ePKP1 18 52 55 Off E. coast of N. Island, N.Z. (h = N).	" 30 UPP iP 23 43 54.2 i 23 43 56.6 KIR iP 23 43 50.9 ipP 23 43 56.7 UME iP 23 43 47.5 India-Bangladesh border region (h = 25 km).
"	30	UME iPKP1 11 25 46.1 Off E. coast of N. Island, N.Z. (h = N).	" 30 UPP iP 23 43 54.2 i 23 43 56.6 KIR iP 23 43 50.9 ipP 23 43 56.7 UME iP 23 43 47.5 India-Bangladesh border region (h = 25 km).
"	30	UME iPKP1 15 26 30.9 iPKP2 15 26 36.7 Off E. coast of N. Island, N.Z. (h = 25 km).	" 30 UPP iP 23 43 54.2 i 23 43 56.6 KIR iP 23 43 50.9 ipP 23 43 56.7 UME iP 23 43 47.5 India-Bangladesh border region (h = 25 km).
"	30	UME iPKP1 20 46 06.6 iPKP2 20 46 14.0 Off E. coast of N. Island, N.Z. (h = 45 km).	" 31 UME iPKP 05 20 47.1 Keramdec Islands region (h = N).

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1984

Dec. 31 UME iPKP1 06 11 36.7
Off E. coast of N. Island,
N.Z. (h = 15 km).

" 31 UPP iP 12 36 26.0
Ionian Sea (h = 10 km).

June 25, 1986

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