

SEISMOLOGICAL DEPARTMENT
 BOX 2101
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 SWEDEN

SEISMOLOGICAL DEPARTMENT
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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

JANUARY 1 - 31, 1993

1993					1993				
Jan.	1	UPP	iPKP1	04 06 23.1	Jan.	4	UPP	iP	01 37 27.5
			iPKP2	04 06 28.1					Kuril Islands (h = 40 km).
		KIR	ePKP	04 06 02					
		UME	iPKP	04 06 10.8	"	4	UPP	iP	01 39 43.7
			iPKP1	04 06 12.3			KIR	iP	01 39 26.0
				Kermadec Islands region (h = N).					micr sec
								P	Z' 0.1 1.2
"	1	UPP	ePKP	06 08 10					North of Halmahera, Indonesia
			iPKP1	06 08 15.2					(h = 70 km).
				Kermadec Islands region (h = 65 km).	"	4	KIR	iP	10 41 54.9
"	1	UPP	iPKP1	13 28 14.6 C					micr sec
		KIR	ePKP	13 28 01				P	Z' 0.1 1.0
		UME	iPKP	13 28 11.2					Banda Sea (h = 30 km).
				South of Fiji Islands (h = 200 km).	"	5	UPP	iPn	10 20 50.0
"	2	UPP	iPKP2	04 24 51.7				i	10 21 07.9
				Kermadec Islands, New Zealand				iSn	10 21 44.0
				(h = 10 km).				i	10 22 00.0
"	2	KIR	iPKP	12 51 42.7			KIR	iSg1	10 22 04.5
				North Island, New Zealand				iPn	10 20 29.5
				(h = 220 km).				i	10 20 37.9
"	3	UPP	eP	07 20 29				iSn	10 21 09.5
				Greece-Albania border region			UME	iSg1	10 21 20.7
				(h = 5 km).				iPg1	10 20 06.1
"	3	UME	iP	07 25 23.2				i	10 20 06.8
				North Atlantic Ocean (h = 10 km).			UDD	iSg1	10 20 28.4
								iPn	10 20 50.4
"	3	KIR	iP	17 21 58.3				iSn	10 21 43.0
				Banda Sea (h = 55 km).				i	10 21 50.7
								iSg1	10 22 05.7

(cont).

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

1993				1993					
Jan.	9	UPP	ePKP	11 35 38	Jan.	15	UPP	iP	11 16 52.5
			iPKP1	11 35 44.9				i	11 16 58.2
		UME	iPKP1	11 35 33.2				iS	11 25 54
		South of Kermadec Islands (h = 10 km).					KIR	iP	11 16 08.4
"	9	UPP	iP	14 58 06.1				i	11 16 14.0
		Eastern Mediterranean Sea (h = 40 km).						iS	11 24 32.9
"	10	UPP	iPKP	14 57 49.9			UME	iP	11 16 28.5
			i	14 58 11.0				i	11 16 34.0
			iPKS	15 01 17.3				iS	11 25 12.7
				micr sec			Hokkaido, Japan region (h = 110 km). Double P, small and large, on average 5.6 seconds part.		
			P	Z' 0.3 0.9	"	15	UPP	iP	12 20 19.8
		KIR	iPKP	14 58 00.6			KIR	iP	12 21 40.7
			i	14 58 28.1			UME	iP	12 21 10.7
		UME	iPKP	14 57 58.7			Iraq (h = N).		
			i	14 58 20.1	"	15	UPP	iP	16 45 45.5
		South Sandwich Islands region (h = 60 km).					KIR	iP	16 45 36.3
"	11	UPP	eP	21 10 05			UME	iP	16 45 34.4
		UME	iP	21 09 40.5			Northern Xinjiang China (h = 25 km).		
		Near east coast of Honshu, Japan (h = 35 km).			"	16	UPP	iP	02 41 17.3
"	13	UPP	iP	17 22 59.4			KIR	iP	02 40 48.1
		KIR	iP	17 22 56.0			Kyushu, Japan (h = 35 km).		
		UME	iP	17 23 01.4	"	16	UPP	iPKP	11 13 17.4
		Jamaica region (h = 15 km).					KIR	iPKP	11 13 10.1
"	13	UPP	iPKP	19 10 25.9			Fiji Islands region (h = 620 km).		
		KIR	iPKP	19 10 22.2	"	16	KIR	iSn	11 19 56.9
		UME	ePKP	19 10 25			Northern Norway, 69.9°N, 25.2°E. Origin time = 11 18 45. By combination with Finnish station readings.		
		South of Australia (h = 10 km).			"	17	UPP	iP	07 11 02.5
"	14	KIR	iP	14 41 49.7	"	17	UPP	iP	09 53 08.8
		UME	iP	14 43 02.9			Turkey (h = N).		
		Volcano Islands region (h = 25 km).			"	17	UPP	iPKP	18 43 33.7
"	15	UPP	iP	02 42 18.0			South Sandwich Islands region (h = 110 km).		
		KIR	iP	02 40 46.2	"	18	UPP	iP	01 30 53.9
		UME	iP	02 42 00.2				P	Z' 0.1 0.8
		Bonin Islands region (h = 440 km).					(cont).		
"	15	UME	iPKP1	05 16 55.1					
		South of Kermadec Islands (h = N).							
"	15	UME	iP	08 24 36.4					
		Fox Islands. Aleutian Islands (h = N).							

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1993				1993				
Jan.	18	(cont). KIR	iP	01 30 25.5	Jan.	19	UPP ePKP	21 33 06
				micr sec			KIR iP	21 32 51.2
			P	Z' 0.2 1.0			UME iP	21 32 54.4
		UME	iP	01 30 34.3			Fiji Islands region (h = 590 km).	
				Mariana Islands (h = 150 km).	"	19	UME iP	23 09 20.8
				m = 5.9 (UPP,KIR).			Kermadec Islands region (h = N).	
"	18	UPP	iP	12 51 40.1	"	19	UPP eP	23 19 49
			i	12 51 42.3			KIR iP	23 19 28.5
			i	12 51 44.2			UME iP	23 19 35.7
		KIR	iP	12 51 30.5			Northern Molucca Sea (h = 25 km).	
		UME	iP	12 51 31.5	"	20	UPP iP	02 37 18.3
				Xizang (h = N).			UME iP	02 37 04.3
"	18	UPP	eP	13 37 34			South of Kermadec Islands (h = N).	
				Xizang (h = N).	"	20	UPP iP	02 43 09.4 C
"	18	KIR	eP	19 24 43			i	02 43 11.1
				Albania (h = 10 km).			ipP	02 43 28.7
"	19	KIR	iP	04 13 53.0			iS	02 53 16
		UME	iP	04 14 12.6				micr sec
				Hokkaido, Japan region (h = 100 km).			P	Z' 0.7 0.8
"	19	KIR	iP	08 08 52.4			KIR iP	02 43 09.9 C
				Mariana Islands (h = 160 km).			ipP	02 43 29.3
"	19	UPP	iP	14 49 42.3				micr sec
			ipP	14 51 25.9			UME iP	02 43 06.7
			iS	14 58 07.0			ipP	02 43 26.3
			iScS	14 58 55.0			iS	02 53 10.8
				micr sec			Northern Sumatera, Indonesia.	
			P	Z' 1.1 1.0			h = 70 km (UPP,KIR,UME).	
		KIR	iP	14 49 06.2			m = 6.8 (UPP,KIR).	
			ipP	14 50 46.2	"	20	UPP iP	03 23 31.5
				micr sec			UME iP	03 23 17.9
			P	Z' 1.7 1.0			iPKP1	03 23 22.1
		UME	iP	14 49 22.0			South of Kermadec Islands	
			ipP	14 51 02.9			(h = 15 km).	
			iS	14 57 27.6	"	20	UPP iSn	04 48 05.0
			iScS	14 58 28.4			iSg1	04 48 37.9
				Sea of Japan.			KIR iP	04 46 31.9
				h = 500 km (UPP,KIR,UME).			iSn	04 47 47.2
				m = 6.5 (UPP,KIR).			UME iSn	04 47 39.8
"	19	KIR	iP	15 30 46.8			UDD iSn	04 47 29.0
		UME	iP	15 30 51.5			DEL iSn	04 48 43.1
				Ceram Sea (h = 35 km).			MYV iP	04 45 58.0

(cont).

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1993				1993			
Jan.	20	MYV (cont).		Jan.	23	UPP iP	09 11 11.4
		iSn	04 46 51.0			KIR iP	09 10 47.7
		Norwegian Sea, 64.7°N, 4.7°E.				UME iP	09 10 56.7
		Origin time 04 44 51.				Taiwan (h = 30 km).	
		By combination with Finnish station readings.		"	23	UPP iP	18 32 56.4
"	20	UPP ePKP	07 47 37			P	Z' 0.1 1.0
		UME iP	07 47 30.4			KIR iP	18 32 02.2
		Kermadec Islands region (h = N).					micr sec
"	20	UPP iP	14 56 16.5			P	Z' 0.2 1.2
		KIR iP	14 56 48.4				Alaska Peninsula (h = 25 km).
		UME iP	14 56 35.8				m = 6.0 (UPP,KIR).
		Azores Islands (h = 10 km).		"	24	KIR iP	16 54 17.3
"	20	UPP iPdif	17 45 24.9				Zaire (h = 10 km).
			micr sec	"	24	UME iP	21 14 17.4
		Mx	Z 7.5 28				Mariana Islands region (h = 280 km).
		KIR ePdif	17 45 13	"	24	UME iP	21 40 35.8
			micr sec				Hokkaido, Japan region (h = 310 km).
		Mx	Z 7.2 19	"	25	UME iP	06 18 25.9
		UME iPdif	17 45 19.9				Kerguelen Islands region (h = 10 km).
		Banda Sea (h = N).		"	25	UPP eP	08 04 38.1
		M = 6.1, (UPP,KIR).				KIR iP	08 03 42.8
"	20	UPP eP	17 49 27			UME iP	08 04 11.6
"	20	UPP iP	22 52 11.7				Alaska Peninsula (h = 5 km).
		KIR iP	22 51 59.2	"	25	UME iP	15 05 18.0
		UME iP	22 52 08.7				Tonga Islands (h = 35 km).
		Chiapas, Mexico (h = 80 km).		"	25	UPP iP	22 42 17.9
"	21	KIR iP	13 48 58.1			UME iP	22 42 06.5
		UME eP	13 49 41				Kermadec Islands, New Zealand (h = N).
		East of Severnaya Zemlya, Russia (h = 30 km).		"	25	UPP ePKP	23 57 29
"	21	UPP iP	14 23 22.9				Solomon Islands (h = 180 km).
		KIR iP	14 23 11.8	"	26	UME iP	07 17 26.3
		UME iP	14 23 03.3			i	07 17 35.5
		ipP	14 23 23.7				Kermadec Islands region (h = 15 km).
		Afghanistan-Tajikistan border region (h = 90 km).		"	26	UPP iP	17 13 33.3
"	22	UPP iP	08 12 01.9			UME iP	17 13 19.7
		Greece-Albania border region (h = 30 km).					Kermadec Islands region (h = 200 km).

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Jan.	26	UPP	iP	20 42 58.5	Jan.	27	(cont).
				micr sec			UME eP 23 46 46
			P	Z' 0.1 1.1			South Greece (h = 90 km).
			Mx	Z 5.0 20			
		KIR	iP	20 42 50.4	"	28	UME iP 02 38 22.8
				micr sec			Afghanistan-Tajikistan border region
			P	Z' 0.2 1.2			(h = 220 km).
			Mx	Z 2.3 18			
		UME	iP	20 42 49.0	"	28	UME iP 03 13 58.0
				Yunnan, China (h = N).			Azores Islands (h = 10 km).
				m = 5.9, M = 5.5 (UPP,KIR).			
"	27	UME	iP	01 24 00.2	"	28	UME iP 21 05 37.9
				South of Honshu, Japan			Buru, Indonesia (h = N).
				(h = N).			
"	27	KIR	iSn	03 53 20.9	"	29	UPP iP 10 32 27.4
			iSg1	03 53 27.0			
		UME	iSg1	03 54 04.9	"	29	UPP iP 19 42 14.6
		MYV	iSg1	03 53 56.2			ipP 19 42 26.4
				Near coast of central Norway,			micr sec
				66.8°N, 13.7°E.			P Z' 0.1 1.5
				Origin time = 03 51 57.			Mx Z 1.3 16
				M _L (UPP) = 2.6 (0.05) 2.			UME iP 19 41 53.9
				By combination with Finnish and			Off east coast of Honshu, Japan
				Norwegian station readings.			(h = 35 km).
							M = 5.3 (UPP,KIR).
"	27	KIR	iP	05 10 54.0	"	30	UPP iP 03 07 00.7
		UME	iP	05 10 55.8	"	30	UPP iP 03 12 55.9
				Myanma-China border region			
				(h = N).	"	31	UPP iP 19 30 45.8
"	27	UME	eP	09 15 49.5	"	31	UPP iP 19 44 12.2
				Mindanao, Philippine Islands			Yunnan, China (h = N).
				(h = 80 km).			
"	27	UPP	eP	10 34 31			
		KIR	iP	10 34 59.5			
		UME	eP	10 34 41			
				Northern Iran (h = N).			
"	27	KIR	iP	11 06 22.2			
				Philippine Islands region (h = 70 km).			
"	27	UME	iP	17 42 22.8			
				Afghanistan-Tajikistan border region			
				(h = 160 km).			
"	27	UPP	iP	23 46 07.2			
		KIR	iP	23 47 18.3			
				(cont).			

October 12, 1994

Conny Holmqvist
Xin Pi
Rutger Wahlström

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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

FEBRUARY 1 - 28, 1993

1993					1993				
Feb.	1	UPP	iP	03 20 29.4	Feb.	3	UPP	iPKP2	00 12 18.5
			ipP	03 20 39.6			UME	iPKP2	00 12 01.5
				Near Islands, Aleutian Islands					South of Kermadec Islands
				(h = N).					(h = 490 km).
"	1	UPP	iP	03 29 30.0	"	3	UPP	iP	03 37 04.1
				Near Islands, Aleutian Islands				i	03 37 59.5
				(h = N).			UME	iP	03 37 42.9
									Mariana Islands (h = 250 km).
"	1	UPP	iP	08 48 30.1	"	3	UPP	iP	04 00 51.4
				micr sec					Crete (h = 30 km).
			P	Z' 0.1 1.1					
		UME	iP	08 48 00.7	"	3	UPP	iP	17 04 26.0
				Near east coast of Kamchatka				i	17 04 29.6
				(h = 35 km).			UME	iP	17 04 18.1
"	2	UPP	iP	16 13 22.4					Luzon, Philippine Islands (h = 20 km).
			ipP	16 13 31.7	"	4	UPP	iP	02 27 47.7
				micr sec			UME	iP	02 28 28.4
			P	Z' 0.2 1.0					Greece (h = 30 km).
		UME	iP	16 13 07.1	"	4	UPP	iP	14 54 04.1
			ipP	16 13 16.1			UME	iP	14 53 41.9
				Northern Xinjiang, China					Hokkaido, Japan region (h = 100 km).
				h = 35 km (UPP,KIR,UME).					
				m = 5.9 (UPP,KIR).	"	5	UPP	eP	07 28 38
"	2	UPP	iPKP1	17 34 15.9			UME	iP	07 28 27.4
		UME	iPKP1	17 34 03.3					South of Mariana Islands (h = 30 km).
				Kermadec Islands region (h = N).					
"	2	UPP	iPKP1	18 37 27.1					
		UME	iPKP1	18 37 15.5					
				Kermadec Islands region (h = 45 km).					

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

1993			1993		
Feb.	11	(cont). MYV iPn 19 47 58.2 iSn 19 49 21.0 Norwegian Sea, 59.0°N, 1.2°E. Origin time = 19 46 15. M _L (UPP) = 3.3 (0.05) 2. By combination with Norwegian station readings	Feb.	13	(cont). UME iP 00 56 14.8 Mindanao, Philippine Islands (h = 20 km).
"	12	UME iP 06 07 47.3 Off east coast of Honshu, Japan (h = N).	"	13	UME iP 02 35 59.0 Ethiopia (h = 10 km).
"	12	UME eP 10 58 16 East of Severnaya Zemlya, Russia (h = 10 km).	"	13	UPP iP 10 42 27.9 UME iP 10 42 21.7 Southern Xinjiang, China (h = 30 km).
"	12	UPP iP 11 30 53.7 Northern Xinjiang, China (h = 10 km).	"	13	UPP iPKP 11 15 10.6 micr sec Mx Z 6.9 30 UME iPKP 11 14 48.0 Fiji Islands region (h = N). M = 6.0 (UPP,KIR).
"	12	UME iP 14 26 24.0 Taland Islands, Indonesia (h = 40 km).	"	13	UME iP 20 47 59.6 Caribbean Sea (h = N).
"	12	UME iP 15 43 21.1 Near east coast of Honshu, Japan (h = N).	"	13	UPP iP 21 30 28.6 C micr sec P Z' 0.2 0.9 UME iP 21 30 01.9 Rat Islands, Aleutian Islands (h = N). m = 6.2 (UPP,KIR).
"	12	UME iP 18 39 36.4 Near coast of Nicaragua (h = 20 km).	"	13	UPP iP 22 23 16.3 UME iP 22 23 06.5 Mindanao, Philippine Islands (h = 620 km).
"	12	UME eP 18 35 26 Tajikistan-Xinjiang border region (h = N).	"	14	UPP iPKP1 03 54 38.5 UME iPKP 03 54 28.6 Kermadec Islands region (h = 35 km).
"	12	UPP iP 21 42 46.9 UME iP 21 43 22.9 Southern Greece (h = 80 km).	"	14	UPP eP 07 44 30 UME eP 07 42 35
"	12	UPP iP 22 43 38.0 UME iP 22 43 13.3 Andreanof Islands, Aleutian Islands (h = 35 km).	"	14	UPP iP 10 22 40.1 UME eP 10 23 16 Southern Greece (h = 10 km).
"	13	UME iP 00 32 58.8 South of Panama (h = N).	"	14	UPP iP 16 59 04.3 Myanmar (h = N).
"	13	UPP eP 00 56 15 (cont).			

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1993				1993					
Feb.	15	KIR	i	08 45 32.9	Feb.	17	UPP	eP	07 28 44
			iSn	08 46 02.2			KIR	iP	07 29 34.3
			iSg1	08 46 13.0			UME	iP	07 29 07.1
		UME	iPg1	08 44 37.1 C			Iraq (h = 20 km).		
			iSg1	08 44 44.6	"	17	UPP	iP	16 14 14.3
		UDD	iSg1	08 47 15.9			KIR	iP	16 14 23.7
		MYV	iPn	08 45 20.0			Pakistan (h = 15 km).		
			iSg1	08 46 06.0	"	18	KIR	iPg1	02 24 49.9
		Västerbotten, Sweden, 64.4°N, 20.8°E.						iSg1	02 25 17.1
		Origin time = 08 44 25.					UME	iSn	02 26 13.1
		$M_L(\text{UPP}) = 2.6 (0.17) 2.$						iSg1	02 26 33.6
		Felt.						i	02 26 34.6
"	15	UPP	iP	08 55 23.4			MYV	iPg1	02 25 38.6
		Xizang (h = N).						iSg1	02 26 44.0
"	15	UPP	iP	16 21 17.4			Coast of northern Norway, 67.8°N, 15.6°E.		
				micr sec			Origin time = 02 24 15.		
			P	Z' 0.2 0.7			$M_L(\text{UPP}) = 3.2 (0.03) 2.$		
		UME	iP	16 21 16.3	"	18	KIR	eP	09 53 05
		Hindu Kush region, Afghanistan (h = 210 km).					UME	eP	09 53 38
		m = 5.8 (UPP,KIR).					Unimak Island region (h = N).		
"	15	UME	iP	22 50 54.8	"	18	KIR	eP	10 14 16
		Near east coast of Honshu, Japan (h = 35 km).					UME	iP	10 15 03.3
							Unimak Island region (h = N).		
"	16	UPP	iP	00 47 56.0	"	18	UPP	eP	10 21 42
		UME	iP	00 48 35.7				iS	10 30 32
		Greece (h = 15 km).						micr sec	
"	16	UPP	iPKP	09 31 27.5				Mx	Z 3.2 16
		South of Fiji Islands (h = 550 km).					KIR	iP	10 22 22.9
							UME	iP	10 22 04.9
							Centre Mid-Atlantic Ridge (h = 10 km).		
"	17	UPP	iP	02 09 13.1	"	18	KIR	iP	11 24 08.7
				micr sec			Unimak Island region (h = N).		
			P	Z' 0.1 1.1	"	18	UPP	eP	11 35 43
		KIR	iP	02 09 00.8				i	11 36 12.8
				micr sec			KIR	eP	11 35 16
			P	Z' 0.1 1.2			UME	iP	11 35 31.3
		UME	iP	02 09 01.5			Bonin Islands region (h = N).		
		Southern Xinjiang, China (h = 15 km).							
		m = 5.7 (UPP,KIR).							
"	17	KIR	iPKP	05 34 24.3	"	18	UPP	iP	12 22 36.2
		UME	iPKP	05 34 30.4				i	12 22 40.2
		Santa Cruz Islands (h = 320 km).					KIR	iP	12 22 36.1
							(cont).		

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

1993				1993			
Feb.	18	(cont). UME iP Northwestern Kashmir (h = 30 km).	12 22 34.1	Feb.	21	KIR iP Southern Iran (h = N).	21 04 43.2
"	19	UPP iP KIR iP UME iP Hindu Kush region, Afghanistan (h = 190 km).	02 37 29.9 02 37 38.6 02 37 28.7	"	21	KIR iP UME iP Unimak Island region (h = N).	22 57 10.0 22 57 37.0
"	20	KIR iP Off coast of Central America (h = N).	04 43 41.2	"	22	UPP iP ipP P Mx KIR iP UME iP ipP Kuril Islands. h = 30 km (UPP,UME). M = 5.5 (UPP,KIR).	00 19 48.8 C 00 19 57.4 micr sec Z' 0.3 0.9 micr sec Z 3.6 19 00 18 59.7 micr sec Z 3.4 18 00 19 22.6 00 19 31.5
"	20	UPP iP KIR iP UME iP Kuril Islands (h = 15 km).	09 27 13.8 09 26 25.4 09 26 47.7	"	22	KIR iP UME iP Kuril Islands (h = N).	00 36 58.7 00 37 20.3
"	20	UPP iP KIR iP UME iP Kuril Islands (h = N).	11 50 20.4 11 49 32.6 11 49 55.5	"	22	UPP iP P KIR iP P UME iP Northwestern Caucasus (h = 10 km). m = 5.4 (UPP,KIR).	04 29 33.9 micr sec Z' 0.1 1.0 04 30 16.1 micr sec Z' 0.1 0.9 04 29 48.8
"	20	UPP iP ipP P KIR iP UME iP Kuril Islands (h = 15 km).	11 51 29.4 11 51 34.7 micr sec Z' 0.1 0.9 11 50 41.2 11 51 04.3	"	22	UME iP Kuril Islands (h = N).	04 52 34.7
"	20	UME iP East of Kuril Islands (h = 15 km).	12 47 01.7	"	22	KIR iP UME iP Near west coast of Honshu, Japan (h = 45 km).	05 22 54.1 05 23 13.9
"	20	UPP iP KIR iP UME iP South of Kermadec Islands (h = 80 km).	15 45 42.2 15 45 23.0 15 45 32.0	"	22	UPP iP P KIR iP Mx (cont).	06 48 16.8 micr sec Z' 0.6 0.9 06 47 28.6 micr sec Z 1.5 5.2
"	21	UME iP Kuril Islands (h = N).	01 45 57.9				
"	21	KIR iP UME iP Banda Sea (h = 370 km).	07 26 33.1 07 26 41.5				
"	21	KIR iP UME iP Halmahera, Indonesia (h = 160 km).	19 11 19.2 19 11 24.8				

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1993				1993			
Feb.		(cont).		Feb.		(cont).	
	22	UME iP	06 47 51.4		23	UME iP	12 01 39.9
		Kuril Islands (h = 25 km).				North of Franz Josef Land (h = 10 km).	
"	22	UPP iP	06 59 54.4	"	23	UME iP	21 51 22.5
		KIR iP	06 59 02.3			East of Kuril Islands (h = N).	
		UME iP	06 59 29.3				
		Kuril Islands (h = N).		"	24	UPP eP	14 07 17
"	22	UPP iP	07 16 53.7			KIR iP	14 05 48.4
			micr sec			UME iP	14 06 36.0
		P	Z' 0.6 1.0			Norwegian Sea (h = 10 km).	
		KIR iP	07 16 05.4	"	24	KIR iP	14 14 46.8
			micr sec			UME iP	14 15 34.0
		Mx	Z 1.9 5.4			Norwegian Sea (h = 10 km).	
		UME iP	07 16 27.9	"	24	UPP iP	16 07 44.1
		Kuril Islands (h = 45 km).					
"	22	UPP iP	09 00 14.4	"	24	UPP iP	16 37 46.3
		KIR iP	08 59 26.0			KIR eP	16 37 53
		UME iP	08 59 47.8			UME iP	16 37 43.0
		Kuril Islands (h = 35 km).				Afghanistan (h = N).	
2	22	UPP iP	11 38 05.6	"	24	UPP iP	17 32 03.7
		KIR iP	11 37 17.2			KIR iP	17 31 40.7
		UME iP	11 37 39.3			UME iP	17 31 49.5
		Kuril Islands (h = N).				Philippine Islands region (h = N).	
"	22	KIR iP	23 46 46.2	"	24	UME iP	22 19 35.1
		UME iP	23 46 58.5			Azores Islands (h = 10 km).	
		Mariana Islands region (h = N).					
"	23	UPP iPKP1	05 53 27.3	"	25	UPP iP	07 54 05.4
		UME iPKP	05 53 16.9			UME iP	07 54 02.1
		South of Fiji Islands (h = 100 km).				South of Fiji Islands (h = 170 km).	
"	23	UPP iP	08 04 03.5	"	25	UPP iP	09 38 52.4
			micr sec			KIR iP	09 38 11.1
		P	Z' 0.1 1.0			UME iP	09 38 28.8
		KIR iP	08 03 14.1			Near east coast of Honshu, Japan (h = 50 km).	
		UME iP	08 03 14.8				
		Kuril Islands (h = N).		"	25	UPP iPKP	12 02 00.0
"	23	UPP iP	09 59 22.1			UME iPKP	12 02 08.2
		KIR iP	09 58 36.8			South Sandwich Islands region (h = N).	
		UME iP	09 59 02.7				
		Alaska Peninsula (h = 20 km).		"	25	KIR iP	13 21 09.5
"	23	KIR iP	12 00 53.3			East of Kuril Islands (h = N).	

(cont).

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1993

Feb.	25	UPP	iP	13 22 57.7
		KIR	iP	13 22 04.1
		UME	iP	13 22 31.6
		Alaska Peninsula (h = N).		
"	25	UPP	iP	15 51 52.3
		UME	iP	15 51 25.9
		Kuril Islands (h = N).		
"	25	UPP	iP	20 31 56.6
		Andreanof Islands, Aleutian Islands (h = 230 km).		
"	25	UPP	iP	21 17 17.2
		Near east coast of Kamchatka (h = N).		
"	26	UPP	iPKP1	13 50 35.0
		South of Fiji Islands (h = 260 km).		
"	26	UPP	iP	19 27 32.8
		Kuril Islands (h = 30 km).		
"	27	UPP	iPKP2	02 22 10.7
		Kermadec Islands region (h = 320 km).		
"	27	UPP	iP	08 24 21.9
		East of Kuril Islands (h = N).		
"	27	UPP	iP	12 49 43.3
		UME	eP	12 50 09
		Central Mid-Atlantic Ridge (h = 10 km).		
"	27	UPP	iP	18 48 51.1
		KIR	iP	18 48 00.0
		UME	iP	18 48 24.4
		Kuril Islands (h = 35 km).		
"	28	UPP	iP	00 58 34.8
		KIR	iP	00 58 10.4
		UME	iP	00 58 00.2
		Mindanao, Philippine Islands (h = 30 km).		
"	28	UPP	iP	03 10 05.3
		UME	iP	03 09 39.6
		Northwest of Kuril Islands (h = 410 km).		

October 14, 1994

Conny Holmqvist
Xin Pi
Rutger Wahlström

SEISMOLOGICAL DEPARTMENT
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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

MARCH 1 - 31, 1993

1993					1993			
Mar.	1	UPP	iPdif	01 53 41.6	Mar.	2	UME	eP 20 31 46
		KIR	iPdif	01 53 19.7				
		UME	iPdif	01 53 28.5	"	2	UME	eP 23 12 04
		Irian Jaya, Indonesia (h = 90 km).						
"	1	UPP	iPn	07 45 11.1	"	3	UME	iPKP1 01 33 35.1
			iSn	07 47 03.0			South of Kermadec Islands (h = N).	
		KIR	iPn	07 46 39.9	"	3	UME	eP 02 30 20
		UME	iPn	07 46 00.5	"	3	UPP	iP 03 32 16.8
			iSn	07 48 33.6			KIR	eP 03 32 13
		UDD	iPn	07 45 21.2			Southern Xinjiang, China (h = 30 km).	
			iSn	07 47 24.6	"	3	UPP	iP 04 27 12.3
		DEL	iPn	07 44 38.4			Chagos Archipelago region	
		MYV	iPn	07 45 55.0			(h = 10 km).	
		Poland (h = 10 km).						
"	1	UPP	iPKP1	09 53 39.4	"	3	UPP	eP 13 16 56
			iPKP2	09 53 47.9			Central Mid-Atlantic Ridge	
		KIR	ePKP1	09 53 26			(h = 10 km).	
		UME	iPKP2	09 53 28.0	"	3	UME	iP 13 15 50.5
		South of Kermadec Islands						
		(h = 200 km).						
"	1	UPP	iP	17 04 09.6	"	3	KIR	iP 16 50 36.1
		Ryukyu Islands (h = 45 km).					iS	16 51 46.3
							i	16 55 27.3
"	2	UPP	eP	00 42 16			UME	iP 16 51 16.9
		UME	eP	00 42 17			UDD	iP 16 52 09.0
							Greenland Sea (h = 10 km).	
"	2	UPP	iPKP	15 45 14.3	"	3	UPP	Mx 24 24
			iPKP1	15 45 21.4				
		UME	iPKP1	15 45 01.4				
		Kermadec Islands region (h = N).						

(cont).

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

1993				1993			
Mar.		(cont).		Mar.		(cont).	
	3	UPP	micr sec		4	KIR iP	14 56 49.6
		Mx	Z 4.0 14			i	15 01 33.9
		KIR ePKP	23 33 25			i	15 01 42.8
			micr sec				micr sec
		Mx	Z 2.4 20			Mx	Z 6.1 20
		UME ePKP	23 33 29			UME iP	14 57 30.9
		Fiji Island region (h = 15 km).				i	14 59 54.5
		M = 6.0 (UPP,KIR).				i	15 04 06.0
"	4	KIR eP	05 45 03			UDD iP	14 58 09.0
		iS	05 46 16.1			DEL iP	14 58 57.0
		i	05 50 01.5			i	14 58 59.7
		UME iP	05 45 49.0			MYV iP	14 57 33.6
		iS	05 47 38.9			Greenland Sea (h = 10 km).	
		i	05 52 27.4	"	4	UDD iP	15 05 41.3
		iTSg1	05 52 40.6			DEL iP	15 06 30.4
		UDD iP	05 46 27.0			Greenland Sea (h = 10 km).	
		MYV iP	05 45 54.0	"	4	KIR iP	20 11 31.6
		Greenland Sea (h = 10 km).				UME iP	20 12 19.5
"	4	UME iP	05 51 10.5			UDD iP	20 13 02.9
		Greenland Sea (h = 10 km).				DEL iP	20 13 47.4
"	4	UPP iP	11 45 47.8			Greenland Sea (h = 10 km).	
		i	11 45 56.1	"	5	UPP iP	00 19 47.4
		KIR iP	11 44 10.5			KIR iP	00 19 16.7
		iS	11 45 21.5			Kuril Island (h = N).	
		i	11 49 09.6	"	5	UPP iP	07 00 08.3
		UME iP	11 44 59.4			iS	07 04 15.8
		i	11 47 18.0				micr sec
		i	11 51 43.3			P	Z' 0.1 1.0
		UDD iP	11 45 39.5			KIR iP	07 01 20.4
		DEL iP	11 46 28.6			UME iP	07 00 46.6 D
		MYV iP	11 45 04.0			Southern Greece (h = 40 km).	
		Greenland Sea (h = 10 km).		"	5	UPP eP	07 08 58
"	4	UPP iP	11 58 38.1			KIR iP	07 08 36.7
			micr sec			Taiwan region (h = 10 km).	
		P	Z' 0.1 0.7	"	5	UPP iP	08 33 22.4
		Greenland Sea (h = 10 km).				ipP	08 33 25.4
"	4	UPP iPKP1	12 15 30.4			KIR iP	08 32 51.8
		UME iPKP	12 15 13.7			UME iP	08 33 08.8
		Kermadec Island region (h = N).				Baja California, Mexico (h = 10 km).	
"	4	UPP iP	14 58 18.2	"	5	KIR eP	20 39 47
		i	14 58 25.8			Alaska Peninsula (h = N).	
			micr sec				
		Mx	Z 5.6 18				
		(cont).					

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1993				1993			
Mar.	6	UPP	iSn	01 29 15.1	Mar.	6	(cont).
		UME	iSn	01 30 23.7			UME ePKP 10 21 35
			iSg1	01 31 27.1			South of Fiji Islands (h = 20 km).
			i	01 31 30.1			M = 6.4 (UPP,KIR).
		UDD	iPn	01 27 46.2	"	6	UPP iP 11 43 12.0
		DEL	iPn	01 27 49.5			KIR iP 11 43 03.6
			iSn	01 28 32.9			ipP 11 43 24.3
		MYV	iSn	01 29 21.2			UME iP 11 43 09.7
			iSg1	01 30 01.2			ipP 11 43 28.6
		Southern Norway, 58.1°N, 6.8°E.					Near coast of Nicaragua.
		Origin time = 01 26 46.					h = 75 km (KIR,UME).
		M _L (UPP) = 3.4 1.					
		Felt.					
		By combination with Finnish station readings.		"	6	UPP Mx 17 42	
"	6	KIR	iP	01 56 01.0			micr sec
		UME	iP	01 56 19.9			Mx Z 18 22
		Off east coast of Honshu, Japan (h = 15 km).				KIR ePKP 16 45 44	micr sec
"	6	UPP	iPKP	03 24 54.1			Mx Z 14 20
			iPP	03 26 49			UME iPKP 16 45 49.4
				micr sec			Solomon Islands (h = 25 km).
			Mx	Z 62 18			M = 6.6 (UPP,KIR).
		KIR	iPKP	03 24 40.1	"	6	UME iPKP1 20 09 36.1
				micr sec			Kermadec Islands region
			Mx	Z 45 19			(h = 170 km).
		UME	iPKP	03 24 45.6	"	6	KIR iP 21 07 59.0
		Santa Cruz Islands region (h = 20 km).					UME iP 21 08 22.2
		M = 7.2 (UPP,KIR).					Kuril Islands (h = 40 km).
"	6	UPP	Mx	06 57	"	7	UME iP 00 47 28.8
				micr sec			Near east coast of Honshu, Japan (h = 80 km).
			Mx	Z 6.7 28	"	7	UME iP 07 43 30.3
		KIR	Mx	07 01			Ryukyu Islands (h = 55 km).
				micr sec			
			Mx	Z 2.8 20	"	7	KIR iP 14 15 40.5
		UME	iPKP	06 08 55.2			UME iP 14 16 24.8
		Solomon Islands (h = 30 km).					UDD iP 14 17 05.0
		M = 6.0 (UPP,KIR).					MYV iP 14 16 34.0
"	6	UPP	iPKP	10 21 39.9			North of Svalbard (h = 10 km).
			iPKP1	10 21 44.9	"	8	UPP iP 08 12 21.0
				micr sec			KIR iP 08 11 35.7
			Mx	Z 9.5 20			Kuril Islands (h = 70 km).
		KIR	iPKP	10 21 29.0	"	9	UPP iPKP2 01 49 25.5
				micr sec			KIR iPKP2 01 49 17.9
			Mx	Z 7.1 20			(cont).
		(cont).					

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1993				1993			
Mar.	9	(cont). UME iPKP1	01 49 11.1	Mar.	11	UPP iP	20 56 39.0
		West of Macquarie Islands (h = 10 km).				KIR iP	20 56 22.8
						UME iP	20 56 34.3
						Guerrero Mexico (h = 70 km).	
"	9	UPP iPP	08 04 33.9	"	12	UPP iPKP	14 20 51.3
		KIR iPKP	08 04 53.5				micr sec
		UME iPKP	08 04 48.6 D			Mx Z	12 21
		South Sandwich Islands region (h = N).				KIR iPKP	14 20 37.0
							micr sec
						Mx Z	6.4 22
"	9	UPP iPKP	08 29 14.7			UME iPKP	14 20 44.9
		KIR ePKP	08 29 33			Fiji Islands region (h = 10 km).	
		UME iPKP	08 29 24.1				
		South Sandwich Islands region (h = N).		"	13	UPP iP	00 01 40.7
						Kuril Islands (h = 50 km).	
"	10	UPP iPKP	12 58 19.8	"	13	UPP iPKP1	00 06 02.4
		UME iPKP	12 58 28.1			Kermadec Islands region (h = N).	
		South Sandwich Islands region (h = N).		"	13	UME iPKP	03 21 11.2
						Fiji Islands region (h = 630 km).	
"	10	UPP iP	22 07 00.0	"	13	UPP iP	06 46 38.6
		UME iP	22 06 34.4				micr sec
		Kuril Islands (h = 140 km).				P Z'	0.1 0.8
"	10	KIR eSg1	23 47 51			KIR eP	06 45 51
		Norrbottnen, Sweden, 66.0°N, 23.6°E. Origin time = 23 46 40. By combination with Finnish station readings.				UME iP	06 46 12.6
						Kuril Islands (h = N).	
"	11	KIR eP	04 29 01	"	13	UPP iPKP1	07 06 37.6
		UME iP	04 29 52.0			South of Fiji Islands (h = 80 km).	
		Tajikistan (h = N).		"	13	UPP eP	09 18 52
						KIR iP	09 18 27.4
"	11	UPP iP	12 06 38.3			UME iP	09 18 40.6
		UME iP	12 06 18.6			West Caroline Islands (h = 45 km).	
		South of Honshu, Japan (h = 370 km).		"	13	KIR eP	09 32 46
						UME iP	09 33 13.1
"	11	UPP iP	12 59 51.9			Baffin Island region, Canada (h = 10 km).	
		Mindanao Philippine Islands (h = 40 km).		"	13	UME iP	09 57 44.4
						Guatemala (h = N).	
"	11	UPP iP	16 38 21.1	"	13	UPP iP	13 24 12.8
		UME iP	16 37 58.6			KIR iP	13 23 47.0
		Hokkaido Japan region (h = 90 km).				UME iP	13 23 57.7
						Northeast of Taiwan (h = 210 km).	

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1993				1993					
Mar.	13	UPP	iP	17 20 25.9	Mar.	15	UME	iP	04 38 15.0
			iPP	17 22 16.5					
			iS	17 26 50	"	15	UPP	ePP	16 28 16
				micr sec				iSKS	16 34 09
			P	Z' 0.2 1.5					micr sec
			Mx	Z 1.7 16				Mx	Z 21 30
		KIR	iP	17 21 18.1			KIR	Mx	17 11
				micr sec					micr sec
			P	Z' 0.5 1.7				Mx	Z 7.1 24
			Mx	Z 3.8 20					Near coast of northern Chile
		UME	iP	17 20 50.2					(h = 30 km).
			iPcP	17 22 27.2					M = 6.3 (UPP,KIR).
				Red Sea (h = 10 km).					
				m = 5.9, M = 5.2 (UPP,KIR).	"	15	UME	iPKP	18 41 41.1
									Tonga Islands (h = 70 km).
"	13	UPP	iP	18 12 29.8	"	15	KIR	iPg1	20 08 45.3
"	13	UPP	iPKP1	19 24 28.9				i	20 08 52.8
				South of Fiji Islands (h = 65 km).				iSg1	20 08 54.7
"	14	UPP	iP	00 58 23.4			UME	iSn	20 10 04.1
				Near S. coast of southern Honshu				iSg1	20 10 19.8
				(h = 35 km).					Lapland, Sweden, 67.2°N, 19.6°E.
"	15	UPP	iP	00 53 42.2					Origin time = 20 08 32.
		KIR	eP	00 52 59					$M_L(\text{UPP}) = 2.5$ 1.
		UME	iP	00 53 19.1					By combination with Finnish station
				Off east coast of Honshu, Japan					readings.
				(h = 30 km).	"	16	KIR	eP	13 14 53
"	15	UPP	iP	03 46 04.5			UME	iP	13 14 47.3
				micr sec					Tajikistan-Xinjiang border region
			P	Z' 0.1 1.0					(h = 140 km).
		KIR	iP	03 45 20.9	"	16	UPP	iP	23 08 50.9
		UME	iP	03 45 41.4 D			KIR	iP	23 09 38.1
				Hokkaido Japan region (h = 55 km).				ipP	23 09 42.1
									micr sec
"	15	KIR	eSn	03 54 03.4				P	Z' 0.4 1.5
			iSg1	03 54 11.4			UME	iP	23 09 12.8
		UME	iSn	03 54 24.9					Ethiopia (h = 15 km).
			iSg1	03 54 41.6	"	17	KIR	iPKP	04 55 01.6
				Coast of northwestern Norway,			UME	iPKP	04 54 59.7
				66.8°N, 13.1°E.					Off coast of central Chile
				Origin time = 03 52 35.					(h = 10 km).
				$M_L(\text{UPP}) = 2.6$ 1.	"	17	KIR	iP	10 22 24.6
				By combination with Finnish station			UME	iP	10 22 17.7
				readings.					Kyrgyzstan (h = 20 km).
"	15	KIR	eP	04 28 53					
				Jawa, Indonesia (h = 70 km).					

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1993				1993			
Mar.	18	UPP	eP	07 56 15	Mar.	19	(cont).
		UME	iP	07 56 52.7			UME iP 06 10 54.1
		Turkey (h = 10 km).					ipP 06 11 03.5
"	18	UPP	iP	15 51 47.4 C			Near east coast of Honshu, Japan
			i	15 51 49.9			h = 35 km (UPP,KIR,UME).
			ipP	15 51 59.8			m = 5.8 (UPP,KIR).
			iPP	15 52 18.3	"	19	UPP iP 06 13 03.5
			iS	15 55 42.4			KIR iP 06 12 23.4
				micr sec			UME iP 06 12 41.7
			P	Z' 0.6 1.3			Near east coast of Honshu, Japan
			P	Z' 0.8 1.0			(h = 35 km).
			Mx	Z 8.7 22	"	19	UPP iP 12 30 49.8
		KIR	iP	15 52 50.7			KIR iP 12 29 54.1
			i	15 52 52.7			UME iP 12 30 23.4
			ipP	15 53 02.5			Southern Alaska (h = 100 km).
			iPP	15 53 44.4			
				micr sec	"	19	UME iPKP1 12 43 53.5
			P	Z' 0.6 1.8			Kermadec Islands region
			P	Z' 0.6 1.3			(h = 420 km).
			Mx	Z 8.5 22	"	19	UPP iP 16 05 23.6
		UME	iP	15 52 08.3			micr sec
			i	15 52 10.2			P Z' 0.1 1.1
			ipP	15 52 19.8			KIR iP 16 05 22.3
			i	15 52 30.3			UME iP 16 05 27.0
			iPP	15 52 53.6			Andaman Islands, India (h = 25 km).
		UME	iS	15 56 39.1	"	19	KIR iP 17 54 02.1
		Greece.					North of Severnaya Zemlya
		h = 50 km (UPP,KIR,UME).					(h = 10 km).
		m = 6.1, M = 5.2 (UPP,KIR).					
		Double shock, small and large about					
		2.1 Sec. apart.					
"	18	KIR	iP	19 37 47.5	"	19	KIR iP 20 11 19.3
		Komandorsky Islands region					UME iP 20 10 53.2
		(h = 20 km).					Eastern Caucasus (h = 65 km).
"	18	KIR	eP	23 11 17	"	20	UPP iP 01 14 18.4
		Myanmar-India border region					ipP 01 14 29.8
		(h = 90 km).					KIR iP 01 13 39.5
							UME iP 01 13 56.7
"	19	UPP	iP	06 11 15.3			ipP 01 14 07.1
			ipP	06 11 26.4			Near east coast of Honshu, Japan
				micr sec			h = 35 km (UPP,UME).
			P	Z' 0.1 1.0	"	20	KIR iP 05 58 27.8
		KIR	iP	06 10 36.6			Red Sea (h = 10 km).
			ipP	06 10 46.7			
				micr sec	"	20	KIR eP 06 31 23
			P	Z' 0.1 1.2			UME iP 06 31 37.8
		(cont).					Bonin Islands region (h = N).

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

1993				1993			
Mar.	20	KIR eP UME iP Carlsberg Ridge (h = 10 km).	06 40 56 06 40 34.2	Mar.	20	KIR iP UME iP Near coast of Michoacan, Mexico (h = 60 km).	17 54 15.9 17 54 27.4
"	20	UPP iPKP iSKP1 P Z' 0.1 0.8 KIR iPKP iSKP1 P Z' 0.2 1.0 UME iPKP iSKP1 South Sandwich Islands region (h = 120 km).	09 39 10.1 09 42 33.9 micr sec 09 39 24.6 09 42 32.4 micr sec 09 39 17.7 09 42 36.8	"	20	KIR iP UME iP Minahassa Peninsula, Sulawesi (h = 150 km).	19 21 52.7 19 21 57.3
"	20	UPP iP	09 49 14.1	"	20	UPP iP KIR iP UME iP Xizang (h = 20 km).	21 36 12.7 21 37 09.5 21 37 06.2
"	20	UPP iP KIR iP UME iP Southern Sumatera, Indonesia (h = 25 km).	10 20 55.7 10 20 56.3 10 20 53.1	"	20	UPP iPKP South of Fiji Islands (h = 530 km).	22 29 57.6
"	20	UPP iP KIR iP P Z' 0.1 1.0 UME iP Bonin Islands region (h = 280 km).	11 14 05.4 11 13 34.5 micr sec 11 13 48.4	"	20	KIR eP Minahassa Peninsula, Sulawesi (h = N).	23 00 07
"	20	UPP iP KIR iP P Z' 0.1 1.0 UME iP Bonin Islands region (h = 280 km).	11 14 05.4 11 13 34.5 micr sec 11 13 48.4	"	21	UPP i(PKP) i iPKP iSKP1 KIR iPKP iSKP1 UME i(PKP) iPKP iSKP1 Fiji Islands region (h = 590 km).	05 23 04.6 05 23 07.9 05 23 14.7 05 25 54.0 05 23 00.3 05 25 27.2 05 22 52.3 05 23 06.0 05 25 39.5
"	20	UPP iP KIR iP UME iP Fox Islands, Aleution Islands (h = N).	11 32 27.9 11 31 34.6 11 32 01.6	"	21	UME iPKP1 Off east coast of North Island, New Zealand (h = 190 km).	15 06 57.4
"	20	UPP iP i iS P Z' 0.2 0.8 Mx Z 19 19 KIR iP i UME iP i Xizang (h = 10 km).	15 01 33.8 15 01 41.2 15 09 22 micr sec 0.2 0.8 19 19 15 01 31.0 15 01 38.1 15 01 33.4 15 01 34.2	"	22	UPP iP KIR iP UME iP Jawa, Indonesia (h = 50 km).	05 38 32.6 05 38 27.0 05 38 27.0
				"	22	UPP iP P Z' 0.1 1.1 KIR iP P Z' 0.3 1.0 UME iP Cyprus region (h = 30 km). m = 5.8 (UPP,KIR).	11 09 27.6 micr sec 11 10 26.3 micr sec 11 09 53.4 C

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

1993				1993				
Mar.	22	UPP	iP	14 09 32.9	Mar.	25	(cont).	
		KIR	iP	14 08 46.3			UME iP	05 53 57.1
		UME	iP	14 09 07.1			South of Honshu, Japan	
				Kuril Islands (h = 45 km).			(h = 410 km).	
"	22	UPP	iP	18 34 49.3	"	25	UPP iP	05 27 14.5
			ipP	18 34 59.0			Jan Mayen Islands region	
		KIR	iP	18 33 54.0			(h = 10 km).	
			i	18 34 09.3	"	25	UME iP	05 57 45.2
		UME	iP	18 34 21.7			Jan Mayen Island region (h = 10 km).	
			ipP	18 34 31.6	"	25	UPP iP	07 19 23.4 C
				Andreanof Islands, Aleutian Islands			micr sec	
				h = 35 km (UPP,UME).			P	Z' 0.3 0.9
"	23	UPP	iP	10 52 21.4			Mx	Z 9.0 25
		KIR	iP	10 51 34.0			KIR iP	07 18 40.2
		UME	iP	10 51 56.2			micr sec	
				Kuril Islands (h = N).			P	Z' 0.4 1.0
"	23	UME	iP	22 22 31.2			UME iP	07 18 59.7 C
				Kuril Islands (h = N).			Hokkaido, Japan region (h = 35 km).	
"	24	KIR	iP	00 42 37.4	"	25	UPP iP	12 35 42.9
				Xizang (h = N).			i	12 37 23.4
"	24	UPP	iP	11 31 05.6			micr sec	
		KIR	eP	11 30 52			P	Z' 0.1 0.6
				Near coast of Guerrero, Mexico			KIR iP	12 35 51.6
				(h = N).			micr sec	
"	24	KIR	iP	18 45 37.0			P	Z' 0.2 0.7
							UME iP	12 35 41.4
"	24	UPP	iP	18 56 00.0			Afghanistan-Tajikistan border region	
			i	18 56 20.5			(h = 90 km).	
				micr sec			m = 5.9 (UPP,KIR).	
			P	Z' 0.2 0.9	"	25	UPP iP	13 45 49.6
		KIR	iP	18 55 38.1			micr sec	
				micr sec			P	Z' 0.1 1.0
			P	Z' 0.2 0.9			KIR iP	13 45 07.1
		UME	iP	18 55 46.4			UME iP	13 45 31.1
				Philippine Islands region (h = N).			Washington-Oregon border region	
				m = 6.1 (UPP,KIR).			(h = 20 km).	
"	24	UPP	iP	22 51 10.2	"	25	UPP iSKP1	23 33 55.1
		UME	iP	22 50 36.2			KIR iSKP1	23 33 30.4
				Near N. coast of eastern Siberia			UME iSKP1	23 33 43.0
				(h = 10 km).			Fiji Islands region (h = 650 km).	
"	25	UPP	iP	03 54 16.8	"	26	UPP iP	11 50 11.2
				(cont).			micr sec	
							P	Z' 0.1 0.6
							(cont).	

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1993					1993			
Mar.	29	UPP	iP	04 30 06.5	Mar.	31	(cont).	
			i	04 30 11.1			UME	iPKP 04 00 21.9
		UME	iP	04 29 59.1				iSKP1 04 02 58.4
		Mindoro, Philippine Islands					South of Fiji Islands (h = 620 km).	
		(h = 100 km).						
"	29	UPP	iP	06 02 41.0	"	31	UPP	iP 05 20 04.6
		UME	eP	06 03 25			"	31 UPP iP 09 51 02.5
		Southern Greece (h = 10 km).					Ryukyu Islands (h = N).	
"	29	KIR	iPKP	07 16 10.0	"	31	UME	iP 10 30 59.0
		UME	iPKP	07 15 58.6			Querrero, Mexico (h = 30 km).	
		South of Africa (h = 10 km).						
"	29	UPP	iP	07 44 18.1	"	31	UPP	iP 13 53 43.2
		KIR	iP	07 44 07.0			KIR	iP 13 53 39.4
		UME	iP	07 44 06.2			UME	iP 13 53 36.5
		Mindoro, Philippine Islands					Xizang (h = 20 km).	
		(h = 55 km).				"	31 UPP iP 18 25 35.6	
"	29	UPP	iP	15 28 10.2			UME	iP 18 26 09.0
		UME	iP	15 28 24.6			Turkey (h = 15 km).	
		Southern Iran (h = 25 km).						
"	29	UME	iP	22 52 56.1				
		Southern Greece (h = 10 km).						
"	30	UME	iPKP	19 11 01.1				
		Kamchatka (h = N).						
"	30	UPP	iP	19 13 58.6				
		KIR	iP	19 15 15.7				
		UME	iP	19 14 35.2				
		Southern Greece (h = 10 km).						
"	30	UPP	iP	21 54 16.7				
			i	21 54 17.7				
		UME	iP	21 53 52.0				
		Hokkaido, Japan region (h = 90 km).						
"	31	UPP	iP	03 48 04.7				
		KIR	iP	03 47 39.6				
		UME	iP	03 47 48.2				
		Southwestern Ryukyu Islands						
		(h = 50 km).						
"	31	UPP	iPKP	04 00 22.0				
		KIR	iPKP	04 00 14.7				
			iSKP1	04 02 47.6				
		(cont).						

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Atia El-Sayed
Conny Holmqvist
Xin Pi
Rutger Wahlström

SEISMOLOGICAL DEPARTMENT
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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

APRIL 1 - 30, 1993

1993					1993				
Apr.	1	UME	iP	04 15 27.4	Apr.	2	KIR	iPKP	08 23 22.5
				Albania (h = 10 km).			UME	iPKP	08 23 28.7
									Tonga Islands region (h = 10 km).
"	1	UPP	iPKP	06 29 48.8	"	2	UPP	iP	09 53 39.5
		KIR	iPKP	06 29 40.5			KIR	iP	09 53 20.5
		UME	iPKP	06 29 47.7					Mindanao, Philippine Islands
				Fiji Islands region (h = 410 km).					(h = 45 km).
"	1	UPP	iP	16 40 32.8	"	2	UPP	iP	10 17 08.1
			ipP	16 40 59.3			KIR	iP	10 16 31.6 C
		KIR	iP	16 40 27.0			UME	iP	10 16 45.9 C
			ipP	16 40 53.4					Near west coast of Honshu, Japan
				micr sec					(h = 10 km).
			P	Z' 0.3 1.0					
		UME	iP	16 40 25.3	"	2	UPP	iP	12 07 53.6
			ipP	16 40 51.9					
				Myanmar-India border region.	"	2	UME	iP	13 00 47.9
				h = 110 km (UPP,KIR,UME).					Near west coast of Honshu, Japan
				m = 6.2 (UPP,KIR).					(h = 45 km).
"	1	UPP	iP	18 51 58.0	"	2	UPP	iP	14 44 29.0 D
		KIR	iP	18 51 52.4					micr sec
		UME	iP	18 51 50.3 C				P	Z' 0.1 0.7
				Myanmar-India border region			KIR	iP	14 44 01.7 D
				(h = 90 km).					micr sec
"	2	UPP	iPKP	02 15 07.1				P	Z' 0.3 1.0
			iSKP1	02 18 11.4			UME	iP	14 44 13.2 D
		KIR	iPKP	02 14 56.3					Mariana Islands (h = 500 km).
		UME	iPKP	02 15 02.9					m = 5.8 (UPP,KIR).
			i	02 15 32.5					
			iSKP1	02 17 57.0					
				Fiji Islands region (h = 360 km).					

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

1993				1993				
Apr.	2	UPP	iP	20 28 58.5	Apr.	4	KIR ePKP1	20 14 03
				micr sec			UME iPKP1	20 14 15.7
			P	Z' 0.1 1.1			South of Kermadec Islands	
			Mx	Z 1.5 26			(h = 130 km).	
		KIR	iP	20 28 57.9	"	4	UME iPKP	20 43 14.1 C
				micr sec			Northern Chile (h = 220 km).	
			Mx	Z 1.5 18	"	4	UPP iP	23 17 46.3
		UME	iP	20 28 59.1			KIR iP	23 17 29.4
			i	20 29 02.3			UME iP	23 17 35.0
		North Atlantic Ocean (h = 15 km).					Mindoro, Philippine Islands	
		M = 4.4 (UPP,KIR).					(h = 60 km).	
"	3	UPP	ePKP	04 20 22	"	5	KIR iPn	00 00 48.3
			iSKP1	04 23 04.4			Norwegian Sea, 71.2°N, 5.0°W.	
		KIR	ePKP	04 20 02			Origin time = 23 58 32.	
			iSKP1	04 22 41.4			By combination with Norwegian	
		UME	iPKP	04 20 11.2			station readings.	
			iSKP1	04 22 52.3				
		Fiji Islands region (h = 610 km).						
"	3	UPP	iP	05 10 41.3	"	5	UPP iPKP	04 18 59.3
		KIR	iP	05 10 33.8			micr sec	
		UME	iP	05 10 27.3			Mx Z	6.8 20
		Southern Xinjiang, China				KIR	iPKP	04 19 14.0
		(h = 25 km).				micr sec		
"	3	UPP	eP	14 17 28			Mx Z	6.8 21
		KIR	eP	14 17 25			UME	iPKP
		UME	iP	14 17 32.7			i	04 19 21.3
		North Atlantic Ocean (h = 10 km).					South Sandwich Islands region	
"	3	UPP	iPKP	15 48 58.8			(h = N).	
		Kermadec Islands region (h = N).					M = 6.3 (UPP,KIR).	
"	3	KIR	eP	17 14 37	"	5	UPP iPKP	04 35 27.2
		UME	eP	17 14 39			KIR ePKP	04 35 41
		Northern Colombia (h = 35 km).					UME iPKP	04 35 42.9
"	3	UME	iSg1	22 48 40.3			South Sandwich Islands region	
		UDD	iSg1	22 47 12.2			(h = N).	
		MYV	eSg1	22 47 10			M = 6.3 (UPP,KIR).	
		Off coast of southwestern Norway,						
		61.8°N, 4.0°E.						
		Origin time = 22 44 39.						
		By combination with Norwegian						
		station readings.						
"	4	UPP	eP	17 32 29	"	5	UME ePKP	06 13 37
		KIR	iP	17 31 33.9 C			South Sandwich Islands region	
		UME	iP	17 32 00.9 C			(h = N).	
		Unimak Island region (h = N).						

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1993				1993						
Apr.	9	(cont).		Apr.	11	UPP	iPKP2	07 19 59.6		
		UPP	iSKS					micr sec		
							Mx	Z 1.9 27		
			P			KIR	iPKP1	07 19 31.3		
			Z'			UME	iPKP1	07 19 38.3		
			Mx			North Island, New Zealand				
		KIR	iP			(h = 35 km).				
			P			"	11	UPP	iP	10 44 18.4
			Z'					KIR	iP	10 43 35.1
			Mx					UME	iP	10 43 54.6
		UME	iP			Hokkaido, Japan region (h = 140 km).				
		Luzon, Philippine Islands								
		(h = 35 km).								
		m = 5.9, M = 5.6 (UPP,KIR).								
"	9	UME	iP			"	11	UPP	iP	11 31 30.9
		South of Honshu, Japan (h = N).						KIR	iP	11 31 17.0 C
								UME	iP	11 31 21.3
"	10	UME	iP					Minahassa Peninsula, Sulawesi		
		Off coast of Ecuador (h = N).						(h = 280 km).		
"	10	KIR	eP			"	11	UPP	eP	16 14 33
								KIR	iP	16 14 51.1
		UME	iP					UME	iP	16 14 44.9
		Southern Molucca Sea (h = 40 km).						Northern Mid-Atlantic Ridge		
								(h = 10 km).		
"	10	UME	iPKP2			"	11	UPP	eP	18 45 44
		South of Kermadec Islands (h = N).						UME	iP	18 46 30.3
"	11	KIR	iP			"	11	UPP	iP	19 48 00.6
								KIR	eP	19 47 30
		UME	iP					UME	eP	19 47 38
		Northern Molucca Sea (h = 60 km).							ipP	19 47 47
"	11	UPP	iP					Philippine Islands region (h = 30 km).		
						"	11	UPP	iP	19 52 22.1
								KIR	iP	19 53 07.5
								UME	iP	19 52 01.1
								Tanzania (h = 30 km).		
"	11	UPP	iP			"	11	UPP	iPg1	20 15 21.4
									iSg1	20 15 38.1
								UME	iSg1	20 17 23.0
								UDD	iPg1	20 15 12.8
									iSg1	20 15 23.4
								DEL	iSg1	20 16 43.9
								MYV	iPg1	20 15 55.0
									iSg1	20 16 36.2
								Västmanland, Sweden,		
								59.8°N, 15.0°E.		
								Origin time = 20 14 59.		
								(cont).		
"	11	UME	iP							
		Volcano Islands region (h = N).								

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

1993			1993		
Apr.	11	(cont). M _L (UPP) = 2.7 (0.19) 3. Felt. Solution from FOA station readings.	Apr.	13	UPP eP 02 37 32 KIR eP 02 37 10 UME iP 02 37 13.4 ipP 02 37 34.4 Dominican Republic region (h = 80 km).
"	11	UPP iP 20 41 31.7 Andreanof Islands, Alution Islands (h = N).	"	13	UPP iP 06 31 01.1 KIR eP 06 31 11 UME iP 06 30 59.6 C Hindu Kush region, Afghanistan (h = 110 km).
"	11	UPP eP 23 29 49 UME eP 23 29 10 East of Severnaya Zemlya, Russia (h = 10 km).	"	13	UPP iP 11 26 54.3 KIR iP 11 26 17.5 UME iP 11 26 33.5 Near east coast of Honshu, Japan (h = 100 km).
"	11	UME iP 23 33 02.4 Southern Iran (h = 40 km).	"	13	UPP iP 16 10 03.6 KIR iP 16 09 58.1 UME iP 16 09 56.3 D Myanmar (h = 90 km).
"	12	UPP iP 03 58 22.9 UME eP 03 58 01 Eastern Xizang-India border region (h = 15 km).	"	13	UPP iP 18 03 35.1 KIR iP 18 03 33.3 UME iP 18 03 28.7 Kyrgyzstan (h = 20 km).
"	12	UPP iPKP 08 04 04.3 UME iPKP 08 03 56.6 iSKP1 08 06 47.5 South of Fiji Islands (h = 520 km).	"	13	UME iP 19 22 44.5 Kuril Islands (h = N).
"	12	UME iPKP1 08 13 03.1 South of Kermadec Islands (h = N).	"	13	UPP eP 20 20 51 KIR iP 20 20 34.7 UME iP 20 20 42.1 Northern Molucca Sea (h = 45 km).
"	12	UPP eP 10 01 43 UME iP 10 01 44.6 Tajikistan (h = 20 km).	"	13	UPP iP 23 02 57.7
"	12	UME iP 12 37 23.8 Celebes sea (h = 310 km).	"	14	UPP iP 00 10 30.9 KIR iP 00 09 47.0 UME iP 00 10 06.6 C Off coast of Hokkaido, Japan (h = 40 km).
"	12	UPP iP 14 08 26.0 KIR iP 14 08 55.8 C UME iP 14 08 35.4 C Southern Iran (h = 35 km).	"	14	UPP eP 01 52 17 i 01 52 28.5 KIR eP 01 52 17 UME iP 01 52 31.1 C Jamaica region (h = 25 km).
"	12	UPP iP 22 11 19.9 KIR eP 22 11 27 UME iP 22 11 17.1 Afghanistan-Tajikistan border region (h = 120 km).			

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

1993				1993			
Apr.	14	UME iP	05 58 15.3	Apr.	15	UME eP	03 10 16
		Tajikistan (h = N).				Off east coast of Honshu, Japan (h = N).	
"	14	UPP iP	06 09 37.5	"	15	UPP iP	10 44 44.1
		i	06 09 42.6				micr sec
		ipP	06 09 49.6			Mx	Z 1.7 18
		iS	06 18 44			KIR eP	10 45 22
			micr sec			UME iP	10 45 04.0
		P	Z' 0.1 1.0			Southern Mid-Atlantic Ridge (h = 10 km).	
		Mx	Z 4.2 27				
		KIR iP	06 08 45.1 C	"	15	KIR iP	11 43 15.9
		i	06 08 49.8			UME iP	11 43 34.7
		ipP	06 08 56.3			Fox Islands, Alutian Islands (h = N).	
		eS	06 17 02				
			micr sec				
		P	Z' 0.1 1.0	"	15	KIR ePKP	13 50 48
		Mx	Z 1.5 14			UME iPKP	13 51 00.8
		UME iP	06 09 11.9 C			iSKP1	13 53 45.8
		i	06 09 22.3			Fiji Islands region (h = 460 km).	
		ipP	06 09 23.0	"	15	KIR iP	14 51 40.4
		iS	06 17 52.2			Dodecanese Islands (h = 130 km).	
		Fox Islands, Alutian Islands. h = 40 km (UPP,KIR,UME). m = 5.9, M = 5.4 (UPP,KIR).		"	15	UPP eP	16 38 43
"	14	UPP iP	06 28 30.5			KIR eP	16 37 40
		Myanmar-India border region (h = 130 km).				Kuril Islands (h = 25 km).	
"	14	UPP iP	08 39 17.7	"	15	KIR eP	19 56 21
		UME iP	08 39 13.8 C			UME iP	19 56 25.2
		Northern Xijiang, China (h = N).				Leyte, Philippine Islands (h = 45 km).	
"	14	UPP eP	10 05 56	"	15	KIR eP	21 01 30
		KIR iP	10 05 54.2			Kuril Islands (h = N).	
		Southern Xijiang, China (h = 25 km).		"	16	UPP iP	04 19 52.0 C
"	14	UPP iP	17 29 55.0				micr sec
		KIR iP	17 29 13.6			P	Z' 0.1 1.0
		UME iP	17 29 32.0 D			KIR iP	04 18 59.0 C
		Near east coast of Honshu, Japan (h = 50 km).					micr sec
						P	Z' 0.1 0.7
"	14	UPP iP	20 14 31.5			UME iP	04 19 26.2 C
		KIR iP	20 14 21.0			Alaska Peninsula (h = 25 km). m = 5.9 (UPP,KIR).	
		UME eP	20 14 20	"	16	UPP iP	12 40 03.6
		Myanmar (h = 25 km).		"	16	UPP iPKP	14 26 45.2
"	15	UME iP	01 52 18.2			iSKP1	14 29 36.5
		Iceland region (h = 10 km).				KIR iPKP	14 26 32.5 C
						(cont).	

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1993				1993			
Apr.	20	UPP iP	13 47 44.3	Apr.	22	(cont).	
		KIR iP	13 48 51.4			UME iPKP2	22 35 57.7
		UME iP	13 48 16.6			Macquarie Islands region (h = 10 km).	
		Crete (h = N).		"	22	UPP iP	23 45 22.7
"	20	UPP iPKP	16 44 32.3			KIR iP	22 44 33.3
		iSKP1	16 47 22.1			UME iP	23 44 55.4
		KIR iPKP	16 44 24.9			Kuril Islands (h = 110 km).	
		iSKP1	16 46 58.7	"	23	KIR iPg1	08 49 09.0
		UME iPKP	16 44 20.7			iSg1	08 49 31.8
		iSKP1	16 47 10.6			UME eSg1	08 51 07
		Fiji Islands region (h = 590 km).				MYV eSg1	08 51 25
"	20	UME iPKP	20 27 01.2			Northern Norway, 68.3°N, 16.3°E.	
		Kermadec Islands region				Origin time = 08 48 41.	
		(h = 440 km).				M _L (UPP) = 2.7 1.	
"	21	KIR iP	13 11 39.2			By combination with Finnish station readings.	
		Minahassa Peninsula, Sulawesi		"	23	UPP eP	16 47 58
		(h = 150 km).				KIR eP	16 48 14
"	21	KIR iP	17 52 00.5			UME iP	16 47 56.6
		Fox Islands, Alutian Islands (h = N).				Northwest of Madagascar	
"	22	UPP eP	01 18 34			(h = 10 km).	
		KIR iP	01 18 33.1 C	"	24	UPP iP	04 18 57.5
			micr sec			UME iP	04 19 34.7
		P	Z' 0.2 0.8			Dodecanese Islands (h = 160 km).	
		UME iP	01 18 32.3	"	24	UPP iPKP	10 12 24.0
		Southern Sumatera, Indonesia				iSKP1	10 15 13.5
		(h = 70 km).				KIR ePKP	10 12 17
"	22	UPP iPKP1	03 37 23.2			i	10 12 20.7
		South of Fiji Islands (h = 510 km).				iSKP1	10 14 47.6
"	22	UPP iP	12 56 21.9			UME iPKP	10 12 24.5
			micr sec			iSKP1	10 15 01.1
		P	Z' 0.1 1.0			Fiji Islands (h = 600 km).	
		KIR iP	12 55 27.5 D	"	24	UPP iP	10 42 55.0
			micr sec			KIR eP	10 42 02 C
		P	Z' 0.1 0.7			UME iP	10 42 51.1 C
		UME iP	12 55 55.9			North of Svalbard (h = 10 km).	
		Kodiak Island region (h = 35 km).		"	24	UPP eP	15 58 24
		m = 5.9 (UPP,KIR).				KIR eP	15 58 15
"	22	UME iP	20 30 02.2			UME eP	15 58 11
		Eastern Honshu, Japan (h = 30 km).				Leyte, Philippine Islands (h = 45 km).	
"	22	UPP ePKP2	22 35 50	"	24	UPP eP	20 38 07
		KIR iPKP2	22 35 39.1			KIR iP	20 38 35.9
		(cont).				Southern Iran (h = N).	

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1993				1993					
Apr.	25	UPP	Mx	01 21	Apr.	26	UPP	iP	11 47 02.5
				micr sec			KIR	eP	11 46 10
			Mx	Z 1.5 22			UME	iP	11 46 36.8
		KIR	Mx	01 22			Kuril Islands (h = N).		
				micr sec	"	26	UPP	iP	15 04 53.5
			Mx	Z 1.4 20			KIR	iP	15 05 01.0
		UME	iPKP	00 26 18.2			UME	iP	15 04 50.1
		Samoa Islands region (h = N.)					Hindu Kush region, Afghanistan (h = 140 km).		
		M = 5.6 (UPP,KIR).							
"	25	UPP	iP	05 07 08.5	"	26	KIR	ePKP	15 43 27
		KIR	iP	05 06 21.7				ePKP1	15 43 38
		UME	iP	05 06 42.8 C			UME	iPKP1	15 43 46.5
		Kuril Islands (h = 50 km).					West of Macquarie Island (h = 40 km).		
"	25	UPP	iP	05 55 21.5	"	26	UPP	iP	16 32 39.7
		KIR	iP	05 54 50.3			KIR	iP	16 32 39.2
		UME	iP	05 55 04.0 D			UME	iP	16 32 28.4
		Bonin Islands region (h = 470 km).					Xizang (h = N).		
"	25	UPP	iP	09 41 39.5	"	26	UPP	iP	23 42 34.2
		KIR	iP	09 41 07.5			KIR	iP	23 41 54.7 C
		UME	iP	09 41 29.8			UME	iP	23 42 12.3 C
		Western Arizona (h = 10 km).					Near east coast of Honshu, Japan (h = 50 km).		
"	25	KIR	iP	14 41 44.5	"	27	UPP	eP	03 30 47
		Afghanistan-Tajikistan border region (h = N).					KIR	eP	03 30 00
"	25	UME	eP	15 01 58			UME	iP	03 30 20.8
		Afghanistan-Tajikistan border region (h = 40 km).					Kuril Islands (h = N).		
"	25	UPP	Mx	18 49	"	27	UPP	iP	03 50 18.7
				micr sec			KIR	iP	03 49 44.3
			Mx	Z 1.2 18			UME	iP	03 49 59.3
		KIR	Mx	18 46			South of Honshu, Japan (h = 90 km).		
				micr sec	"	27	UPP	Mx	07 16
			Mx	Z 0.9 20					micr sec
		Admiralty Islands region, P.N.G. (h = N).						Mx	Z 0.6 21
		M = 5.4 (UPP,KIR).					Eastern New Guinea reg., P.N.G. (h = 40 km).		
"	25	UME	iPKP	18 19 39.0	"	27	UPP	ePKP	08 58 15
		Fiji Islands region (h = 230 km).					KIR	iPKP	08 58 05.3
"	25	UPP	iP	22 06 53.4			UME	iPKP	08 58 13.3
		UME	iP	22 07 10.4			Tonga Islands (h = 60 km).		
		Western Iran (h = N).			"	27	UPP	eP	11 49 38
							Kodiak Island region (h = N).		

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1993				1993			
Apr.	27	UPP eP	12 24 20	Apr.	28	UPP iP	05 27 07.3
		Andaman Islands region (h = N).				KIR iP	05 26 17.5
"	27	UPP iP	13 21 11.6			UME iP	05 26 41.5
		UME iP	13 21 20.7			Kuril Islands (h = N).	
		Chagos Archipelago region (h = 10 km).		"	29	UPP ePKP1	03 02 33
						iPKP2	03 02 42.1
"	27	UPP iPKP	13 22 52.3			KIR ePKP1	03 02 14
		KIR iPKP	13 23 08.0 C			UME iPKP2	03 02 23.8
		UME iPKP	13 23 00.4			South of Kermadec Islands (h = 60 km).	
		South Sandwich Islands region (h = N).		"	29	UPP ePKP1	03 20 30
"	27	UPP eP	14 10 46			UME iPKP1	03 20 23.0 C
		epP	14 10 54			South of Kermadec Islands (h = 90 km).	
		Andaman Islands, India (h = N).		"	29	UPP iP	07 59 27.5
"	27	UPP iP	14 29 38.4				micr sec
		Qinghai, China (h = N).				P	Z' 0.1 0.8
"	27	KIR iPKP1	15 15 51.7			KIR eP	08 00 38
		UME iPKP1	15 15 57.1			UME iP	08 00 06.1 C
		Off W. coast of S. Island, New Zealand (h = 45 km).				Southern Greece (h = 10 km).	
"	27	UPP iP	17 48 11.7	"	29	UPP iP	08 32 50.3
		KIR iP	17 48 34.9			ipP	08 32 53.5
		UME iP	17 48 20.7 C				micr sec
		Chagos Archipelago region (h = 10 km).				P	Z' 0.1 1.2
"	27	UPP eP	20 12 13			KIR iP	08 32 18.9 C
		i	20 12 23.5			ipP	08 32 22.5
		KIR iP	20 13 00.9				micr sec
		UME iP	20 12 30.2			P	Z' 0.3 1.3
		Northwestern Caucasus (h = 15 km).				UME iP	08 32 37.3
						ipP	08 32 40.8
						Western Arizona. h = 10 km (UPP,KIR,UME). m = 6.0 (UPP,KIR).	
"	28	UPP iP	02 43 02.4	"	29	KIR iSg1	09 00 23.9
		KIR eP	02 42 17			UME iSg1	09 00 27.5
		UME iP	02 42 36.9			Norrbotten, Sweden, 65.9°N, 21.7°E. Origin time = 08 59 20. M _L (UPP) = 2.2 (0.35) 2. By combination with Finnish station readings.	
		Kuril Islands (h = 100 km).		"	30	UPP iPKP1	07 31 47.1
"	28	UPP IPKP	03 04 55.4			UME iPKP1	07 31 37.4 D
		KIR iPKP	03 05 14.5			South of Kermadec Islands (h = 10 km).	
		UME iPKP	03 05 03.8				
		South Sandwich Islands region (h = N).					

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1993

Apr.	30	UPP	iP	08 59 58.5
		KIR	eP	09 00 29
		UME	eP	09 00 12
		Central Mid-Atlantic Ridge (h = 10 km).		
"	30	UPP	eP	10 27 44
		KIR	eP	10 28 04
		UME	iP	10 27 54.0
		Mid-Indian Ridge (h = 10 km).		
"	30	UPP	iP	11 29 20.6
		KIR	iP	11 28 26.9 C
		UME	iP	11 28 52.2 C
		Near east coast of Kamchatka (h = 60 km).		
"	30	UME	iPKP1	14 29 52.4 C
		North Island, New Zealand (h = 80 km).		

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Conny Holmqvist
Xin Pi
Jaime Toral
Rutger Wahlström

SEISMOLOGICAL DEPARTMENT
 BOX 2101
 S-750 02 UPPSALA
 SWEDEN

SEISMOLOGICAL DEPARTMENT,
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 S - 750 02 UPPSALA
 SWEDEN

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

M A Y 1 - 31, 1993

1993					1993			
May	1	UPP eP	02 13 29		May	1	KIR eP	09 06 44
		KIR iP	02 12 35.0				Irian Jaya region, Indonesia	
		UME iP	02 13 11.4				(h = 25 km).	
		Andreanof Islands, Aleutian Is.			"	1	UPP eP	12 06 57
		(h = N).					KIR iP	12 06 32.0
"	1	UPP iP	03 00 41.6				Eastern Greenland (h = 10 km).	
			micr sec		"	2	UPP iP	02 21 43.4
		P	Z' 0.2 1.1					micr sec
		Mx	Z 1.8 17				P	Z' 0.1 1.2
		KIR iP	03 00 13.3				KIR eP	02 22 21
			micr sec				UME iP	02 21 13.2
		P	Z' 0.1 1.3				Southern Mid-Atlantic Ridge	
		UME iP	03 00 24.4				(h = 10 km).	
		Ryukyu Islands (h = 55 km).			"	2	UPP iP	04 33 44.7
		m = 5.9 (UPP,KIR).					KIR iP	04 33 34.3
"	1	UPP iP	04 59 13.8				UME eP	04 34 28
"	1	UPP eP	07 07 36		"	2	UPP iP	07 52 50.1
		Southwestern Ryukyu Islands						micr sec
		(h = N).					P	Z' 0.1 0.9
"	1	UPP iP	07 31 51.2				KIR iP	07 52 01.1
		KIR iP	07 30 57.8				UME iP	07 52 22.6
		UME iP	07 31 23.9				Kuril Islands (h = 30 km).	
		Rat Islands, Aleutian Islands.			"	2	UPP iP	07 58 07.1
		(h = 60 km).					ipP	07 58 13.9
"	1	KIR iP	08 44 52.2				KIR iP	07 57 40.4
							ipP	07 57 46.4

(cont).

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1993				1993			
May		UPP	iP	07 01 20.6	May	5	(cont).
				micr sec			UME i 18 32 29.1
			P	Z' 0.1 1.1			ipP 18 32 42.4
		KIR	iP	07 01 02.2			Eastern Honshu, Japan
		UME	iP	07 01 08.4			h = 100 km (UPP,KIR,UME).
				Mindanao, Philippine Islands			
				(h = 40 km).	"	6	UME iP 01 43 54.6
"	4	UPP	iP	20 56 01.6	"	6	UME iP 05 55 20.7
		KIR	eP	20 54 52			Minahassa Peninsula, Sulawesi
				Laptev Sea (h = 10 km).			(h = 35 km).
"	4	UPP	iP	22 44 40.1	"	6	UPP iP 08 09 42.5
			i	22 45 05.4			micr sec
			i	22 45 27.8			P Z' 0.3 1.1
				micr sec			Mx Z 3.0 20
		Mx	Z	1.3 14			KIR iP 08 08 54.1
		KIR	iP	22 45 21.0			micr sec
				micr sec			P Z' 0.6 1.6
		Mx	Z	1.4 17			Mx Z 2.4 20
		UME	iP	22 44 55.4			UME iP 08 09 16.7
			i	22 45 07.3			Kuril Islands (h = 35 km).
				Eastern Caucasus (h = 20 km).			m = 6.3, M = 5.4 (UPP,KIR).
				M = 4.5 (UPP,KIR).	"	6	UPP iP 10 02 59.3
"	5	UPP	iP	04 03 58.7			East of Kuril Islands (h = N).
		KIR	iP	04 04 07.1	"	6	UPP iP 10 08 32.6
		UME	iP	04 03 57.0			Kermadec Islands region
				Hindu Kush region, Afghanistan			(h = 380 km).
				(h = 230 km).	"	6	UPP iP 13 15 49.4
"	5	UPP	iP	04 34 59.2			ipP 13 17 53.7
				Ryukyu Islands (h = N).			iSKS 13 25 26
"	5	UME	iP	09 21 11.9			iS 13 26 17
				Caribbean Sea (h = 10 km).			KIR iP 13 15 56.4
"	5	UPP	iP	11 49 28.3			ipP 13 18 04.5
							UME iP 13 15 55.4
"	5	UPP	iP	18 15 33.8			ipP 13 18 01.8
		UME	iP	18 15 56.7			iSKS 13 25 34.7
				Ethiopia (h = 10 km).			Western Brazil.
							h = 590 km (UPP,KIR,UME).
"	5	UPP	iP	18 32 40.7	"	6	KIR iP 14 06 44.3
			i	18 32 51.9			Mindanao, Philippine Islands
			ipP	18 33 04.6			(h = 80 km).
		KIR	iP	18 31 59.7	"	6	UPP iP 16 33 02.9
			i	18 32 11.2			KIR iP 16 32 15.4
			ipP	18 32 23.9			UME iP 16 32 37.1
		UME	iP	18 32 16.6			Kuril Islands (h = N).
				(cont).			

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1993				1993			
May				May			
9	(cont).			11	(cont).		
	KIR	eP	22 27 32		UPP	Mx	Z 42 22
	UME	iP	22 27 54.6		KIR	iP	18 39 40.5
	Off coast of Oregon (h = 10 km).						micr sec
"	10	UPP	Mx	05 22		P	Z' 0.3 0.7
						Mx	Z 30 19
					UME	iP	18 39 47.3
						iSKS	18 50 14.9
					Mindanao, Philippine Islands (h = 60 km). m = 6.6, M = 6.7 (UPP,KIR).		
"	10	UPP	iP	10 30 45.7	"	11	UME ePKP 22 32 58
		UME	iP	10 31 23.8			Kermadec Islands, New Zealand (h = 170 km).
		Eastern Honshu, Japan (h = 170 km).					
"	10	UPP	iP	11 03 42.0	"	11	UPP iP 23 59 49.5
		KIR	iP	11 04 31.6			Andeanof Islands, Aleutian Is. (h = N).
		UME	iP	11 04 05.3			
		Ethiopia (h = 10 km).					
"	10	UPP	iP	14 13 16.9	"	12	UPP iPKP1 01 17 52.8
"	10	UPP	iP	19 45 50.7			iPKP2 01 17 57.9
		KIR	iP	19 46 27.8		UME	iPKP1 01 17 41.5
		UME	eP	19 46 05			Kermadec Islands region (h = 380 km).
		Southern Iran (h = N).					
"	11	UPP	eP	03 52 50	"	12	KIR iP 02 24 23.9
		Ethiopia (h = 25 km).					Philippine Islands region (h = N).
"	11	KIR	iPn	14 24 09.6	"	12	UPP iPKP 12 17 32.9
		UDD	iP	14 25 02.1			iKP1 12 20 28.5
			i	14 25 14.1		KIR	ePKP 12 17 26.5
		MYV	iPn	14 24 28.4			Fiji Islands region (h = 530 km).
		Jan Mayen Island region (h = 10 km).			"	12	UPP iP 13 29 11.1
"	11	UPP	iP	14 46 03.5			Ionian Sea (h = 25 km).
		Yunnan, China (h = N).			"	12	UPP iP 21 20 44.6
"	11	UPP	eS	16 51 36			Greece (h = 10 km).
				micr sec	"	12	UME iPKP 22 31 32.2
				Mx Z 1.1 26			South of Kermadec Islands region (h = N).
		Near coast of northern Chile (h = 45 km).			"	13	UPP iP 10 34 26.5
"	11	UPP	iP	18 40 00.0			ipP 10 34 42.7
			iSKS	18 50 28		KIR	iP 10 33 30.8
			iS	18 51 00			ipP 10 33 46.1
				micr sec		UME	iP 10 33 59.7
				P Z' 0.2 0.7			
		(cont).					(cont).

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1993				1993			
May	13	(cont). UME ipP Southern Alaska. h = 60 km (UPP,KIR,UME).	10 34 15.6	May	14	UME iPKP South Sandwich Islands region (h = N).	04 34 20.7
"	13	UPP iP iS iP'P' micr sec P Z' 0.7 0.9 Mx Z 115 26 KIR iP iP'P' i micr sec P Z' 1.7 1.0 Mx Z 62 25 UME iP iP'P' Alaska Peninsula (h = 30 km). m = 6.9, M = 6.7 (UPP,KIR).	12 10 27.1 C 12 19 02 12 39 04.5 12 09 33.7 C 12 39 11.6 12 39 26.5 12 10 00.6 C 12 39 06.5	"	14	KIR eP UME iP Northern Molucca Sea (h = 35 km).	10 13 34 10 13 41.3
"	13	UPP iP KIR iP UME iP Ethiopia (h = 20 km).	13 45 23.3 18 29 30.2 18 30 20.1 18 29 53.2	"	14	UPP iP KIR ePKP iSKP1 UME iPKP iSKP1 South of Fiji Islands (h = 530 km).	10 47 36.8 10 47 16
"	13	UPP eP Greece (h = 10 km).	21 37 55	"	14	UPP Mx micr sec Mx Z 0.6 23 Solomon Islands (h = 25 km).	22 40 0.6 23
"	13	UPP iP ipP KIR iP ipP micr sec P Z' 0.1 1.2 UME iP ipP Alaska Peninsula. h = 55 km (UPP,KIR,UME).	23 52 18.4 23 52 33.2 23 51 24.2 23 51 38.8 23 51 52.2 23 52 06.6	"	15	UPP iP KIR i UME iP Sea of Japan (h = 370 km).	02 06 52.9 02 06 16.3 02 06 31.9
"	13	UPP iP ipP KIR iP ipP micr sec P Z' 0.1 1.2 UME iP ipP Alaska Peninsula. h = 55 km (UPP,KIR,UME).	23 52 18.4 23 52 33.2 23 51 24.2 23 51 38.8 23 51 52.2 23 52 06.6	"	15	UPP iP KIR iP UME iP Mindanao, Philippine Islands (h = 30 km).	02 08 50.2 02 08 32.3 02 08 38.3
"	13	UPP iP ipP KIR iP ipP micr sec P Z' 0.1 1.2 UME iP ipP Alaska Peninsula. h = 55 km (UPP,KIR,UME).	23 52 18.4 23 52 33.2 23 51 24.2 23 51 38.8 23 51 52.2 23 52 06.6	"	15	UPP iP i iS micr sec P Z' 0.1 1.5 KIR iP i i micr sec P Z' 0.3 2.0 UME iP i i Near coast of Guerrero, Mexico (h = 20 km). m = 6.0 (UPP,KIR).	03 22 27.4 03 22 36.7 03 32 56 03 22 12.8 03 22 15.4 03 22 21.9 03 22 19.2 03 22 22.1 03 22 32.0
"	14	UME iP Gulf of California (h = 10 km).	02 16 22.2	"	15	UPP iP i iS micr sec P Z' 0.1 1.5 KIR iP i i micr sec P Z' 0.3 2.0 UME iP i i Near coast of Guerrero, Mexico (h = 20 km). m = 6.0 (UPP,KIR).	03 22 27.4 03 22 36.7 03 32 56 03 22 12.8 03 22 15.4 03 22 21.9 03 22 19.2 03 22 22.1 03 22 32.0
"	14	UPP eP KIR eP UME iP Myanmar (h = N).	02 50 00 02 49 55 02 49 53.2	"	15	UPP iP i iS micr sec P Z' 0.1 1.5 KIR iP i i micr sec P Z' 0.3 2.0 UME iP i i Near coast of Guerrero, Mexico (h = 20 km). m = 6.0 (UPP,KIR).	03 22 27.4 03 22 36.7 03 32 56 03 22 12.8 03 22 15.4 03 22 21.9 03 22 19.2 03 22 22.1 03 22 32.0

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

1993						1993					
May	17	(cont.)				May	18	UPP	iP	15 45	23.8
		UPP	iS	23 42	29			KIR	iP	15 45	05.9
								UME	iP	15 45	11.9
			P	Z'	0.3 1.5			Mindanao, Philippine Islands			
			Mx	Z	10 18			(h = 40 km).			
		KIR	iP	23 32	05.5						
			i	23 32	14.5		"	19	UPP	iP	00 00 46.6
									UME	iP	00 00 31.7
			P	Z'	0.9 2.0			California-Nevada border region			
			Mx	Z	7.8 14			(h = 5 km).			
		UME	iP	23 32	25.5		"	19	UPP	iP	00 09 32.9
		California-Nevada border region							UME	eP	00 09 18
		(h = 5 km).						California-Nevada border region			
		m = 6.3, M = 6.1 (UPP,KIR).						(h = 5 km).			
"	18	UPP	iP	07 28	54.9		"	19	UME	iP	04 06 47.0
		Andreanof Islands, Aleutian Is.						Hokkaido, Japan region (h = 70 km).			
		(h = 20 km).									
"	18	UPP	iP	08 14	13.7			19	UPP	eP	04 11 21
									KIR	eP	04 11 56
			P	Z'	0.1 1.1			Souther Iran (h = N).			
		KIR	iP	08 13	17.6		"	19	UPP	iPKP1	12 15 31.2
										iPKP2	12 15 35.2
			P	Z'	0.2 1.0					i	12 15 39.4
		UME	iP	08 13	46.4				KIR	iPKP	12 15 11.1
		Southern Alaska (h = 50 km).							UME	iPKP	12 15 18.9
		m = 6.0 (UPP,KIR).								i	12 15 24.2
"	18	UPP	iP	09 41	56.1					i	12 15 31.7
		UME	iP	09 42	18.5			Kermadec Islands, New Zealand			
		Ethiopia (h = 10 km).						(h = 25 km).			
"	18	UPP	iP	10 31	24.8		"	19	UPP	iP	14 25 14.3
			i	10 31	26.9				KIR	iP	14 24 39.4
			ipP	10 32	17.9				UME	iP	14 24 59.4
			iPP	10 34	32.0			California-Nevada border region			
			iS	10 41	14			(h = 0 km).			
			P	Z'	2.7 1.0		"	20	UPP	ePKP	01 47 44
			Mx	Z	14 16				KIR	ePKP	01 47 27
		KIR	iP	10 31	03.5				UME	iPKP	01 47 34.2
			i	10 31	05.9			Off east coast of North Island,			
								New Zealand (h = 120 km).			
			P	Z'	2.8 0.9		"	20	UPP	iP	02 08 22.8
			Mx	Z	6.3 12				KIR	eP	02 07 34
		UME	iP	10 31	10.7				UME	iP	02 07 57.9
			iS	10 40	46.5			Kuril Islands (h = N).			
		Philippine Islands region									
		(h = 170 km).									
		m = 7.0, M = 6.2 (UPP,KIR).									
		M uncorrected for focal depth.									

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

1993				1993			
May	20	UPP	iP	04 54 45.6	May	21	(cont).
		KIR	iP	04 54 16.0			KIR iP 02 47 25.5 C
		UME	iP	04 54 28.7			UME iP 02 47 41.7 C
				Volcano Islands region (h = N).			i 02 47 56.1
"	20	UPP	iP	05 08 40.2			Near south coast of Honshu, Japan
			iS	05 19 16			(h = 70 km).
				micr sec	"	21	UPP iP 03 19 59.6
		Mx	Z	1.3 23			KIR eP 03 20 09
		KIR	eP	05 08 31			UME iP 03 19 58.8
				micr sec			Hindu Kush region, Afghanistan
		Mx	Z	2.1 24			(h = 140 km).
		UME	iP	05 08 38.1	"	21	UPP iP 06 23 05.3
				Near coast of Guatemala (h = 30 km).			ipP 06 23 22.8
				M = 5.3 (UPP,KIR).			KIR iP 06 22 11.8
"	20	UPP	iP	08 55 53.3			ipP 06 22 29.0
			i	08 55 55.3			UME iP 06 22 37.7
				micr sec			ipP 06 22 55.6
		Mx	Z	1.1 14			Andreanof Islands, Aleutian Is.
		KIR	iP	08 55 23.2			h = 70 km (UPP,KIR,UME).
				micr sec	"	21	UPP iP 06 51 15.4
		Mx	Z	0.7 17			
		UME	iP	08 55 36.2	"	21	UME iP 21 30 00.7
				Ryukyu Islands (h = 25 km).			South of Honshu, Japan (h = N).
				M = 5.1 (UPP,KIR).			
"	20	UPP	iP	11 21 46.7	"	22	KIR iPKP1 03 31 15.5
		KIR	iP	11 21 32.4			UME iPKP1 03 31 15.7
		UME	iP	11 21 37.2			Southern Pacific Ocean (h = 10 km).
				Southern Molucca Sea (h = 30 km).	"	22	UPP Mx 06 06
"	20	UPP	eP	18 59 36			micr sec
		KIR	eP	18 58 34			Mx Z 0.4 16
				Andreanof Islands, Aleutian Is.			Bismarck Sea (h = 90 km).
				(h = N).	"	22	UPP eP 07 09 18
"	20	UPP	iP	20 06 36.0			Greece-Albania border region
		KIR	iP	20 07 11.7			(h = 10 km).
		UME	eP	20 06 53	"	22	UPP iPKP1 10 07 27.3
				Southern Iran (h = N).			iPKP2 10 07 31.3
"	20	UPP	eP	22 46 52			KIR iPKP 10 07 04.8
		KIR	eP	22 45 32			UME iPKP 10 07 15.8
		UME	iP	22 46 16.6			Kermadec Islands region
				Norwegian Sea (h = 10 km).			(h = 220 km).
"	21	UPP	iP	02 48 03.5 C	"	22	KIR iP 14 25 53.9
				micr sec			Southern Sumatera, Indonesia
		P	Z'	0.1 0.7			(h = 200 km).
				(cont).			

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1993				1993				
May	22	UPP	iP	19 57 34.6	May	23	(cont).	
		KIR	iP	19 57 03.0			UME iP	17 23 38.7
		UME	iP	19 57 16.1			i	17 23 43.5
				Bonin Islands regin (h = 450 km).			Romania (h = 20 km).	
"	23	UME	iP	01 57 31.8	"	24	UPP iP	00 07 45.4
				Off coast of Costa Rica (h = N).			Xizang (h = N).	
"	23	UPP	iPKP	07 18 46.5	"	24	UPP iP	05 12 32.4
			iSKP1	07 21 54.4				micr sec
		UME	iPKP	07 18 38.1			P	Z' 0.1 1.0
			iSKP1	07 21 41.7			KIR iP	05 12 21.6
				Vanuatu Islands (h = 180 km).			UME iP	05 12 22.1
"	23	UPP	iP	07 45 30.0			Eastern Xizang-India border region (h = N).	
				Greece-Albania border region (h = 15 km).	"	24	UPP iP	06 52 15.3
"	23	UPP	iP	07 46 21.4			KIR iP	06 51 57.9
				Northern Colombia (h = 170 km).			UME iP	06 52 04.5
"	23	UPP	iP	07 46 43.3			Mindoro, Philippine Islands (h = 200 km).	
				micr sec	"	24	KIR iP	12 09 09.7
		Mx	Z	1.2 13			Halmahera, Indonesia (h = 40 km).	
		UME	iP	07 47 19.1	"	24	UPP eP	19 18 14
				Strait of Gibraltar (h = 25 km).			KIR eP	19 17 22
				M = 4.8 (UPP,KIR).			Fox Islands, Aleutian Islands (h = N).	
"	23	KIR	eP	15 14 18	"	25	UPP iPdiff	00 05 18.1
				Southern Xinjiang, China (h = N).			iSKS	00 15 30
"	23	UPP	iP	16 29 28.4			iS	00 16 54
				micr sec			iPKKP	00 20 52.3
		Mx	Z	0.9 22			KIR ePdiff	00 05 34
		KIR	iP	16 28 40.1				micr sec
				micr sec			Mx	Z 5.7 20
		Mx	Z	1.0 17			UME ePdiff	00 06 12
		UME	iP	16 29 02.1			iSKS	00 15 41.1
				Kuril Islands (h = 20 km).			Jujuy Province, Argentina (h = 220 km).	
				M = 4.9 (UPP,KIR).			M = 6.2 (UPP,KIR).	
"	23	UPP	iP	17 22 55.0			M uncorrected for focal depth.	
			iS	17 27 36	"	25	UPP ePKP	02 32 30
				micr sec			KIR iPKP	02 32 15.9
		Mx	Z	1.4 6			UME iPKP	02 32 23.2
		KIR	iP	17 24 24.9			Vanuatu Islands (h = 190 km).	
			i	17 24 30.3	"	25	UME iPKP	08 31 07.7
				micr sec			Santa Cruz Islands (h = 260 km).	
		P	Z'	0.2 1.0				
		Mx	Z	1.2 6				
				(cont).				

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1993				1993			
May	25	KIR	iPg1	23 17 39.9	May	27	(cont).
			iSg1	23 18 08.4			UPP ipP 18 01 20.8
		UME	iSg1	23 18 13.6			KIR eP 18 01 01
		MYV	iSg1	23 19 24.0			epP 18 01 15
		Northern Norway, 67.4°N, 15.3°E.					UME iP 18 00 59.8
		Origin time = 23 17 04.					ipP 18 01 14.2
		$M_L(\text{UPP})=2.5 (0.12) 2.$				Myanmar.	
		By combination with Finnish and Norwegian station readings.				h = 55 km (UPP,KIR,UME).	
"	25	UPP	iP	23 27 23.0 C	"	27	UPP eP 18 07 11
			i	23 27 40.2			KIR iP 18 06 22.2
			iS	23 36 00			UME eP 18 06 53
			iP'P'	23 56 14.6			South of Alaska (h = N).
				micr sec	"	27	UPP iP 18 19 51.4
			P	Z' 0.7 0.9			ipP 18 19 55.5
			Mx	Z 7.6 26			KIR iP 18 19 52.0
		KIR	iP	23 27 28.6			ipP 18 19 55.9
			i	23 27 47.0			UME iP 18 19 54.8
			iP'P'	23 56 18.3			iP 18 19 59.0
				micr sec			Near west coast of Colombia.
			P	Z' 1.4 0.7			h = 15 km (UPP,KIR,UME).
			Mx	Z 3.2 23	"	27	UPP Mx 22 36
		UME	iP	23 26 56.4			micr sec
			i	23 27 12.7			Mx Z 0.8 20
			i	23 37 06.2			Leeward Islands (h = 40 km).
			iP'P'	23 56 20.8	"	28	UPP eP 04 59 38
		Alaska Peninsula (h = 35 km).					KIR eP 04 59 08
		m = 6.9, M = 5.5 (UPP,KIR).					Central California (h = 20 km).
"	26	UPP	eP	14 19 56	"	28	UME iP 11 19 47.8
		KIR	eP	14 19 36			South India Ocean (h = 10 km).
		Southern Xinjiang, China (h = N).		"	28	KIR iP 15 35 08.5	
"	26	UPP	iP	22 15 14.8	"	28	UPP iP 16 06 02.3
		KIR	eP	22 16 26			iS 16 14 42
		UME	eP	22 15 51			micr sec
		Southern Greece (h = 40 km).					Mx Z 0.7 17
"	27	UPP	iP	05 08 19.3			KIR Mx 16 33
		UME	iP	05 08 06.3			micr sec
"	27	UPP	iPKP	09 11 26.9			Mx Z 0.5 14
			iPKP1	09 11 29.5			UME iP 16 05 36.4
		KIR	iPKP	09 11 06.6			South of Alaska (h = N).
		UME	iPKP	09 11 16.5			M = 4.8 (UPP,KIR).
		Kermadec Islands, New Zealand (h = 120 km).		"	28	UME iPKP 18 40 17.2	
"	27	UPP	iP	18 01 06.0			South Sandwich Islands region (h = N).
		(cont).					

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1993				1993			
May	29	UME iP	00 11 17.1	May	29	UPP iP	23 50 58.4
		Unimak Island region (h = N).				Greece (h = 10 km).	
"	29	UME iPKP	00 37 30.0	"	30	UME iP	05 00 39.4
		Tonga Islands (h = 200 km).				Banda Sea (h = 110 km).	
"	29	UME iPKP	02 18 43.1	"	30	UME iP	10 27 53.0
		Fiji Islands region (h = 650 km).				Kuril Islands (h = 160 km).	
"	29	UPP iP	06 59 18.9 C	"	30	KIR iP	14 26 29.3
		iS	07 06 30			UME eP	14 26 42
			micr sec				
		Mx	Z 22 15	"	30	UPP ePKP	14 30 53
		KIR Mx	07 19				micr sec
			micr sec			Mx	Z 3.0 24
		Mx	Z 14 19			KIR ePKP	14 30 44
		UME iP	06 59 43.0				micr sec
		iS	07 07 21.9			Mx	Z 1.3 19
		North Atlantic Ocean (h = 10 km).				UME iPKP	14 30 49.7
		M = 6.1 (UPP,KIR).				Near north coast of Guinea, P.N.G.	
"	29	UPP iP	08 42 15.8			(h = 5 km).	
		Carlsberg Ridge (h = 10 km).				M = 5.6 (UPP,KIR).	
"	29	UPP ePKP	11 57 59	"	30	UME iP	15 47 56.0
		i	11 58 17.1			Turkey (h = 15 km).	
		Kermadec Islands, New Zealand		"	30	UPP iPKP	16 50 58.2
		(h = 180 km).				UME iPKP	16 50 51.6
"	29	KIR iPn	12 40 58.3			New Britain region (h = 100 km).	
		iSn	12 41 12.9	"	30	UPP iP	17 22 21.9
		UME iPn	12 42 46.4			iPP	17 26 24.3
		iSn	12 44 36.5			iSKS	17 32 50
		iLg1	12 45 30.4				micr sec
		UDD iPn	12 43 24.2			Mx	Z 1.1 26
		MYV iPn	12 42 57.0			KIR iP	17 22 06.8
		eSn	12 45 00			iPP	17 25 55.8
		Norwegian Sea, 73.4°N, 5.8°E.					micr sec
		Origin time = 12 40 14.				P	Z' 0.2 1.2
		By combination with Finnish station				Mx	Z 0.9 19
		readings.				UME iP	17 22 11.7 D
"	29	UPP eP	18 14 58			iSKS	17 32 37.8
		Andreanof Islands, Aleutian Is.				Halmaheera, Indonesia (h = 80 km).	
		(h = N).				M = 5.2 (UPP,KIR).	
						M uncorrected for focal depth.	
"	29	UPP iP	18 28 38.0	"	30	UPP eP	22 15 48
		UME iP	18 28 18.7			UME iP	22 16 20.6
		South of Honshu, Japan				Crete (h = 80 km).	
		(h = 350 km).					

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1993						1993			
May	30	UPP	iP	22 47 34.7		May	31	UME	eP 06 24 07
			iSKS	22 58 10					Near south coast of Honshu, Japan
				micr sec					(h = N).
			Mx	Z 1.6 23					
		KIR	iP	22 47 21.6 D		"	31	UPP	iP 07 39 54.6
				micr sec				KIR	eP 07 41 30
			Mx	Z 1.1 18				UME	eP 07 40 39
		UME	iP	22 47 26.6					Greece-Albania border region
			i	22 58 21.2					(h = 15 km).
				South Molucca Sea (h = 80 km).		"	31	UPP	iPKP 08 55 20.5
				M = 5.4 (UPP,KIR).					Ross Sea (h = 10 km).
				M uncorrected for focal depth.					
"	30	UPP	iP	23 02 10.6		"	31	UME	iP 10 01 46.7
			ipP	23 02 21.4					
		UME	iP	23 01 45.0		"	31	UPP	iP 13 38 47.9
			ipP	23 01 55.9				KIR	iP 13 39 51.3
				Kuril Islands.				UME	eP 13 39 41
				h = 35 km. (UPP,KIR).					Greece-Albania border region
									(h = 10 km).
"	30	UPP	iP	23 53 07.1		"	31	UPP	iPKP1 21 34 39.2
				micr sec				UME	iPKP 21 34 27.7
			Mx	Z 0.8 12					Kermadec Islands region (h = 70 km).
		KIR	Mx	24 05					
				micr sec					
			Mx	Z 0.5 12					
		UME	iP	23 53 47.9					
				Greece-Albania border region					
				(h = 55 km).					
				M = 4.2 (UPP,KIR).					
"	31	UPP	iP	00 05 25.2 C					
				micr sec					
			P	Z' 0.1 0.7					
			Mx	Z 1.6 12					
		KIR	iP	00 06 42.5					
				micr sec					
			Mx	Z 0.7 14					
		UME	iP	00 06 05.8					
				Greece-Albania border region					
				(h = 35 km).					
				M = 4.5 (UPP,KIR).					
"	31	KIR	eP	00 13 38					
		UME	iP	00 13 19.3					
				Southern Iran (h = N).					February 15, 1995
"	31	UPP	iP	03 24 46.8					Conny Holmqvist
		KIR	eP	03 24 04					Xin Pi
		UME	iP	03 24 23.5					Ronnie Quintero
				Hokkaido, Japan region (h = 65 km).					Rutger Wahlström

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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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1993					1993				
June	1	UPP	iP	07 39 01.0	June	1	(cont).		
			ipP	07 39 13.8			UME	iP	19 55 17.9
		KIR	iP	07 38 19.1			Northwestern Balkan region		
			ipP	07 38 31.9			(h = 30 km).		
		UME	iP	07 37 37.8	"	2	UPP	iSKS	03 25 18
			ipP	07 37 51.2					micr sec
		Near east coast of Honshu, Japan.						Mx	Z 1.8 22
		h = 45 km (UPP,KIR,UME).					KIR	Mx	04 02
"	1	UPP	iP	09 50 59.5					micr sec
				micr sec				Mx	Z 1.7 22
			P	Z' 0.1 0.9			Prince Edward Islands region		
		KIR	iP	09 52 06.9			(h = 10 km).		
		UME	iP	09 51 31.8			M = 5.5 (UPP,KIR).		
		Crete (h = 45 km).			"	2	UPP	iP	08 38 16.3
"	1	UPP	Mx	17 07				iS	08 47 12
				micr sec					micr sec
			Mx	Z 2.2 20				Mx	Z 2.4 18
		KIR	ePKP	16 13 07			KIR	iP	08 37 23.1
				micr sec					micr sec
			Mx	Z 1.9 23				Mx	Z 2.1 19
		UME	ePKP	16 12 56			UME	iP	08 37 50.0
		Off coast of southern Chile (h = N).					Andreanof Islands, Aleutian Is.		
		M = 5.7 (UPP,KIR).					(h = N).		
"	1	UPP	iP	19 54 23.9			M = 5.3 (UPP,KIR).		
				micr sec	"	2	UPP	iPKP1	21 02 42.9
			Mx	Z 1.3 8				iPKP2	21 02 54.9
		KIR	iP	19 56 02.2			KIR	iPKP1	21 02 25.0
				micr sec			UME	iPKP1	21 02 34.6
			Mx	Z 0.7 9			Off east coast of North Islands,		
		(cont).					New Zealand (h = 65 km).		

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

1993				1993			
June	3	UPP eP	01 26 28	June	4	UPP iP	01 41 17.4
		KIR eP	01 26 22			iS	01 48 36
		Myanmar-China border region (h = 10 km).					micr sec
"	3	UPP iP	05 21 37.2			P	Z' 0.1 1.0
		Off east coast of Kamchatka (h = 50 km).				Mx	Z 1.3 19
"	3	UPP eP	07 51 43			KIR iP	01 41 57.3
		KIR eP	07 52 41				micr sec
		UME eP	07 52 05			P	Z' 0.1 1.2
		Turkey (h = N).				Mx	Z 1.7 19
"	3	UPP iP	08 12 09.5			UME iP	01 41 41.1
		UME eP	08 11 45			North Atlantic Ocean (h = 10 km). m = 5.9, M = 5.0 (UPP,KIR).	
		Hokkaido, Japan region (h = N).		"	4	UPP eP	03 20 01
"	3	UPP iPKP	09 57 17.6			iSKS	03 30 33
		iSKP1	10 00 27.5				micr sec
		KIR iPKP	09 57 04.1			Mx	Z 1.9 18
		UME iPKP	09 57 10.2			KIR iP	03 19 36.6
		Vanuatu Islands (h = 150 km).					micr sec
"	3	UPP iP	14 35 32.6			Mx	Z 2.1 19
			micr sec			UME iP	03 19 43.9
		Mx	Z 1.0 15			South of Mariana Islands (h = 25 km). M = 5.6 (UPP,KIR).	
		KIR iP	14 34 58.8	"	4	UPP eP	03 22 17
			micr sec			KIR eP	03 21 47
		Mx	Z 0.5 15			UME eP	03 21 56
		UME eP	14 35 12			South of Mariana Islands (h = 110 km).	
		Ryukyu Islands (h = 35 km). M = 5.1 (UPP,KIR).		"	4	UPP iP	03 29 12.3
"	3	UPP iP	20 29 26.4			KIR iP	03 30 25.9
		iSKS	20 39 52			UME iP	03 29 51.7
			micr sec			Greece (h = 5 km).	
		Mx	Z 1.7 18	"	4	UPP iP	04 32 55.0
		KIR iP	20 29 07.8			Greece (h = 5 km).	
			micr sec	"	4	UPP iP	10 25 19.6
		Mx	Z 1.7 17			KIR iP	10 24 25.9
		UME iP	20 29 14.5			UME iP	10 24 52.3
		Mindanao, Philippine Islands (h = 55 km). M = 5.5 (UPP,KIR).				Rat Islands, Aleutian Islands (h = 110 km).	
"	4	UPP iP	01 14 53.4	"	4	UPP iP	11 03 03.7
		KIR eP	01 14 42			iSKS	11 13 38
		Yunnan, China (h = 10 km).					micr sec
						Mx	Z 3.5 20

(cont).

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1993						1993	
June	4	(cont). KIR iP	11 02 46.3	June	5	UME iPKP	18 56 52.8
			micr sec			Vanuatu Islands (h = 200 km).	
		P Z'	0.1 1.1	"	5	UPP iP	19 20 17.7
		Mx Z	3.8 20			KIR iP	19 21 45.5
							micr sec
		UME iP	11 02 53.8			P Z'	0.1 1.2
		iSKS	11 13 22.0			UME iP	19 21 04.9
		North of Halmahera, Indonesia (h = 20 km).				Central Italy (h = 10 km).	
		M = 5.8 (UPP,KIR).					
"	4	UPP iP	11 38 22.8	"	5	KIR ePKP	22 31 42
		KIR iP	11 38 09.2			UME iPKP	22 31 52.1
		UME iP	11 38 13.2			Kermadec Islands, New Zealand (h = N).	
		Minahassa Peninsula, Sulawesi (h = 25 km).		"	6	UME iP	00 45 40.8
"	4	KIR ePKP	20 50 55			Hindu Kush region, Afghanistan (h = 220 km).	
		UME iPKP	20 50 56.9	"	6	UPP iP	02 23 42.1
		South Sandwich Islands region (h = N).				KIR iP	02 23 41.9
"	4	UPP iP	21 14 02.6			UME iP	02 23 45.1
		UME eP	21 14 45			South of Panama (h = 10 km).	
		Ionian Sea (h = N).		"	6	UPP ePKP	09 37 56
"	4	UPP iP	21 40 54.4			South of Tonga Islands (h = 30 km).	
		KIR iP	21 42 28.1	"	6	UPP iP	09 39 32.8
		UME iP	21 41 38.4			KIR iP	09 39 02.5
		Central Italy (h = 20 km).				UME iP	09 39 14.1
"	4	UPP eP	21 54 13			Bonin Islands region (h = N).	
		KIR iP	21 55 59.5	"	6	UPP eP	09 41 35
		UME iP	21 55 09.4			KIR eP	09 40 49
		Poland (h = 20 km).				UME iP	09 41 09.2
"	4	UPP iP	22 01 38.7			Near east coast of Honshu, Japan (h = 10 km).	
		UME iP	22 01 43.7	"	6	UPP iP	11 12 45.0
		Northwestern Caucasus (h = N).				KIR eP	11 12 42
"	5	UME iP	11 38 25.5			UME iP	11 12 41.4
		Near coast of Chiapas, Mexico (h = 65 km).				Afghanistan-Tajikistan border region (h = N).	
"	5	UPP iP	15 45 46.5	"	6	UPP iP	11 23 42.0
			micr sec			KIR iP	11 22 47.6
		Mx Z	0.5 12			UME iP	11 23 14.2
		KIR iP	15 47 00.3			Fox Islands, Aleutian Islands (h = N).	
		UME iP	15 46 25.4				
		Ionian Sea (h = 45 km).					

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1993				1993							
June	8	UPP	iP	23 34 26.6	June	10	UPP	iP	12 14 23.2		
				micr sec					Alaska Peninsula (h = N).		
			P	Z' 0.1 0.7							
		KIR	iP	23 33 54.7	"	10	UPP	iP	12 15 34.1 C		
		UME	iP	23 34 07.0				iS	12 24 18		
				Kyushu, Japan (h = 180 km).				i	12 24 32		
									micr sec		
"	8	UPP	iPKP	23 36 09.0				P	Z' 0.1 0.8		
			iPKKP	23 46 50.4				Mx	Z 3.0 17		
				micr sec			KIR	iP	12 14 43.1 C		
			Mx	Z 1.9 20					micr sec		
		KIR	iPKP	23 36 16.8				P	Z' 0.2 0.7		
			iPKKP	23 46 32.1					micr sec		
				micr sec				Mx	Z 2.1 16		
			Mx	Z 1.4 20			UME	iP	12 15 07.4 C		
		UME	iPKP	23 36 12.8					Off east coast of Kamchatka		
			iPKKP	23 46 38.8					(h = 20 km).		
				San Juan Province, Argentina					m = 6.2, M = 5.4 (UPP,KIR).		
				(h = 110 km).							
				M = 5.6 (UPP,KIR).			"	10	UPP	iP	13 09 40.1 C
				M uncorrected for focal depth.					iS	13 18 23	
									i	13 18 36	
										micr sec	
"	9	UPP	iP	13 53 07.9				P	Z' 0.8 1.2		
		KIR	eP	13 52 29				Mx	Z 4.0 16		
		UME	iP	13 52 46.4			KIR	iP	13 08 47.9 C		
				Near east coast of Honshu, Japan					micr sec		
				(h = 20 km).				P	Z' 0.5 1.1		
								Mx	Z 3.1 16		
"	9	UPP	iP	15 08 13.6			UME	iP	13 09 12.5 C		
								iS	13 17 31.7		
"	9	UPP	eP	17 40 19					Off east coast of Kamchatka		
		KIR	iP	17 40 57.2					(h = 15 km).		
				Northern Iran (h = 30 km).					m = 6.6, M = 5.6 (UPP,KIR).		
"	10	KIR	iP	04 03 28.9			"	10	UPP	iP	16 02 32.0
				Near east coast of Kamchatka					KIR	iP	16 01 39.7
				(h = N).					UME	iP	16 02 04.2
"	10	UPP	iP	05 57 36.9						Off east coast of Kamchatka	
		KIR	iP	05 56 44.2						(h = 35 km).	
		UME	iP	05 57 09.6			"	10	UPP	iPKP	18 08 05.8
				Off east coast of Kamchatka					KIR	iPKP	18 08 00.9
				(h = 40 km).					UME	ePKP	18 07 56
"	10	UPP	iP	09 08 36.6						South of Fiji Islands (h = 35 km).	
		KIR	iP	09 07 44.7			"	10	UPP	eP	20 49 04
		UME	iP	09 08 09.4					KIR	eP	20 50 08
				Off east coast of Kamchatka					UME	eP	20 49 04
				(h = 30 km).						Yunnan, China (h = 10 km).	

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1993				1993			
June	11	UPP eP	02 46 36	June	12	(cont).	
		KIR iP	02 46 09.2			UME eP	09 25 08
		Southwestern Ryukyu Islands (h = 25 km).				Near east coast of Kamchatka (h = N).	
"	11	UPP eP	13 14 25	"	12	UPP iP	11 27 24.5 C
		KIR iP	13 15 31.6			i	11 27 27.0
		UME eP	13 15 18			ipP	11 28 16.1
		Crete (h = 30 km).				iPP	11 30 47.4
						iSKS	11 37 25
							micr sec
"	11	UPP iP	13 30 25.8			P	Z' 0.1 1.0
		KIR iP	13 29 33.4			Mx	Z 0.4 14
		UME iP	13 29 57.8			KIR iP	11 27 17.2
		Off east coast of Kamchatka (h = N).				ipP	11 28 07.7
						iPP	11 30 34.7
							micr sec
"	11	UPP eP	23 38 06			P	Z' 0.2 1.2
		Myanmar-China border region (h = N).				UME iP	11 27 22.1
						ipP	11 28 14.6
"	12	UPP ePKP	06 04 24			iPP	11 30 46.3
			micr sec			Honduras.	
		Mx	Z 3.5 20			h = 210 km (UPP,KIR,UME).	
		KIR ePKP	06 04 09			m = 5.7 (UPP,KIR).	
			micr sec				
		Mx	Z 2.1 17	"	12	UME iP	12 26 42.1
		UME iPKP	06 04 14.5			Near east coast of Kamchatka (h = N).	
		Solomon Islands (h = 15 km).					
		M = 5.9 (UPP,KIR).		"	12	UPP iPdiff	18 41 02.9
"	12	UPP Mx	07 05			iPP	18 45 28.8
			micr sec			iSKS	18 51 40
		Mx	Z 2.7 20			iS	18 53 02
		KIR Mx	07 06				micr sec
			micr sec			Mx	Z 7.5 22
		Mx	Z 1.7 17			KIR iPdiff	18 40 43.7
		Solomon Islands (h = N).				iPP	18 44 51.1
		M = 5.8 (UPP,KIR).					micr sec
"	12	UPP ePKP	07 19 58			Mx	Z 5.1 19
		UME iPKP	07 20 14.3			Irian Jaya region, Indonesia (h = 10 km).	
		New Britain region, P.N.G. (h = 160 km).				M = 5.1 (UPP,KIR).	
"	12	UPP iP	09 03 26.2	"	12	UPP iP	20 43 59.2 C
		KIR iP	09 04 24.7			i	20 44 58.7
		UME eP	09 03 53			iS	20 52 25
		Turkey (h = 10 km).					micr sec
"	12	UPP eP	09 25 36			Mx	Z 20 26
		KIR eP	09 24 42			KIR iP	20 43 07.4
		(cont).					micr sec
						Mx	Z 6.6 14
						(cont).	

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1993			1993		
June	12	(cont). UME iP 20 43 32.0 Near east coast of Kamchatka (h = 45 km). M = 6.0 (UPP,KIR).	June	13	UPP iP 23 31 18.6 i 23 31 19.6 iS 23 35 06 micr sec P Z' 0.6 0.9 Mx Z 9.9 11 KIR iP 23 32 34.6 micr sec P Z' 0.3 1.6 Mx Z 3.2 9 UME iP 23 31 59.6 iS 23 36 23.5 Greece-Albania border region (h = 20 km). m = 5.9, M = 5.3 (UPP,KIR).
"	12	UPP iP 23 02 52.7 KIR iP 23 01 59.5 UME iP 23 02 25.1 Near east coast of Kamchatka (h = N).	"	13	UPP iP 23 34 21.2 Greece-Albania border region (h = 10 km).
"	12	KIR iP 23 41 40.9 UME iP 23 41 52.7 Mariana Islands region (h = 330 km).	"	14	UPP eP 00 04 38 Greece (h = 15 km).
"	13	UPP iPKP 00 57 34.0 KIR ePKP 00 57 22 UME iPKP 00 57 26.9 Solomon Islands (h = 190 km).	"	14	UPP iP 06 36 54.7 Greece-Albania border region (h = 10 km).
"	13	UPP iPKP1 05 16 13.8 UME iPKP 05 16 02.1 Kermadec Islands region (h = 200 km).	"	14	UPP iP 07 38 34.0 micr sec P Z' 0.1 1.1 KIR iP 07 38 35.6 micr sec P Z' 0.1 0.9 UME iP 07 38 29.8 Eastern Kashmir (h = N). m = 5.8 (UPP,KIR).
"	13	UPP iPKP1 07 43 22.5 Kermadec Islands region (h = N).	"	14	UPP ePKP1 07 46 43 KIR ePKP 07 46 23 UME iPKP 07 46 27.9 Kermadec Islands region (h = N).
"	13	UPP eP 08 37 38 KIR iP 08 36 43.4 UME iP 08 37 09.7 Fox Islands, Aleutian Islands (h = N).	"	14	KIR iP 08 57 51.3 Southern Xinjiang, China (h = 30 km).
"	13	UPP iP 12 47 37.4 KIR iP 12 46 43.3 UME iP 12 47 10.5 Near east coast of Kamchatka (h = 35 km).	"	14	UPP eP 09 09 10 KIR eP 09 08 18 UME eP 09 08 43
"	13	UPP eP 13 15 14 KIR iP 13 15 17.3 UME iP 13 15 10.3 Kashmir-Xinjiang border region (h = N).			
"	13	UPP eP 19 40 23 KIR iP 19 39 30.4 UME iP 19 39 54.8 Off east coast of Kamchatka (h = N).			

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1993				1993					
June	14	UME	iP	12 32 46.5	June	15	(cont).		
				Northern Italy (h = 10 km).			UME	iP	04 54 13.7
"	14	UPP	iP	12 52 05.2					Off east coast of Honshu, Japan
		KIR	iP	12 52 47.9					(h = 45 km).
		UME	iP	12 52 22.4					M = 5.8 (UPP,KIR).
				Iran-Iraq border region (h = N).	"	15	UPP	iP	05 22 09.3 D
"	14	UPP	iP	13 02 59.0				ipP	05 22 20.4
		UME	iP	13 02 55.1					micr sec
				Afghanistan-Tajikistan border region				P	Z' 0.1 0.8
				(h = 160 km).			UME	iP	05 21 52.7 D
"	14	KIR	iP	16 22 35.9				ipP	05 22 04.7
				Philippine Islands region (h = 25 km).					Southeast of Ryukyu Islands
"	14	KIR	iPg1	17 28 45.9					h = 40 km (UPP,KIR).
			iSg1	17 28 53.3	"	15	UPP	eP	06 17 31
		UME	iSg1	17 30 30.6			UME	iP	06 16 56.4
				Lapland, Sweden, 67.6°N, 19.3°E.					Greenland Sea (h = 10 km).
				Origin time = 17 28 37.	"	15	UDD	iSg1	13 19 46.2
				$M_L(UPP)=2.2$ 1.					Southern Norway, 58.3°N, 6.6°E.
				By combination with Finnish station					Origin time = 13 16 37.
				readings.					$M_L(UPP) = 2.7$ 1.
"	14	UPP	iP	20 04 55.1					Solution from Norwegian station
			i	20 04 59.2					readings.
			iS	20 09 16	"	15	UPP	iS	13 32 40
				micr sec					micr sec
			Mx	Z 0.5 10				Mx	Z 1.6 20
		KIR	eP	20 05 49			KIR	Mx	14 05
				micr sec					micr sec
			Mx	Z 0.7 11				Mx	Z 0.7 17
		UME	eP	20 05 19			UME	ePKP	13 24 46
				Turkey (h = 25 km).					Near north coast of New Guinea,
				M = 4.4 (UPP,KIR).					PNG. (h = 230 km).
"	15	UPP	iPKP	04 28 08.8					M = 5.4 (UPP,KIR).
		KIR	iPKP	04 27 31.4					M uncorrected for focal depth.
		UME	iPKP	04 28 10.0	"	15	KIR	eP	15 04 43
				Fiji Islands region (h = 480 km).					Azores Islands region (h = 15 km).
"	15	UPP	iP	04 54 34.2	"	15	UPP	iP	23 20 37.6
			iS	05 04 10			KIR	eP	23 20 41
				micr sec			UME	iP	23 20 35.3
			P	Z' 0.1 1.2					Eastern Kashmir (h = N).
			Mx	Z 3.0 15	"	16	UPP	eP	05 57 30
		KIR	iP	04 53 56.6			KIR	eP	05 57 21
				micr sec			UME	iP	05 57 27.9
			Mx	Z 5.1 14					Near coast of Chiapas, Mexico
				(cont).					(h = 55 km).

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

1993				1993						
June	18	UPP	iP	20 06 24.8 C	June	19	UPP	iP	14 43 28.4	
				micr sec				ipP	14 43 38.6	
			P	Z' 0.2 0.7			KIR	iP	14 43 09.7	
		KIR	iP	20 06 32.6 C				ipP	14 43 19.8	
				micr sec			UME	iP	14 43 15.7	
			P	Z' 0.5 0.6			Philippine Islands region.			
		UME	iP	20 06 21.4 C			h = 35 km (UPP,KIR).			
		Hindu Kush region, Afghanistan				"	19	UPP	iPKP1	15 52 39.0
		(h = 210 km).							micr sec	
		m = 6.0 (UPP,KIR).						Mx	Z 1.3 24	
"	18	UPP	iPKP1	21 14 41.8			KIR	Mx	16 54	
		Kermadec Islands region (h = 40 km).							micr sec	
								Mx	Z 0.8 18	
"	19	UPP	iP	00 36 42.3			UME	iPKP	15 52 29.0	
		KIR	iP	00 35 49.9			Kermadec Islands region (h = N).			
			ipP	00 36 00.9			M = 5.5 (UPP,KIR).			
		UME	iP	00 36 16.9		"	19	UPP	eP	17 51 52
		South of Aleutian Islands						UME	iP	17 51 10.8
		(h = 35 km).					North of Severnaya Zemlya			
							(h = 10 km).			
"	19	UPP	iP	02 44 04.8		"	19	UPP	iP	18 53 02.9
		KIR	iP	02 43 26.3			Greece (h = 80 km).			
		UME	iP	02 43 43.4		"	19	UPP	iPKP1	19 12 04.2
		Near east coast of Honshu, Japan					Kermadec Islands region (h = 40 km).			
		(h = 30 km).				"	19	UPP	iP	21 56 48.9
"	19	UPP	iPKP	05 39 02.4			UME	iP	21 56 29.7	
		Kermadec Islands region (h = N).					South of Honshu, Japan			
"	19	UPP	eP	08 52 35			(h = 420 km).			
		KIR	iP	08 51 17.4		"	20	UPP	iPdiff	02 23 21.4
		UME	iP	08 52 04.4			UME	iPdiff	02 23 11.7	
		North of Severnaya Zemlya					Banda Sea (h = 150 km).			
		(h = 10 km).				"	20	UPP	iPKP1	02 42 32.3
"	19	UPP	iPKP2	08 59 09.7				micr sec		
		UME	iPKP1	08 58 53.6				Mx	Z 0.8 19	
		Kermadec Islands region					UME	iPKP1	02 42 18.6	
		(h = 440 km).					Kermadec Islands region (h = N).			
"	19	UPP	iSKS	12 47 40		"	20	UPP	iPKP1	05 33 32.0
				micr sec			UME	ePKP	05 33 21	
			Mx	Z 2.3 19			Kermadec Islands region (h = N).			
		KIR	Mx	13 19		"	20	UPP	iPKP1	05 33 32.0
				micr sec			UME	ePKP	05 33 21	
			Mx	Z 1.9 18			Kermadec Islands region (h = N).			
		Off coast of Mexico (h = 10 km).				"	20	UPP	eP	13 13 09
		M = 5.6 (UPP,KIR).					KIR	eP	13 13 56	
							(cont).			

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1993				1993			
June	20	(cont). UME iP Zaire (h = 10 km).	13 13 29.9	June	22	UPP iP iS P Mx KIR iP P Mx UME iP Iceland (h = 5 km). m = 5.2, M = 4.5 (UPP,KIR).	12 37 45.3 12 41 04 micr sec Z' 0.3 1.5 Z 3.5 23 12 37 25.3 micr sec Z' 0.6 2.2 Z 3.7 14 12 37 37.3
"	20	UPP iPKP Mx Z KIR iPKP Mx Z UME iPKP Solomon Islands (h = 40 km). M = 5.3 (UPP,KIR).	17 45 14.1 micr sec 0.6 22 17 45 02.9 micr sec 1.4 20 17 45 08.1	"	22	KIR eP Banda Sea (h = 150 km).	15 15 27
"	20	UPP iP Ascension Island region (h = 10 km).	17 55 32.9	"	22	UPP iP Mx Z KIR iP Mx Z UME iP Northern Iran (h = N). M = 4.7 (UPP,KIR).	16 39 51.6 micr sec 1.1 16 16 40 31.3 micr sec 1.0 14 16 40 05.9
"	20	UPP iPKP1 Kermadec Islands region (h = 35 km).	23 11 41.4	"	22	UPP eP KIR eP UME eP Northern Iran (h = N).	16 44 28 16 45 09 16 44 46
"	21	UPP iP KIR iP UME iP Bonin Islands region (h = 480 km).	02 18 53.3 02 18 22.4 02 18 35.4	"	22	UPP iP ipP KIR eP ipP UME eP ipP West of Gibraltar. h = 40 km (UPP,KIR,UME).	21 57 54.6 21 58 05.4 21 58 55 21 59 04.8 21 58 29 21 58 38.4
"	21	UPP iPKP1 UME iPKP Kermadec Islands region (h = 60 km).	11 52 22.3 11 52 13.4	"	23	UPP iPKP i Mx Z KIR ePKP UME ePKP South Shetland Islands (h = 10 km).	11 48 37.3 11 48 44.1 micr sec 0.8 20 11 48 47 11 48 29
"	21	UPP iP KIR iP UME iP Near east coast of Kamchatka (h = N).	15 01 30.9 15 00 38.2 15 01 02.5	"	23	UPP iPKP1 KIR ePKP (cont).	12 20 33.2 12 20 24
"	21	UPP iP P Z' KIR iP P Z' UME iP Northwest of Kuril Islands (h = 350 km). m = 5.9 (UPP,KIR).	17 04 50.8 micr sec 0.2 0.8 17 04 02.9 micr sec 0.4 0.8 17 04 25.1	"	23	UPP iPKP1 KIR ePKP (cont).	12 20 33.2 12 20 24
"	22	KIR eP UME iP Hokkaido, Japan region (h = 70 km).	08 47 54 08 48 13.2	"	23	UPP iPKP1 KIR ePKP (cont).	12 20 33.2 12 20 24

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

1993			1993		
June	23	(cont). UME iPKP 12 20 21.0 South of Kermadec Islands (h = 65 km).	June	25	UPP iPKP1 07 42 52.6 UME iPKP1 07 42 41.1 Kermadec Islands region (h = 60 km).
"	23	UPP iPKP1 14 42 45.2 Kermadec Islands region (h = 60 km).	"	25	UPP iPKP1 08 03 46.3 micr sec Mx Z 0.5 19 KIR ePKP1 08 03 31 UME iPKP1 08 03 33.6 Kermadec Islands region (h = 70 km).
"	23	UPP iP 17 29 35.9 UME iP 17 29 17.0 Eastern Xizang-India border region (h = N).	"	25	UPP iP 10 13 58.2 KIR iP 10 13 46.3 UME iP 10 13 46.8 Qinghai, China (h = N).
"	24	UPP iP 00 27 23.4 iS 00 37 20 micr sec P Z' 0.1 1.0 Mx Z 2.0 15 KIR iP 00 27 02.6 micr sec P Z' 0.1 1.2 Mx Z 0.4 13 UME iP 00 27 09.7 Philippine Islands region (h = 45 km). m = 5.7, M = 5.2 (UPP,KIR).	"	25	KIR iP 18 34 50.7 UME iP 18 35 12.3 Kuril Islands (h = 140 km).
"	24	UPP iP 01 28 26.1 KIR eP 01 27 40 UME iP 01 28 00.9 Kuril Islands (h = N).	"	25	UME iP 21 44 44.1 Irian Jaya region, Indonesia (h = N).
"	24	UPP iP 02 40 16.9 KIR iP 02 39 30.3 UME iP 02 39 51.5 Kuril Islands (h = N).	"	26	KIR iPg1 05 51 44.7 iSg1 05 52 13.2 UME iSg1 05 53 27.3 Northern Norway, 67.8°N, 15.3°E. Origin time = 05 51 10. M _L (UPP) = 2.6 1. By combination with Finnish and Norwegian station readings.
"	24	UME iP 08 18 28.2 Mariana Islands region (h = 40 km).	"	26	UME iPKP 10 12 18.4 Santa Cruz Islands (h = N).
"	24	UME iP 13 03 55.1 Eastern New Guinea region (h = 70 km).	"	26	UPP iPn 13 57 06.6 i 13 57 15.3 iPg1 13 57 28.9 iSn 13 58 20.6 iSg1 13 58 57.6 KIR iPn 13 57 27.6 iSn 13 59 00.6 UME iPn 13 57 10.7 iSn 13 58 29.8 i 13 58 57.8 iSg1 13 59 11.5 UDD iPn 13 56 40.4 iPg1 13 56 57.9 iSn 13 57 38.2
"	24	UME iP 17 01 05.3 Afghanistan-Tajikistan border region (h = N).			
"	24	UPP iP 22 09 34.5 Myanmar (h = N).			

(cont).

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

1993			1993		
June			June		
28	(cont).		29	UPP	iP 04 46 29.1
	UME	iP 12 21 13.1		KIR	iP 04 45 35.2
	Near coast of Chiapas, Mexico (h = 70 km).			UME	iP 04 46 01.2
				Near Islands, Aleutian Islands (h = N).	
"	28	UPP iP 14 31 43.1 D	"	29	UPP iP 04 55 58.0
		KIR iP 14 31 10.9 D			KIR iP 04 55 05.8
		UME iP 14 31 24.9 D			UME iP 04 55 30.2
	Bonin Islands region (h = 400 km).			Off east coast of Kamchatka (h = N).	
"	28	UPP iPKP 16 50 11.6	"	29	UPP iP 06 58 03.6
		KIR ePKP 16 50 03			
		UME ePKP 16 50 10	"	29	UPP ePKP2 07 27 46
	Fiji Islands region (h = 560 km).				micr sec
"	28	KIR iPg1 21 19 38.2			Mx Z 4.0 24
		iSg1 21 20 12.4			KIR iPKP2 07 27 47.8
		UME iSg1 21 21 57.8			West of Macquarie Island (h = 10 km).
	Off coast of northern Norway, 69.5°N, 15.5°E. Origin time = 21 18 52. By combination with Norwegian station readings.		"	29	UME iPKP 10 20 46.9
					Vanuatu Islands (h = 250 km).
"	28	UPP ePKP2 21 22 38	"	29	KIR iP 19 13 26.6
		UME iPKP1 21 22 22.1			UME eP 19 13 29
	Kermadec Islands region (h = N).			Northern Mid-Atlantic Ridge (h = 10 km).	
"	29	KIR iPg1 00 25 35.4	"	30	UPP eP 04 01 23
		iSn 00 26 00.3			KIR eP 04 03 09
		iSg1 00 26 10.0			UME eP 04 02 18
	Off coast of northern Norway, 69.5°N, 15.5°E. Origin time = 00 24 50. Solution from Norwegian station readings.			Poland (h = 20 km).	
"	29	KIR eP 02 03 52	"	30	UME iPg1 22 09 13.9
		UME iP 02 04 02.7			iSg1 22 09 28.7
	South of Mariana Islands (h = 60 km).				i 22 09 31.2
				Ångermanland, Sweden, 64.1°N, 17.7°E. Origin time = 22 08 52. $M_L(\text{UPP}) = 2.3$ 1. By combination with Finnish station readings.	
"	29	KIR iP 04 00 05.2	"	30	UPP eP 23 12 25
		UME eP 04 00 14			KIR iP 22 12 50.6
	South of Sumbawa Island (h = 40 km).				UME eP 23 12 28.2
				Northern Iran (h = N).	
"	29	UPP iP 04 42 37.3		March 22, 1995	
		iS 04 47 03		Victor Gonzales	
		micr sec		Conny Holmqvist	
		Mx Z 2.0 10		Xin Pi	
		KIR iP 04 43 44.2		Rutger Wahlström	
		UME eP 04 43 16			
	Dodecanese Islands (h = 25 km).				

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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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1993					1993				
July	1	UPP	iP	00 00 32.4	July	1	UPP	iPKP1	23 09 05.8
		UME	iP	00 02 54.8					Kermadec Islands region (h = 80 km).
"	1	UPP	iP	00 07 01.7	"	2	UPP	iP	04 14 55.6
				micr sec				iS	04 18 00
		Mx	Z	24 23					micr sec
		KIR	iP	00 06 49.4				P	Z' 0.1 1.0
		UME	iP	00 06 52.2				Mx	Z 7.3 17
				Vanuatu Islands region (h = 15 km).			KIR	iP	04 13 48.4
									micr sec
"	1	UPP	iP	00 17 07.8				P	Z' 0.2 1.0
		KIR	iP	00 18 30.1			UME	iP	04 14 23.5
		UME	iP	00 17 50.3				iS	04 16 51.0
				Ionian Sea (h = N).			UDD	iP	04 14 37.8
								i	04 14 39.7
"	1	UPP	iP	06 34 11.6				iS	04 17 14.0
		KIR	iP	06 33 16.8					Jan Mayen Island region (h = 10 km).
		UME	iP	06 33 57.2					
				Andreanof Islands, Aleutian Is. (h = N).	"	2	UPP	eP	07 35 53
							UME	iP	07 35 31.7
									Near east coast of Honshu, Japan (h = 65 km).
"	1	UPP	iP	10 03 59.6					
		KIR	iP	10 03 19.8					
		UME	iP	10 03 36.9	"	2	UPP	iP	15 37 51.8
				Near east coast of Honshu, Japan (h = 30 km).				ipP	15 38 03.3
									micr sec
"	1	UDD	iSg1	12 37 28.3			KIR	iP	Z' 0.1 1.2
								ipP	15 36 58.1
"	1	UME	iP	16 47 46.3					15 37 09.6
									micr sec
"	1	UPP	iP	18 15 23.8				P	Z' 0.2 0.9

(cont).

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

1993				1993			
July				July			
	2	(cont).			5	(cont).	
		UME	iP 15 37 24.8			UME	iSg1 02 39 58.8
			ipP 15 37 36.7			Northern Norway, 69.6°N, 25.3°E.	
		South of Alaska.				Origin time = 02 36 45.	
		h = 40 km (UPP,KIR,UME).				M ₁ (UPP) = 2.6 1.	
		m = 6.0 (UPP,KIR).				By combination with Finnish and Norwegian station readings.	
"	2	UPP	iPKP 17 13 58.5	"	5	UPP	Mx 07 49
		UME	ePKP 17 13 47				micr sec
		Kermadec Islands, New Zealand				Mx	Z 2.6 21
		(h = 100 km).				Off coast of Mexico (h = 10 km).	
"	2	UPP	iP 19 39 53.4	"	5	KIR	eP 13 36 52
		KIR	iP 19 40 01.5			Eastern Honshu, Japan (h = 120 km).	
		Afghanistan-Tajikistan border region				"	5
		(h = 90 km).				UPP	iP 15 32 12.7 D
"	2	UPP	iP 21 02 04.1				micr sec
		KIR	iP 21 02 02.7			P	Z' 0.2 0.9
			micr sec			KIR	iP 15 31 39.1
		P	Z' 0.1 0.9				micr sec
		UME	iP 21 02 00.8			P	Z' 0.2 0.9
		Southern Sumatera, Indonesia				UME	iP 15 31 53.0
		(h = 90 km).				South of Honshu, Japan (h = 420 km).	
"	3	UPP	iP 02 09 55.5			m = 5.8 (UPP,KIR).	
		UME	iP 02 09 48.2	"	5	UPP	iP 22 20 40.2
		Xizang (h = N).				KIR	eP 22 20 39
"	3	UPP	iP 04 11 16.9			Nepal (h = N).	
		KIR	iP 04 11 17.4	"	6	UPP	iPKP 01 26 28.7
		UME	iP 04 11 13.7			Kermadec Islands, New Zealand	
		Nicobar Islands, India (h = 150 km).				(h = 80 km).	
"	3	KIR	iP 19 57 41.0	"	6	UPP	Mx 03 59
		UME	eP 19 57 56				micr sec
		Seram, Indonesia (h = 30 km).				Mx	Z 6.0 22
"	4	UPP	iP 19 19 40.2			Easter Island region (h = 10 km).	
		KIR	iP 19 19 14.2	"	6	KIR	iP 08 17 16.8
		UME	iP 19 19 23.4			South of Alaska (h = 10 km).	
		Taiwan region (h = 110 km).		"	6	KIR	iPn 13 43 54.2
"	5	UPP	Mx 01 59			Norwegian Sea, 71.9°N, 3.6°E.	
			micr sec			Origin time = 13 42 15.	
		Mx	Z 3.2 23			By combination with Finnish and Norwegian station readings.	
		Easter Island region (h = 10 km).		"	6	KIR	iP 13 49 22.8
"	5	KIR	iPg1 02 37 30.0			Southern Iran (h = N).	
			iSg1 02 37 59.3				
		(cont).					

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

1993				1993			
July	6	UPP eP KIR eP Turkey (h = 45 km).	19 53 38 19 54 25	July	7	(cont). Luzon, Philippine Islands (h = 40 km). m = 5.9 (UPP,KIR).	
"	6	UPP eP KIR iP Xizang (h = N).	20 16 45 20 16 44.1	"	8	UPP iP 03 14 15.3 KIR iP 03 14 42.4 UME eP 03 14 33 Northern Mid-Atlantic Ridge (h = 10 km).	
"	7	UPP iPn Mx Z 3.7 14 UME iLg1 UDD iPn North Sea (h = 10 km).	11 50 05.6 micr sec 11 54 10.8 11 49 49.3	"	8	KIR iPKP 10 54 54.8 Vanuatu Islands (h = 35 km).	
"	7	UPP ePKP iPKP2 KIR iPKP UME iPKP Off east coast of N. Island, N.Z. (h = 300 km).	15 40 30 15 40 50.0 15 40 19.2 15 40 27.6	"	8	UPP iP 10 57 02.7 iS 11 05 46 micr sec P Z' 0.1 1.0 Mx Z 3.0 15 KIR iP 10 56 10.0 UME iP 10 56 34.7 Off east coast of Kamchatka (h = 35 km).	
"	7	UPP iSg1 UDD iPg1 iSg1 Skagerak, 58.6°N, 10.4°E. Origin time = 17 19 06. M _L (UPP) = 2.7 (0.38) 2. By combination with Finnish and Norwegian station readings.	17 21 10.5 17 19 42.8 17 20 17.0	"	8	KIR iP 13 06 37.0 Fox Islands, Aleutian Islands (h = N).	
"	7	UPP iP P Z' 0.1 1.3 KIR iP UME iP Off east coast of Kamchatka (h = 35 km).	20 59 48.5 micr sec 20 58 56.0 20 59 20.5	"	8	UPP eP 17 00 49 KIR eP 17 00 29 UME eP 17 00 40 Leyte, Philippine Islands (h = 20 km).	
"	7	UPP iP i P Z' 0.1 0.9 KIR iP i P Z' 0.1 0.9 UME iP i	21 06 02.3 21 06 06.4 micr sec 21 05 43.4 21 05 47.3 micr sec 21 05 49.8 21 05 53.5	"	8	UPP Mx 18 41 micr sec Mx Z 5.0 24 Vanuatu Islands region (h = N).	
"	7	UPP iP i P Z' 0.1 0.9 KIR iP i P Z' 0.1 0.9 UME iP i	21 06 02.3 21 06 06.4 micr sec 21 05 43.4 21 05 47.3 micr sec 21 05 49.8 21 05 53.5	"	8	KIR eP 22 56 26 Rat Islands, Aleutian Islands (h = N).	
"	7	UPP iP i P Z' 0.1 0.9 KIR iP i P Z' 0.1 0.9 UME iP i	21 06 02.3 21 06 06.4 micr sec 21 05 43.4 21 05 47.3 micr sec 21 05 49.8 21 05 53.5	"	8	UPP eP 23 31 49 Costa Rica (h = 10 km).	
"	7	UPP iP i P Z' 0.1 0.9 KIR iP i P Z' 0.1 0.9 UME iP i	21 06 02.3 21 06 06.4 micr sec 21 05 43.4 21 05 47.3 micr sec 21 05 49.8 21 05 53.5	"	9	KIR eP 07 19 56 Andreanof Islands, Aleutian Is. (h = N).	
"	7	UPP iP i P Z' 0.1 0.9 KIR iP i P Z' 0.1 0.9 UME iP i	21 06 02.3 21 06 06.4 micr sec 21 05 43.4 21 05 47.3 micr sec 21 05 49.8 21 05 53.5	"	9	UPP iP 10 37 00.6	
		(cont).				(cont).	

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1993				1993			
July	11	UPP	iP	17 59 02.5	July	12	(cont).
			iS	18 07 53			KIR iS
				micr sec			05 08 51.1
			Mx	Z 5.3 18			micr sec
		KIR	iP	17 58 13.0			Mx Z 9.3 15
				micr sec			UDD iP
			Mx	Z 4.8 17			i
							05 08 50.3
				Kuril Islands (h = 30 km).			Norwegian Sea (h = 10 km).
				M = 5.7 (UPP,KIR).	"	12	KIR iPn
"	11	UPP	ePKP1	20 49 38			i
		KIR	iPKP	20 49 20.0			iSn
				North Island, New Zealand			06 42 04.8
				(h = 240 km).			06 42 15.4
							06 43 30.1
							Norwegian Sea (h = 10 km).
"	11	KIR	iPn	22 18 20.5	"	12	KIR ePn
			i	22 18 30.8			08 27 04
				Norwegian Sea, 72.1°N, 1.4°E.			Norwegian Sea (h = 10 km).
				Origin time = 22 16 28.			
				By combination with Norwegian			
				station readings.			
"	11	KIR	iPn	22 28 13.3	"	12	UDD iSg1
			i	22 28 21.0			09 04 21.6
				Norwegian Sea, 72.1°N, 1.5°E.			Coast of central Norway,
				Origin time = 22 16 20.			63.8°N, 9.0°E.
				By combination with Norwegian			Origin time = 09 02 21.
				station readings.			By combination with Norwegian
							station readings.
"	11	KIR	iPn	22 51 17.6	"	12	KIR eP
			i	22 51 26.9			12 29 23
			iSn	22 52 42.1			Mariana Islands region (h = 25 km).
		UDD	iPn	22 52 30.4	"	12	UPP iP
				Norwegian Sea (h = 10 km).			13 28 04.3
							iS
							13 37 03
							micr sec
"	11	KIR	iPn	22 51 17.6			P
			i	22 51 26.9			Z' 10.9 2.1
			iSn	22 52 42.1			Mx Z 486 19
		UDD	iPn	22 52 30.4			KIR iP
				Norwegian Sea (h = 10 km).			13 27 21.1
							micr sec
							P
							Z' 4.1 1.6
							Mx Z 581 16
"	11	KIR	iPn	23 01 26.1			Hokkaido, Japan region (h = 15 km).
			i	23 01 35.4			m = 7.5, M = 7.7 (UPP,KIR).
			iSn	23 02 52.2			
				Norwegian Sea, 72.1°N, 1.6°E.	"	12	UPP iP
				Origin time = 22 59 33.			14 55 54.3 C
				By combination with Norwegian			micr sec
				station readings.			P
							Z' 0.7 1.8
							KIR iP
							14 55 10.6
							micr sec
"	12	UPP	iP	05 08 48.2			P
				micr sec			Z' 0.6 2.2
			P	Z' 0.1 1.2			Eastern Sea of Japan (h = N).
			Mx	Z 4.7 16			m = 6.4 (UPP,KIR).
		KIR	iP	05 07 26.8	"	12	UPP eP
			i	05 07 36.1			15 03 22
							KIR eP
							15 02 40.1
							Hokkaido, Japan region (h = 20 km).

(cont).

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1993				1993			
July	12	KIR iP	15 18 03.8	July	13	UPP iP	02 30 41.5
		Hokkaido, Japan region (h = 25 km).				KIR iP	02 29 57.2
						Hokkaido, Japan region (h = N).	
"	12	UPP eP	15 26 03	"	13	KIR eP	02 43 30
		Hokkaido, Japan region (h = N).				Eastern Sea of Japan (h = N).	
"	12	UPP eP	15 26 18	"	13	KIR iP	07 05 58.0
		Hokkaido, Japan region (h = N).				Hokkaido, Japan region (h = 15 km).	
"	12	KIR iP	15 42 25.5	"	13	UPP iP	09 14 15.9
		Hokkaido, Japan region (h = N).				KIR iP	09 13 34.7
"	12	KIR iP	15 45 31.8			Hokkaido, Japan region (h = 20 km).	
		Hokkaido, Japan region (h = 20 km).		"	13	UPP Mx	09 45
"	12	UPP iP	16 11 58.1				micr sec
			micr sec			Mx Z	3.2 17
		P Z'	1.0 1.8			KIR Mx	09 41
		KIR iP	16 11 15.4				micr sec
			micr sec			Mx Z	3.0 19
		P Z'	0.6 1.6			Near n coast of New Guinea, PNG.	
		Hokkaido, Japan region (h = 30 km).				(h = 25 km).	
		m = 6.5 (UPP,KIR).				M = 5.9 (UPP,KIR).	
"	12	UPP iP	17 24 07.6	"	13	KIR iP	09 48 50.1
		Eastern Sea of Japan (h = N).				Hokkaido, Japan region (h = 20 km).	
"	12	UPP iP	18 21 46.8	"	13	UPP eP	11 30 28
		KIR iP	18 21 04.2			KIR eP	11 29 38
		Hokkaido, Japan region (h = 20 km).				Kuril Islands (h = 15 km).	
"	12	KIR iP	18 27 28.7	"	13	UPP iP	11 49 32.2
		Eastern Sea of Japan (h = 25 km).				Kermadec Islands region (h = N).	
"	12	UPP iP	18 53 28.2	"	13	UPP iP	12 37 03.3
		KIR iP	18 52 34.8			KIR iP	12 36 25.5
		Fox Islands, Aleutian Islands				Lake Baikal region, Russia	
		(h = 10 km).				(h = 25 km).	
"	12	UPP eP	22 04 17	"	13	KIR iP	12 45 15.8
		KIR iP	22 03 38.0			Hokkaido, Japan region (h = 20 km).	
		Eastern Sea of Japan (h = 20 km).		"	13	UPP iP	12 47 15.8
"	12	KIR iP	22 56 30.5			KIR iP	12 46 32.5
		Hokkaido, Japan region (h = 20 km).				Hokkaido, Japan region (h = 30 km).	
"	13	UPP iP	00 03 56.3	"	13	UPP iP	14 29 29.0
		KIR iP	00 03 13.9			KIR eP	14 29 55
		Hokkaido, Japan region (h = 20 km).				Turkmenistan-Iran border region	
						(h = 25 km).	

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1993				1993					
July	13	UPP KIR	iP iP	15 36 11.8 15 35 28.8	July	14	UPP KIR	ePKP iPKP	19 01 46 19 01 32.0
		Hokkaido, Japan region (h = 25 km).				Fiji Islands region (h = 560 km).			
"	13	UPP	iP	17 38 45.1	"	14	KIR	eP	19 23 48
		Eastern Sea of Japan (h = 30 km).				Northern Mid-Atlantic ridge (h = 10 km).			
"	14	UPP KIR	iP iP	05 00 00.6 04 59 55.0	"	14	KIR	eP	21 00 17
		Myanmar-India border region (h = 70 km).				Talaud Islands, Indonesia (h = 65 km).			
"	14	UPP KIR	iP iP	08 32 36.6 08 31 40.8	"	14	UPP KIR	iP iP	22 03 37.1 22 02 57.2
		Xizang (h = N).				Near southeast coast of Russia (h = 480 km).			
"	14	UPP	eP	10 04 15	"	15	UPP	iP iPcP	01 02 07.1 C 01 02 34.1
		Hokkaido, Japan region (h = N).						micr sec	
"	14	UPP KIR	iP iP	10 58 40.5 10 56 36.5				P iP	Z' 0.2 0.7 01 01 18.9
		Norwegian Sea (h = 10 km).						micr sec	
"	14	UPP	iP	12 36 40.1				P	Z' 0.1 0.9
			iS	12 40 39.2					
				micr sec					
			P	Z' 0.4 1.0	"	15	UPP KIR	iP iP	01 27 16.8 01 26 11.7
			Mx	Z 15 13					
		KIR	iP	12 37 54.6	"	15	KIR	iP	02 11 37.6
				micr sec					Hokkaido, Japan region (h = 15 km).
			P	Z' 0.1 0.9					
				micr sec					
			Mx	Z 9.6 14					
		Greece (h = 25 km).							
		m = 5.7, M = 5.5 (UPP,KIR).							
"	14	UPP	eP	12 44 06	"	15	UPP KIR	iP iP	06 47 30.4 06 46 48.2
		Greece (h = 10 km).				Hokkaido, Japan region (h = 20 km).			
"	14	UPP	iP	12 58 57.7	"	15	KIR	iP	09 30 12.7
		Greece (h = 10 km).				Hokkaido, Japan region (h = 20 km).			
"	14	UPP KIR	iP iP	15 23 11.2 15 22 17.3	"	15	UPP KIR	iPKP iPKP	12 31 02.1 12 30 52.0
		Fox Islands, Aleution Islands (h = 70 km).				South of Fiji Islands (h = 550 km).			
"	14	UPP KIR	iP iP	17 49 22.9 17 48 39.7	"	15	UPP	iP ipP	19 48 30.1 19 48 36.2
		Eastern Sea of Japan (h = 20 km).							

(cont).

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

1993				1993					
July	19	KIR	iP	05 59 03.7	July	20	KIR	ePKP	08 15 17
				Mindanao, Philippine Islands (h = N).				iPKP1	08 15 21.2
"	19	UPP	iP	08 42 15.5					North Island. New Zealand
		KIR	eP	08 43 28.9					(h = 200 km).
				Crete (h = 25 km).	"	20	UPP	Mx	09 03
									micr sec
"	19	UPP	iPKP	13 58 47.2				Mx	Z 1.5 19
		KIR	iPKP	13 58 36.6			KIR	Mx	08 52
				South of Fiji Islands (h = 500 km).					micr sec
								Mx	Z 3.0 19
"	19	UPP	iPKP	14 33 01.0					Samoa Islands region (h = 30 km).
		KIR	iPKP	14 32 26.6					M = 5.8 (UPP,KIR).
				South of Honshu, Japan (h = 80 km).	"	20	UPP	iP	09 36 28.3
"	19	UPP	iP	15 24 03.2					Kuril Islands (h = N).
		KIR	iP	15 23 51.2	"	20	UPP	iP	13 37 30.1 D
				Guerrero, Mexico (h = 55 km).				iPP	13 40 43.2
"	19	UPP	iP	19 29 28.0					micr sec
		KIR	iP	19 28 45.9				P	Z' 0.3 0.7
				Eastern Sea of Japan (h = 20 km).			KIR	iP	13 36 58.8
									micr sec
"	19	UPP	iP	19 46 43.2				P	Z' 0.3 0.8
			iS	19 56 20					Bonin Islands region (h = 470 km).
				micr sec	"	20	UPP	eP	14 27 44
			Mx	Z 1.6 17					North Atlantic ocean (h = 10 km).
		KIR	iP	19 46 04.7	"	21	UPP	iP	00 41 01.4
				micr sec			KIR	iP	00 41 45.3
			Mx	Z 3.7 16					micr sec
				Off east coast of Honshu, Japan				P	Z' 0.2 1.7
				(h = 45 km).					North of Ascension Island
				M = 5.5 (UPP,KIR).					(h = 10 km).
"	20	UPP	iP	00 52 47.9	"	21	UPP	iP	01 27 28.1
		KIR	iP	00 51 52.0			KIR	iP	01 28 24.1
				Southern Alaska (h = 100 km).					Turkey (h = 35 km).
"	20	UPP	iPKP	03 58 52.9	"	21	UPP	iP	10 41 47.2
		KIR	iPKP	03 57 57.6			KIR	iP	10 41 28.7
				Fiji Islands region (h = 460 km).					Northern Molucca Sea (h = 65 km).
"	20	UPP	eP	07 18 54	"	21	UPP	iP	12 40 50.1
				micr sec			KIR	iP	12 40 55.4
			Mx	Z 0.7 18					Tajikistan-Xinjiang border region
		KIR	eP	07 18 08					(h = N).
				micr sec					
			Mx	Z 1.1 15					
				Hokkaido, Japan region					
				(h = 20 km).					
				M = 5.0 (UPP,KIR).					

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1993				1993			
July	21	UPP eP KIR eP	14 34 41 14 34 27	July	22	UPP iP Greece (h = 20 km).	12 12 52.2
		Philippine Islands region (h = 10 km).		"	22	UPP iP KIR iP	12 28 10.0 12 27 40.9
"	21	UPP iP	15 12 11.3			Mariana Islands region (h = 130 km).	
"	21	KIR iP	21 49 04.2	"	22	UPP ePKP	19 47 33
		Taiwan region (h = 45 km).				Fiji Islands region (h = 340 km).	
"	21	UPP iP iSKS	22 19 19.0 22 29 49	"	22	UPP iP KIR iP	20 52 30.8 20 52 29.9
			micr sec			Dominican Republic region (h = 110 km).	
		Mx	Z 1.8 22	"	22	UPP iP KIR iP	23 05 41.0 23 06 56.1
		KIR iP iPP	22 19 07.8 22 22 26.9			Greece (h = 30 km).	
		Near coast of Guatemala (h = 10 km).		"	23	UPP ePKP KIR iPKP	09 50 20 09 50 10.4
"	22	UPP iP KIR iP	01 22 31.5 01 21 56.8			Vanuatu Islands (h = 110 km).	
		South of Honshu, Japan (h = 370 km).		"	23	UPP iP i(PP) iPP iS i	11 57 23.1 C 11 58 55.3 11 59 06.5 12 03 12 12 06 32
"	22	UPP eP KIR iP	02 00 21 02 01 10.9				micr sec
		Turkey (h = 10 km).				P	Z' 0.5 0.6
"	22	UPP ePKP2	04 11 37			KIR iP i iPP	11 57 32.5 C 11 58 56.1 11 59 14.3
		Southern east Pacific Rise (h = 10 km).					micr sec
"	22	UPP iP i iS	05 09 35.6 05 09 44.5 05 19 56				micr sec
			micr sec			P	Z' 0.1 1.1
		P	Z' 0.1 0.8			Hindu Kush region (h = 270 km). m = 6.0 (UPP,KIR).	
		Mx	Z 3.7 21	"	23	UPP i(PKP) iPKP	15 28 03.6 15 28 07.9
		KIR iP i	05 09 38.8 05 09 49.2			KIR iPKP	15 27 57.4
			micr sec			Fiji Islands region (h = 570 km).	
		P	Z' 0.3 1.0	"	23	UPP ePKP iSKP1	16 56 47 16 59 26.2
		Northern Colombia (h = 20 km). m = 6.1 (UPP,KIR).				KIR iPKP iSKP1	16 56 34.2 16 59 01.2
"	22	UPP iPKP2	06 36 32.2			Fiji Islands region (h = 630 km).	
			micr sec	"	23	UPP iPKP	16 57 50.3
		Mx	Z 2.0 19			(cont).	
		KIR iPKP	06 36 03.8				
		Southern east Pacific Rise (h = 10 km).					

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1993				1993			
July	23	(cont). KIR iPKP	16 57 33.8	July	26	KIR iP	08 12 01.6
		Fiji Islands region (h = 630 km).				Aegean Sea (h = 10 km).	
"	23	UPP iP KIR iP	19 05 45.6 19 06 27.1	"	26	KIR iP	10 17 20.9
		Tanzania (h = 10 km).				Talau Islands, Indonesia (h = 110 km).	
"	23	UPP iP KIR iP	19 12 20.3 19 13 04.6	"	26	KIR iP	16 41 30.9
		Tanzania (h = N).				Andreanof Islands, Aleutian Is. (h = N).	
"	23	UPP iP KIR iP	19 48 49.0 19 48 15.7	"	27	UPP iP	11 05 08.8
		Bonin Islands region (h = N).				Greece-Albania border region (h = 25 km).	
	24	UPP iP KIR iP	02 02 35.6 02 01 49.4	"	27	UPP iP KIR iP	11 54 17.4 11 53 22.5
		East of Kuril Islands (h = N).				Gulf of Alaska (h = 10 km).	
"	24	UPP iP KIR iP	02 15 07.6 02 14 50.7	"	27	KIR iPKP	12 11 56.4
			micr sec			Santa Cruz Islands (h = 45 km).	
		P Z' 0.1 0.7		"	27	UPP iP iS	19 56 32.0 20 06 08
		Philippine Islands region (h = 120 km).				micr sec	
						Mx Z 3.2 17	
"	24	UPP iP	10 37 55.4			KIR iP	19 55 52.8
		Andreanof Islands, Aleutian Is. (h = N).				UME iP	19 56 10.6
						Off east coast of Honshu, Japan (h = 25 km).	
"	24	UPP iP	13 07 16.1	"	28	UPP iP KIR iP UME iP	03 17 42.6 03 17 51.3 03 17 40.9
		Eastern Sea of Japan (h = 15 km).				Afghanistan-Tajikistan border region (h = 270 km).	
"	24	UPP iPKP	20 43 33.7	"	28	UPP eP KIR iP	11 57 57 11 57 03.2
		micr sec				Komandorsky Islands region (h = N).	
		P Z' 0.2 1.2					
		KIR iPKP	20 43 19.5				
		iPKKP	20 53 23.7				
		micr sec					
		P Z' 0.3 0.9					
		Vanuatu Islands (h = 190 km).		"	28	UPP iP KIR iP UME iP	17 27 26.2 17 26 38.9 17 27 02.1
"	24	UPP iP KIR iP	21 39 27.2 21 39 36.5			Kuril Islands (h = 90 km).	
		Hindu Kush region (h = 220 km).					
"	25	UPP iP KIR iP	13 15 04.2 13 14 43.7	"	28	UPP ePKP i	18 26 29 18 26 33.1
		Taiwan region (h = 10 km).				micr sec	
						Mx Z 2.0 19	
						(cont).	

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1993				1993						
July	28	(cont).		July	29	(cont).				
		KIR	ePKP	18 26 17		KIR	iP	20 29 30.5		
			i	18 26 25.5		UME	iP	20 29 38.8		
		UME	iPKP	18 26 26.0		Guerrero, Mexico (h = 35 km).				
		Solomon Islands (h = 25 km).			"	5	UPP	Mx	01 56	
"	28	UME	iP	20 08 45.3				micr sec		
		Near coast of Chiapas, Mexico (h = 80 km).					Mx	Z 1.4 20		
		Off coast of Mexico region (h = 10 km).								
"	28	UPP	iP	23 28 25.6		"	30	UPP	iP	05 38 54.7
		KIR	iP	23 27 52.1				KIR	iP	05 38 37.6
		UME	iP	23 28 06.4				UME	iP	05 38 43.0
		South of Honshu, Japan (h = 390 km).						Mindoro, Philippine Islands (h = 90 km).		
"	29	UPP	iP	00 41 51.8		"	30	UPP	iP	11 51 46.3
"	29	UPP	iP	02 55 30.8		"	30	KIR	iPKP	13 52 07.8
		KIR	iP	02 55 14.5				UME	iPKP	13 52 15.1
		UME	iP	02 55 18.1				Vanuatu Islands (h = 320 km).		
		Philippine Islands region (h = 65 km).			"	30	UPP	i(PKP)	14 21 24.8	
"	29	UPP	iPKP2	04 38 49.4				iPKP	14 21 30.8	
		Kermadec Islands region (h = N).					KIR	iPKP	14 21 17.3	
"	29	UPP	iPKP1	04 44 18.2			UME	i(PKP)	14 21 18.9	
		KIR	ePKP	04 44 05				iPKP	14 21 24.3	
		UME	iPKP	04 44 10.0				Fiji Islands region (h = 570 km).		
		Kermadec Islands region (h = 35 km).			"	30	UPP	iP	14 29 16.9	
"	29	UME	eP	08 54 22				i	14 29 20.3	
		Near coast of Guatemala (h = 80 km).						iS	14 31 57.5	
									micr sec	
"	29	UPP	iP	09 16 32.3				P	Z' 0.1 0.9	
"	29	UPP	iP	12 33 27.2			KIR	iP	14 30 38.8	
		KIR	eP	12 33 14			UME	iP	14 29 57.3	
		UME	iP	12 33 07.7			Romania (h = 150 km).			
		Yunnan, China (h = N).			"	30	KIR	iP	23 41 45.3	
"	29	UPP	iP	15 04 16.1			UME	iP	23 41 13.1	
				micr sec			Egypt (h = 20 km).			
			P	Z' 0.1 0.9		"	31	KIR	iPKP	00 07 24.9
		KIR	iP	15 03 32.3				UME	ePKP	00 07 29
		UME	iP	15 03 51.9			Vanuatu Islands (h = N).			
		Hokkaido, Japan region (h = 55 km).			"	31	UPP	eP	02 03 52	
"	29	UPP	eP	20 29 47			KIR	iP	02 03 56.0	
			ipP	20 29 58.3			(cont).			
		(cont).					(cont).			

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1993

July	31	(cont).		
		UME	eP	02 03 53
		Nicobar Islands region (h = 260 km).		
"	31	KIR	eP	02 44 15
		UME	eP	02 43 49
		Lake Tanganyika region (h = 10 km).		
"	31	UPP	iP	13 14 29.5
		UME	iP	13 14 02.1
		Kuril Islands region (h = 110 km).		
"	31	UPP	iP	17 48 53.1
		UME	iP	17 49 00.6
		Northern Colombia (h = 160 km).		
"	31	UPP	iPKP	21 47 16.8
		Cordoba Province, Argentina		
		(h = 170 km).		

April 28, 1995

Atalay Ayele
Conny Holmqvist
Ota Kulhánek

SEISMOLOGICAL DEPARTMENT
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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,	13°52.2'E;	h = 150 m
Myrviken	(MYV)	62°56.5'N,	14°20.8'E;	h = 345 m

AUGUST 1 - 31, 1993

1993					1993					
Aug.	1	UPP	eP	00 28 59	Aug.	1	(cont).			
			iS	00 35 40			UME	iP	19 43 57.0	
				micr sec				ipP	19 44 05.4	
			Mx	Z 1.9 16			Puerto Rico region (h = 25 km).			
		UME	iP	00 29 28.2		"	2	UPP	iP	03 24 57.7
		Sudan (h = 15 km).						iS	03 34 28	
"	1	UPP	iPKP2	03 07 51.6					micr sec	
		UME	iPKP2	03 07 36.6				P	Z' 0.1 1.0	
		Off e. coast of N. Island, N. Z. (h = 65 km).						Mx	Z 6.4 16	
		KIR	iP	03 24 27.2					micr sec	
"	1	UPP	eP	03 41 40				P	Z' 0.1 1.0	
		UME	eP	03 41 59				Mx	Z 5.2 16	
		Greece-Albania border region (h = 15 km).					UME	iP	03 24 39.4	
								ipP	03 24 48.2	
"	1	UPP	iP	05 18 52.9			Kyushu, Japan (h = N).			
		UME	eP	05 19 32			m = 5.7, M = 5.9 (UPP,KIR).			
		Greece-Albania border region (h = 10 km).			"	2	KIR	iP	08 13 37.2	
								i	08 13 41.9	
"	1	UPP	eP	12 13 09			Oaxaca, Mexico (h = 120 km).			
		Sudan (h = 15 km).			"	2	UPP	eP	14 52 07	
"	1	UPP	eP	15 45 14			Myanmar-India border region (h = 80 km).			
		UME	iP	15 45 12.3						
		Guatemala (h = 240 km).			"	2	KIR	eP	15 58 37	
"	1	UPP	eP	19 43 50			UME	eP	15 58 30	
		KIR	iP	19 43 55.4			Central Peru (h = 55 km).			

(cont).

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

1993				1993					
Aug.	2	UPP	iP	16 08 03.9	Aug.	3	(cont).		
		KIR	iP	16 08 42.2			KIR	iP	07 30 04.3
		UME	iP	16 08 18.8					micr sec
				Northern Iran (h = 40 km).			P	Z'	0.2 1.5
"	2	UPP	eP	16 55 46			Mx	Z	7.5 17
			ipP	16 56 09.0			UME	iP	07 30 30.0
		KIR	iP	16 55 54.1			Queen Charlotte Islands region		
		UME	iP	16 55 44.5			(h = 10 km).		
			ipP	16 56 10.2			m = 6.1, M = 6.0 (UPP,KIR).		
				Afghanistan-Tajikistan bord. reg.	"	3	KIR	iP	10 48 12.8
				h = 110 km (UPP,UME).			UME	iP	10 48 51.9
"	2	UPP	iPKP2	18 29 52.9			North of Severnaya Zemlya		
		KIR	iPKP	18 29 20.9			(h = 10 km).		
		UME	iPKP2	18 29 29.2	"	3	UME	iPKP	12 40 51.1
				North Island, New Zealand			Santa Cruz Islands (h = N).		
				(h = 250 km).	"	3	UPP	iP	12 49 42.6 C
"	2	UPP	iP	23 12 31.4				ipP	12 49 45.8
		KIR	iP	23 12 40.4				i	12 49 49.5
		UME	iP	23 12 30.3				iS	12 54 52
				Afghanistan-Tajikistan bord. reg.					micr sec
				(h = N).			P	Z'	0.1 0.6
"	3	UPP	iPKP2	03 27 36.9			P	Z'	0.6 1.5
		KIR	iPKP1	03 27 06.5			Mx	Z	4.3 13
		UME	iPKP2	03 27 16.3			KIR	iP	12 50 41.3
				East of North Island, N. Z.				ipP	12 50 44.2
				(h = 55 km).				i	12 50 47.0
"	3	UPP	iP	06 21 59.0					micr sec
		KIR	iP	06 20 42.4 D			P	Z'	0.4 1.5
				micr sec			Mx	Z	3.7 14
			P	Z'			UME	iP	12 50 09.1
				0.1 0.9				ipP	12 50 12.1
		UME	iP	06 21 22.5				i	12 50 14.6
				North of Severnaya Zemlya			Egypt.		
				(h = 10 km).			h = 10 km (UPP,KIR,UME).		
"	3	UPP	iP	06 22 24.1			m = 6.1, M = 5.3 (UPP,KIR).		
		KIR	iP	06 21 56.2	"	3	UPP	iP	12 53 18.2
		UME	iP	06 22 08.2	"	3	UPP	iP	13 00 45.1
				South of Mariana Islands			KIR	iP	13 01 45.0
				(h = 45 km).			UME	eP	13 01 11
"	3	UPP	iP	07 30 51.4			Egypt (h = 10 km).		
			iS	07 39 44	"	3	UPP	iP	13 14 48.2
				micr sec			KIR	eP	13 14 01
			P	Z'			UME	eP	13 14 24
				0.1 1.1			Queen Charlotte Islands region		
			Mx	Z			(h = 10 km).		
				20 23					
				(cont).					

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1993				1993			
Aug.	3	UPP iP	13 18 57.3	Aug.	4	KIR iP	08 07 32.7
		KIR iP	13 19 55.4			Northern Iran (h = N).	
		UME iP	13 19 13.1				
		Egypt (h = 10 km).		"	4	UPP iP	11 44 03.3 C
"	3	KIR eP	13 37 07			iSKS	11 54 28
		UME iP	13 36 39.5			iS	11 54 40
		Egypt (h = 10 km).					micr sec
"	3	UPP iP	13 40 28.0			P	Z' 0.1 0.8
		KIR iP	13 41 22.6			Mx	Z 11 21
		UME eP	13 40 50			KIR iP	11 44 03.6 C
		Egypt (h = 10 km).					micr sec
"	3	UPP iP	13 51 38.1			P	Z' 0.3 0.9
		KIR iP	13 52 36.8			Mx	Z 5.9 19
		UME iP	13 52 04.6			UME iP	11 44 00.5 C
		Egypt (h = 10 km).				Sothorn Sumatera, Indonesia	
"	3	UPP iP	14 24 11.9			(h = 30 km).	
		Greece (h = 10 km).		"	4	KIR iP	13 16 15.7
"	3	UPP iP	16 39 58.2 D			Banda Sea (h = 25 km).	
			iS	"	4	UPP iP	15 51 44.2
			micr sec			KIR iP	15 51 16.1
		P	Z' 0.1 1.0			Ryukyu Islands (h = 45 km).	
		Mx	Z 1.2 13	"	4	UPP eP	19 52 54.3
		KIR iP	16 40 56.5 D			ipP	19 54 08.2
			micr sec			KIR iP	19 53 21.0
		P	Z' 0.4 1.3			Turkmenistan-Iran border region	
		Mx	Z 1.5 14			(h = N).	
		UME iP	16 40 24.7	"	4	UPP iPKP2	22 49 05.2
		Egypt (h = 10 km).				KIR iPKP1	22 49 22.4
		m = 5.8, M = 4.8 (UPP,KIR).				North of Macquarie Island	
"	3	UPP iP	17 56 59.0			(h = 10 km).	
		Egypt (h = 10 km).		"	5	UPP eP	01 33 29.0
"	3	UPP iP	18 08 40.5			ipP	01 33 45.7
		KIR iP	18 09 37.2			KIR iP	01 33 14.0
		Egypt (h = 10 km).				ipP	01 33 31.7
"	3	UPP iP	21 00 29.1			Querrero, Mexico.	
		KIR iP	21 01 27.2			h = 65 km (UPP,KIR).	
		Egypt (h = 10 km).		"	5	UPP iP	05 30 19.6
"	4	UME iSg1	06 49 49.2			KIR iP	05 29 39.1
		Northern Norway, 69.3°N, 25.1°E.				UME eP	05 29 57
		Origin time = 06 46 44.				Off east coast of Honshu, Japan	
		By combination with Finnish and				(h = 30 km).	
		Norwegian station readings.					

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1993				1993			
Aug.	5	UPP	iP	07 08 51.9	Aug.	6	(cont).
				micr sec			Luzon, Philippine Islands.
				Z 1.9 16			h = 50 km (UPP,KIR,UME).
		KIR	iPn	07 07 28.5	"	6	UPP eP 07 55 47
			i	07 07 38.2			KIR iP 07 57 13.3
			iSn	07 08 51.8			UME iP 07 56 34.0
			i	07 09 05.5			Central Italy (h = 30 km).
				micr sec			
				Z 0.6 10			
		UME	iPn	07 08 11.0	"	6	UPP iP 10 01 58.1
			iSn	07 10 05.9			KIR iP 10 02 38.9
		UDD	iP	07 08 39.7			UME iP 10 02 21.1
				Norwegian Sea (h = 10 km).			Ascension Island region (h = 10 km).
"	5	UPP	i(PKP)	13 00 49.8	"	6	UPP iP 23 43 20.4
			iPKP	13 00 55.7			KIR iP 23 42 28.6
			iSKP1	13 03 34.2			UME iP 23 42 57.2
		KIR	iPKP	13 00 42.2			Alaska Peninsula (h = 65 km).
			iSKP1	13 03 08.5	"	7	UPP iP 00 12 05.9 D
		UME	iPKP	13 00 49.1			i 00 12 08.7
			iSKP1	13 03 21.4			ipP 00 12 46.8
				Fiji Islands region			iS 00 21 32
				(h = 620 km).			micr sec
"	5	UPP	ePKP	13 36 44			P Z' 0.2 1.0
			iPKP1	13 36 52.9			P Z' 1.9 1.0
			iPKP2	13 37 02.1			Mx Z 5.3 18
		KIR	iPKP	13 36 34.7		KIR	iP 00 11 38.5
		UME	iPKP2	13 36 45.2			i 00 11 41.2
				South of Kermadec Islands			i 00 12 00.3
				(h = 250 km).			ipP 00 12 14.6
"	5	KIR	iP	23 18 23.6			micr sec
				Talaud Islands, Indonesia			P Z' 0.8 1.2
				(h = 50 km).			Mx Z 3.4 14
"	6	UPP	iP	01 30 17.6		UME	iP 00 11 49.1
				Greece-Albania border region			i 00 11 51.7
				(h = 20 km).			ipP 00 12 25.5
"	6	UPP	iP	01 42 04.1			Northeast of Taiwan.
		UME	iP	01 41 47.2			h = 160 km (UPP,KIR,UME).
				Ryukyu Islands (h = N).			m = 6.4, M = 5.8 (UPP,KIR).
"	6	UPP	eP	06 34 30.2			M uncorrected for focal depth.
			ipP	06 34 44.9	"	7	KIR iP 01 09 54.8
		KIR	eP	06 34 10.2			UME iP 01 09 31.7
			ipP	06 34 25.3			Tanzania (h = N).
		UME	eP	06 34 18	"	7	UPP iP 05 02 17.7
			ipP	06 34 32.3			KIR eP 05 03 14
				(cont).			Egypt (h = 10 km).

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1993				1993			
Aug.	8	KIR iP	16 34 59.3	Aug.	9	UPP iP	06 11 40.4
		UME iP	16 35 10.9			KIR iP	06 12 38.8
		Mariana Islands (h = 55 km).				UME iP	06 12 07.9
"	8	KIR iP	17 10 51.9	"	9	Egypt (h = 10 km).	
		UME iP	17 11 03.0			UPP iP	07 18 27.6
		Mariana Islands (h = 50 km).				KIR eP	07 17 55
"	8	KIR iP	18 20 23.8			UME eP	07 18 09
		Mariana islands (h = 45 km).				Bonin Islands (h = N).	
"	8	UPP iP	20 16 35.4	"	9	KIR iP	08 07 34.8
		i	20 17 05.1			UME iP	08 07 40.2
			micr sec			Mariana Islands (h = 90 km).	
		Mx	Z 2.7 17	"	9	KIR iP	08 13 17.6
		KIR iP	20 16 08.0			UME iP	08 13 29.2
		i	20 16 46.2			South of Mariana Islands (h = 45 km).	
			micr sec	"	9	KIR iP	08 32 34.6
		Mx	Z 2.4 20			UME iP	08 32 42.5
		UME iP	20 16 18.7			South of Mariana Islands (h = 50 km).	
		i	20 16 57.6	"	9	UPP iP	09 28 37.4
		Mariana Islands (h = 55 km).					micr sec
		M = 5.7 (UPP,KIR).				Mx	Z 3.2 17
"	8	KIR iP	20 40 28.6			KIR iP	09 28 10.2
		UME iP	20 40 39.9				micr sec
		South of Mariana Islands				Mx	Z 3.2 23
		(h = 70 km).				UME iP	09 28 20.9
"	8	KIR iP	20 42 46.9			Mariana Islands (h = 60 km).	
		UME iP	20 42 58.1			M = 5.7 (UPP,KIR).	
		Mariana Islands (h = 65 km).		"	9	KIR iP	10 21 31.4
"	8	KIR eP	21 24 04			UME iP	10 21 42.9
		UME eP	21 24 16			South of Mariana Islands (h = 35 km).	
		South of Mariana Islands		"	9	KIR iP	11 06 32.0
		(h = 60 km).				UME iP	11 06 43.2
"	8	UPP iP	22 49 10.6			Mariana Islands (h = 70 km).	
			micr sec	"	9	UPP iP	11 45 54.6 C
		Mx	Z 1.3 14			i	11 47 00.0
		KIR iP	22 49 17.7			iPP	11 47 27
			micr sec			iS	11 51 50
		Mx	Z 1.5 13			i	11 54 16
		UME iP	22 49 07.0				micr sec
		Afghanistan-Tajikistan border region				P	Z' 1.2 1.0
		(h = 15 km).				KIR iP	11 45 03.7 C
		M = 4.9 (UPP,KIR).					micr sec
						P	Z' 2.4 1.3

(cont).

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1993				1993			
Aug.				Aug.			
9	(cont).			9	KIR	iP	20 26 13.1
	UME	iP	11 45 53.2 C		UME	iP	20 26 32.0
	Hindu Kush region, Afghanistan (h = 200 km).				Off east coast of Honshu, Japan (h = N).		
	m = 6.5, (UPP,KIR).						
"	9	UPP	iP	"	10	UPP	iPKP
			12 50 10.0 C				01 11 45.1
			i				iPKP2
			12 50 13.2				01 12 15.3
			i				micr sec
			12 52 54.0			P	Z' 0.2 1.7
			iS			Mx	Z 40 26
			12 56 04		KIR	iPKP	01 11 36.3
			micr sec			iPKP1	01 11 43.8
		P	Z' 1.9 0.8			iPKP2	01 11 52.1
	KIR	iP	12 50 18.8 C				micr sec
			i			P	Z' 0.1 1.1
			12 50 22.6			Mx	Z 25 23
			micr sec		UME	iPKP	01 11 40.5
		P	Z' 2.9 1.0			iPKP1	01 11 49.6
	UME	iP	12 50 08.5 C			iPKP2	01 12 02.7
	Hindu Kush region, Afghanistan (h = 220 km).				Off w. coast of S. Island, N. Z. (h = 30 km).		
	m = 6.8 (UPP,KIR).				M = 7.0 (UPP,KIR).		
"	9	KIR	iP	"	10	UME	iP
		UME	iP				01 19 29.9
	South of Mariana Islands (h = 50 km).				Southern Italy (h = 10 km).		
"	9	UPP	iP	"	10	UPP	iPKP
		KIR	eP				02 55 21.8
		UME	iP				iPKP1
	Mariana Islands (h = 65 km).						02 55 38.6
			14 29 24.9				iPKP2
			14 29 03		KIR	iPKP1	02 55 53.9
			14 29 11.5			iPKP2	02 55 23.0
"	9	KIR	iP				02 55 35.1
		UME	iP		UME	iPKP	02 55 21.0
	South of Mariana Islands (h = 50 km).					iPKP1	02 55 29.2
			14 41 10.7			iPKP2	02 55 42.4
			14 41 21.9		Off w. coast of S. Island, N. Z. (h = N).		
"	9	KIR	iP	"	10	UPP	iP
		UME	iP				06 00 06.5
	South of Mariana Islands (h = 50 km).					UME	iP
			15 04 55.2				05 59 50.8
			15 05 07.3		Mariana Islands (h = 80 km).		
"	9	KIR	iP	"	10	UPP	iP
		UME	iP				06 02 52.5
	South of Mariana Islands (h = 50 km).					UME	iP
			16 32 49.6				06 03 34.8
			16 32 59.8		Greece (h = 15 km).		
"	9	UPP	iP	"	10	UPP	iP
		UME	eP				06 57 08.2
	Mariana Islands (h = 90 km).					KIR	iP
			19 15 13.3				06 56 52.6
			19 14 58.8		Yunnan, China (h = 10 km).		

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1993				1993						
Aug.	10	UPP	iP	09 06 40.5	Aug.	10	UPP	iP	21 13 48.3	
				micr sec				ipP	21 13 51.3	
			P	Z' 0.1 1.2			KIR	eP	21 12 31	
		KIR	iP	09 06 14.0			UME	iP	21 13 13.3	
				micr sec					Near north coast of Greenland	
			P	Z' 0.1 1.1					(h = 10 km).	
		UME	iP	09 06 25.6		"	11	KIR	iP	01 48 21.9
				South of Mariana Islands				UME	iP	01 48 02.6
				(h = 45 km).						North of Ascension Island
				m = 6.2 (UPP,KIR).						(h = 10 km).
"	10	UPP	iPKP	10 06 27.2	"	11	UME	iP	03 23 44.8	
			iPKP1	10 06 35.1					North of Ascension Island	
			iPKP2	10 06 51.0					(h = 10 km).	
				micr sec						
			Mx	Z 5.1 20		"	11	UPP	iPKP2	04 04 09.4
		KIR	iPKP1	10 06 18.1				KIR	iPKP1	04 03 39.4
				micr sec					iPKP2	04 03 47.1
			Mx	Z 4.7 21				UME	iPKP1	04 03 44.5
		UME	iPKP	10 06 21.1						Off w. coast of S. Island,
			iPKP1	10 06 27.4						N. Z. (h = 20 km).
				North Island, New Zealand		"	11	UPP	iPKP2	04 29 33.8
				(h = 15 km).				KIR	iPKP	04 28 57.2
				M = 6.3 (UPP,KIR).					iPKP1	04 29 03.2
"	10	KIR	eP	12 32 04				UME	iPKP1	04 29 08.3
		UME	iP	12 32 15.8					iPKP2	04 29 21.3
				Mariana Islands (h = 70 km).						Off w. coast of S. Island,
"	10	KIR	iPKP1	13 56 08.5						N. Z. (h = 30 km).
		UME	iPKP1	13 56 15.1	"	11	KIR	iP	04 37 44.6	
				Off w. coast of S. Island,						North of Ascension Island
				N. Z. (h = N).						(h = 10 km).
"	10	UPP	iP	19 41 52.2	"	11	UPP	iP	11 28 03.5	
			ipP	19 41 55.7				KIR	iP	11 27 47.1
			iS	19 46 24				UME	iP	11 27 52.9
				micr sec						Northern Molucca Sea (h = N).
			P	Z' 0.2 1.2	"	11	UPP	iP	13 03 41.7	
			P	Z' 0.4 1.0				KIR	iP	13 03 16.2
			Mx	Z 2.6 14				UME	iP	13 03 25.0
		KIR	iP	19 40 34.4						Southeast of Ryukyu Islands (h = N).
			ipP	19 40 38.1	"	11	UPP	iP	14 31 04.1	
				micr sec				iSKS	14 41 40	
			P	Z' 0.7 1.5						micr sec
			Mx	Z 2.4 12				P	Z' 0.1 1.0	
		UME	iP	19 41 16.1				Mx	Z 10 17	
			ipP	19 41 19.6						
				Near north coast of Greenland.						
				h = 15 km (UPP,KIR,UME).						
				m = 5.8 (UPP,KIR).						

(cont).

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1993				1993					
Aug.	11	(cont.)		Aug.	13	UPP	iPKP1	11 22 05.7	
		KIR	iP				iPKP2	11 22 19.3	
						KIR	iPKP	11 21 46.5	
			P			UME	iPKP1	11 22 55.2	
						Off e. coast of N. Island, N. Z. (h = 100 km).			
			Mx						
		UME	iP						
		Mariana Islands (h = 20 km).			"	14	UPP	iP	01 40 42.4
		m = 6.4, M = 6.1 (UPP,KIR).					KIR	iP	01 40 08.4
"	11	KIR	iP	14 55 40.2			UME	iP	01 40 22.2
		UME	iP	14 55 51.9			Shikoku, Japan (h = 40 km).		
		Mariana Islands (h = 30 km).			"	14	UPP	iP	04 00 13.2
"	11	UME	iP	17 22 31.8			UME	iP	04 00 11.2
		Lake Tanganyika region (h = 20 km).					Afghanistan-Tajikistan bord. reg. (h = 65 km).		
"	11	KIR	iPKP1	22 28 39.7	"	14	UPP	iPKP1	09 17 40.4
			iPKP2	22 28 49.0			UME	iPKP	09 17 30.0
		Off w. coast of S. Island, N. Z. (h = N).					Kermadec Island region (h = 290 km).		
"	12	UPP	Mx	02 14	"	14	UPP	iP	14 40 46.0
				micr sec			UME	iP	14 40 34.6
			Mx	Z 1.3 19			Yunnan, China (h = N).		
		KIR	Mx	02 12	"	14	UPP	iP	19 49 56.8
				micr sec	"	14	UPP	iP	19 52 39.7
			Mx	Z 1.6 21	"	15	UPP	iP	03 18 06.6
		Santa Cruz Islands (h = 35 km).					UME	iP	03 18 04.5
		M = 5.6 (UPP,KIR).					Northern Sumatera, Indonesia (h = 40 km).		
"	12	KIR	iP	04 52 58.2	"	15	UPP	iP	03 21 21.1
		North Atlantic Ocean (h = 10 km).						i	03 21 29.3
"	12	UPP	iP	09 50 38.6				iS	03 30 27
		KIR	iP	09 50 10.9					micr sec
		UME	iP	09 50 22.7				P	Z' 0.1 1.1
		Mariana Islands (h = 40 km).						Mx	Z 1.9 16
"	12	KIR	eP	09 58 10			UME	iP	03 21 43.5
		UME	eP	09 58 33			Central Mid-Atlantic Ridge (h = 15 km).		
		Kuril Islands (h = 35 km).			"	15	UPP	iPKP1	03 52 36.3
"	13	UPP	iP	00 50 30.7			UME	iPKP1	03 52 26.7
		KIR	iP	00 51 08.7			Off e. coast of N. Island, N. Z. (h = 25 km).		
		Western Iran (h = 15 km).							
"	13	KIR	iP	03 43 56.0					
		Northern Alaska (h = 30 km).							

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1993				1993			
Aug.	15	UPP eP UME iP Mindanao, Philippine Islands (h = 60 km).	05 52 09 05 51 59.8	Aug.	17	KIR iPKP1 UME iPKP1 Off w. coast of S. Island, N. Z. (h = N).	07 13 58.9 07 13 04.0
"	15	UME iP Mariana Islands (h = N).	09 30 55.7	"	17	KIR iPKP1 UME iPKP Off w. coast of S. Island, N. Z. (h = N).	08 00 39.3 08 00 30.3
"	15	UPP iP ipP KIR iP ipP UME eP ipP Kamchatka. h = 140 km (UPP,KIR,UME).	14 52 26.0 14 53 01.1 14 52 35.2 14 53 08.1 14 53 04 14 53 35.8	"	17	KIR iPKP2 UME iPKP1 iPKP2 South Island, New Zealand (h = N).	09 32 49.1 09 32 46.1 09 32 56.7
"	15	UPP iP KIR iP UME iP Near east coast of Kamchatka (h = 60 km).	20 39 20.6 20 38 26.9 20 38 52.7	"	17	KIR iP UME iP Puerto Rico region (h = 25 km).	10 27 35.1 10 27 35.0
"	16	UPP iP ipP iSKS micr sec Mx Z 8.3 21 KIR iP ipP UME iP South of Mariana Islands. h = 20 km (UPP,KIR).	04 47 14.2 04 47 19.9 04 57 46 04 46 47.4 04 46 53.3 04 46 59.0	"	17	UPP iP KIR iP UME iP i Greece-Albania border region (h = 10 km).	16 30 37.3 16 31 52.4 16 31 17.1 16 31 24.3
"	16	UPP iP KIR iP Rat Islands, Aleutian Islands (h = N).	14 55 54.6 14 55 01.4	"	18	KIR iP South of Mariana Islands (h = N).	01 50 49.0
"	16	UPP iP KIR iP Vanuatu Islands (h = 25 km).	17 23 48.1 17 23 34.8	"	18	UPP eP KIR iP UME eP Crete (h = 30 km).	12 14 50 12 15 52.1 12 15 21
"	16	UPP iPKP KIR iPKP Vanuatu Islands (h = 25 km).	17 23 48.1 17 23 34.8	"	19	KIR iP UME iP South of Honshu, Japan (h = 380 km).	00 57 27.0 00 57 41.0
"	16	UPP iP Rat Islands, Aleutian Islands (h = N).	19 03 41.6	"	19	KIR iP Xizang-India border region (h = N).	03 58 27.0
"	17	UPP iP KIR iP UME iP Talaud Islands, Indonesia (h = 150 km).	03 38 37.0 03 38 21.0 03 38 25.9	"	19	KIR eP UME eP Halmahera, Indonesia (h = 80 km).	04 44 15 04 44 20

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1993				1993					
Aug.	19	UPP	iP	07 01 03.0	Aug.	19	UPP	eP	22 05 17
				micr sec			KIR	iP	22 04 59.2
			P	Z' 0.1 1.0			UME	eP	22 05 05
		KIR	iP	07 00 44.6			Mindanao, Philippine Islands		
		UME	iP	07 00 50.9			(h = 30 km).		
		Luzon, Philippine Islands			"	19	UPP	iP	22 12 38.4
		(h = 70 km).					Hokkaido, Japan region (h = N).		
"	19	UPP	iP	08 16 44.0	"	20	UPP	Mx	06 15
				micr sec					micr sec
			P	Z' 0.1 1.2				Mx	Z 7.8 22
			Mx	Z 3.6 19			KIR	iPdiff	05 21 10.1
		KIR	iP	08 16 17.6				iPKP	05 25 22.0
				micr sec					micr sec
			P	Z' 0.2 1.2				Mx	Z 4.2 21
			Mx	Z 1.9 15			UME	iPKP	05 25 24.3
		UME	iP	08 16 29.7 D			New Guinea, Papua New Guinea		
		Mariana Islands (h = 60 km).					(h = 15 km).		
		m = 6.2, M = 5.7 (UPP,KIR).					M = 6.1 (UPP,KIR).		
"	19	UPP	iP	08 22 54.1	"	20	UPP	iP	12 04 18.7 C
		KIR	iP	08 22 00.0					micr sec
		UME	iP	08 22 26.6				P	Z' 0.1 0.9
		Fox Islands, Aleutian Islands (h = N).					KIR	iP	12 03 50.1 C
"	19	UPP	iP	10 11 05.7					micr sec
		KIR	iP	10 11 41.0				P	Z' 0.3 0.8
		UME	iP	10 11 16.1			UME	iP	12 04 02.2 C
		Northern Iran (h = 20 km).					Mariana Islands region (h = 290 km).		
"	19	UPP	iP	15 34 50.0			m = 5.8 (UPP,KIR).		
				micr sec	"	20	UPP	iPKP	17 14 57.6 D
			Mx	Z 3.2 17					micr sec
		KIR	iP	15 34 31.7				P	Z' 0.1 0.6
				micr sec			KIR	i(PKP)	17 14 37.3
			Mx	Z 4.8 17				iPKP	17 14 46.0
		UME	iP	15 34 38.4			UME	iPKP	17 14 44.9
		Mindanao, Philippine Islands						iSKP1	17 17 30.7
		(h = 30 km).					South of Fiji Islands (h = 640 km).		
		M = 5.9 (UPP,KIR).			"	20	KIR	iP	17 07 11.5
"	19	UPP	eP	15 44 36			Kuril Islands (h = 45 km).		
		KIR	iP	15 44 37.3	"	20	UPP	iPKP	19 16 45.3 D
		UME	iP	15 44 41.2 D					micr sec
		Dominican Republic region						P	Z' 0.3 0.8
		(h = 25 km).					KIR	iPKP	19 16 33.8
"	19	UPP	iP	16 35 38.6			UME	iPKP	19 16 34.4
		KIR	iP	16 35 04.7			South of Tonga Islands (h = 20 km).		
		UME	iP	16 35 19.5					
		Bonin Islands region (h = 35 km).							

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1993				1993					
Aug.	20	UPP KIR UME	iP iP iP	20 10 33.4 20 10 07.9 20 10 17.4	Aug.	21	UPP KIR	iP iP	20 12 49.6 20 11 52.2
				Northeast of Taiwan (h = 220 km).					Northern Alaska (h = 5 km).
"	20	KIR	iP	21 25 45.1	"	22	UPP KIR UME	iP iP iP	10 14 43.2 10 14 34.0 10 14 41.3
				South of Mariana Islands (h = N).					Guatemala (h = 110 km).
"	20	UPP KIR UME	iP iP iP	21 33 29.6 21 32 35.5 21 33 05.0	"	22	KIR UME	iP iP	22 10 03.6 22 09 55.8
				Alaska Peninsula (h = N).					Tajikistan-Xijiang bord. reg. (h = N).
"	20	UPP KIR UME	iP iP iP	23 16 36.9 23 17 36.2 23 17 03.0	"	23	UPP KIR UME	iP iP iP	05 29 55.9 05 30 13.2 05 30 02.9
				Egypt (h = 10 km).					Pakistan (h = 25 km).
"	21	KIR	iPn iSn iPn iPn	01 46 02.8 01 47 11.3 01 46 45.2 01 47 16.6	"	23	UPP KIR	iP iP	09 15 14.2 09 14 43.9
				Norwegian Sea (h = 10 km).					Ryukyu Islands (h = 40 km).
"	21	UPP KIR UME	eP iP eP	01 58 43 01 58 09.8 01 58 30	"	23	KIR UME	iPKP iPKP	10 20 14.1 10 20 20.3
				Southern California (h = 10 km).					Vanuatu Islands (h = 200 km).
"	21	UPP KIR UME	iP iP iP	05 00 48.9 05 00 16.6 05 00 30.7	"	23	UPP KIR UME	iP iP iP iP	12 19 12.2 12 19 23.7 12 18 33.2 12 18 45.1 12 18 50.3 12 19 00.7
				South of Honshu, Japan (h = 530 km).					Near east coast of Honshu, Japan. h = 40 km (UPP,KIR,UME).
"	21	UPP UME	iP iP	08 02 54.1 08 02 27.9	"	23	UPP KIR UME	iP iP iP	13 26 10.7 13 25 28.2 13 25 46.6
				Kuril Islands (h = N).					Hokkaido, Japan region (h = 20 km).
"	21	UPP KIR UME	iPKP iSKP1 i(PKP) iPKP iSKP1 i(PKP) iPKP iSKP1	10 01 06.1 10 04 10.7 10 00 49.5 10 00 59.0 10 03 48.7 10 00 56.1 10 01 03.6 10 03 58.2	"	23	UPP KIR UME	iP iP iP	19 59 21.7 19 59 39.2 19 59 25.2
				Fiji Islands region (h = 430 km).					Pakistan (h = 30 km).
					"	23	KIR UME	iP iP	21 53 29.9 21 53 41.5
									Mariana Islands (h = 60 km).

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

1993				1993			
Aug.	23	KIR iP	23 32 11.8	Aug.	25	KIR iP	16 10 01.4
			Andaman Islands, India (h = 20 km).			UME iP	16 10 09.8
"	24	UPP iP	00 58 42.2			Western Caroline Islands	
		KIR iP	00 58 35.0			(h = 15 km).	
		UME eP	00 58 42	"	25	UME iPdiff	18 43 40.0
			Nicaragua (h = 170 km).			Aru Islands region, Indonesia (h = N).	
"	24	KIR iP	04 08 19.7	"	25	UPP eP	23 02 27
			Andaman Islands, India (h = N).			KIR iP	23 03 29
"	24	UPP eP	06 07 22			UME eP	23 02 53
		KIR eP	06 07 02			Turkey (h = 65 km).	
		UME eP	06 07 11	"	26	KIR iP	01 02 52.8
			Philippine Islands region (h = N).			Jawa, Indonesia (h = N).	
"	24	KIR eP	17 57 12	"	26	KIR iP	01 49 32.9
			Southern India (h = 25 km).			UME iP	01 49 41.5
"	24	UPP iP	19 31 29.5			Off e. coast of N. Island,	
		KIR iP	19 31 01.0			N. Z. (h = N).	
		UME iP	19 31 13.1	"	26	UPP iP	01 56 44.1
			Mariana Islands (h = 110 km).			KIR iP	01 56 39.6
"	24	KIR iP	22 09 46.4			UME iP	01 56 39.0
			Andaman Islands, India (h = 20 km).			Jawa, Indonesia (h = 65 km).	
"	24	KIR iP	23 03 59.1	"	26	UPP iP	10 09 09.8
			Andaman Islands, India (h = 25 km).			iS	10 13 20
"	24	KIR eP	23 30 16				micr sec
			Andaman Islands, India (h = 20 km).			P	Z' 0.1 1.1
"	24	KIR iP	23 47 32.3			Mx	Z 2.2 10
		UME iP	23 47 24.6			KIR iP	10 10 16.3
			Andaman Islands, India (h = 20 km).				micr sec
"	24	KIR iP	23 47 32.3			Mx	Z 0.6 10
		UME iP	23 47 24.6			UME iP	10 09 43.8
			Andaman Islands, India (h = 20 km).			Dodecanese Islands (h = N).	
"	25	UPP iP	03 17 32.7			M = 4.7 (UPP,KIR).	
		UME iP	03 17 13.3	"	26	KIR iP	11 55 24.6
			Mariana Islands (h = 190 km).			UME eP	11 55 56
"	25	UPP Mx	06 36			Southeastern Alaska (h = 10 km).	
			micr sec	"	26	UPP iP	12 02 20.3
		Mx	Z 3.0 22			KIR iP	12 01 25.5
		KIR Mx	06 22			UME iP	12 01 54.1
			micr sec			Southeastern Alaska (h = 10 km).	
		Mx	Z 1.4 20	"	26	KIR eP	12 12 15
		Off coast of southern Chile				UME iP	12 12 25.4
		(h = 10 km).				Guerrero, Mexico (h = 70 km).	
		M = 5.8 (UPP,KIR).					

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1993				1993			
Aug.	26	KIR	iP	17 34 38.1	Aug.	27	(cont).
		UME	iP	17 35 00.2			UME iPKP1 06 06 25.5
		Kuril Islands (h = N).					Off e. coast of N. Island, N. Z. (h = N).
"	26	UPP	iSg1	19 25 36.4	"	27	UPP iP 11 56 25.4
		UME	iSg1	19 26 09.3			KIR eP 11 56 18
		UDD	iPn	19 23 14.1			Myanmar (h = N).
			iSg1	19 24 34.0			
		DEL	iSg1	19 25 36.0	"	27	UPP iPKP 23 48 19.1
		Off coast of southwestern Norway, 61.1°N, 4.0°E.					New Guinea, Papua New Guinea (h = N).
		Origin time = 19 22 03.					
		M _L (UPP) = 2.8 1.					
		By combination with Finnish station readings.				"	28 UPP iPKP 01 44 33.6
							i 01 44 12.1
							Kermadec Islands region (h = 480 km).
"	26	KIR	iP	19 56 25.9	"	28	KIR iP 02 01 52.9
		UME	iP	19 55 51.0			UME iP 02 02 38.9
		Turkey (h = 15 km).					North of Svalbard (h = 10 km).
"	26	KIR	iP	21 06 31.1	"	28	UPP iP 03 06 50.3
		Mindanao, Philippine Islands (h = 70 km).					UME iP 03 06 33.0
							Mariana Islands (h = 210 km).
"	26	UPP	iP	21 35 58.6	"	28	UPP iP 04 36 22.8
			iPP	21 35 10.8			KIR iP 04 36 38.5
				micr sec			UME iP 04 36 27.0
			P	Z' 0.1 0.6			Southern India (h = 5 km).
		KIR	iP	21 37 21.2			
				micr sec			
			P	Z' 0.1 1.0	"	28	UPP iP 14 04 54.7
		UME	iP	21 36 39.4			KIR iP 14 04 37.6
			iPP	21 36 55.8			UME iP 14 04 42.2
		Romania (h = 140 km).					Mindanao, Philippine Islands (h = 65 km).
		m = 5.3 (UPP,KIR).					
"	27	UPP	iP	00 28 33.2	"	28	KIR iP 20 02 43.0
			ipP	00 28 47.7			UME iP 20 02 55.0
		KIR	iP	00 28 35.7			Iceland (h = 10 km).
			ipP	00 28 50.5	"	28	UPP iP 20 26 29.3
		UME	iP	00 28 31.1			i 20 26 57.8
			ipP	00 28 45.6			iS 20 36 10
		Nicobar Islands, India.					micr sec
		h = 55 km (UPP,KIR,UME).					P Z' 0.3 0.9
"	27	KIR	eP	03 13 11			Mx Z 0.9 17
		Andaman Islands, India (h = N).					KIR iP 20 26 30.6
							micr sec
"	27	UPP	iPKP	06 06 26.9			P Z' 0.6 1.1
		KIR	iPKP	06 06 16.0			(cont).
		(cont).					

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1993			1993		
Aug.	28	(cont). UME iP 20 26 26.8 Nicobar Islands, India (h = 130 km). m = 6.2 (UPP,KIR).	Aug.	30	UPP iP 12 23 00.1 KIR iP 12 22 12.3 UME iP 12 22 34.2 Sakhalin Island (h = 20 km).
"	28	UPP iP 23 03 34.8 KIR iP 23 02 54.8 UME iP 23 03 13.5 D Near east coast of Honshu, Japan (h = 45 km).	"	30	KIR eP 15 41 15 UME iP 15 41 31.4 South of Honshu, Japan (h = 10 km).
"	29	UPP iP 00 57 44.4 Central Mediterranean Sea (h = 10 km).	"	30	UPP ePKP 20 17 41 KIR iP 20 17 27.9 UME iP 20 17 35.3 Fiji Islands region (h = 650 km).
"	29	UPP eSg1 03 02 49 KIR iSg1 03 02 52.2 UME iPg1 03 00 51.1 D iSg1 03 01 02.2 UDD iSg1 03 03 20.5 Gulf of Bothnia, 63.6°N, 22.1°E. Origin time = 03 00 36. M _L (UPP) = 2.6 1. By combination with Finnish station readings.	"	31	KIR ePdiff 04 04 15 UME iPdiff 04 04 20.9 Banda Sea (h = 120 km).
"	29	UPP eP 04 09 43 KIR eP 04 09 15 Western Nei Mongol, China (h = 10 km).	"	31	UPP iP 07 01 02.9 ipP 07 01 20.8 i 07 01 34.0 eS 07 05 30 micr sec P Z' 0.1 1.1 P Z' 0.2 1.0 KIR iP 07 01 37.1 ipP 07 01 55.0 micr sec P Z' 0.1 0.7 UME iP 07 01 13.5 ipP 07 01 31.2 Caspian Sea. h = 80 km (UPP,KIR,UME). m = 5.7 (UPP,KIR).
"	29	UPP eP 08 53 25 KIR eP 08 53 07 UME iP 08 53 18.1 Guerrero, Mexico (h = 90 km).	"	31	UPP eP 08 09 32 KIR iP 08 10 40.0 Southern Greece (h = 30 km).
"	29	UPP iPdiff 10 11 54.5 KIR iPdiff 10 11 39.4 UME iPdiff 10 11 44.7 Banda Sea (h = 150 km).	"	31	UPP eP 14 45 52 KIR eP 14 45 24 Mariana Islands (h = N).
"	29	UPP iP 19 14 27.1 KIR eP 19 13 49 UME iP 19 14 05.1 South of Honshu, Japan (h = 10 km).			May 19, 1995
"	30	KIR eP 09 17 29 Panay, Philippine Islands (h = N).			Conny Holmqvist Ota Kulhánek Xin Pi Yao Zhengsheng

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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

SEPTEMBER 1 - 30, 1993

1993					1993				
Sep.	1	KIR	iP	00 44 01.5	Sep.	1	UPP	iP	04 33 57.8
		UME	eP	00 44 13			KIR	iP	04 33 36.9
		South of Honshu, Japan					UME	iP	04 33 43.5
		(h = N).					Philippine Islands region (h = 30 km).		
"	1	UPP	iP	00 53 16.6	"	1	KIR	eP	06 39 25
			ipP	00 53 30.1			UME	iP	06 39 38.2
			iS	01 03 08				i	06 39 43.9
				micr sec				i	06 39 53.7
		P	Z'	0.1 1.2			South of Honshu, Japan (h = 40 km).		
		Mx	Z	2.0 15					
		KIR	iP	00 52 40.8	"	1	UPP	iP	09 17 03.2
			ipP	00 52 54.1			KIR	eP	09 16 46
				micr sec			UME	iP	09 17 03.5
		P	Z'	0.1 1.0			Near coast of Chiapas, Mexico		
		UME	iP	00 52 57.4			(h = 50 km).		
			ipP	00 53 10.1	"	1	UPP	iP	12 01 36.4 C
		South of Honshu, Japan.						ipP	12 01 26
		h = 45 km (UPP,KIR,UME).						iS	12 12 26
		m = 5.9 (UPP,KIR).							micr sec
"	1	UPP	iP	03 47 19.2			P	Z'	0.1 0.8
			i	03 47 23.8			KIR	iP	12 01 36.1 C
			ipP	03 47 32.7					micr sec
		KIR	iP	03 46 45.3			P	Z'	0.3 0.7
			i	03 46 48.5			UME	iP	12 01 33.6 C
			ipP	03 46 57.3			Southern Sumatera, Indonesia		
		UME	iP	03 47 00.2			(h = 70 km).		
			i	03 47 04.5			m = 6.4 (UPP,KIR).		
			ipP	03 47 12.8					
		South of Honshu, Japan.							
		h = 45 km (UPP,KIR,UME).							

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1993				1993					
Sep.	1	UPP	iP	14 15 34.5	Sep.	3	UPP	iP	03 28 50.1
			iPP	14 18 48.2					micr sec
			iS	14 25 41				Mx	Z 1.7 21
				micr sec			KIR	iP	03 28 38.7
			P	Z' 0.2 1.0					micr sec
			Mx	Z 7.0 20				Mx	Z 2.1 21
		KIR	iP	14 15 35.9			UME	iP	03 28 46.0
			iPP	14 18 45.2					Near coast of Chiapas, Mexico
				micr sec					(h = 65 km).
			P	Z' 0.4 1.0					M = 5.4 (UPP,KIR).
			Mx	Z 9.2 18					
		UME	iP	14 15 32.2	"	3	UPP	iP	05 12 45.3
			iS	14 25 40.0			KIR	iP	05 12 17.7
				Northern Sumatera, Indonesia			UME	iP	05 12 28.2
				(h = 35 km).					Southeast of Ryukyu Islands
				m = 6.2, M = 6.1 (UPP,KIR).					(h = 35 km).
"	1	UPP	iP	14 30 44.2	"	3	KIR	iP	12 10 46.0
		KIR	iP	14 29 08.3					Alaska Peninsula (h = 60 km).
		UME	iP	14 30 02.8	"	3	UPP	iP	12 47 46.6
		UDD	iP	14 30 38.4				iSKS	12 58 14
		DEL	iP	14 31 15.8				iS	12 58 31
				Greenland Sea (h = 10 km).					micr sec
"	1	UPP	iP	14 48 42.5				Mx	Z 54 21
		KIR	iP	14 48 44.2			KIR	iP	12 47 34.8
		UME	iP	14 48 40.4					micr sec
				Northern Sumatera, Indonesia				P	Z' 0.4 2.0
				(h = 45 km).				Mx	Z 38 19
"	1	UPP	iP	21 17 31.4			UME	iP	12 47 42.9
				Greece (h = 15 km).					Near coast of Chiapas, Mexico
"	2	UME	eP	07 30 47					(h = 25 km).
				Northern Mid-Atlantic Ridge					M = 6.8 (UPP,KIR).
				(h = 20 km).	"	3	KIR	iP	23 11 47.9
"	2	UPP	iP	14 15 10.2					Southern India (h = 35 km).
				micr sec	"	4	KIR	iP	04 46 29.1
			P	Z' 0.1 1.0					North of Ascension Island
			Mx	Z 1.4 17					(h = 10 km).
		KIR	iP	14 16 23.9	"	4	KIR	iP	06 24 29.5
				micr sec					Mariana Islands (h = 25 km).
			P	Z' 0.1 1.3	"	4	UPP	ePKP	08 49 29
			Mx	Z 1.0 12			KIR	iPKP	08 49 15.5
		UME	iP	14 15 48.5			UME	iPKP	08 49 22.4
				Southern Greece (h = 60 km).					Fiji Islands region (h = 390 km).
				m = 5.1, M = 4.5 (UPP,KIR).					

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1993				1993					
Sep.	4	UPP	iP	09 02 25.9	Sep.	5	KIR	iP	20 29 19.8
				micr sec			UME	iP	20 29 18.5
			Mx	Z 2.1 22			Celebes Sea (h = 310 km).		
		KIR	eP	09 02 13	"	5	KIR	iP	21 31 21.4
				micr sec			UME	iP	21 31 29.0
			Mx	Z 2.9 22			Off coast of Central America (h = 60 km).		
		UME	iP	09 02 22.7	"	5	UPP	iP	21 58 26.7
		Near coast of Chiapas, Mexico (h = 55 km).					KIR	iP	21 57 43.4
		M = 5.5 (UPP,KIR).					Lake Baykal region, Russia (h = 15 km).		
"	4	UPP	iP	11 46 04.5 C	"	5	KIR	eP	22 45 26
			iPP	11 47 43.0			UME	iP	22 45 52.4
			iS	11 52 00			Unimak Island region (h = N).		
		KIR	iP	11 46 13.2 C	"	5	UPP	iP	22 49 39.6
		UME	iP	11 46 02.5 C			KIR	iP	22 49 23.6
		Hindu Kush region, Afghanistan (h = 200 km).					UME	iP	22 49 26.8
		m = 6.6 (UPP,KIR).					Qinghai, China (h = 15 km).		
"	4	UPP	eP	17 35 01	"	6	UPP	iPdiff	04 10 46
		KIR	iP	17 34 53.1				iPKP	04 14 37.0
		UME	iP	17 34 54.1				Mx	Z 14 28
		Xizang (h = 10 km).					KIR	iPdiff	04 10 20.5
"	4	UPP	iP	20 31 42.8 D				iPKP	04 14 25.3
		KIR	iP	20 31 27.0				micr sec	
		UME	iP	20 31 26.0				Mx	Z 25 26
		Qinghai, China (h = 20 km).					UME	iPdiff	04 10 33.9
"	4	UPP	iPdiff	21 53 41.9				i	04 10 46.3
			iSKS	22 04 12				iPKP	04 14 30.7
				micr sec			New Ireland region, P.N.G. (h = 50 km).		
			Mx	Z 4.6 20			M = 6.5 (UPP,KIR).		
		KIR	iPdiff	21 53 29.1	"	6	UPP	eP	08 22 17
				micr sec			KIR	eP	08 21 04
			Mx	Z 4.3 20			UME	eP	08 21 42
		UME	ePdiff	21 53 37			Near north coast of Greenland (h = 10 km).		
		Savu Sea (h = N).			"	6	UPP	iP	13 22 10.2
		M = 5.9 (UPP,KIR).					KIR	iP	13 21 53.2
"	4	UPP	iP	22 16 04.5			UME	iP	13 21 56.1
		KIR	iP	22 15 48.2			Mindoro, Philippine Islands (h = 160 km).		
		UME	iP	22 15 46.7					
		Qinghai, China (h = 15 km).			"	6	UPP	iP	13 22 10.2
"	5	UME	iP	10 50 58.1			KIR	iP	13 21 53.2
		Mariana Islands (h = 80 km).					UME	iP	13 21 56.1
"	5	UPP	iP	12 14 04.9			Mindoro, Philippine Islands (h = 160 km).		

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1993				1993			
Sep.	6	UPP ePKP UME iPKP	13 47 31 13 47 27.7	Sep.	7	UME iP	23 14 35.2
			South of Fiji Island (h = 520 km).				Leyte, Philippine Islands (h = 25 km).
"	6	UPP iP KIR iP UME iP	20 24 25.5 20 24 20.5 20 24 18.1	"	8	UME iP	09 26 50.3
			Myanmar-India border region (h = 90 km).				South of Honshu, Japan (h = 70 km).
"	6	KIR iP	21 07 02.7	"	8	UPP iP KIR iP	11 45 50.5 11 46 28.8
			Xizang (h = N).				micr sec P Z' 0.1 1.4
"	7	UPP iP KIR iP UME iP	02 20 15.9 02 19 39.5 02 19 54.7	"	8	UME iP	11 46 04.7
			Sea of Japan (h = 440 km).				Southern Iran (h = 30 km).
"	7	UPP iPKP1 iPKP2	03 08 40.4 03 08 50.6	"	8	UPP iP KIR iP UME iP	22 43 07.3 22 43 54.3 22 43 34.5
			micr sec Mx Z 12 24				North of Ascension Island (h = 10 km).
		KIR iPKP	03 08 22.5	"	9	UPP eP KIR iP UME iP	00 38 26 00 39 35.5 00 39 00.3
			micr sec Mx Z 8.4 21				Near coast of Libya (h = N).
		UME iPKP	03 08 27.5	"	9	KIR iSg1 UME iSg1	04 35 52.7 04 36 18.1
			Kermadec Islands region (h = 10 km). M = 6.5 (UPP,KIR).				Coast of northern Norway, 66.5°N, 13.0°E. Origin time = 04 34 11 M _L (UPP) = 2.0 1. By combination with Finnish station readings.
"	7	KIR eP UME iP	06 23 24 06 23 36.6	"	9	UPP iP	08 45 42.3
			Mariana Islands (h = 60 km).				Albania (h = 20 km).
"	7	KIR iP UME eP	14 04 51.0 14 05 22	"	9	KIR iP UME iP	09 54 11.4 09 54 42.3
			Central Alaska (h = 60 km).				Southern Alaska (h = 130 km).
"	7	KIR eP UME iP	17 40 29 17 40 49.8	"	9	UME iP	12 28 32.1
			Off east coast of Honshu, Japan (h = 30 km).				Panama (h = 60 km).
"	7	UPP iP KIR iP UME iP	20 21 10.6 20 20 27.4 20 20 46.7	"	9	UPP iP ipP	15 20 32.3 15 20 46.2
			Hokkaido, Japan region (h = 150 km).				
"	7	UPP iP KIR eP	20 31 08.2 20 30 51				
			Philippine Islands region (h = 45 km).				

(cont).

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1993				1993					
Sep.		(cont).		Sep.		(cont).			
9		KIR	iP	15 19 47.0	10	UPP	iS	15 49 40	
			ipP	15 20 00.6				micr sec	
				micr sec			Mx	Z 0.6 12	
			P	Z' 0.1 1.0		KIR	iP	15 46 29.7	
		UME	iP	15 20 07.7				micr sec	
			ipP	15 20 21.3			Mx	Z 0.8 12	
		East of Kuril Islands.				UME	iP	15 46 00.4	
		h = 50 km (UPP,KIR,UME).				Central Mediterranean Sea			
"	9	UPP	iP	19 33 43.6	"	10	UPP	iP	16 08 00.0
		KIR	iP	19 33 06.2			ipP	16 08 02.8	
		UME	iP	19 33 22.8			iS	16 12 22	
		South Indian Ocean (h = 10 km).						micr sec	
"	9	UPP	iPKP	22 10 51.4			P	Z' 0.2 1.3	
		KIR	iPKP	22 11 06.5			Mx	Z 1.3 12	
			iSKP1	22 14 15.0		KIR	iP	16 09 10.2	
				micr sec			ipP	16 09 13.4	
			P	Z' 0.1 0.8				micr sec	
		UME	iPKP	22 10 58.9			P	Z' 0.3 2.0	
		South Sandwich Islands region					Mx	Z 1.6 11	
		(h = 110 km).				UME	iP	16 08 34.9	
"	10	KIR	ePKP	04 41 14			ipP	16 08 37.6	
		UME	iPKP	04 41 24.1			Central Mediterranean Sea.		
		Fiji Islands (h = 10 km).				h = 10 km (UPP,KIR,UME).			
"	10	UPP	iP	06 52 04.5			m = 5.8, M = 4.8, (UPP,KIR).		
"	10	UME	iP	07 49 20.4	"	10	UPP	iP	17 40 51.8
		Northern Molucca Sea (h = 90 km).						micr sec	
"	10	UPP	eP	10 55 03			Mx	Z 2.9 21	
		UME	iP	10 54 42.5		KIR	iP	17 40 40.1	
		Near east coast of Honshu, Japan						micr sec	
		(h = 80 km).					Mx	Z 1.7 14	
"	10	UPP	iP	13 38 07.5		UME	iP	17 40 47.9	
		KIR	eP	13 39 24		Near coast of Chiapas, Mexico			
		UME	eP	13 38 50		(h = 60 km).			
		Greece (h = 10 km).				M = 5.6 (UPP,KIR).			
"	10	KIR	iP	15 15 20.3	"	10	UPP	iP	19 11 40.2
		UME	iP	15 15 38.5			KIR	iP	19 11 27.4
		Off east coast of Honsu, Japan					UME	iP	19 11 36.7
		(h = 35 km).				Near coast of Chiapas, Mexico			
"	10	UPP	eP	15 45 13			(h = 60 km).		
		(cont).			"	10	UPP	iP	19 25 38.9
							iSKS	19 36 05	
						(cont).			

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1993				1993			
Sep.		(cont).		Sep.		(cont).	
11	KIR	iP	17 48 28.5	12	KIR	i	03 35 25.7
		ipP	17 48 41.9				micr sec
			micr sec			Mx	Z 7.0 25
		P	Z' 0.1 1.1		UME	iP	03 35 15.9
		Mx	Z 1.5 13			ipP	03 35 33.2
	Philippine Islands region (h = 40 km). m = 6.0, M = 5.6 (UPP,KIR).				Near coast of Guatemala (h = 70 km). M = 5.8 (UPP,KIR). M uncorrected for focal depth.		
"	11	UPP	iP 19 08 27.3	"	12	UPP	iP 06 47 45.3
		KIR	iP 19 08 35.9			KIR	iP 06 47 45.0
		UME	iP 19 08 35.2			UME	eP 06 47 41
	Near coast of Venezuela (h = 120 km).				Southern Sumatera, Indonesia (h = 50 km).		
"	11	UPP	iP 19 42 29.9	"	12	UPP	ePKP 08 42 12
		iSKS	19 52 54			iPKP1	08 42 15.2
			micr sec			iPKP2	08 42 19.8
		Mx	Z 2.0 21				micr sec
		KIR	iP 19 42 16.5			Mx	Z 1.9 23
		i	19 42 34.2			KIR	ePKP 08 41 55
			micr sec				micr sec
		Mx	Z 2.1 16			Mx	Z 1.7 19
		UME	iP 19 42 25.0			UME	iPKP 08 42 04.2
	Near coast of Chiapas, Mexico (h = N). M = 5.5 (UPP,KIR).				Kermadec Islands, New Zealand (h = N). M = 5.8 (UPP,KIR).		
"	11	KIR	iP 20 15 25.0	"	12	UPP	iPdiff 09 47 33.2
	Near coast of Chiapas, Mexico (h = N).				Banda Sea (h = 120 km).		
"	11	UME	iPKP 22 25 06.6	"	12	UPP	iPKP2 13 56 33.1
	South of Kermadec Islands (h = N).					UME	iPKP 13 56 16.1
"	11	UPP	iPKP1 23 48 41.7		Kermadec Islands region (h = 380 km).		
		KIR	ePKP 23 48 26	"	12	UME	iPKP 20 46 07.6
		UME	iPKP 23 48 28.7		Fiji Islands region (h = 490 km).		
	Kermadec Islands region (h = 40 km).						
"	12	UPP	iPKP1 02 30 50.2	"	12	UPP	iP 23 51 57.4
		KIR	ePKP 02 30 38			KIR	iP 23 53 06.7
		UME	iPKP 02 30 40.7		Southern Greece (h = 10 km).		
	Kermadec Islands region (h = 40 km).			"	13	UPP	iP 02 14 12.0
"	12	UPP	eP 03 35 15			KIR	iP 02 14 50.2
		iS	03 45 50			UME	eP 02 14 25
			micr sec		Western Iran (h = N).		
		Mx	Z 4.9 25				
		KIR	eP 03 35 03				
	(cont).						

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1993				1993			
Sep.	13	UPP	iP	04 53 40.6	Sep.	13	(cont).
		KIR	eP	04 53 43			UME iPKP 14 22 51.0
			i	04 53 50.0			Kermadec Islands, New Zealand
		UME	iP	04 53 36.1			(h = 30 km).
				Northern Sumatera, Indonesia	"	13	UPP iPKP1 14 31 00.7
				(h = 35 km).			KIR iPKP 14 30 41.0
"	13	UPP	iSn	05 28 43.1			UME iPKP1 14 30 48.2 D
		KIR	iPn	05 26 41.0			Kermadec Islands, New Zealand
			i	05 26 50.1			(h = N).
			iSn	05 27 46.7	"	13	UPP iPKP1 14 50 28.7
		UME	iPn	05 26 50.8			UME iPKP1 14 50 15.4
			iSn	05 28 01.3			Kermadec Islands region (h = N).
		UDD	iPn	05 27 59.3	"	13	UPP iPKP1 14 54 47.7
			iSn	05 28 16.4			UME iPKP 14 54 35.7
		DEL	iSn	05 29 38.3			Kermadec Islands, New Zealand
				Norwegian Sea, 66.3°N, 5.8°E.			(h = N).
				Origin time = 05 25 14.	"	13	UPP iPKP 15 00 54.4
				By combination with Finnish station			UME iPKP 15 00 42.8
				readings.			Kermadec Island, New Zealand
"	13	UPP	iPKP1	12 57 35.6			(h = N).
				micr sec	"	13	UPP iPKP1 17 05 23.5
		P	Z'	0.2 1.1			KIR ePKP 17 05 07
				micr sec			UME iPKP 17 05 11.2
		Mx	Z	4.4 23			Kermadec Islands, New Zealand
		KIR	e(PKP)	12 57 05			(h = N).
			iPKP	12 57 17.6	"	13	UPP iPKP1 19 23
				micr sec			micr sec
		Mx	Z	5.2 21			Mx Z 1.4 12
		UME	iPKP	12 57 23.5			KIR Mx 19 27
			i	12 57 29.7			micr sec
				Kermadec Islands, New Zealand			Mx Z 2.0 13
				(h = 20 km).			UME iP 19 15 01.2
				M = 6.2 (UPP,KIR).			Aegean Sea (h = 10 km).
"	13	UPP	iPKP1	13 32 47.3			M = 4.7 (UPP,KIR).
		UME	iPKP	13 32 34.2	"	13	UPP iPKP 20 29 33.6
				Kermadec Islands, New Zealand			KIR ePKP 20 29 22
				(h = N).			UME iPKP 20 24 21.5
"	13	UPP	iPKP1	13 34 07.2			South of Fiji Islands (h = 90 km).
		KIR	ePKP	13 33 52	"	13	UPP iPKP 20 41 34.4
		UME	iPKP	13 33 54.9			KIR ePKP 20 41 17
				Kermadec Islands, New Zealand			UME iPKP 20 41 21.6
				(h = N).			Kermadec Islands, New Zealand
"	13	UPP	iPKP1	14 23 03.5			(h = N).
		KIR	ePKP	14 22 46	"	13	UPP iPKP1 20 41 34.4
				(cont).			KIR ePKP 20 41 17

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1993				1993				
Sep.	13	UPP KIR UME	iPKP1 ePKP iPKP	21 17 08.9 21 16 51 21 16 56.1	Sep.	14	(cont). KIR eP	04 12 03 micr sec
		Kermadec Islands, New Zealand (h = N).					Mx Z 2.6 21	
"	13	UME	iPKP	22 10 52.7			UME eP	04 12 10
		Solomon Islands (h = 15 km).					Near coast of Chiapas, Mexico (h = 30 km). M = 5.5 (UPP,KIR).	
"	13	UPP	iP	22 41 50.8	"	14	UPP iP	05 01 10.8
							KIR iP	05 00 37.7
"	13	UPP	Mx	23 54			UME iP	05 00 53.4
				micr sec			Near south of coast of Honshu, Japan (h = 330 km).	
			Mx	Z 3.8 23				
		KIR	eP	23 10 52				
				micr sec	"	14	UPP iP	05 30 26.3
			Mx	Z 4.6 18			KIR eP	05 31 03
		UME	iP	23 10 57.8			UME eP	05 31 41
		Near coast of Nicaragua (h = N). M = 5.8 (UPP,KIR).					Arabian Sea (h = 10 km).	
"	14	UPP	ePKP1 iPKP2	01 27 45.8 01 27 50.3	"	14	UPP iP	07 44 06.9
		Kermadec Islands region (h = N).					Kermadec Islands, New Zealand (h = N).	
"	14	UPP	iPKP1	01 42 50.1	"	14	KIR eP	10 16 39
				micr sec			UME eP	10 16 16
			Mx	Z 1.6 20			North of Ascension Island (h = 10 km).	
		KIR	ePKP	01 42 33				
				micr sec	"	14	UPP iPKP1	12 36 43.8
			Mx	Z 2.6 21			KIR ePKP	12 36 29
		UME	iPKP1	01 42 37.4			UME iPKP1	12 36 31.7
		Kermadec Islands, New Zealand (h = N). M = 5.8 (UPP,KIR).					Kermadec Islands, New Zealand (h = 35 km).	
"	14	UPP	iPKP1	02 03 06.1	"	14	KIR eP	14 12 14
				micr sec			North Atlantic Ocean (h = N).	
			Mx	Z 2.3 19	"	14	UPP iP	14 37 03.3
		KIR	ePKP	02 02 50			KIR eP	14 38 21
				micr sec			UME iP	14 37 52.3
			Mx	Z 2.1 21			Agean Sea (h = 10 km).	
		UME	iPKP	02 02 52.5 D	"	14	UPP iPKP1	17 40 24.3
		Kermadec Islands, New Zealand (h = N). M = 5.9 (UPP,KIR).					KIR iPKP	17 40 08.0
"	14	UPP	eP	04 12 13			UME iPKP1	17 40 12.7
				micr sec			Kermadec Islands, New Zealand (h = 25 km).	
			Mx	Z 2.3 21	"	14	UPP ePKP1	21 25 44
		(cont).					(cont).	

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1993				1993			
Sep.		(cont).		Sep.		(cont).	
14	KIR	ePKP	21 25 29	16	UPP		micr sec
	UME	iPKP	21 25 32.9		Mx	Z 2.4	20
	Kermadec Islands region (h = N).				KIR	iP	01 09 38.7
"	15	UPP	iPKP1 01 05 39.8		i		01 09 41.4
		KIR	ePKP 01 05 22				micr sec
		UME	iPKP1 01 05 26.8		Mx	Z 1.8	16
	Kermadec Islands, New Zealand (h = N).				UME	iP	01 10 00.2
"	15	UPP	iPKP1 01 28 31.8	"	16	KIR	iP 04 04 55.6
		KIR	ePKP 01 28 17			Mariana Islands (h = N).	
		UME	iPKP1 01 28 18.5	"	16	UPP	iP 07 10 08.2
	Kermadec Islands, New Zealand (h = N).					South of Fiji Islands (h = 500 km).	
"	15	UME	iPKP1 02 05 18.9	"	16	UME	iPKP 10 06 18.9
	Kermadec Islands, New Zealand (h = N).					Kermadec Islands, New Zealand (h = N).	
"	15	UPP	ePKP1 02 50 23	"	16	UPP	iP 15 01 40.4
		KIR	ePKP 02 50 03			KIR	iP 05 00 47.8
		UME	iPKP 02 50 10.5				micr sec
	Kermadec Islands, New Zealand (h = 30 km).					P	Z' 0.1 0.8
"	15	UPP	iPKP1 06 00 31.1 C		UME	iP	15 01 13.7 D
		KIR	iPKP 06 00 13.2			Rat Islands, Aleutian Islands (h = N).	
		UME	iPKP1 06 00 18.2	"	16	KIR	iP 18 05 24.7
	Kermadec Islands region (h = 60 km).					UME	iP 18 05 57.2
"	15	KIR	iPg1 07 53 29.6	"	16	KIR	iP 21 42 37.5
			iSg1 07 53 37.0			Chagos Archipelago region (h = 10 km).	
			iRg 07 53 41.2	"	17	UPP	iP 11 45 25.1
		UME	iSg1 07 55 41.2			KIR	iP 11 44 32.1
	Northern Norway, 68.3°N, 19.9°E. Origin time = 07 53 20. By combination with Finnish station readings.					UME	iP 11 44 57.1
"	15	UPP	iP 15 16 34.3			Near east coast of Kamchatka (h = 90 km).	
		KIR	iP 15 16 40.5	"	17	KIR	eP 12 47 52
		UME	iP 15 16 31.5 C			UME	iP 12 48 04.2
	Eastern Kashmir (h = N).					Mariana Islands region (h = 100 km).	
"	16	UPP	iP 01 10 26.3	"	17	KIR	iP 13 25 04.0
		i	01 10 29.5			UME	iP 13 25 22.1
			micr sec			Western Honshu, Japan (h = N).	
		P	Z' 0.1 0.7				
	(cont).						

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1993				1993			
Sep.	17	UPP iP	21 14 52.0	Sep.	18	UPP iP	13 33 35.7
		KIR iP	21 14 32.3				micr sec
		UME iP	21 14 40.5			Mx	Z 0.9 22
		Taiwan region (h = N).				KIR iP	13 34 16.7
"	18	UPP eP	00 41 20			UME eP	13 34 06
		KIR iP	00 41 04.3			North of Ascension Island	
		UME iP	00 41 10.9			(h = 10 km).	
		Northern Molucca Sea (h = 40 km).		"	18	UPP iP	14 08 15.9
"	18	UME iP	02 14 26.8			Mariana Islands (h = 160 km).	
		Near coast of Chiapas, Mexico		"	18	UPP iP	15 11 31.2
		(h = N).				Hokkaido, Japan region (h = 45 km).	
"	18	UPP iP	02 30 05.1 C	"	18	UPP eP	20 17 06
		KIR iP	02 29 26.8			KIR iP	20 16 37.6
		UME iP	02 29 43.8			Mariana Islands (h = 80 km).	
		Near east coast of Honshu, Japan		"	18	UPP iPKP	21 02 31.9
		(h = 45 km).				KIR ePKP	21 02 48
"	18	KIR iP	04 26 09.1			UME iPKP	21 02 39.1
		Ethiopia (h = 10 km).				South Sandwich Islands region	
"	18	UPP iP	05 10 03.4 C			(h = N).	
		ipP	05 10 31.3	"	18	UPP iPKP	21 28 34.1
		iS	05 16 04			KIR iPKP	21 28 22.5
			micr sec			Vanuatu Islands (h = 200 km).	
		P	Z' 0.7 1.5	"	19	UPP iPKP	04 37 30.3
		Mx	Z 4.4 9			KIR iPKP	04 37 45.2
		KIR iP	05 10 10.6			UME iPKP	04 37 42.1
		ipP	05 10 36.4			South Sandwich Islands region	
			micr sec			(h = 45 km).	
		P	Z' 0.3 1.6	"	19	UPP iP	05 14 05.5
		Mx	Z 6.0 11				micr sec
		UME iP	05 10 01.5 C			Mx	Z 2.6 21
		ipP	05 10 27.4			KIR Mx	05 51
		Afghanistan-Tajikistan bord reg.					micr sec
		h = 120 km (UPP,KIR,UME).				Mx	Z 1.6 21
		m = 6.1 (UPP,KIR).				UME iP	05 13 59.6
"	18	UPP iP	08 07 36.2			Near coast of Chiapas, Mexico	
		KIR eP	08 08 54			(h = N).	
		UME eP	08 08 16			M = 5.4 (UPP,KIR).	
		Romania (h = 180 km).		"	19	UPP iPKP	05 28 51.6
"	18	UPP iP	12 11 40.5			KIR iPKP	05 28 43.9
		KIR iP	12 11 19.7			UME ePKP	05 28 50
		UME iP	12 11 29.1			Fiji Islands region (h = 590 km).	
		Southwestern Ryukyu Islands					
		(h = N).					

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1993				1993					
Sep.	19	UPP	iP	05 54 20.0	Sep.	20	UPP	iP	10 28 49.2
		UME	iP	05 54 16.1				iS	10 38 00
		Near coast of Chiapas, Mexico (h = N).							micr sec
"	19	UPP	iP	08 16 12.3				P	Z' 0.1 1.2
		UME	iP	08 15 47.2			KIR	Mx	Z 16 18
		Kuril Islands (h = 120 km).						iP	10 29 24.7
									micr sec
"	19	UPP	iP	14 23 46.1				P	Z' 0.2 1.7
			iS	14 34 25				Mx	Z 4.3 20
			iS	14 34 42			UME	iP	10 29 12.1
				micr sec			Central Mid-Atlantic Ridge (h = 10 km). m = 5.9, M = 6.0 (UPP,KIR).		
		Mx	Z	36 20					
		KIR	iP	14 23 34.4	"	20	UME	iPKP	19 36 10.3
				micr sec			Off east coast of North Island, New Zealand (h = 70 km).		
		P	Z'	0.4 1.5					
		Mx	Z	22 18	"	20	UPP	iP	20 06 56.7
		UME	iP	14 23 41.5				i	20 07 08.0
		Near coast of Chiapas, Mexico (h = 20 km). M = 6.6 (UPP,KIR).					KIR	iP	20 06 26.6
"	19	UPP	iP	14 28 35.1			UME	iP	20 06 40.6
		UME	iP	14 28 34.7				i	20 06 45.0
		Off coast of Chiapas, Mexico (h = N).						i	20 06 51.4
"	19	UME	iP	14 56 47.4	"	20	UPP	iP	22 46 05.5
		Near coast of Chiapas, Mexico (h = N).						i	22 46 29.7
"	19	UPP	iPKP	15 03 07.0			KIR	iP	22 45 38.5
		UME	iPKP	15 02 59.7			UME	iP	22 45 50.6
		Vanuatu Islands (h = 130 km).						i	22 46 00.5
"	19	UPP	iP	16 45 55.7				i	22 46 12.0
		UME	iP	16 45 53.6			Mariana Islands (h = 65 km).		
		Near coast of Chiapas, Mexico (h = N).			"	20	UPP	iP	23 17 19.8
"	20	UME	iP	07 19 15.9			KIR	iP	23 17 18.3
		Near coast of Chiapas, Mexico (h = N).					UME	iP	23 17 16.0
"	20	UPP	iP	07 50 51.9			Southern Sumatera, Indonesia (h = 40 km).		
		KIR	iP	07 50 42.4	"	21	KIR	eP	03 27 44
		Eastern Xizang-India border region (h = N).					UME	eP	03 28 14
"	20	UPP	iP	07 50 51.9			Oregon (h = 5 km).		
		KIR	iP	07 50 42.4	"	21	UPP	iP	03 40 24.7
		Eastern Xizang-India border region (h = N).						iS	03 49 53
									micr sec
							P	Z' 0.1 0.8	
							Mx	Z 6.3 18	

(cont).

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

1993				1993			
Sep.	22	UPP iP	15 39 13.1	Sep.	24	UME iP	09 08 31.5
		Panama-Costa Rica border region (h = 40 km).				Flores Sea (h = 280 km).	
"	22	KIR iP	16 27 41.2	"	24	KIR eP	11 58 37
		Celebes Sea (h = 560 km).			24	UPP iPKP	13 26 30.5
"	22	UPP iP	17 41 17.8			KIR ePKP	13 26 18
		KIR iP	17 42 24.5			UME iPKP	13 26 22.2
		Crete (h = 80 km).				South of Kermadec Islands (h = N).	
"	23	KIR iP	03 05 13.5	"	24	UPP iPdiff	16 49 52.4
		Minahassa Peninsula, Sulawesi (h = N).				Seram, Indonesia (h = N).	
"	23	UPP iPKP	04 34 31.2	"	24	UME iP	17 53 14.3
		KIR iPKP	04 34 17.1			Samar, Philippine Islands (h = 120 km).	
		South of Fiji Islands (h = 590 km).		"	24	UPP iPKP	19 41 11.1
"	23	KIR iP	07 22 14.9			KIR iPKP	19 40 57.2
		UME iP	07 21 54.6			UME iPKP	19 41 03.7
		North of Ascension Island (h = 10 km).				Vanuatu Islands (h = 180 km).	
"	23	UPP iPKP	07 26 46.2	"	24	UPP iP	19 44 19.3
		KIR iPKP	07 26 35.6			KIR eP	19 44 12
		UME iPKP	07 26 40.2	"	25	UPP iP	00 17 54.9
		South of Fiji Islands (h = 530 km).				ipP	00 18 02.0
"	23	UPP iP	11 11 04.6			KIR iP	00 17 13.0
		KIR iP	11 10 49.7			ipP	00 17 19.7
		Sulu Sea (h = 35 km).				UME iP	00 17 32.0
"	23	UPP eP	12 38 30			ipP	00 17 38.4
		KIR eP	12 39 41			Hokkaido, Japan region. h = 25 km (UPP,KIR,UME).	
		UME iP	12 39 08.4	"	25	KIR iP	01 18 04.9
		Southern Greece (h = 10 km).		"	25	KIR iP	04 51 55.8
"	23	UPP iP	20 08 21.8			UME iP	04 51 44.0
		iS	20 12 03			Tajikistan-Xinjiang border reg. (h = 100 km).	
		KIR iP	20 06 44.0	"	25	KIR iPKP	11 52 06.3
		UME iP	20 07 40.1			UME iPKP	11 52 14.2
		DEL iP	20 09 01.7			Tonga Islands (h = 120 km).	
		Svalbard region (h = 10 km).		"	26	UPP iP	02 37 11.0
"	24	KIR iP	01 10 12.0			KIR iP	02 37 19.1
		UME iP	01 10 20.2			UME iP	02 37 09.0
		Mindanao, Philippine Islands (h = 100 km).				Afghanistan-Tajikistan border reg. (h = 110 km).	

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

1993				1993					
Sep.	26	UPP	eP	03 44 43	Sep.	27	UPP	iP	04 55 33.9
			iSKS	03 55 26				i	04 55 34.8
				micr sec				ipP	04 55 45.2
			Mx	Z 15 17				iS	05 05 06
		KIR	iP	03 44 18.0					micr sec
			ipP	03 44 21.6			KIR	iP	Z' 0.1 1.0
				micr sec				Mx	Z 2.8 15
			P	Z' 0.2 1.5				ipP	04 55 02.3
			Mx	Z 4.3 19					04 55 13.4
		UME	iP	03 44 27.4					micr sec
			ipP	03 44 31.0				P	Z' 0.1 0.8
		Western Caroline Islands.						Mx	Z 1.6 15
		h = 10 km (KIR,UME).					UME	iP	04 55 14.7
		M = 6.2 (UPP,KIR).						ipP	04 55 25.8
"	26	UPP	iP	07 58 20.8			Southeast of Shikoku, Japan.		
		UME	iP	07 58 58.7			h = 40 km (UPP,KIR,UME).		
		Ionian Sea (h = 40 km).					m = 5.8, M = 5.5 (UPP,KIR).		
"	26	UPP	iP	12 09 12.1	"	27	UPP	iP	12 03 50.7
			iSKS	12 19 44			KIR	iP	12 03 56.2
				micr sec			UME	iP	12 03 19.1
			P	Z' 0.1 1.1			Near east coast of Kamchatka (h = N).		
			Mx	Z 2.4 20	"	27	UPP	iP	12 47 08.2
		KIR	iP	12 08 45.9 C			KIR	iP	12 46 50.6
				micr sec			UME	iP	12 46 56.2
			P	Z' 0.7 1.4			Mindanao, Philippine Islands		
			Mx	Z 1.3 19			(h = 60 km).		
		UME	iP	12 08 56.5	"	27	UPP	iPKP	13 56 31.4
		Mariana Islands (h = 65 km).						iPP	13 58 28.2
		m = 6.5, M = 5.5 (UPP,KIR).							micr sec
		M uncorrected for focal depth.						Mx	Z 20 18
"	26	KIR	iP	16 12 21.4			KIR	iPKP	13 56 45.2
		UME	iP	16 12 26.6				iPP	13 59 12.9
		Northern Molucca Sea (h = 15 km).							micr sec
"	26	KIR	iP	17 52 12.4				P	Z' 0.5 1.5
		UME	iP	17 52 20.6				Mx	Z 9.2 18
		Philippine Islands region					UME	iPKP	13 56 38.1
		(h = 150 km).						iPP	13 59 01.7
"	27	UME	iP	00 00 46.0			South Atlantic Ocean (h = N).		
		Southern Mid-Atlantic Ridge					M = 6.6 (UPP,KIR).		
		(h = 10 km).			"	28	UPP	iPKP1	01 36 03.8
"	27	UPP	iP	01 43 26.2			UME	iPKP	01 35 53.5
		KIR	eP	01 44 12			Kermadec Islands region		
		UME	iP	01 43 50.7			(h = 380 km).		
		North of Ascension Islands			"	28	UPP	iP	01 56 43.9
		(h = 10 km).					Greece-Albania border region		
							(h = 55 km).		

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

1993					1993				
Sep.	29	KIR	iP	23 21 12.6	Sep.	30	UPP	iP	17 16 10.6
		UME	iP	23 21 01.8				ipP	17 16 17.9
		Southern India (h = 10 km).							micr sec
"	30	KIR	iP	01 03 28.8				P	Z' 0.1 0.8
		UME	iP	01 03 13.2			KIR	Mx	Z 40 23
		Southern India (h = 10 km).						iP	17 16 11.5
"	30	UPP	iP	02 11 29.8				ipP	17 16 18.8
		KIR	iP	02 10 45.0					micr sec
		UME	iP	02 11 04.6				P	Z' 0.1 1.0
		Off coast of Hokkaido, Japan (h = 10 km).						Mx	Z 13 24
"	30	KIR	eP	02 27 12			UME	iP	17 16 07.0
		Southern India (h = 10 km).						ipP	17 16 14.1
"	30	KIR	iP	03 41 22.8			Andaman Islands, India. h = 25 km (UPP,KIR,UME). m = 6.0, M = 6.5 (UPP,KIR).		
		UME	eP	03 41 08	"	30	UPP	iP	18 40 38.7
		Central Mid-Atlantic Ridge (h = 10 km).						iSKS	18 51 06
"	30	UPP	iP	05 53 58.4				iS	18 51 30
		KIR	iP	05 53 58.1					micr sec
		UME	iP	05 53 42.6				P	Z' 0.1 1.5
		Southern Sumatera, Indonesia (h = 70 km).					KIR	iP	18 40 27.0
"	30	UME	iP	07 18 36.4					micr sec
		Kamchatka (h = 420 km).						P	Z' 0.6 2.1
"	30	UPP	eP	07 26 24			UME	iP	18 40 33.4
		KIR	eP	07 25 30			Near coast of Oaxaca, Mexico (h = 20 km). m = 6.2 (UPP,KIR).		
		UME	eP	07 25 55	"	30	UPP	iP	21 49 13.0
		Near east coast of Kamchatka (h = 50 km).					Near coast of Jalisco, Mexico (h = N).		
"	30	UPP	eP	08 15 09	"	30	UPP	ePKP	22 55 32
		KIR	eP	08 14 51			KIR	ePKP	22 55 19
		UME	eP	08 15 03			Vanuatu Islands region (h = 45 km).		
		Sichuan, China (h = 10 km).							
"	30	UME	iPKP	10 15 20.1			June 12, 1995		
		Vanuatu Islands (h = N).					Conny Holmqvist		
"	30	UPP	eP	13 44 14			Ota Kulhánek		
		KIR	iP	13 43 55.7			Xin Pi		
		Mindanao, Philippine Islands (h = N).					Hossein Shomali		

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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,	13°52.2'E;	h = 150 m
Myrviken	(MYV)	62°56.5'N,	14°20.8'E;	h = 345 m

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1993					1993				
Oct.	1	UPP	iP	04 04 35.8	Oct.	2	(cont).		
			i	04 04 44.6			UME	eP	01 24 51
			ipP	04 04 55.3				ipP	01 24 54.7
		KIR	iP	04 05 44.4			Tajikistan.		
			ipP	04 06 05.6			h = 15 km (UPP,KIR,UME).		
		UME	iP	04 05 09.4	"	2	KIR	iPKP	03 11 05.6
			ipP	04 05 28.8			UME	iPKP	03 11 05.0
			i	04 05 34.0			South of Australia (h = 10 km).		
		Southern Greece.			"	2	KIR	ePKP	03 20 21
		h = 90 km (UPP,KIR,UME).					South of Australia (h = 10 km).		
"	1	UPP	iP	04 11 46.5	"	2	UPP	iP	08 51 17.5 C
		UME	iP	04 11 57.3				ipP	08 53 10.6
"	1	KIR	iP	04 18 29.9				iS	08 58 24
		UME	iP	04 17 49.6					micr sec
		Northwestern Balkan region						P	Z' 1.2 1.0
		(h = 10 km).						Mx	Z 42 15
"	1	KIR	iSg1	15 21 28.9	"	2	KIR	iP	08 51 05.7 C
		Northern Norway, 66.8°N, 14.0°E.						ipP	08 53 00.8
		Origin time = 15 20 05.							micr sec
		M _L (UPP) = 2.4 1.						P	Z' 0.9 0.6
		Solution from Norwegian station						Mx	Z 29 10
		readings.					UME	iP	08 51 05.9 C
"	2	UPP	iP	01 24 54.4				ipP	08 53 02.4
			ipP	01 24 58.9				iS	08 58 01.8
		KIR	iP	01 25 01.0			Southern Xinjiang, China (h = 15 km).		
			ipP	01 25 05.0			m = 6.9, M = 6.5 (UPP,KIR).		
		(cont).			"	2	UPP	iP	09 10 28.7
							KIR	iP	09 09 35.6
							(cont).		

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1993				1993			
Oct.		(cont).		Oct.		(cont).	
	2	UME	iP 09 10 00.0		2	UME	iP 17 32 07.2 C
			Near east coast of Kamchatka (h = 120 km).				Southern Xinjiang, China (h = 15 km). m = 6.3 (UPP,KIR).
"	2	UPP	iP 09 52 04.5 C	"	2	KIR	iP 23 15 02.1
			micr sec				Myanmar (h = N).
		P	Z' 0.5 0.9				
		KIR	iP 09 51 52.4 C	"	2	UPP	iP 23 58 44.9
			iPP 09 53 44.5			KIR	iP 23 58 32.7
			micr sec			UME	iP 23 58 32.7
		P	Z' 0.4 1.1				Southern Xinjiang, China (h = 10 km).
		UME	iP 09 51 52.7 C	"	3	UPP	iP 07 25 30.4
			Southern Xinjiang, China (h = 15 km). m = 6.4 (UPP,KIR).			KIR	iP 07 25 09.3
						UME	iP 07 25 16.5
							Philippine Islands region (h = 40 km).
"	2	UPP	iP 10 42 16.8	"	3	KIR	iP 08 28 33.6
		KIR	iP 10 42 18.5			UME	iP 08 28 40.8
			micr sec				Mindanao, Philippine Islands (h = 200 km).
		P	Z' 0.1 1.0				
		UME	iP 10 42 14.2	"	4	UPP	iP 00 07 30.0
			Off w. coast of Northern Sumatera (h = 70 km).			KIR	iP 00 07 04.0
						UME	iP 00 07 15.0
"	2	KIR	iP 14 04 09.5				Mariana Islands (h = 80 km).
		UME	iP 14 04 30.6	"	4	KIR	iP 01 00 09.1
			Kuril Islands (h = 45 km).			UME	eP 01 00 18
"	2	UPP	iP 16 05 19.8				Philippine Islands region (h = 65 km).
		KIR	iP 16 04 40.8	"	4	UPP	iP 06 50 19.9
		UME	iP 16 04 57.4				iS 06 59 28
			Eastern Honshu, Japan (h = 100 km).				micr sec
"	2	UPP	Mx 17 09			P	Z' 0.2 1.0
			micr sec			KIR	iP 06 49 47.6
		Mx	Z 3.3 20				iS 06 58 28.1
		KIR	Mx 17 11				micr sec
			micr sec			P	Z' 0.1 0.6
		Mx	Z 2.1 19			UME	iP 06 50 01.4
			Bismarck Sea (h = 35 km). M = 5.8 (UPP,KIR).				iS 06 58 52.9
							South of Honshu, Japan (h = 480 km). m = 5.6 (UPP,KIR).
"	2	UPP	iP 17 32 19.1 D	"	4	UPP	Mx 22 25
			micr sec				micr sec
		P	Z' 0.3 0.8			Mx	Z 2.3 19
		KIR	iP 17 32 06.5 C				
			iPP 17 33 57.2				
			micr sec				
		P	Z' 0.3 1.0				
			(cont).				(cont).

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

1993				1993			
Oct.	4	(cont). KIR Mx	22 20 micr sec Mx Z 1.4 20	Oct.	6	KIR iP UME iP	03 34 15.1 03 34 33.2
		Tonga Islands (h = 25 km). M = 5.8 (UPP,KIR).				Off east coast of Honshu, Japan (h = N).	
"	5	UPP iP i P Z' 0.4 0.8 KIR iP i i P Z' 0.3 0.8 UME iP	02 08 23.1 C 02 08 49.7 micr sec 02 08 07.3 02 08 08.2 02 09 51.2 micr sec 02 08 09.2	"	6	UPP iP	09 19 03.6
		Southern Xinjiang, China. m = 6.4 (UPP,KIR). Underground explosion.		"	7	UPP iP KIR eP UME iP	03 35 44.6 micr sec Z' 0.1 0.8 03 35 32 03 35 32.9
						Southern Xinjiang, China (h = 10 km).	
"	5	UPP iP KIR iP UME iP	02 40 21.2 02 41 28.5 02 40 53.8	"	7	UPP iP KIR iP	09 07 09.7 09 06 39.7
		Eastern Mediterranean Sea (h = N).				Kyushu, Japan (h = 40 km).	
"	5	UPP Mx Mx Z 4.9 19 KIR iP Mx Z 4.3 20	06 16 micr sec 05 23 45.3 micr sec 05 23 45.3	"	7	UPP iP KIR iP	10 02 34.6 18 07 01.0 micr sec Z' 0.1 0.8 18 07 10.0 micr sec Z' 0.1 0.5
		Banda Sea (h = 15 km). M = 6.0 (UPP,KIR).				Off coast of Hokkaido, Japan (h = N).	
"	5	KIR iP UME iP	05 47 51.1 05 48 10.0	"	7	UPP iP KIR iP	18 07 01.0 micr sec Z' 0.1 0.8 18 07 10.0 micr sec Z' 0.1 0.5
		Hokkaido, Japan region (h = 70 km).				Hindu Kush region, Afghanistan (h = 220 km). m = 5.3 (UPP,KIR).	
"	5	KIR iP UME eP	08 44 47.0 08 45 00	"	8	UPP iP KIR iP	05 29 20.6 05 29 03.7 micr sec P Z' 0.1 1.1
		Mariana Islands (h = 600 km).				Mindanao, Philippine Islands (h = 90 km).	
"	5	UPP iP ipP KIR eP ipP	21 35 04.6 21 35 14.0 21 33 56 21 34 05.9	"	8	UPP iP KIR iP UME iP	05 58 48.0 05 58 51 Northern Colombia (h = 170 km).
		Laptev Sea. h = 35 km (UPP,KIR).		"	8	UME iPKP	06 55 38.5
						Southern Pacific Ocean (h = 10 km).	
				"	8	UPP iP KIR iP UME iP	14 08 47.5 14 08 04.3 14 08 23.6
						Hokkaido, Japan region (h = 25 km).	

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1993				1993			
Oct.	8	UPP	iP	18 34 21.9	Oct.	11	(cont).
			i	18 34 25.9			UME iP 01 42 20.8
				micr sec			Kuril Islands (h = N).
			P	Z' 0.1 0.7			
		KIR	iP	18 33 34.9	"	11	UPP iPKP 08 14 28.5
				micr sec			South of Fiji Islands (h = 500 km).
			P	Z' 0.2 1.0			
		UME	iP	18 33 57.1	"	11	UPP ePKP 13 25 46
				Kuril Islands (h = 170 km).			iSKP1 13 28 30.9
				m = 5.8 (UPP,KIR).			i 13 28 37.6
"	8	UPP	iP	20 55 04.4			KIR iPKP 13 25 33.6
		KIR	iP	20 55 21.3			iSKP1 13 28 05.3
		UME	iP	20 55 10.6			UME iPKP 13 25 42.0
				Southern India (h = N).			iSKP1 13 28 17.7
							i 13 28 23.7
							Fiji Islands region (h = 560 km).
"	9	UPP	iP	14 05 02.0	"	11	UPP iPg1 15 31 23.5
		KIR	iP	14 04 08.9			iRg 15 31 26.7
		UME	eP	14 04 37			Dannemora, Uppland, Sweden,
				Andreanof Islands, Aleutian Is.			60.2°N, 17.8°E.
				(h = N).			Rockburst at the iron ore mine.
"	9	UME	iP	18 11 56.6	"	11	UPP iP 16 05 31.8 C
				Off coast of Central America			iPP 16 08 31.1
				(h = 60 km).			iS 16 14 42
							micr sec
"	9	UPP	iP	22 34 03.6			P Z' 1.8 0.8
		KIR	iP	22 34 37.7			Mx Z 13 12
		UME	iP	22 34 17.4			KIR iP 16 04 57.3
				Arabian Sea (h = 10 km).			i 16 04 59.2
"	9	KIR	iP	23 00 14.3			iPP 16 07 38.6
							micr sec
"	10	UME	iP	02 29 52.4			P Z' 2.2 0.5
				Hokkaido, Japan region (h = 45 km).			Mx Z 15 15
"	10	KIR	iPKP	07 35 01.7			UME iP 16 05 10.4
		UME	iPKP	07 35 07.6			i 16 05 12.0
				New Caledonia (h = 15 km).			iPP 16 08 00.1
							South of Honshu, Japan (h = 350 km).
"	10	UME	iP	18 10 31.4			m = 7.0, M = 6.4 (UPP,KIR).
				Greece (h = 35 km).			M uncorrected for focal depth.
"	10	UPP	iP	23 34 48.6	"	12	UPP iPKP 15 10 38.6
		KIR	iP	23 33 59.2			UME iPKP2 15 10 44.6
		UME	iP	23 34 22.9			South of Kermadec Islands
				Kuril Islands (h = 40 km).			(h = 40 km).
"	11	UPP	iP	01 42 46.3	"	12	UME iP 17 24 53.2
		KIR	iP	01 41 56.7			Near coast of Chiapas, Mexico
				(cont).			(h = 40 km).

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1993				1993			
Oct.	12	UPP	iP	20 04 07.1	Oct.	13	(cont).
				micr sec			KIR Mx 06 57
			P	Z' 0.1 0.8			micr sec
		KIR	iP	20 04 08.8			Mx Z 2.1 21
				micr sec			Eastern new Guinea reg., P.N.G.
			P	Z' 0.1 1.1			(h = N).
		UME	iP	20 04 11.0			M = 5.7 (UPP,KIR).
				Colombia (h = 100 km).			
				m = 5.8 (UPP,KIR).	"	13	KIR iP 13 14 09.4
"	12	UPP	eP	20 58 03			UME iP 13 14 18.3
			ipP	20 58 10.5			Fox Islands, Aleutian Islands (h = N).
		KIR	iP	20 57 58.8	"	13	UME iP 19 52 56.2
		UME	eP	20 57 53			Near coast of Guatemala (h = N).
				Southern Xinjiang, China (h = N).	"	13	UPP iP 23 44 51.1
"	13	UME	iPKP	01 57 43.0			KIR iP 23 44 34.6
				Solomon Islands (h = 100 km).			UME iP 23 44 38.1
"	13	UPP	ePdiff	02 20 46			Sichuan, China (h = N).
			i	02 25 28	"	14	UPP iPKP1 12 22 17.3
				micr sec			KIR iPKP 12 22 11.9
			Mx	Z 56 25			UME iPKP 12 22 15.5
		KIR	iPdiff	02 20 21.2			South of Australia (h = 10 km).
			i	02 24 53.6	"	14	UME iPKP 16 53 59.7
				micr sec			Kermadec Islands region (h = N).
			Mx	Z 28 24	"	14	KIR iP 18 25 09.9
		UME	ePKP	02 24 31			UME iP 18 25 26.2
				Eastern New Guinea reg., P.N.G.			Volcano Islands region (h = N).
				(h = 25 km).	"	15	UPP iP 20 14 08.9
				M = 6.9 (UPP,KIR).			KIR iP 20 13 41.5
"	13	UPP	Mx	04 11			UME iP 20 13 54.8
				micr sec			Mariana Islands region (h = 30 km).
			Mx	Z 25 24	"	15	UPP iP 22 42 54.9
		KIR	iPKP	03 25 59.2			KIR iP 22 43 32.6
				micr sec			UME iP 22 43 07.1
			Mx	Z 18 24			Eastern Caucasus (h = 55 km).
				Eastern New Guinea reg., P.N.G.	"	16	UPP ePKP 03 24 06
				(h = N).			i 03 24 59.6
				M = 6.6 (UPP,KIR).			micr sec
"	13	UPP	iPKP	04 30 33.8			Mx Z 18 25
				Eastern New Guinea reg., P.N.G.			UME ePKP 03 24 02.4
				(h = N).			i 03 24 39.6
"	13	UPP	Mx	06 58			Eastern New Guinea reg., P.N.G.
				micr sec			(h = 25 km).
			Mx	Z 2.4 20			

(cont).

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

1993				1993						
Oct.	16	UPP	iP	03 34 41	Oct.	18	UPP	i	16 27 31.7	
"	16	UPP	iP	07 04 58.1				iSn	16 28 04.4	
		Afghanistan-Tajikistan border region						i	16 28 21.4	
		(h = N).						iSg1	16 28 37.5	
"	16	UPP	eP	09 39 27			KIR	iPn	16 26 29.3	
		KIR	iP	09 39 13.1				iSn	16 27 40.6	
		Off coast of Chiapas, Mexico					UME	iPn	16 26 27.3	
		(h = N).						iSn	16 27 37.8	
"	16	UPP	iP	11 05 29.7				i	16 27 41.8	
		KIR	iP	11 05 12.8				iSg1	16 28 02.1	
		UME	iP	11 05 18.7			MYV	iPn	16 26 00	
		Mindanao, Philippine Islands						iSn	16 26 50.8	
		(h = 30 km).					Norwegian Sea, 64.9°N, 5.1°E.			
"	16	KIR	eP	21 29 39			Origin time = 16 24 50.			
"	17	KIR	iP	06 48 06.9			M _L (UPP) = 3.6 (0.37) 2.			
		Off east coast of Kamchatka					By combination with Finnish station			
		(h = 35 km).					readings.			
"	17	UPP	iP	13 23 28.2	"	18	UPP	iP	16 45 06.6	
		KIR	iP	13 22 35.4			KIR	iP	16 44 53.8	
		UME	iP	13 23 02.7			UME	iP	16 44 55.1	
		Fox Islands, Aleutian Islands (h = N).					Xizang (h = 30 km).			
"	17	UPP	iP	14 44 35.3	"	18	UPP	iP	20 57 51.3	
		KIR	iP	14 45 41.0			KIR	iP	20 58 49.8	
		Eastern mediterranean Sea					UME	eP	20 58 20	
		(h = 15 km).					Egypt (h = 10 km).			
"	17	KIR	iP	15 05 16.7	"	18	KIR	iP	22 01 34.1	
		UME	iP	15 05 24.3			Off coast of California (h = 5 km).			
		Philippine Islands region (h = N).					UPP	ePKP	22 02 54	
"	18	KIR	iP	06 01 11.7	"	18	KIR	iPKP	22 02 37.5	
		Uganda (h = N).					UME	iPKP	22 02 47.6	
"	18	KIR	eP	10 49 08			South of Kermadec Islands (h = N).			
		Afghanistan-Tajikistan bord. reg.				"	19	DEL	iPg1	13 08 49.5
		(h = N).						iSg1	13 09 03.5	
"	18	UPP	eP	14 06 05			MYV	i	13 09 09.3	
		KIR	eP	14 06 30			Off coast of southern Sweden,			
		UME	iP	14 06 21.3			55.3°N, 14.5°E.			
		Arabian Sea (h = 10 km).					Origin time = 13 08 29.			
"	18	UPP	eP	14 06 05			Solution from Bergen bulletin.			
		KIR	eP	14 06 30			Probably explosion.			
		UME	iP	14 06 21.3	"	20	UPP	iP	07 32 51.8	
		Arabian Sea (h = 10 km).					KIR	iP	07 32 55.2	
"	18	UPP	eP	14 06 05			UME	iP	07 32 48.6	
		KIR	eP	14 06 30			Nepal (h = N).			
		UME	iP	14 06 21.3						

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

1993				1993				
Oct.	20	KIR	iPg1	11 20 59.5	Oct.	21	(cont).	
			iSg1	11 21 32.0			UME iP	21 59 46.1
		UME	iSg1	11 22 55.1			ipP	21 59 49.4
		Northern Norway, 68.3°N, 14.4°E.					Northern Iran.	
		Origin time = 11 20 19.					h = 10 km (UPP,KIR,UME).	
		M _L (UPP) = 3.3 (0.08) 2.						
		By combination with Finnish station readings.			"	22	KIR iPKP	05 57 45.6
							UME iPKP	05 57 36.8
							South of Africa (h = 10 km).	
"	20	UPP	iP	16 25 13.8	"	22	UPP iPKP	09 01 01.5
			ipP	16 25 25.0				micr sec
		KIR	iP	16 25 16.3			Mx	Z 2.4 22
		Nepal (h = 35 km).					KIR iPKP	09 01 17.9
"	20	UPP	iPKP1	23 27 00.4			UME iPKP	09 01 10.1
		KIR	ePKP	23 26 46			South Sandwich Islands region	
		UME	iPKP	23 26 28.1			(h = N).	
		Kermadec Islands, New Zealand			"	23	UPP iP	18 57 43.8
		(h = 210 km).					i	18 57 48.8
"	21	UPP	iP	00 41 41.4			KIR iP	18 57 02.0
		KIR	iP	00 42 38.2			Off coast of Northern California	
		UME	eP	00 42 13			(h = 10 km).	
		Egypt (h = 10 km).			"	24	UPP iP	06 06 19.2
"	21	KIR	iP	05 28 37.3				micr sec
		Irian Jaya, Indonesia (h = N).					P	Z' 0.1 1.1
"	21	KIR	iP	18 05 17.0			KIR iP	06 06 00.8
		UME	eP	18 05 25				micr sec
		Off coast of Chiapas, Mexico					P	Z' 0.1 1.0
		(h = 50 km).					UME iP	06 06 07.4
"	21	KIR	iP	19 21 52.3			Samar, Philippine Islands (h = 50 km).	
		Northern Alaska (h = 10 km).					m = 6.1 (UPP,KIR).	
"	21	KIR	iP	19 22 49.4	"	24	UPP iSg1	07 18 09.5
		Northern Alaska (h = 10 km).					UME iPg1	07 16 58.1
"	21	KIR	iP	19 58 21.0			iSg1	07 17 14.0
		UME	iP	19 58 54.0			i	07 17 18.7
		Northern Alaska (h = 10 km).					MYV iSg1	07 17 36.4
"	21	UPP	iP	21 59 32.2			Gulf of Bothnia, Sweden,	
			ipP	21 59 35.0			62.9°N, 18.6°E.	
		KIR	iP	22 00 10.8			Origin time = 07 16 36.	
			ipP	22 00 13.9			M _L (UPP) = 2.2 1.	
				micr sec			By combination with Finnish station readings.	
		P	Z'	0.1 1.0	"	24	UPP iP	08 05 05.7
							iPP	08 08 31.1
		(cont).					(cont).	

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

1993				1993			
Oct.				Oct.			
24	(cont.)			26	UPP	iP	11 47 43.9 D
	UPP	iSKS	08 15 38			ipP	11 47 46.2
			micr sec			iPP	11 49 42.5
		P	Z' 0.3 1.5				micr sec
			micr sec			P	Z' 0.2 0.8
		Mx	Z 34 20			Mx	Z 2.5 12
	KIR	iP	08 04 48.7		KIR	iP	11 47 22.3
		i	08 05 04.3				micr sec
		i	08 08 04.8			P	Z' 0.2 1.2
		iPP	08 08 12.4		UME	iP	11 47 28.4 D
			micr sec			i	11 47 29.8
		Mx	Z 53 19		Qinghai, China (h = 10 km).		
	UME	iP	08 05 00.4		m = 6.0 (UPP,KIR).		
		iPP	08 08 29.8				
	Near coast of Guerrero, Mexico (h = 20 km).			"	26	UPP	ePKP 19 23 36
	m = 6.4, M = 6.8 (UPP,KIR).					KIR	ePKP 19 23 24
"	24	UPP	iPKP 13 00 13.6			UME	iPKP 19 23 30.1
		UME	ePKP 13 00 11		Kermadec Islands region (h = N).		
	South of Fiji Islands (h = 540 km).			"	26	UPP	eP 20 32 39
"	25	UPP	iP 00 50 23.9			UME	iP 20 32 34.7
		UME	iP 00 50 06.4		Afghanistan-Tajikistan bord. reg. (h = 10 km).		
	Ryukyu Islands (h = 45 km).			"	27	UPP	iP 05 03 52.7
"	25	UPP	ePKP 10 45 39				micr sec
			iPS 10 56 04			P	Z' 0.1 0.9
		KIR	ePKP 10 45 34		KIR	iP	05 02 58.2
		UME	iPKP 10 45 32.7				micr sec
	Eastern New Guinea reg., P.N.G. (h = 30 km).					P	Z' 0.2 0.7
"	25	UPP	eP 14 39 02		UME	iP	05 03 24.7
		KIR	iP 14 39 35.2		Off east coast of Kamchatka (h = 70 km).		
		UME	iP 14 39 06.9		m = 6.0 (UPP,KIR).		
	Caspian Sea (h = N).			"	27	KIR	iP 07 31 38.7
"	25	UPP	ePdiff 14 44 39			UME	eP 07 31 43
		KIR	ePdiff 14 44 33		Mindanao, Philippine Islands (h = 45 km).		
		UME	iPdiff 14 44 51.3	"	27	UPP	iPKP 21 35 00.6
	Eastern New Guinea region, P.N.G. (h = 20 km).						iSKP1 21 37 40.2
"	26	UPP	iP 07 29 24.4			UME	iPKP 21 34 51.0
			ipP 07 29 56.5				i 21 34 55.0
		UME	iP 07 29 10.0				eSKP1 21 37 23
	Mindoro, Philippine Islands (h = 130 km).				Fiji Islands region (h = 620 km).		
"	28	UPP	iP 02 03 04.7				
			i 02 03 29.0				

(cont).

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

1993				1993			
Oct.	28	(cont.) UPP		Oct.	30	UPP iP	08 42 59.4
			micr sec				micr sec
		P	Z' 0.1 1.0			P	Z' 0.1 1.0
		KIR iP	02 02 23.7			KIR iP	08 42 40.3
		UME iP	02 02 42.9				micr sec
		i	02 03 04.9			P	Z' 0.1 1.0
		Hokkaido, Japan region (h = 65 km).				UME iP	08 42 46.9
"	28	UME iPn	06 16 51.9			Luzon, Philippine Islands (h = 40 km). m = 5.9 (UPP,KIR).	
		iSg1	06 18 25.0				
		Norwegian Sea, 68.1°N, 9.8°E. Origin time = 06 15 24. M _L (UPP) = 3.4 1. By combination with Finnish station readings.		"	30	UPP iP	09 44 34.8
						Turkey (h = 10 km).	
"	28	UPP ePdiff	10 04 01	"	30	UME iPKP	14 24 05.6
		KIR ePdiff	10 03 42			Fiji Islands region (h = 15 km).	
		Banda Sea (h = 180 km).		"	30	UME iPKP	18 17 32.6
"	29	UPP iP	00 49 40.7	"	31	KIR iPKP	00 59 49.4
		UME iP	00 49 35.4			South of Australia (h = 10 km).	
		Kashmir-Xinjiang border region (h = 150 km).					
"	29	UPP iP	04 20 02.7				
			micr sec				
		P	Z' 0.1 0.9				
		UME iP	04 19 34.1				
		Andreanof Islands, Aleutian Is. (h = 35 km).					
"	29	UPP i	13 03 39.3				
		iRg	13 03 41.9				
		Dannemora, Uppland, Sweden, 60.2°N, 17.8°E. Probably rockburst at the iron ore mine.					
"	29	UPP iP	23 55 18.4				
		UME iP	23 55 23.1				
		Southern India (h = 10 km).					
"	30	UPP iP	00 25 52.4				
		KIR iP	00 26 26.5				
		UME iP	00 26 04.8				
		Arabian Sea (h = 10 km).					

July 6, 1995

Conny Holmqvist
Ota Kulhánek
Xin Pi
Ronnie Quintero

SEISMOLOGICAL DEPARTMENT
 BOX 2101
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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,	13°52.2'E;	h = 150 m
Myrviken	(MYV)	62°56.5'N,	14°20.8'E;	h = 345 m

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1993					1993				
Nov.	1	UPP	iP	00 13 39.1	Nov.	1	(cont).		
		KIR	iP	00 13 39.3			UME	iP	18 22 51.5
				micr sec					Turkey (h = 15 km).
			P	Z' 0.7 1.9		"	2	UME	iP 07 24 08.4
		UME	iP	00 13 36.2					E. Russia-N.E. China border reg. (h = 550 km).
		Northern Sumatera, Indonesia (h = 80 km).							
"	1	UME	iP	12 26 46.6	"	2	KIR	iP	10 09 49.1
		Near coast of Nicaragua (h = 70 km).							Halmahera, Indonesia (h = 100 km).
"	1	KIR	iPg1	12 35 16.4	"	3	UPP	iP	13 30 08.9
			iSg1	12 35 43.5					micr sec
		Northern Norway, 69.8°N, 20.3°E. Origin time = 12 34 40. M _L (UPP) = 2.7 1. By combination with Finnish station readings.						P	Z' 0.1 0.7
		KIR	iP	13 30 31.6			KIR	iP	13 30 31.6
		UME	iP	13 30 17.5			UME	iP	13 30 17.5
				13 30 24.9				i	13 30 24.9
		Mid-Indian Ridge (h = 10 km).							
"	1	UPP	iP	14 52 28.0	"	3	UPP	iP	18 46 10.9
			i	14 53 56.5			KIR	iP	18 47 08.8
			i	14 54 54.3					micr sec
		KIR	iP	14 54 10.6				P	Z' 0.3 2.2
		UME	iP	14 53 19.9			UME	iP	18 46 34.9
		Poland (h = 20 km).							Egypt (h = 15 km).
"	1	UPP	iPKP	17 38 08.3	"	4	UPP	iP	05 20 21.7
		KIR	iPKP	17 37 56.2			KIR	iP	05 21 32.9
		UME	iPKP	17 38 01.2					Greece (h = 5 km).
		Solomon Islands (h = 120 km).							
"	1	UPP	iP	18 22 20.3	"	4	UPP	iP	05 23 27.5 C
		(cont).						iS	05 27 28
							(cont).		

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

1993				1993			
Nov.		(cont).		Nov.		(cont).	
	4	UPP	micr sec		5	KIR	micr sec
		P	Z' 0.1 1.0			Mx	Z 9.2 28
		Mx	Z 6.1 14			Bismarck Sea (h = 15 km).	
		KIR	iP 05 24 41.3			M = 6.1 (UPP,KIR).	
			micr sec				
		P	Z' 0.2 1.6	"	6	UPP	iP 18 35 35.7
		Mx	Z 4.7 11			UME	iP 18 35 35.8
		UME	iP 05 24 04.9			Near coast of Chiapas, Mexico	
		Greece (h = 20 km).				(h = 65 km).	
		m = 5.6, M = 5.2 (UPP,KIR).					
"	4	UME	iP 05 27 26.7	"	7	UME	iP 08 37 43.1
		Afghanistan (h = N).					
"	4	UPP	iP 10 56 16.7	"	7	UPP	iP 12 07 08.4
		UME	iP 10 56 57.0			Northwest Kuril Islands (h = 420 km).	
		Romania (h = 130 km).					
"	4	UPP	iP 13 22 37.1	"	7	KIR	iPKP 13 14 39.3
		UME	iP 13 22 24.6			UME	iPKP 13 14 35.7
		Samar, Philippine Islands				South of Kermadec Islands	
		(h = 30 km).				(h = 210 km).	
"	4	UPP	iPKP 23 24 38.6	"	7	UME	iSn 23 45 51.0
		UME	iPKP 23 24 26.6			MYV	iSg1 23 45 28.6
		Kermadec Islands region				Norwegian Sea, 66.4°N, 7.7°E.	
		(h = 510 km).				Origin time = 23 43 21.	
						Solution from Finnish and Norwegian	
"	5	UME	iP 02 18 23.0			station readings.	
		Puerto Rico region (h = 50 km).		"	8	KIR	iP 00 01 28.0
"	5	UPP	iP 07 15 22.8			UME	iP 00 00 39.4
		UME	iP 07 15 19.6			Mariana Islands (h = 80 km).	
		Jawa, Indonesia (h = 80 km).		"	8	UPP	iP 01 12 40.0
"	5	UPP	iP 15 01 50.9			KIR	iP 01 13 38.9
		KIR	iP 15 01 21.1			UME	iP 01 13 06.8
		UME	iP 15 01 34.9			Egypt (h = 15 km).	
		Mariana Islands region (h = 55 km).		"	8	UME	iPKP 01 43 40.1
"	5	UPP	iP 16 13 17.9			Eastern New Guinea region	
		KIR	iP 16 12 47.8			(h = 20 km).	
		UME	iP 16 12 52.5	"	8	UPP	iP 03 56 40.2
		Ryukyu Islands (h = 40 km).				UME	iP 03 56 45.7
						North Atlantic Ocean (h = 10 km).	
"	5	UPP	Mx 23 37	"	8	UPP	eP 16 56 15
			micr sec			KIR	iP 16 55 58.8
		Mx	Z 8.3 29			UME	iP 16 56 03.7
		KIR	iPdiff 22 51 34.7			Talaud Islands, Indonesia	
		(cont).				(h = 190 km).	

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

1993				1993					
Nov.	8	UPP KIR	iPKP iPKP	19 35 20.0 19 35 07.5	Nov.	9	KIR UME	eP iP	04 40 08 04 40 19.4
				South of Fiji Islands (h = 30 km).					Mariana Islands (h = 70 km).
"	8	UPP KIR	iP iP	21 00 27.2 20 59 48.0	"	9	UPP	iSg1 iRg	13 36 38.8 13 36 41.3
				micr sec Z' 0.1 1.0					Dannemora, Uppland, Sweden, 60.2°N, 17.8°E.
		UME	iP	21 00 04.9 C					Probably rockburst at the iron ore mine.
			i	21 00 18.9	"	10	UPP UME	iPKP1 iPKP	00 03 36.5 00 03 23.5
				Near east coast of Honshu, Japan (h = N). m = 5.9 (UPP,KIR).					Kermadec Islands region (h = 270 km).
"	9	UPP	iP ipP i	02 23 18.8 02 23 22.5 02 23 26.2	"	10	UPP	iPn i	21 02 06.2 21 03 37.6
				micr sec Mx Z 2.6 19			KIR	iP	21 03 50.1
		KIR	iP ipP	02 23 54.5 02 23 58.5			UME	iP	21 02 59.8
				micr sec Mx Z 4.3 20					Poland (h = 10 km).
		UME	iP ipP i	02 23 367 02 23 41.1 02 23 47.4	"	11	UPP	eP	00 17 25
				Arabian Sea. h = 15 km (UPP,KIR,UME). M = 5.4			KIR	iP	00 16 44.3
"	9	UPP	eP	02 55 51			UME	iP	00 18 03.3
		KIR	iP	02 55 11.7					Near east coast of Honshu, Japan (h = 30 km).
		UME	iP ipP i	02 55 29.2 02 55 39.2 02 55 45.5	"	11	UPP	iP ipP iS iP'P'	00 39 42.6 D 00 39 48.3 00 48 48 01 07 51.7
				Near east coast of Honshu, Japan (h = 30 km).			KIR	iP ipP i i i	00 38 49.7 D 00 38 55.7 00 39 05.2 00 39 32.3 00 39 48.6
"	9	UME	iP	02 59 27.5			UME	iP ipP i iP'P'	00 39 15.7 D 00 39 20.7 00 39 31.9 01 07 55.8
				Near east coast of Honshu, Japan (h = 30 km).					Andreanof Islands, Aleutian Is. h = 20 km (UPP,KIR,UME). m = 7.0 (UPP,KIR).
"	9	UPP KIR UME	iP iP iP	03 52 18.8 03 51 39.9 03 51 57.1	"	11	UME	iPKP	04 30 30.1
				Near east coast of Honshu, Japan (h = 40 km).					Kermadec Islands region (h = N).
"	11	UPP UME	iPKP iPKP	10 32 32.0 10 31 55.0	"	11	UPP UME	iPKP iPKP	10 32 32.0 10 31 55.0
				New Ireland region (h = 45 km).					

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

1993				1993					
Nov.	11	UPP	iPKP	14 19 24.6	Nov.	12	(cont).		
		UME	iPKP	14 19 18.9			UME	iP	19 32 10.3
		Kermadec Islands, New Zealand (h = N).					Talaud Islands, Indonesia (h = 110 km).		
"	11	UPP	iSg1	23 46 01.4	"	12	UPP	iPn	19 55 24.0
		KIR	iSg1	23 46 21.0				iSn	19 55 51.5
		UME	iPg1	23 44 46.3				iSg	19 55 56.0
			i	23 44 52.7			KIR	iSg1	19 59 11.5
			iSg1	23 45 02.5			UME	iSg1	19 57 26.3
		MYV	eSn	23 46 11			DEL	ePg1	19 55 38.3
			iSg1	23 46 28.4				i	19 56 02.6
		Bothnian Bay, 64.2°N, 23.0°E. Origin time = 23 44 23. M _L (UPP) = 2.9 (0.19) 3. Felt. By combination with Finnish station readings.						iSg1	19 56 22.9
							MYV	iPg1	19 55 36.5
								iSg1	19 56 19.4
							Värmland, Sweden, 59.8°N, 12.6°E. Origin time = 19 54 36. M _L (UPP) = 3.3 (0.23) 3. Felt.		
"	12	KIR	iP	10 21 24.8	"	13	KIR	iP	00 29 26.8
		UME	iP	10 21 52.6			Near coast of Guerrero, Mexico (h = 20 km).		
"	12	KIR	iPKP	10 58 18.1	"	13	UPP	iP	01 28 36.0
		UME	iPKP	10 58 21.6				iS	01 37 07
		New Caledonia (h = N).							micr sec
"	12	UPP	eP	11 27 34			P	Z'	1.6 1.2
		KIR	iP	11 26 41.3			Mx	Z	150 18
		UME	iP	11 27 06.9			KIR	iP	01 27 43.4 C
		Andreanof Islands, Aleutian Is. (h = N).							micr sec
							P	Z'	0.6 1.1
							Mx	Z	115 19
"	12	KIR	iP	13 37 39.8			UME	iP	01 28 08.4 C
		UME	eP	13 37 27			Near east coast of Kamchatka (h = 35 km). m = 6.8, M = 7.1 (UPP,KIR).		
		Southern India (h = 10 km).							
"	12	KIR	iP	13 55 47.1	"	13	UPP	iP	02 18 53.5
		UME	eP	13 55 24			KIR	iP	02 18 02.6
		Caspian Sea (h = N).					UME	iP	02 18 27.4
"	12	KIR	eP	14 27 54			Near east coast of Kamchatka (h = 60 km).		
		Taiwan region (h = 180 km).							
"	12	KIR	iP	15 39 11.0	"	13	KIR	iPg1	14 24 09.4
		UME	iP	15 39 23.4				iSg1	14 24 18.1
		Volcano Islands region (h = 660 km).					Lapland, Sweden, 67.5°N, 19.2°E. Origin time = 14 23 59. By combination with Finnish station readings.		
"	12	KIR	iP	19 32 01.9					
		(cont).							

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

1993				1993			
Nov.	14	KIR iP	07 19 09.8	Nov.	16	UPP iP	16 00 53.3
		Kuril Islands (h = N).					micr sec
"	14	UPP iP	08 32 14.8			Mx Z	11 20
		KIR iP	08 32 22.2			KIR iP	16 01 10.5
		UME iP	08 32 12.7				micr sec
		Afghanistan-Tajikistan border region (h = 110 km).				Mx Z	5.1 12
"	14	UPP iP	09 57 39.7			UME iP	16 00 56.7 D
		KIR eP	09 58 50	"	17	UPP iP	00 30 35.2
		UME iP	09 58 20.6				micr sec
		Ionian Sea (h = 50 km).				P Z'	0.1 1.0
"	14	KIR iP	20 02 38.0			KIR iP	00 29 42.3
		UME iP	20 02 33.0			i	00 30 17.7
		Southern Sumatera, Indonesia (h = 90 km).				UME iP	00 30 08.6
"	14	KIR iP	21 21 15.0			Fox Islands, Aleutian Islands (h = N). m = 5.8 (UPP,KIR).	
		Ryukyu Islands (h = 30 km).		"	17	UPP iP	02 55 31.5
"	15	KIR iP	06 24 10.6			iPP	02 59 32.5
		UME iP	06 24 25.6			KIR iP	02 55 17.7
		Near south coast of Honshu, Japan (h = 370 km).				iPP	02 59 09.5
"	15	KIR iP	17 31 06.7			UME iP	02 55 23.4
		Luzon, Philippine Islands (h = N).				ePP	02 59 23
"	16	UPP iPKP	01 12 38.6			Minahassa Peninsula, Sulawesi (h = 240 km).	
		KIR iPKP	01 12 23.9	"	17	UPP iP	11 29 24.4
		UME ePKP	01 12 32			iS	11 37 52
		South of Tonga Islands (h = N).					micr sec
"	16	KIR iP	01 40 52.8			P Z'	0.6 1.5
		UME iP	01 40 30.7			Mx Z	9.0 22
		Southern Iran (h = N).				KIR iP	11 28 33.1
"	16	KIR iP	04 00 14.2				micr sec
		UME iP	04 00 19.4			P Z'	0.5 1.5
		Mindanao, Philippine Islands (h = 150 km).				UME iP	11 28 57.3 D
"	16	UPP iP	12 13 37.1			Near east coast of Kamchatka (h = 35 km). m = 6.5 (UPP,KIR).	
		UME iP	12 13 31.9	"	17	UPP eP	19 36 28
		Jawa, Indonesia (h = N).				KIR eP	19 36 17
"	16	UPP iP	15 39 46.4			UME iP	19 36 19.6
		Mindanao, Philippine Islands (h = 540 km).				Myanmar-India border region (h = 110 km).	
"	16	UME iPKP	01 50 59.3	"	18	UME iPKP	01 50 59.3
		Mindanao, Philippine Islands (h = 540 km).				South of Kermadec Islands (h = N).	

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1993				1993					
Nov.	18	KIR	iP	15 07 45.1	Nov.	19	UPP	iPKP	04 56 12.9
		UME	iP	15 07 46.9			KIR	iPKP	04 56 05.8
				Northern Colombia (h = 90 km).			UME	ePKP	04 56 01
"	18	UME	iP	18 06 10.5			South of Fiji Islands (h = 590 km).		
				Southern Mid-Atlantic Ridge (h = 10 km).	"	19	KIR	iP	06 08 04.3
							UME	iP	06 08 09.9
							Mindanao, Philippine Islands (h = 35 km).		
"	19	UPP	iP	01 54 08.7	"	19	UME	iPKP	07 12 42.0
			ipP	01 54 16.8			Tonga Islands (h = N).		
			iS	02 02 55					
			iP'P'	02 22 39.2					
				micr sec					
			P	Z' 0.3 1.1	"	19	UPP	iP	09 04 25.8
			Mx	Z 23 20			KIR	eP	09 03 31
		KIR	iP	01 53 14.2			UME	iP	09 03 51.9
			ipP	01 53 22.9			Unimak Island region (h = N).		
			iP'P'	02 23 04.6					
				micr sec	"	19	UPP	iP	09 16 23.0
			P	Z' 0.4 1.5					micr sec
			Mx	Z 15 18				P	Z' 0.3 1.5
		UME	iP	01 53 43.0				Mx	Z 5.6 15
			ipP	01 53 50.9			KIR	iP	09 16 55.9
			i	01 54 26.1					micr sec
			iP'P'	02 22 51.2				P	Z' 0.2 1.0
				Unimak Island region.			UME	iP	09 16 42.7
				h = 30 km (UPP,KIR,UME).			Central Mid-Atlantic Ridge (h = 10 km).		
				m = 6.2, M = 6.2 (UPP,KIR).			m = 6.2 (UPP,KIR).		
"	19	UME	iP	02 16 21.0	"	19	UPP	iP	11 08 41.2
				Unimak Island region (h = N).			KIR	iP	11 08 22.6
"	19	UPP	iP	02 37 55.2			UME	eP	11 08 29
		KIR	iP	02 37 46.3			Philippine Islands region (h = 45 km).		
		UME	iP	02 37 54.4	"	19	UME	iP	18 17 40.4
				Near coast of Chiapas, Mexico (h = 25 km).			North of Ascension Island (h = 10 km).		
"	19	KIR	iP	03 26 50.9	"	20	UPP	iP	03 15 29.2
		UME	iP	03 26 36.9			KIR	iP	03 16 36.7
				Pakistan (h = 15 km).			UME	iP	03 16 01.1
"	19	UPP	iP	03 33 14.8			Crete (h = 10 km).		
		KIR	iP	03 32 23.0	"	20	UPP	iP	12 04 47.8
		UME	eP	03 32 47			KIR	iP	12 03 53.4
				Unimak Island region (h = N).			UME	iP	12 04 20.8
"	19	UPP	iP	04 09 37.7			Unimak Island region (h = N).		
		KIR	iP	04 08 42.6	"	20	UPP	iP	12 09 12.2
		UME	iP	04 09 11.2			(cont).		
				Unimak Island region (h = N).					

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1993				1993			
Nov.	20	(cont).		Nov.	22	UPP eP	14 17 28
		KIR iP	12 08 20.4			KIR iP	14 18 35.5
		UME iP	12 08 44.9			UME iP	14 18 00.7
		Near east coast of Kamchatka (h = 45 km).				Greece (h = 50 km).	
"	20	UPP iP	19 34 46.3	"	22	UPP eP	22 46 59
		iS	19 42 48			KIR eP	22 46 37
		KIR iP	19 33 49.7			UME iP	22 46 45.0
			micr sec			Philippine Islands region (h = 45 km).	
		P	Z' 0.3 1.0	"	22	UPP iP	22 55 58.3
		UME iP	19 34 18.4			ipP	22 56 27.3
		Southern Alaska (h = 120 km).				iPP	22 59 24.0
"	21	UPP iP	07 30 16.5			KIR iP	22 55 51.6
		KIR iP	07 29 30.8			ipP	22 56 20.4
		UME iP	07 29 54.1			iPP	22 59 11.8
		Near east coast of Honshu, Japan (h = 40 km).				UME iP	22 55 57.0
"	21	KIR iP	10 57 56.8			ipP	22 56 24.5
		Northern Colombia (h = 210 km).				iPP	22 59 20.9
"	22	KIR eP	01 00 25			Near coast of Nicaragua. h = 110 km (UPP,KIR,UME).	
		UME eP	01 00 37	"	22	UME iP	23 15 59.0
		Near east coast of Honshu, Japan (h = 50 km).		"	23	KIR iP	04 00 43.7
"	22	UPP iP	03 14 09.9			UME iP	04 00 51.6
		KIR iP	03 13 53.6			Philippine Islands region (h = 110 km).	
			micr sec	"	23	KIR iP	08 39 42.3
		P	Z' 0.2 1.0			UME eP	08 39 56
		UME iP	03 13 58.8			East of Kuril Islands (h = 45 km).	
		Mindanao, Philippine Islands (h = 40 km).		"	23	KIR iP	15 10 38.9
"	22	UPP iP	04 26 53.4			UME iP	15 10 41.6
		KIR eP	04 26 32			Samar, Philippine Islands (h = 60 km).	
		UME iP	04 26 41.5	"	23	KIR iP	15 14 54.4
		Mindoro, Philippine Islands (h = N).				Mindanao, Philippine Islands (h = 160 km).	
"	22	UPP iPKP1	06 17 12.7	"	23	UPP iP	20 18 45.6
		KIR iPKP	06 16 57.4				micr sec
		UME iPKP	06 16 59.4			P	Z' 0.2 1.5
		Kermadec Islands region (h = 330 km).					micr sec
"	22	KIR iP	09 15 42.0			Mx	Z 1.2 18
		UME iP	09 15 47.4			KIR iP	20 18 02.2
		Taiwan region (h = N).				i	20 18 09.4
							micr sec
						P	Z' 0.1 1.2
						(cont).	

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1993				1993			
Nov.	23	(cont).		Nov.	25	(cont).	
		KIR	micr sec			KIR	iPKP 15 47 34.5
		Mx	Z 2.4 17			UME	iPKP 15 47 36.7
		UME	iP 20 18 22.2			Kermadec Islands, New Zealand (h = N).	
		Hokkaido, Japan region (h = 40 km). m = 5.9, M = 5.3 (UPP,KIR).				"	25 UPP
"	24	UPP	iPKP1 06 09 29.4				iP 20 34 43.8
		UME	iPKP 06 09 22.2				i 20 34 51.5
		Kermadec Islands region (h = N).					iS 20 43 26
"	24	UPP	iP 09 12 48.5				micr sec
		KIR	iP 09 12 02.4				P Z' 0.2 1.4
		UME	iP 09 12 23.2				Mx Z 4.8 18
		Sea of Okhotsk (h = 440 km).				KIR	iP 20 35 29.2
"	24	UME	iPKP 11 46 37.4				i 20 35 37.3
		Tonga Islands (h = N).					micr sec
"	24	UME	iP 12 04 52.7				P Z' 0.3 1.5
		Off east coast of Honshu, Japan (h = N).					Mx Z 2.7 18
"	24	UME	iPKP 12 42 43.6			UME	iP 20 35 08.8
		UME	iP 12 42 50.9				i 20 35 17.2
		Mindanao, Philippine Islands (h = 60 km).				North of Ascension Island (h = 10 km). m = 6.2, M = 5.6 (UPP,KIR).	
"	24	UPP	iP 23 08 06.6	"	25	UPP	iP 21 58 14.0
		Banda Sea (h = 30 km).					ipP 21 58 23.9
"	25	UPP	iP 06 27 27.1				micr sec
		KIR	iP 06 26 38.1				P Z' 0.1 1.5
		Off coast of Hokkaido, Japan (h = 25 km).				KIR	iP 21 57 56.4
"	25	UPP	iPKP 08 50 35.2				ipP 21 58 05.7
			micr sec			UME	iP 21 58 02.8
		Mx	Z 2.8 23				ipP 21 58 12.5
		KIR	iPKP 08 50 21.3			Somar, Philippine Islands. h = 30 km (UPP,KIR,UME). m = 6.0 (UPP,KIR).	
		UME	iPKP 08 50 27.8	"	25	UPP	iP 04 09 40.1
		Loyalty Islands region (h = 30 km).				KIR	iP 04 09 40.1
"	25	UPP	iP 13 23 08.4			UME	iP 04 09 59.8
		KIR	iP 13 23 17.5			Andaman Islands, India (h = 65 km).	
		UME	iP 13 23 05.6	"	26	UPP	iP 13 00 43.2
		Hindu Kush region, Afghanistan (h = 200 km).		"	26	UPP	eP 17 15 03
"	25	UPP	iPKP1 15 47 50.1			KIR	iP 17 14 43.2
		(cont).				UME	iP 17 14 46.3
						Samar, Philippine Islands (h = 35 km).	
"	25	UPP	iPKP1 15 47 50.1	"	26	KIR	iP 17 28 32.0
		(cont).				UME	iP 17 28 47.8
						Banda Sea (h = 120 km).	

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1993				1993			
Nov.	26	UPP KIR Taiwan (h = N).	iP eP	19 34 24.0 19 34 07	Nov.	27	(cont). MYV iPg1 iSg1 Southeastern Norway, 60.4°N, 11.6°E. Origin time = 18 57 51. M _L (UPP) = 2.8 (0.01) 2. Felt.
"	26	UPP KIR Northern Colombia (h = 150 km).	iP iP	22 32 55.5 22 32 58.5	"	27	UPP iP KIR iP UME iP South of Honshu, Japan (h = 380 km).
"	26	UME South of Kermadec Islands (h = 300 km).	iPKP	22 52 49.2	"	27	UPP iPKP iSKP1 KIR iPKP iSKP1 UME ePKP iSKP1 South of Fiji Islands (h = 520 km).
"	26	UPP KIR UME Solomon Islands (h = 15 km). M = 6.0 (UP,KIR).	iPKP Mx Z ePKP Mx Z iPKP	23 38 57.9 micr sec 4.8 18 23 38 48 micr sec 2.7 18 23 38 46.9	"	27	KIR iPg1 iSg1 i Northern Norway, 68.9°N, 19.1°E. Origin time = 23 11 53. M _L (UPP) = 2.9 1. Felt. By combination with Finnish station readings.
"	27	UPP KIR UME Near Islands, Aleutian Islands (h = N).	iP iP eP	03 25 13.2 03 24 18.4 03 24 42	"	28	UPP eP KIR iP UME iP Azores Islands (h = 10 km).
"	27	UPP KIR UME Near east coast of Honshu, Japan. h = 115 km (UPP,KIR,UME). m = 6.2 (UPP,KIR).	iP ipP P Z' iP ipP P Z' iP ipP	06 22 32.2 06 23 00.3 micr sec 0.5 1.1 06 21 51.8 06 22 18.1 micr sec 0.3 1.0 06 22 09.3 06 22 35.8	"	28	KIR iP UPP iP KIR iP UME iP Java Sea (h = 570 km). m = 6.1 (UPP,KIR).
"	27	UPP KIR UME Sicily (h = 200 km).	iP iP iP	13 31 06.0 13 32 18.7 13 31 43.0	"	28	UPP iP KIR iP UME iP DEL iSg1 (cont).

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1993				1993					
Nov.	28	UPP	iP	21 07 02.8	Nov.	30	UPP	iP	08 05 57.5
				micr sec			KIR	iP	08 06 06.5
			P	Z' 0.2 1.0			UME	iP	08 05 55.8
		KIR	iP	21 07 10.3			Afghanistan-Tajikistan bord. reg. (h = 170 km).		
				micr sec					
			P	Z' 0.2 1.0	"	30	UPP	iP	11 38 42.9
		UME	iP	21 06 59.9			KIR	iP	11 38 41.3
		Afghanistan-Tajikistan border region (h = 110 km). m = 5.9 (UPP,KIR).					UME	iP	11 38 39.9
							Andaman Islands, India (h = N).		
"	28	UPP	eP	22 33 39	"	30	UPP	iP	13 59 37.7
		KIR	iP	22 33 18.7			Mariana Islands (h = 220 km).		
			i	22 33 31.8					
		UME	iP	22 33 26.6	"	30	UPP	iP	15 51 49.4
			i	22 33 38.0			KIR	iP	15 50 54.3
		Philippine Islands region (h = 35 km).					Andreanof Islands, Aleutian Is. (h = N).		
"	29	KIR	iPKP	06 54 29.9	"	30	UPP	iP	19 15 05.1
		UME	iPKP	06 54 42.6			KIR	eP	19 14 45
		Tonga Islands (h = 35 km).					UME	eP	19 14 50
"	29	UPP	eP	19 55 25			Taiwan region (h = 30 km).		
		KIR	eP	19 55 29	"	30	UPP	iP	20 44 57.3
		UME	iP	19 55 26.8				iS	20 51 10
		South India Ocean (h = 10 km).							micr sec
"	29	UPP	iP	20 41 42.1				P	Z' 0.1 0.8
			iS	20 52 32				Mx	Z 5.1 12
				micr sec			KIR	iP	20 44 57.7
			P	Z' 0.1 0.9					micr sec
			Mx	Z 4.9 20				Mx	Z 6.6 15
		KIR	iP	20 41 23.6			UME	iP	20 44 50.8
				micr sec			Southern Xinjiang, China (h = 20 km). M = 5.6 (UPP,KIR).		
			P	Z' 0.1 1.0	"	30	UPP	iPKP	21 02 44.2
			Mx	Z 3.8 15			KIR	iPKP	21 02 31.6
		UME	iP	20 41 29.7			UME	iPKP	21 02 38.5
			i	20 41 33.1			Fiji Islands region (h = 410 km).		
		Philippine Islands region (h = 40 km). m = 6.0, M = 5.9 (UPP,KIR).							
"	30	KIR	iP	03 34 27.2			August 22, 1995		
		Southern Sumatera Indonesia (h = 45 km).					Attia El-Sayed		
"	30	UPP	iPKP	05 18 15.3			Conny Holmqvist		
		KIR	ePKP	05 18 31			Ota Kulhánek		
		UME	ePKP	05 18 25			Xin Pi		
		Southwestern Atlantic Ocean (h = N).							

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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,	13°52.2'E;	h = 150 m
Myrviken	(MYV)	62°56.5'N,	14°20.8'E;	h = 345 m

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1993					1993				
Dec.	1	UPP	iPKP	01 17 50.9	Dec.	3	KIR	iP	02 48 14.5
		KIR	iPKP	01 18 05.2			UME	iP	02 48 33.8 C
				micr sec					Hokkaido, Japan region (h = 120 km).
			P	Z' 0.2 1.5					
		UME	iPKP	01 17 58.9	"	3	UPP	iP	05 12 23.9
				South Sandwich Islands region			KIR	iP	05 11 27.9
				(h = N).			UME	iP	05 11 55.9
									Rat Islands, Aleutian Islands (h = N).
"	1	UPP	iP	01 27 44.4	"	3	UPP	iP	05 52 06.5
"	1	UPP	iP	15 03 13.8					micr sec
		KIR	iP	15 02 23.7				P	Z' 0.1 1.1
		UME	eP	15 02 57			KIR	iP	05 51 12.4
				Mongolia (h = N).			UME	eP	05 51 40
									Rat Islands, Aleutian Islands (h = N).
"	1	KIR	iP	16 07 45.6	"	3	KIR	iP	23 19 43.1
				Philippine Islands region (h = 50 km).					Southern Xinjiang, China (h = N).
"	1	UPP	eP	22 16 07	"	4	UPP	iP	09 41 10.2
		KIR	iP	22 16 45.9			UME	iP	09 40 47.0
				Northwest of Madagascar				ipP	09 41 06.5
				(h = 10 km).					Hokkaido, Japan region (h = 80 km).
"	2	UPP	iP	14 46 38.6	"	4	KIR	iP	14 19 23.5
		KIR	iP	14 46 48.0			UME	iP	14 19 57.7
				micr sec					Northern Alaska (h = 10 km).
			P	Z' 0.2 1.4					
		UME	iP	14 46 37.1	"	4	UPP	iP	22 26 50.1
				Hindu Kush region, Afghanistan			KIR	iP	22 26 11.2
				(h = 220 km).			UME	iP	22 26 33.5
									Oregon (h = 10 km).

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

1993				1993			
Dec.	5	KIR iP	02 46 11.8	Dec.	8	UPP eP	03 05 39
		Andreanof Islands, Aleutian Is. (h = 30 km).				Northern Peru (h = 140 km).	
"	5	KIR iP	19 50 45.8	"	8	UPP eP	09 56 46
		Banda Sea (h = 140 km).				Near east coast of Kamchatka (h = N).	
"	6	UPP iPKP1	02 44 36.6	"	8	UPP iPKP	16 35 56.3
		Kermadec Islands region (h = 80 km).				Kermadec Islands region (h = 200 km).	
"	6	UPP iPKP	11 00 44.9	"	9	UPP iP	04 45 59.1
		KIR iPKP	11 00 29.3			iSKS	04 56 34
		UME iPKP	11 00 38.2			iS	04 57 16
		Solomon Islands (h = 50 km).					micr sec
"	6	UPP iP	14 30 27.5			P	Z' 0.1 0.8
		KIR iP	14 31 33.6			Mx	Z 43 23
		UME iP	14 31 03.8			UME iP	04 45 48.0 C
		Turkey (h = N).				iSKS	04 56 22.2
						Northern Molucca Sea (h = 15 km).	
"	6	UPP iP	15 48 53.9	"	9	UPP iP	05 02 28.9
		KIR iP	15 48 11.4			UME iP	05 02 34.1
		UME iP	15 48 30.4				
		Hokkaido, Japan region (h = 70 km).		"	9	UPP iP	05 06 57.9
"	6	UPP iP	21 05 56.3			UME iP	05 06 29.2
		KIR iP	21 06 08.4			Near east coast of Kamchatka (h = 60 km).	
		UME iP	21 05 59.7	"	9	UPP iP	09 54 15.4
		Laccadive Sea (h = 10 km).					
"	6	UPP iP	23 12 13.8	"	9	UPP eP	10 38 13
		KIR iP	23 11 50.5			UME iP	10 39 07.3
		UME iP	23 11 57.8			Poland (h = 10 km).	
		Taiwan region (h = 30 km).		"	9	UPP iP	11 52 09.2
"	7	UPP iP	04 35 27.0			iSKS	12 02 40
							micr sec
"	7	UPP eP	16 40 48			Mx	Z 25 22
		UME iP	16 40 38.7			UME iP	11 51 57.9
		Minahassa Peninsula, Sulawesi (h = 80 km).				Northern Molucca Sea (h = 15 km).	
"	7	UPP iP	19 27 33.4	"	9	UPP iP	18 36 39.1
		UME iP	19 27 13.9			UME iP	18 36 29.8
		Near west coast of Honshu, Japan (h = 25 km).				Myanmar (h = N).	
"	8	UPP iP	01 52 12.6	"	9	UPP iPKP	19 32 48.8
		UME iP	01 52 19.1			UME iPKP	19 32 38.2
		Southern India (h = 25 km).				South of Fiji Islands (h = 630 km).	
"				"	9	UPP iP	21 12 22.5

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

1993				1993					
Dec.	10	UPP	iPKP	06 50 14.6	Dec.	12	UPP	iP	05 28 03.2
			iSKP1	06 52 56.8			UME	iP	05 27 52.5
		UME	iPKP	06 50 07.1			Luzon, Philippine Islands (h = 20 km).		
			iSKP1	06 52 46.2					
		South of Fiji Islands (h = 610 km).			"	12	UPP	iP	13 03 52.9
"	10	UPP	iP	07 47 19.2			UME	iP	13 03 45.1
		Northern Molucca Sea (h = 25 km).					Xizang (h = N).		
"	10	UPP	iP	09 11 39.3	"	12	UPP	iP	14 14 38.3
			ipP	09 11 42.7			UME	iP	14 14 09.1
			iS	09 21 34			Near east coast of Kamchatka (h = N).		
				micr sec	"	12	UPP	iPKP1	14 39 03.6
		P	Z'	0.1 0.8			UME	iPKP	14 38 51.2
		Mx	Z	15 15			Kermadec Islands region (h = 40 km).		
		UME	iP	09 11 24.9	"	12	UPP	iPKP1	15 38 24.9
			ipP	09 11 28.7			Kermadec Islands region (h = N).		
		Philippine Islands region. h = 10 km (UPP,UME).			"	12	UPP	iP	15 54 04.2
"	10	UPP	eP	11 25 53			Near west coast of Honshu, Japan (h = 200 km).		
		UME	iP	11 25 41.4	"	12	UPP	iP	17 16 57.7
		Philippine Islands region (h = N).					UME	iP	17 16 47.4
"	10	UPP	iPKP	12 10 25.5			Northern Molucca Sea (h = 25 km).		
		UME	iPKP	12 10 17.6	"	12	UPP	iP	17 25 50.9
		Fiji Islands region (h = 620 km).					UME	iP	17 26 27.5
"	10	UPP	iP	23 28 08.1			Turkey (h = 30 km).		
		UME	iP	23 27 42.8	"	12	UPP	iP	18 40 04.1
		Near east coast of Kamchatka (h = 25 km).					UME	iP	18 39 54.3
"	11	UPP	iP	00 11 28.3			Northern Molucca Sea (h = N).		
		UME	iP	00 12 04.5	"	12	UPP	iP	20 52 58.4
		Hokkaido, Japan region (h = 70 km).							micr sec
"	11	UME	iP	00 16 54.7			P	Z'	0.1 0.9
		Southern Alaska (h = 90 km).					UME	iP	20 52 36.4
"	11	UPP	iP	02 13 17.3			Near east coast of Honshu, Japan (h = 45 km).		
		UME	iP	02 14 32.5	"	12	UPP	iP	23 44 16.8
		Romania (h = 150 km).					UME	iP	23 44 09.2
"	11	UPP	iP	13 15 36.6			Eastern Xizang-India border region (h = N).		
		UME	iP	13 15 09.4	"	13	UPP	iP	04 07 09.2
		East of Kuril Islands (h = 30 km).					Afghanistan-Tajikistan border region (h = N).		
"	12	UPP	iPKP	00 06 40.1					
		UME	iPKP	00 06 30.0					
		Fiji Islands region (h = 160 km).							

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

1993				1993			
Dec.	14	UPP iP UME iPn Norwegian Sea (h = 10 km).	01 04 07.0 01 03 18.8	Dec.	16	UPP iP KIR eP UME iP Ionian Sea (h = N).	11 53 15.4 11 54 29 11 54 07.6
"	14	UME iP Luzon, Philippine Islands (h = 110 km).	02 50 17.1	"	16	KIR iP Mariana Islands (h = 55 km).	13 17 32.9
"	14	UME iPKP Fiji Islands region (h = 270 km).	03 53 54.5	"	16	UPP eP iS micr sec Mx Z 6.0 21 KIR iP ipP micr sec P Z' 0.3 1.3 micr sec Mx Z 1.5 18 Near Islands, Aleutian Islands (h = 10 km). M = 5.4 (UPP,KIR).	20 22 00 20 30 38 20 21 09.3 20 21 12.8 20 21 12.8 20 21 12.8
"	14	UPP iP iPP micr sec P Z' 0.1 0.8 UME iP iPP Tajikistan (h = 130 km).	07 19 43.7 07 21 17.7 micr sec Z' 0.1 0.8 07 19 40.2 D 07 21 11.4	"	17	KIR iP Kuril Islands (h = 45 km).	00 59 37.4
"	14	UPP iP UME eP Mindanao, Philippine Islands (h = 40 km).	07 35 25.6 07 34 42	"	17	UPP iP micr sec P Z' 0.1 1.1 KIR iP micr sec P Z' 0.1 1.0 Near east coast of Honshu, Japan (h = 55 km). m = 5.7 (UPP,KIR).	03 30 18.0 03 29 39.2 03 29 39.2
"	14	UPP iPKP1 UME iPKP Kermadec Islands, New Zealand (h = N).	07 43 43.0 07 43 32.4	"	18	KIR iP UME iP South of Honshu, Japan (h = N).	06 12 11.4 06 12 26.1
"	14	UPP iP Northern Sumatera, Indonesia (h = N).	10 22 24.9	"	18	UPP iPKP1 iPKP2 KIR iPKP UME iPKP South of Kermadec Islands (h = 380 km).	18 30 10.7 18 30 17.4 18 29 52.0 18 29 59.9
"	14	UME iP Near east coast of Honshu, Japan (h = 70 km).	19 53 46.8	"	18	KIR iP Central Alaska (h = 110 km).	21 02 31.9
"	14	UPP iP UME iP Off east coast of Kamchatka (h = N).	21 18 20.9 21 17 52.6	"	18		
"	15	UPP iP micr sec P Z' 0.1 1.1 Taiwan (h = 15 km).	22 01 32.5 D micr sec Z' 0.1 1.1	"	18		
"	15	UPP iPKP1 Kermadec Islands, New Zealand (h = N).	22 14 14.0	"	18		

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

1993				1993				
Dec.	19	UPP	iP	10 44 44.7	Dec.	23	KIR eP	16 02 58
		KIR	iP	10 44 30.3			UME eP	16 02 44
				micr sec			Central Mid-Atlantic Ridge (h = 10 km).	
			P	Z' 0.1 0.7				
		UME	iP	10 44 34.9		24	UPP eP	00 20 20.0
				Philippine Islands region (h = 45 km).			KIR iP	00 19 27.2
"	19	KIR	iP	11 54 21.7			UME iP	00 19 51.6
				Southwestern Pakistan (h = 25 km).			Andreanof Islands, Aleutian Is. (h = N).	
"	20	UPP	iPdiff	14 10 35.3		24	UME iP	00 34 05.7
			iPP	14 15 06.4			Caribbean Sea (h = 10 km).	
				micr sec				
			P	Z' 0.1 1.0				
		KIR	iP	14 10 20.9		24	UME iPKP	02 51 19.6
			iPP	14 14 39.7			Vanuatu Islands region (h = 640 km).	
				micr sec				
			P	Z' 0.2 1.0		24	UPP iPKP	05 37 04.9
		UME	iP	14 10 23.7			KIR iPKP	05 37 00.1
			iPP	14 14 53.0			iSKP1	05 39 46.8
				Tanimbar Islands region, Indonesia (h = 10 km). m = 6.9 (UPP,KIR).			UME i(PKP)	05 36 52.5
"	22	KIR	iP	05 19 39.0			iPKP	05 36 58.0
				Rat Islands, Aleutian Islands (h = N).			i	05 37 04.4
"	22	UME	iSg1	19 19 56.7		24	iSKP1	05 39 54.5
				Northern Norway, 67.7°N, 15.1°E. Origin time = 19 17 44. M _L (UPP) = 2.6 1. Solution from Norwegian station readings.			Fiji Islands region (h = 450 km).	
"	22	UME	iP	19 45 40.7		24	KIR iP	17 02 17.2
				Greece (h = 20 km).			Mid-India Ridge (h = 10 km).	
"	23	UPP	eP	14 28 12		24	UPP iP	21 57 49.4
			iS	14 33 02			micr sec	
				micr sec			Mx	Z 1.6 8
			Mx	Z 3.6 11			KIR iP	21 59 07.3
		KIR	iP	14 29 18.4			micr sec	
				micr sec			P	Z' 0.3 1.6
			P	Z' 0.2 0.9			Mx	Z 2.2 10
			Mx	Z 6.1 13			UME iP	21 58 29.8
		UME	iP	14 28 46.3			Albania (h = 25 km).	
				Strait of Gibraltar (h = 25 km). M = 5.3 (UPP,KIR).		25	KIR iP	01 48 33.6
							UME iP	01 48 33.3
							Northern Colombia (h = N).	
"	25	KIR	iP	10 02 55.9		25	KIR iP	10 02 55.9
				Samar, Philippine Islands (h = 55 km).				
"	25	UPP	iP	10 20 50.5		25	UPP iP	10 20 50.5
							KIR iP	10 22 01.7
							UME iP	10 21 27.9
							Crete (h = 35 km).	

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

1993				1993			
Dec.	25	KIR iP UME iP	14 20 22.3 14 20 17.6	Dec.	27	UME iP	17 17 33.0
		Southern Sumatera, Indonesia (h = 80 km).		"	28	UPP iP KIR iP	03 42 30.3 03 42 13.8
"	25	KIR iP UME iP	21 40 00.0 21 40 34.4			P Z'	0.1 1.1
		Jan Mayen Island region (h = 10 km).				UME iP	03 42 18.2
"	26	UME iPKP	01 35 10.3	"	28	KIR iP UME iP	04 47 51.9 04 47 56.7
		Kermadec Islands, New Zealand (h = 50 km).				Samar, Philippine Islands (h = 25 km).	
"	26	KIR iP UME iP	08 53 22.3 08 53 08.0	"	28	KIR ePn	08 53 18
		Tajikistan (h = 20 km).				Norwegian Sea, 66.7°N, 8.5°E. Origin time = 08 52 04. By combination with Norwegian station readings.	
"	26	KIR iP UME iP	19 19 12.3 19 19 33.2	"	28	KIR iP UME iP	22 30 40.5 22 31 01.4
		East of Kuril Islands. (h = N).				Kuril Islands (h = 55 km).	
"	27	UME iP	03 52 40.7	"	29	UPP ePKP	08 07 31
		North of Ascension Island (h = 10 km).					micr sec
"	27	UPP iPn i iSn eLg KIR iPn iSn i UME iPn iSn iSg1 DEL iP iSn MYV iPn iSn	05 22 30.7 05 22 40.6 05 23 50.8 05 24 35 05 23 06.5 05 25 52.2 05 25 23.4 05 22 45.0 05 24 12.7 05 25 07.9 05 22 32.1 05 23 53.2 05 22 08.2 05 23 10.4			KIR iPn iPKP	08 07 20.8
		Off coast of southwestern Norway, 61.2°N, 2.9°E. Origin time = 05 20 45. M _L (UPP) = 3.8 1.				P Z'	0.5 2.5
"	27	KIR iP ipP UME iP ipP	16 11 43.4 16 12 01.1 16 12 10.5 16 12 27.6			Mx Z	13 24
		Central Alaska. h = 70 km (KIR,UME).				UME iPKP	08 07 23.6
				"	29	KIR iPn iPKP	08 20 01.3 08 20 04.6
						Vanuatu Islands (h = N).	
				"	29	KIR iPn UME iPn	08 58 50.0 08 58 52.3
						Vanuatu Islands (h = N).	
				"	29	KIR iPn UME iPn	09 01 21.4 09 01 32.7
						Vanuatu Islands (h = N).	
				"	29	UME iP	12 50 19.3
						Southern Italy (h = 270 km).	
				"	29	KIR iP	22 44 10.3
						Rat Islands, Aleutian Islands (h = N).	

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

1993					1993				
Dec.	29	KIR	iP	23 21 27.8	Dec.	31	KIR	iP	17 05 24.6
		UME	iP	23 21 35.4			UME	iP	17 05 19.0
		South of Mariana Islands (h = 70 km).					Northern Sumatera, Indonesia (h = 70 km).		
"	30	KIR	iP	06 14 55.9					
		Mindoro, Philippine Islands (h = 15 km).							
"	30	KIR	iP	06 37 03.5					
		Near east coast of Kamchatka (h = 210 km).							
"	30	UPP	iP	14 31 30.0					
				micr sec					
			Mx	Z 18 11					
		KIR	iP	14 31 23.2 C					
			ipP	14 31 28.3					
				micr sec					
			P	Z' 0.3 1.5					
			Mx	Z 4.7 11					
		UME	iP	14 31 17.3					
			ipP	14 31 22.8					
		Eastern Kazakhstan. h = 20 km (KIR,UME) M = 5.8 (UPP,KIR).							
"	30	KIR	ePKP	18 04 14					
		UME	iPKP	18 04 03.8					
		South Sandwich Islands region (h = 10 km).							
"	30	UPP	iP	19 28 10.8					
		KIR	eP	19 29 19					
		UME	iP	19 28 41.3					
		Crete (h = 45 km).							
"	31	UPP	iP	04 53 59.8					
		KIR	iP	04 54 05.6					
		UME	iP	04 54 05.1 C					
		Venezuela (h = 35 km).							
"	31	KIR	iP	06 41 59.1			September 14, 1995		
		UME	iP	06 42 13.5			Conny Holmqvist		
		Eastern Honshu, Japan (h = 90 km).					John Hlatywayo		
"	31	UME	ePKP	16 40 44			Ota Kulhánek		
		Eastern New Guinea region (h = 190 km).					Xin Pi		
							Hossein Shomali		